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Architectural  
hardware  
products

THE GRAND  
1000 GRAND AVENUE



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# Table of contents

## Finishes and door handing

### Finishes

### Door handing

## Hinges and pivots

### Architectural hinges

#### General information

#### How to order

#### 3PB1

3 Knuckle, plain bearing full mortise hinge

#### 3CB1

3 Knuckle, concealed bearing full mortise hinge

#### 3CB1HW

3 Knuckle, concealed bearing, heavy weight full mortise hinge

#### 3CB1WT

3 Knuckle, concealed bearing, wide throw full mortise hinge

#### 3SP1

3 Knuckle, spring full mortise hinge

#### 5PB1

5 Knuckle, plain bearing full mortise hinge

#### 5BB1

5 Knuckle, ball bearing full mortise hinge

#### 5BB1HW

5 Knuckle, ball bearing, heavy weight full mortise hinge

#### 5BB1WT

5 Knuckle, ball bearing, wide throw full mortise hinge

#### 5BB1SC / 5BB1BSC

5 Knuckle, ball bearing, swing clear, full mortise hinges (square and beveled)

#### 5BB1HWSC / 5BB1HWBSC

5 Knuckle, ball bearing, heavy weight, swing clear, full mortise hinges (square and beveled)

#### 1000 Series

Residential hinges

## Aluminum geared continuous hinges

### General information

### Mounting hardware

### Clearance requirements

### How to order

#### 026XY

Full mortise - narrow frame leaf, wide door leaf

#### 027XY

Full mortise - wide door leaf

#### 040XY

Full mortise - wide throw

#### 041XY

Full mortise - swing clear

#### 045XY

Half surface - narrow frame leaf, wide door leaf

#### 046XY

Half surface - wide door leaf

#### 053XY

Half surface - narrow frame leaf, narrow door leaf

#### 054XY

Half surface - narrow door leaf

#### 112HD

Full mortise - narrow frame and door leaf

#### 112XY

Full mortise - narrow frame and door leaf

#### 114XY

Full mortise - narrow frame leaf, door edge protector

#### 157XY

Full surface

#### 210XY

Full surface - swing clear

9

### 224HD

Full mortise - door edge protector

### 224XY

Full mortise - door edge protector

11

## Pin and barrel continuous hinges

### General information

### Mounting hardware

### Clearance requirements

### How to order

#### 700

Full mortise pin and barrel continuous hinge (stainless steel)

#### 700CS

Full mortise pin and barrel continuous hinge with decorative cover

#### 702

Full surface pin and barrel continuous hinge (stainless steel)

#### 705

Full mortise, full wrap pin and barrel continuous hinge (stainless steel)

#### 711

Swing clear pin and barrel continuous hinge (steel and stainless steel)

#### 715

Full mortise, half wrap pin and barrel continuous hinge (stainless steel)

#### 715CS

Full mortise, half wrap pin and barrel continuous hinge with decorative cover

## Pivots

### General information

### Pivot selection chart

### How to order

### Offset pivots

#### 7212

3/4" Offset pivot, 200lb with top header mount

#### 7212V

3/4" Offset pivot, 200lb with top jamb mount

#### 7215 / 7215F

3/4" Offset pivot, 500lb with top header mount (fire and non-fire rated models)

#### 7222

3/4" Offset pivot, 200lb with top header mount and bottom base mount

#### 7226 / 7226F

3/4" Offset pivot, 600lb with top header mount and bottom base mount (fire and non-fire rated models)

#### 7227 / 7227F

3/4" Offset pivot, 700lb with top header mount and bottom base mount (fire and non-fire rated models)

#### 7230F

3/4" Offset pivot, 1000lb with top header mount and bottom base mount (fire rated)

#### 7237F

3/4" Offset pivot, 1750lb with top header mount and bottom base mount (fire rated)

#### 7244F

1 1/2" Offset pivot, 400lb with top header mount and bottom base mount (fire rated)

#### 7245F

1 1/2" Offset pivot, 500lb with top header mount and bottom base mount (fire rated)

46

47

48

11

11

15

16

17

18

19

20

21

22

23

24

25

26

27

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

54

55

56

57

58

60

61

62

66

66

66

67

68

69

70

71

72

73

74

## Table of contents

|   |     |  |     |
|---|-----|--|-----|
| <b>Intermediate pivots</b>  | 75  | <b>Decorative pulls</b>  | 108 |
| <b>7212-7212V-7222 INT</b>  |     | <b>9190EZHD</b>  |     |
| 3/4" Offset intermediate pivot  | 75  | Solid 90° offset pull/push bar combo (8190EZHD pull + 9100HD push) | 108 |
| <b>7215-7226-7227 INT / 7215F-7226F-7227F INT</b>                                     |     | <b>8111-5</b>  |     |
| 3/4" Offset intermediate pivot (fire and non-fire rated models)                       | 76  | Solid door pull  | 109 |
| <b>7230F-7237F INT</b>  |     | <b>8112-5</b>  |     |
| 3/4" Offset intermediate pivot, fire rated  | 77  | Solid door pull  | 109 |
| <b>7244F-7245F INT</b>  |     | <b>8121</b>  |     |
| 1 1/2" Offset intermediate pivot, fire rated  | 77  | Solid door pull  | 110 |
| <b>7215PT-7226PT-7227PT INT / 7215FPT-7226FPT-7227FPT INT</b>                         |     | <b>8169</b>  |     |
| 3/4" Offset power transfer intermediate pivot (fire and non-fire rated models)        | 78  | C style (tubular series) offset solid door pull                    | 110 |
| <b>7230FPT-7237FPT INT</b>  |     | <b>8181</b>  |     |
| 3/4" Offset power transfer intermediate pivot (fire rated)                            | 79  | Georgian 90° offset solid door pull                                | 111 |
|   |     | <b>8189</b>  |     |
| <b>Center hung pivots</b>   | 80  | Athens offset tubular door pull                                    | 112 |
| <b>7253</b>   |     | <b>8281</b>  |     |
| Center hung pivot, 300lb with bottom base mount                                       | 80  | Georgian straight solid door pull                                  | 113 |
| <b>7255</b>   |     | <b>8312</b>  |     |
| Center hung pivot, 500lb with bottom base mount                                       | 80  | Plymouth offset solid door pull                                    | 114 |
| <b>7255J</b>  |     | <b>8320</b>  |     |
| Center hung pivot, 500lb with bottom jamb mount                                       | 81  | Plymouth offset solid door pull                                    | 114 |
| <b>7256</b>   |     | <b>8371</b>  |     |
| Center hung pivot, 600lb with bottom base mount                                       | 82  | Addison flat tip straight solid door pull                          | 115 |
| <b>7259</b>   |     | <b>8372</b>  |     |
| Center hung pivot, 1000lb with bottom base mount                                      | 83  | Camelot steeple tip straight tubular door pull                     | 116 |
|   |     | <b>8373</b>  |     |
| <b>Pocket pivots</b>  | 84  | Brookshire acorn tip straight tubular door pull                    | 117 |
| <b>91105F</b>   |     | <b>8700</b>  |     |
| Pocket pivot/hinge, fire rated  | 85  | Greenwich arc straight solid door pull                             | 118 |
| <b>E91105F</b>  |     | <b>8800</b>  |     |
| Pocket pivot/hinge, power transfer, fire rated  | 85  | Greenwich arc offset solid door pull                               | 119 |
|   |     | <b>8848</b>  |     |
| <b>Pulls, push bars and plates</b>  | 87  | Latitude straight solid door pull                                  | 120 |
| <b>General information</b>  |     | <b>Long door pulls</b>   | 121 |
| <b>Mounting hardware</b>  |     | <b>8975</b>  |     |
| <b>How to order</b>   |     | Rhodes straight solid door pull                                    | 121 |
| Architectural pulls and push bars   | 94  | <b>9264/9266</b>   |     |
| Long door pulls   | 95  | Long door pull, rounded tip (offset and straight models)           | 122 |
| Push, pull and protection plates  | 96  | <b>Hands-free door pulls</b>                                       | 123 |
| <b>Architectural pulls and push bars</b>  | 97  | <b>8122HD/8322HD</b>   |     |
| <b>8102HD</b>   |     | Hands-free reversible arm pull (models with and without plate)     | 123 |
| Solid door pull - 3/4" round  | 97  | <b>FP100</b>   |     |
| <b>8103HD</b>   |     | Hands-free foot pull   | 124 |
| Solid door pull - 1" round  | 98  | <b>AP101</b>   |     |
| <b>8103EZHD</b>   |     | Hands-free arm pull  | 124 |
| Solid door pull - 1" round, large 2 1/2" clearance for the accessibility applications | 99  | <b>OTP300/OT300</b>  |     |
| <b>8105</b>   |     | Opening hand tool (plastic and steel models)                       | 124 |
| Solid door pull - 1" flattened  | 100 | <b>Push, pull and protection plates</b>                            | 125 |
| <b>8145EZHD</b>   |     | <b>8200/8300</b>   |     |
| 45° Offset solid door pull  | 101 | Push/pull plate  | 125 |
| <b>8190HD</b>   |     | <b>8302</b>  |     |
| 90° Offset solid door pull  | 102 | Pull plate   | 126 |
| <b>8190EZHD</b>   |     | <b>8303</b>  |     |
| 90° Offset solid door pull  | 103 | Pull plate   | 127 |
| <b>9100HD</b>   |     | <b>8305</b>  |     |
| Solid push bar  | 104 | Pull plate   | 128 |
| <b>9103EZHD</b>   |     | <b>8311</b>  |     |
| Solid straight pull/push bar combo (8103EZHD pull + 9100HD push)                      | 105 | Pull plate   | 129 |
| <b>9145EZHD</b>   |     | <b>Types of protection plates</b>                                  |     |
| 45° Offset pull/push bar combo (8145HD pull + 9100HD push)                            | 106 | <b>8400/8402</b>   |     |
| <b>9190HD</b>   |     | Commercial protection plates (UL and non-UL models)                | 131 |
| Solid 90° offset pull/push bar combo (8190HD pull + 9100HD push)                      | 107 | <b>Edge guards and vandal resistant trim</b>                       | 132 |
|   |     | <b>Edge guards</b>   | 133 |
|   |     | <b>General information</b>   |     |

## Table of contents

|   |            |  |            |
|---|------------|--|------------|
| <b>Vandal resistant trim</b>  | <b>137</b> | <b>Constant latching flush bolts</b>   | <b>159</b> |
| <b>VR810-DT/VR814-DT</b><br>Vandal resistant dummy trim<br>(models with and without black grip)   | 137        | <b>FB51P/FB51T</b><br>Top bolt and bottom bolts - metal doors  | 159        |
| <b>VR810-NL/VR814-NL</b><br>Vandal resistant night latch trim, LHR and RHR options<br>(models with and without black grip)                | 138        | <b>FB52/FB53</b><br>Top bolt with auxiliary fire latch - metal doors<br>(models with and without retrofit plate) | 160        |
| <b>VR810-NL-V/VR814-NL-V</b><br>Vandal resistant night latch trim<br>(models with and without black grip)                                 | 139        | <b>FB61P/FB61T</b><br>Top bolt and bottom bolts - wood doors   | 161        |
| <b>VR900/VR904</b><br>Vandal resistant mortise trim, LHR and RHR options<br>(models with and without black grip)                          | 140        | <b>FB62</b><br>Top bolt with auxiliary fire latch - wood doors   | 162        |
| <b>VR900LLP/VR904LLP</b><br>Vandal resistant mortise trim, less lock protector,<br>LH and RH options (models with and without black grip) | 141        | <b>Manual flush bolts</b>  | <b>163</b> |
| <b>VR910-DT/VR914-DT</b><br>Vandal resistant dummy trim<br>(models with and without black grip)   | 142        | <b>261</b><br>Flush bolt - 4"  | 163        |
| <b>VR910-NL/VR914-NL</b><br>Vandal resistant night latch trim<br>(models with and without black grip)                                     | 143        | <b>262</b><br>Flush bolt - 6" square end   | 163        |
| <b>VR910M-DT/VR914M-DT</b><br>Vandal resistant mortise dummy trim<br>(models with and without black grip)                                 | 144        | <b>265</b><br>Flush bolt - 6" round end  | 163        |
| <b>VR910M-NL/VR914M-NL</b><br>Vandal resistant mortise night latch trim, LHR and RHR<br>options, (models with and without black grip)     | 145        | <b>FB358</b><br>Top or bottom bolts - wood doors   | 164        |
| <b>Flush pulls and sliding door pulls</b>   | <b>146</b> | <b>FB457</b><br>Top or bottom bolts - metal doors  | 165        |
| <b>22</b><br>Flush pull - rectangle   | 147        | <b>FB458</b><br>Top or bottom bolts - metal doors  | 166        |
| <b>218</b><br>Flush pull - small circle   | 147        | <b>Dust proof strikes</b>  | <b>167</b> |
| <b>221</b><br>Flush pull - large circle   | 148        | <b>DP1/DP2</b><br>Dust proof strike  | 167        |
| <b>222</b><br>Flush pull - rectangle  | 148        | <b>Coordinators, filler bars and mounting brackets 168</b>   |            |
| <b>223</b><br>Flush pull - oval   | 149        | <b>How to order</b>  |            |
| <b>227</b><br>Flush pull - deep well  | 149        | <b>COR</b><br>Bar coordinators   | 170        |
| <b>919</b><br>Decorative flush pull - oval  | 150        | <b>FL</b><br>Filler bars   | 171        |
| <b>950</b><br>Decorative flush pull - rectangle   | 150        | <b>MB1/MB2</b><br>Mounting brackets  | 172        |
| <b>955</b><br>Decorative flush pull - square, deep well   | 151        | <b>MB1F/MB2F/MB3F, MB1V/MB2V/MB3V</b><br>Mounting brackets   | 172        |
| <b>960</b><br>Decorative flush pull - rectangle   | 151        | <b>COR7G/COR9G</b><br>Gravity coordinators   | 173        |
| <b>962</b><br>Decorative flush pull - rectangle   | 151        | <b>CB1</b><br>Carry bar  | 173        |
| <b>230</b><br>Sliding door edge pull  | 152        | <b>Latches, catches and bolts</b>  | <b>175</b> |
| <b>42</b><br>Pocket sliding door bolt   | 152        | <b>Surface bolts</b>   | <b>175</b> |
| <b>990/991</b><br>Sliding door pull (passage and privacy models)  | 153        | <b>SB360</b><br>Surface bolt   | 175        |
| <b>25</b><br>Screen door pull   | 153        | <b>SB453</b><br>Surface bolt   | 175        |
| <b>Flush bolts, strikes and coordinators</b>  | <b>154</b> | <b>SB1630/SB1640</b><br>Surface bolt   | 176        |
| <b>Automatic flush bolts</b>  | <b>155</b> | <b>SB1600M1/SB1600M2</b><br>Surface bolt   | 177        |
| <b>FB31P/FB31T/FB31B</b><br>Top and bottom flush bolts - metal doors  | 155        | <b>40</b><br>Surface bolt, decorative light duty   | 178        |
| <b>FB32/FB33</b><br>Top bolt with auxiliary fire latch - metal doors<br>(models with and without retrofit plate)                          | 156        | <b>253</b><br>Surface bolt, decorative heavy duty  | 178        |
| <b>FB41P/FB41T/FB41B</b><br>Top bolt and bottom bolts - wood doors  | 157        | <b>Dutch door and mortise door bolts</b>   | <b>179</b> |
| <b>FB42</b><br>Top bolt with auxiliary fire latch - wood doors  | 158        | <b>054</b><br>Dutch door bolt  | 179        |
|   |            | <b>S48</b><br>Mortise door bolt  | 179        |
|   |            | <b>Door guards</b>   | <b>180</b> |
|   |            | <b>481</b><br>Chain door guard   | 180        |
|   |            | <b>482</b><br>Solid bar door guard   | 181        |
|   |            | <b>484</b><br>Privacy door guard   | 182        |

|   |            |                                       |   |     |
|---|------------|---------------------------------------|---|-----|
| <b>Roller latches</b>                         | <b>184</b> | <b>FS439</b>                          | Universal dome floor stop                   | 197 |
| <b>RL30/RL30A</b>                             |            | <b>FS410</b>                          | Decorative floor stop                       | 197 |
| Roller latch                                  | 184        | <b>FS18S/FS18L</b>                    | Floor stop                                  | 198 |
| <b>RL32/RL32A</b>                             |            | <b>FS434</b>                          | Floor stop                                  | 198 |
| Roller latch                                  | 184        | <b>430</b>                            | Floor door stop                             | 198 |
| <b>RL36/RL36A</b>                             |            | <b>FS441</b>                          | Floor stop                                  | 199 |
| Roller latch                                  | 185        | <b>FS444/FS448</b>                    | Masonry and drywall/wood floor stops        | 199 |
| <b>RL38</b>                                   |            | <b>FS9</b>                            | Floor stop and semi-automatic holder        | 200 |
| Roller latch                                  | 185        | <b>FS40, FS41, FS42 and FS43</b>      | Floor stop and automatic holders            | 200 |
| <b>RL1152</b>                                 |            | <b>FS446/FS450</b>                    | Floor stop and manual door holder           | 201 |
| Roller latch                                  | 186        | <b>FS495/FS496/FS497</b>              | Stops and semi-automatic holders            | 201 |
| <b>STK685/STK685L</b>                         |            | <b>Wall bumpers and stops</b>         | <b>202</b>                                  |     |
| <b>Angle stops</b>                            | <b>187</b> | <b>WS401/WS402CVX, WS401/WS402CCV</b> | Wall bumpers (convex and concave models)    | 202 |
| <b>AS895</b>                                  |            | <b>WS404CVX</b>                       | Wall stop (convex)                          | 202 |
| Angle stop                                    | 187        | <b>WS406/WS407CVX, WS406/WS407CCV</b> | Wall stops (convex and concave models)      | 203 |
| <b>AS18</b>                                   |            | <b>411R-W</b>                         | Wall bumper - adhesive                      | 203 |
| Angle stop                                    | 187        | <b>Wall stops and holders</b>         | <b>204</b>                                  |     |
| <b>Invisible latches</b>                      | <b>188</b> | <b>WS11/WS11X</b>                     | Wall stops                                  | 204 |
| <b>CL11</b>                                   |            | <b>WS20/WS20X</b>                     | Manual wall holders                         | 204 |
| Invisible latch                               | 188        | <b>WS33/WS33X</b>                     | Wall stops                                  | 205 |
| <b>CL12</b>                                   |            | <b>WS65</b>                           | Wall stop                                   | 205 |
| Invisible latch                               | 188        | <b>WS443/WS447</b>                    | Wall stops                                  | 206 |
| <b>CL14</b>                                   |            | <b>WS445/WS449</b>                    | Manual wall holders                         | 206 |
| Invisible latch, auxiliary pusher             | 188        | <b>WS40</b>                           | Automatic wall holder                       | 207 |
| <b>Magnetic catches</b>                       | <b>189</b> | <b>WS45/WS45X</b>                     | Automatic wall holder                       | 207 |
| <b>325</b>                                    |            | <b>FS452</b>                          | Kick down holder                            | 208 |
| Magnetic catch                                | 189        | <b>FS455</b>                          | 4" Kick down holder                         | 208 |
| <b>326</b>                                    |            | <b>FS544/FS555</b>                    | Kick down holders                           | 209 |
| Magnetic catch, dual double pole              | 189        | <b>FS1153</b>                         | Plunger type door holder                    | 210 |
| <b>327</b>                                    |            | <b>FS1154</b>                         | Plunger type door holder                    | 210 |
| Magnetic catch, dual triple pole              | 189        | <b>Roller bumpers</b>                 | <b>211</b>                                  |     |
| <b>Roller catches</b>                         | <b>190</b> | <b>RB470/RB471/RB472</b>              | Roller bumpers (straight and offset models) | 211 |
| <b>330</b>                                    |            | <b>Residential door stops</b>         | <b>212</b>                                  |     |
| Roller catch                                  | 190        | <b>060/061</b>                        | Flexible door stops                         | 212 |
| <b>335</b>                                    |            | <b>60/61</b>                          | Base door stops                             | 213 |
| Roller catch                                  | 190        | <b>63</b>                             | Flexible door stop                          | 214 |
| <b>336</b>                                    |            |                                       |   |     |
| Roller catch                                  | 190        |                                       |   |     |
| <b>Ball catches</b>                           | <b>191</b> |                                       |   |     |
| <b>CL21</b>                                   |            |                                       |   |     |
| Ball catch                                    | 191        |                                       |   |     |
| <b>CL21A</b>                                  |            |                                       |   |     |
| Ball catch                                    | 191        |                                       |   |     |
| <b>CL22</b>                                   |            |                                       |   |     |
| Ball catch                                    | 191        |                                       |   |     |
| <b>345</b>                                    |            |                                       |   |     |
| Ball catch, adjustable                        | 192        |                                       |   |     |
| <b>347</b>                                    |            |                                       |   |     |
| Ball catch, dual adjustable - square corners  | 192        |                                       |   |     |
| <b>349</b>                                    |            |                                       |   |     |
| Ball catch, dual adjustable - rounded corners | 193        |                                       |   |     |
| <b>2</b>                                      |            |                                       |   |     |
| Elbow catch                                   | 193        |                                       |   |     |
| <b>Door stops, holders and silencers</b>      | <b>195</b> |                                       |   |     |
| <b>Floor stops and holders</b>                | <b>195</b> |                                       |   |     |
| <b>FS13</b>                                   |            |                                       |   |     |
| Dome stop                                     | 195        |                                       |   |     |
| <b>R14</b>                                    |            |                                       |   |     |
| Dome stop rise                                | 195        |                                       |   |     |
| <b>FS17</b>                                   |            |                                       |   |     |
| Dome stop                                     | 195        |                                       |   |     |
| <b>FS436/FS438</b>                            |            |                                       |   |     |
| Dome stop                                     | 196        |                                       |   |     |
| <b>R435/R437</b>                              |            |                                       |   |     |
| Dome stop riser                               | 196        |                                       |   |     |

## Table of contents

|  |  |            |                                       |                                    |            |
|--|--|------------|---------------------------------------|------------------------------------|------------|
| <b>64</b>  | Base door stops  | 214        | <b>159</b>                            | Hand rail bracket                  | 231        |
| <b>69</b>  | Hinge pin door stop  | 215        | <b>405</b>                            | Coat and hat hook                  | 232        |
| <b>70</b>  | Hinge pin door stop  | 216        | <b>571</b>                            | Coat and hat hook                  | 232        |
| <b>72</b>  | Hinge pin door stop  | 217        | <b>572</b>                            | Coat and hat hook                  | 233        |
| <b>73</b>  | Hinge pin door stop  | 217        | <b>574</b>                            | Coat and hat hook                  | 233        |
| <b>Door silencers</b>                                  |  | <b>218</b> | <b>575</b>                            | Coat and hat hook                  | 234        |
| <b>SR64</b>  | Door silencer - metal  | 218        | <b>580</b>                            | Ceiling hook                       | 234        |
| <b>SR65</b>  | Door silencer - wood   | 218        | <b>581</b>                            | Wardrobe hook                      | 235        |
| <b>SR66</b>  | Door silencer - adhesive                                       | 218        | <b>582</b>                            | Double wardrobe hook               | 235        |
| <b>Crash stop</b>                                      |  | <b>219</b> | <b>SP585</b>                          | Closet pole sockets                | 236        |
| <b>CS115</b>   | Crash stop   | 219        | <b>SP586</b>                          | Closet pole sockets                | 236        |
| <b>Exterior hardware</b>                               |  | <b>220</b> | <b>Decorative hooks</b>               |                                    | <b>237</b> |
| <b>Lock guards, viewers, knockers and mail slots</b>   |  | <b>220</b> | <b>506</b>                            | Plymouth coat and hat hook         | 237        |
| <b>Lock guards</b>                                     |  | <b>221</b> | <b>507</b>                            | Rhodes coat and hat hook           | 237        |
| <b>LG1/LG7</b>   | Lock guard (with and without security pin)                     | 221        | <b>507B</b>                           | Rhodes wardrobe hook               | 237        |
| <b>LG10</b>  | Lock guard   | 221        | <b>508</b>                            | Greenwich coat and hat hook        | 238        |
| <b>LG11</b>  | Lock guard - aluminum doors                                    | 222        | <b>508C</b>                           | Greenwich coat and hat hook        | 238        |
| <b>LG12</b>  | Lock guard - narrow  | 222        | <b>509C</b>                           | Tubular coat and hat hook          | 239        |
| <b>LG13</b>  | Lock guard   | 223        | <b>510C</b>                           | Latitude coat and hat hook         | 239        |
| <b>LG14</b>  | Lock guard - with electric strike                              | 223        | <b>510BC</b>                          | Latitude wardrobe hook             | 240        |
| <b>Viewers</b>   |  | <b>224</b> | <b>511BC</b>                          | Century wardrobe hook              | 240        |
| <b>U696</b>  | One-way viewer - UL  | 224        | <b>543</b>                            | Camelot coat and hat hook          | 241        |
| <b>698/U698</b>  | One-way wide angle viewer (UL and non UL models)               | 224        | <b>543B</b>                           | Camelot wardrobe hook              | 241        |
| <b>700/U700</b>  | One-way narrow viewer (UL and non-UL models)                   | 225        | <b>554</b>                            | Century coat and hat hook          | 242        |
| <b>701/U701</b>  | One-way narrow wide angle viewer (UL and non UL models)        | 225        | <b>558B</b>                           | Orbit wardrobe hook                | 242        |
| <b>Viewer covers/viewer extensions</b>                 |  | <b>226</b> | <b>559B</b>                           | Tubular wardrobe hook              | 242        |
| <b>890311/890312</b>                                   | Viewer covers  | 226        | <b>Window hardware</b>                |                                    | <b>243</b> |
| <b>890314/890313</b>                                   | Viewer extensions  | 226        | <b>07</b>                             | Window lock                        | 244        |
| <b>Door knockers and mail slots</b>                    |  | <b>227</b> | <b>90</b>                             | Side window lock                   | 244        |
| <b>02-3125, 02-31251/02-31251U, 02-31252/02-31252U</b> | Door knocker (models with and without viewers)                 | 227        | <b>026</b>                            | Bar window lift                    | 245        |
| <b>620</b>   | Magazine size letter box plate with standard (open) back plate | 227        | <b>066</b>                            | Casement fastener                  | 245        |
| <b>601</b>   | Sleeve for use with letter box plate                           | 227        | <b>66</b>                             | Casement fastener                  | 246        |
| <b>Miscellaneous hardware</b>                          |  | <b>229</b> | <b>71</b>                             | Casement adjuster                  | 246        |
| <b>Brackets, hooks and sockets</b>                     |  | <b>229</b> | <b>Rescue hardware</b>                |                                    | <b>247</b> |
| <b>059</b>   | Hand rail bracket  | 230        | <b>299AL/299AB/299AS, 299RB/299RS</b> | Emergency stops and rescue strikes | 248        |
| <b>59</b>  | Hand rail bracket  | 231        |                                       |                                    |            |

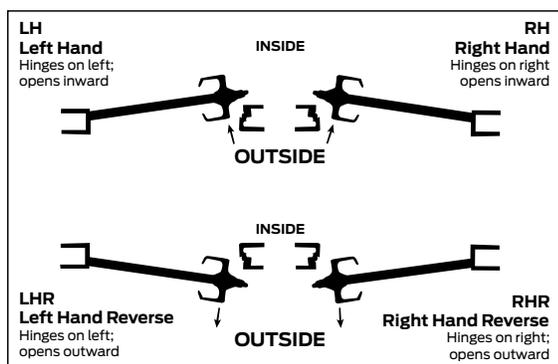
# Finishes

| Ives finish | ANSI/BHMA | US number | Finish description                       | Base material |
|-------------|-----------|-----------|--|---------------|
| A3          | 666       | US3       | Bright Brass, Clear Coat                 | Aluminum      |
| A4          | 667       | US4       | Satin Brass, Clear Coat                  | Aluminum      |
| A5          | –         | US5       | Brass, Blackened, Satin Relieved         | Aluminum      |
| A10         | 668       | US10      | Satin Bronze, Clear Coat                 | Aluminum      |
| A10B        | 703       | US10B     | Dark Bronze, Oil Rubbed                  | Aluminum      |
| A14         | 669       | US14      | Bright Nickel, Clear Coat                | Aluminum      |
| A15         | 670       | US15      | Satin Nickel, Clear Coat                 | Aluminum      |
| A26         | 672       | US26      | Bright Chrome                            | Aluminum      |
| A26D        | 702       | US26D     | Satin Chrome                             | Aluminum      |
| A-643E/716  | –         | –         | Aged Bronze, Blackened, Edge Relieved    | Aluminum      |
| A92         | 673       | –         | Aluminum Clear Coat                      | Aluminum      |
| A-BLK       | –         | –         | Matte Black                              | Aluminum      |
| A-W         | –         | –         | White                                    | Aluminum      |
| US27        | 627       | US27      | Satin Aluminum, Clear Coated             | Aluminum      |
| 441         | 441       | –         | Satin Stainless Anodized                 | Aluminum      |
| PA28        | 628       | US28      | Satin Aluminum, Clear Anodized           | Aluminum      |
| 688         | 688       | –         | Satin Brass Anodized                     | Aluminum      |
| 709         | 709       | –         | Satin Bronze Anodized                    | Aluminum      |
| 710         | 710       | 313AN     | Dark Bronze Anodized                     | Aluminum      |
| 711         | 711       | 315AN     | Black Anodized                           | Aluminum      |
| 712         | 712       | –         | Bright Chrome Anodized                   | Aluminum      |
| 713         | 713       | –         | Satin Chrome Anodized                    | Aluminum      |
| B3          | 605       | US3       | Bright Brass, Clear Coat                 | Brass/bronze  |
| B4          | 606       | US4       | Satin Brass, Clear Coat                  | Brass/bronze  |
| B5          | 609       | US5       | Satin Brass, Blackened, Satin Relieved   | Brass/bronze  |
| B9          | 611       | US9       | Bright Bronze, Clear Coat                | Brass/bronze  |
| B10         | 612       | US10      | Satin Bronze, Clear Coat                 | Brass/bronze  |
| B10B        | 613       | US10B     | Dark Bronze, Oil Rubbed                  | Brass/bronze  |
| 614         | 614       | US10A     | Satin Bronze, Relieved, Clear Coated     | Brass/bronze  |
| B14         | 618       | US14      | Bright Nickel, Clear Coat                | Brass/bronze  |
| B15         | 619       | US15      | Satin Nickel, Clear Coat                 | Brass/bronze  |
| B15A        | 620       | US15A     | Satin Nickel, Blackened, Satin Relieved  | Brass/bronze  |
| B26         | 625       | US26      | Bright Chrome                            | Brass/bronze  |
| B26D        | 626       | US26D     | Satin Chrome                             | Brass/bronze  |
| B-643E/716  | –         | –         | Aged Bronze, Blackened, Edge Relieved    | Brass/bronze  |
| B-695       | 695       | US10B     | Dark Bronze Painted                      | Brass/bronze  |
| B-BLK       | 622       | US19      | Matte Black                              | Brass/bronze  |
| US2G        | 603       | US2G      | Zinc Plated                              | Steel         |
| F2C         | 604       | US2C      | Zinc Plated                              | Steel         |
| F3          | 632       | US3       | Bright Brass, Clear Coat                 | Steel         |
| F4          | 633       | US4       | Satin Brass, Clear Coat                  | Steel         |
| F5          | 638       | US5       | Satin Brass, Blackened, Satin Relieved   | Steel         |
| F10         | 639       | US10      | Satin Bronze, Clear Coat                 | Steel         |
| F10B        | 640       | US10B     | Dark Bronze, Oil Rubbed                  | Steel         |
| 641         | 641       | US10A     | Oxidized Brz, Relieved, Clear Coated     | Steel         |
| F14         | 645       | US14      | Bright Nickel, Clear Coat                | Steel         |
| F15         | 646       | US15      | Satin Nickel, Clear Coated               | Steel         |
| F15A        | 647       | US15A     | Satin Nickel, Blackened, Relieved, Clear | Steel         |
| F26         | 651       | US26      | Bright Chrome                            | Steel         |
| F26D        | 652       | US26D     | Satin Chrome                             | Steel         |
| F-643E/716  | –         | –         | Aged Bronze, Blackened, Edge Relieved    | Steel         |
| F-695       | 695       | US10B     | Dark Bronze Painted                      | Steel         |
| F-BLK       | 631       | US19      | Matte Black                              | Steel         |
| F-W         | –         | –         | White                                    | Steel         |
| SP4         | 706       | –         | Dull Brass Painted                       | All           |
| SP10        | 691       | –         | Dull Bronze Painted                      | All           |
| SP28        | 689       | –         | Aluminum Painted                         | All           |
| SP313       | 695       | US10BE    | Dark Bronze Painted                      | All           |

# Finishes

| Ives finish | ANSI/BHMA | US number | Finish description                     | Base material         |
|-------------|-----------|-----------|--|-----------------------|
| SPBLK       | 622       | –         | Matte Black                            | All                   |
| USP         | 600       | USP       | Primed For Paint                       | All                   |
| US26D-AM    | 626-AM    | US26D-AM  | Satin Chrome, Antimicrobial Coating    | Brass/bronze          |
| US32        | 629       | US32      | Bright Stainless Steel                 | Stainless steel       |
| US32-316    | 629-316   | US32-316  | Bright Stainless Steel - 316 Series    | Stainless steel - 316 |
| US32D       | 630       | US32D     | Satin Stainless Steel                  | Stainless steel       |
| US32D-316   | 630-316   | US32D-316 | Satin Stainless Steel - 316 Series     | Stainless steel - 316 |
| US32D       | 654       | –         | Satin Stainless Steel                  | Stainless steel       |
| US32D-AM    | –         | –         | Satin Stainless, Antimicrobial Coating | Stainless steel       |
| Z605        | 677       | US3       | Bright Brass, Clear Coat               | Zinc                  |
| 678         | 678       | US4       | Satin Brass, Clear Coat                | Zinc                  |
| Z609        | –         | US5       | Satin Brass, Blackened, Satin Relieved | Zinc                  |
| Z613        | 704       | US10B     | Dark Bronze, Oil Rubbed                | Zinc                  |
| Z619        | –         | US15      | Satin Nickel, Clear Coat               | Zinc                  |
| Z625        | 681       | US26      | Bright Chrome                          | Zinc                  |
| 682         | –         | US26D     | Satin Chrome                           | Zinc                  |
| Z-643E/716  | –         | –         | Aged Bronze, Blackened, Edge Relieved  | Zinc                  |
| Z-BLK       | –         | –         | Matte Black                            | Zinc                  |
| Z-W         | –         | –         | White                                  | Zinc                  |
| CLR         | –         | –         | Clear                                  | Plastic               |
| BLK         | –         | –         | Matte Black                            | Rubber or plastic     |
| WHT         | –         | –         | White                                  | Rubber or plastic     |
| GRY         | –         | –         | Grey                                   | Rubber                |
| TAN         | –         | –         | Tan                                    | Rubber                |

# Door handing



# Architectural hinges

Ives offers a variety of architectural hinges, also known as butt hinges, that will cover any need in residential and commercial applications while also exceeding code requirements. Choose from high-quality hinges offered in a variety of substrates, knuckles, bearings, and styles. Use our selection guide in the general information section to better understand the right hinge for your application.



# General information

## Selection of the proper weight and bearing type

|                 |                                 |
|-----------------|---------------------------------|
| Standard weight | Plain bearing                   |
| Standard weight | Ball bearing, concealed bearing |
| Heavy weight    | Ball bearing, concealed bearing |

## Considerations to determine weight and bearing type

- Weight of door
- Frequency of use
- Frame
- Door hardware

Always use ball bearing or concealed bearing hinges for doors with door closers and in all fire rated openings. Doors over 150 pounds and/or used more than 100 times per day should be hung on heavy weight ball bearing or concealed bearing hinges.

## Guidelines for hinge metal

- Interior door or non-corrosive area use: plated or painted steel
- Interior labeled door use: plated or painted steel, stainless steel
- Interior door in corrosive area use: stainless steel, brass, bronze
- Exterior doors use: Stainless steel, brass, bronze

Standard pin material are brass hinge – steel pin, Stainless steel hinge – stainless steel pin, steel hinge – steel pin

## Guidelines for frequency of door usage

| Build type                                 | Daily usage | Hinge type      |
|--|-------------|-----------------|
| <b>High frequency/heavy weight door</b>    |             |                 |
| Large department store entrance            | 5,000       | Heavy weight    |
| Hospital corridor and surgical doors       | 5,000       | Heavy weight    |
| Large office building entrance             | 4,000       | Heavy weight    |
| School entrance                            | 1,250       | Heavy weight    |
| School toilet door                         | 1,250       | Heavy weight    |
| Office stairwell                           | 500         | Heavy weight    |
| Office building toilet door                | 400         | Heavy weight    |
| <b>Medium frequency/medium weight door</b> |             |                 |
| School corridor door                       | 100         | Standard weight |
| Hospital consultation rooms                | 100         | Standard weight |
| Office building corridor door              | 80          | Standard weight |
| Store toilet door                          | 60          | Standard weight |
| Storage room                               | 50          | Standard weight |
| <b>Low frequency/light door</b>            |             |                 |
| Residential entrance                       | 30          | Plain bearing   |
| Interior residential                       | 20          | Plain bearing   |

## ANSI/BHMA Grade/minimum cycle requirements

- Grade 1: 2,500,000 Heavy weight ball and concealed bearing
- Grade 2: 1,500,000 Standard weight ball and concealed bearing
- Grade 3: 350,000 Lightweight plain bearing

## Considerations to determine hinge size

- Door width
- Door thickness
- Weight
- Clearance

## Guidelines for hinge height

| Door thickness | Door width | Hinge height    |
|----------------|------------|-----------------|
| In inches      | In inches  | In inches       |
| 1 3/8"         | Up to 32"  | 3 1/2"          |
| 1 3/8"         | 32" to 37" | 4"              |
| 1 3/4"         | Up to 36"  | 4 1/2"          |
| 1 3/4"         | 36" to 48" | 5"              |
| 1 3/4"         | Over 48"   | 6"              |
| 2" - 2 1/2"    | Up to 42"  | 5" heavy weight |
| 2" - 2 1/2"    | Over 42"   | 6" heavy weight |

## Clearance requirement\*

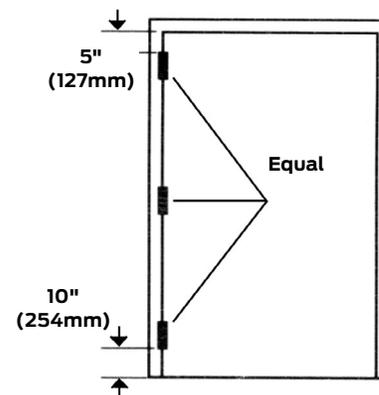
| Door thickness | Clearance needed | Hinge open width |
|----------------|------------------|------------------|
| 1 3/8"         | 1 3/4"           | 4"               |
| 1 3/4"         | 1"               | 4"               |
| 1 3/4"         | 1 1/2"           | 4 1/2"           |
| 1 3/4"         | 2"               | 5"               |
| 1 3/4"         | 3"               | 6"               |
| 2"             | 1"               | 4 1/2"           |
| 2"             | 1 1/2"           | 5"               |
| 2"             | 2 1/2"           | 6"               |
| 2 1/4"         | 1"               | 5"               |
| 2 1/4"         | 2"               | 6"               |
| 2 1/2"         | 1/2"             | 5"               |
| 2 1/2"         | 1 1/2"           | 6"               |
| 3"             | 3/4"             | 6"               |
| 3"             | 2 3/4"           | 8"               |

\*Distance needed between wall and door at 180° to allow for any projections from wall; trim, decorative molding, etc. Consult factory technical service for engineered special applications

## Guidelines for number of hinges

- Doors under 7'6" - 3 hinges
- Doors over 7'6" - 4 hinges

## Location of hinges



**Top hinge** 5" from jamb rabbet to top of barrel

**Bottom hinge** 10" from bottom edge of barrel to finished floor

**Third hinge** centered between top and bottom hinges

Note: Consult door manufacturer for other hinge locations

# General information

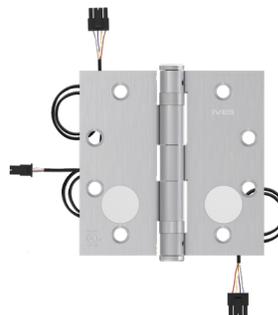
## Electrification options



### Electrical through-wire (TW4, TW8 and TW12)

Provides electric power transfer from the frame to the door in order to supply power to an electrified mortise or cylindrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Each wire is 28 AWG and rated 50 volts AC/DC at 3.5 amp continuous and 16 amp pulse. Maximum pulse 400 milliseconds. Ives through-wire hinges are available with 4 wire (TW4), 8 wire (TW8) installations and 12 wire (TW12) installations. All TW4, TW8 and TW12 architectural hinges are standard with the Allegion Connect 8-pin Connector which makes it easy to connect to other electrical consumption devices.

- UL634 Listed
- Not available 3PB1
- Not available with security stud (SH) option
- Packaged one hinge per box with standard wood and machine screws
- Hinge is NRP as a standard
- High quality brass ferrules and plastic tubing protect the wires
- Through-wire hinges cycle tested to industry standards
- Special wire gauge, number, and color configurations available, contact factory



### Electrical Monitor (MON, TW4M, TW8M)

Provides door position monitoring. Monitor is rated 30 volts AC/DC at 0.25 amp. Fully compatible with through-wire hinges with 4 wire (TW4M) and 8 wire (TW8M) options. Supplied standard with CON, Allegion's modular 8-pin connector for connection to other electrified products.

- UL634 Listed
- Not available 3PB1, 3SP1, and 5PB1 models
- Not available on 3.5 x 3.5 and 4X4 size hinges
- Not available with security stud (SH) option
- Packaged one hinge per box with standard wood and machine screws
- Hinge is NRP as a standard
- High quality brass ferrules and plastic tubing protect the wires
- Through-wire hinges cycle tested to industry standards
- Special wire gauge, number, and color configurations available, contact factory

# How to order

| Number of knuckles | Function | Type | Weight/type | Options | Height x Width | Finish | Options 2 |    |   |         |   |     |   |     |
|--------------------|----------|------|-------------|---------|----------------|--------|-----------|----|---|---------|---|-----|---|-----|
| 1                  | 2        | 3    | 4           | 5       | 6              | 7      | 8         |    |   |         |   |     |   |     |
| 5                  | -        | BB   | -           | 1       | -              | HW     | -         | SH | - | 4.5x4.5 | - | 652 | - | NRP |

## Detail

| 1 | Number of knuckles |
|---|--------------------|
| 3 | 3 Knuckle          |
| 5 | 5 Knuckle          |

| 2  | Function          |
|----|-------------------|
| PB | Plain bearing     |
| BB | Ball bearing      |
| CB | Concealed bearing |
| SP | Spring hinge      |

| 3  | Type         |
|----|--------------|
| 1  | Full mortise |
| 2* | Half mortise |
| 3* | Full surface |
| 4* | Half surface |

\*Engineering special. Consult factory for specific lead time.

| 4     | Weight/type                       |
|-------|-----------------------------------|
| Blank | Standard weight (BHMA Grade 2)    |
| HW    | Heavy weight (BHMA Grade 1)       |
| SC    | Swing clear                       |
| BSC   | Beveled swing clear               |
| SCHW  | Swing clear, heavy weight         |
| BSCHW | Beveled swing clear, heavy weight |
| WT    | Wide throw                        |

| 5  | Options  |
|----|--|
| HT | Hospital tip   |
| SH | Security stud (includes NRP as standard offering) on hospital tip and on the TW and MON. |

| 6   | Height x Width    |
|-----|-------------------|
| 3.5 | x 3.5             |
| 4   | x 4               |
| 4.5 | x 4, 4.5, 5, 6    |
| 5   | x 4.5, 5, 6, 7, 8 |

Consult model page for availability.

| 7    | Finish                                 |
|------|--|
| BHMA | Description Substrate Finish           |
| 600  | Primer Paint Brass USP                 |
| 605  | Bright Brass Brass US3                 |
| 606  | Satin Brass Brass US4                  |
| 612  | Satin Bronze Brass US10                |
| 613  | Oil Rubbed Bronze Brass US10B          |
| 614  | Oxidized Bronze Brass US10A            |
| 619  | Satin Nickel Brass US15                |
| 622  | Matte Black Brass B-BLK                |
| 625  | Bright Chrome Brass US26               |
| 626  | Satin Chrome Brass US26D               |
| 643e | Aged Bronze Brass B-643E               |
| 695  | Dark Bronze Painted Brass B-695/US10BE |

| 7        | Finish                                 |
|----------|--|
| BHMA     | Description Substrate Finish           |
| 629      | Bright Stainless Stainless steel US32  |
| 630      | Satin Stainless Stainless steel US32D  |
| 631      | Matte Black Steel F-BLK                |
| 632      | Bright Brass Steel US3                 |
| 633      | Satin Brass Steel US4                  |
| 639      | Satin Bronze Steel US10                |
| 640      | Oil Rubbed Bronze Steel US10B          |
| 641      | Oxidized Bronze Steel US10A            |
| 643e/716 | Aged Bronze Steel F-643E/716           |
| 646      | Satin Nickel Steel US15                |
| 651      | Bright Chrome Steel US26               |
| 652      | Satin Chrome Steel US26D               |
| 695      | Dark Bronze Painted Steel F-695/US10BE |

| 8      | Options 2  |
|--------|--|
| MON*   | Monitor  |
| NRP    | Non-removable pin  |
| RC-1/4 | Rounded corners 1/4"   |
| RC-5/8 | Rounded corners 5/8"   |
| SEC    | Security screws (hollow metal - hex head pin in socket) (metal only) |
| TW4    | Through-wire - four wire   |
| TW8    | Through-wire - eight wire  |
| TW12   | Through-wire - twelve wire   |
| TW4M*  | Through-wire - four wire with monitor                                |
| TW8M*  | Through-wire - eight wire with monitor                               |

\* TW and MON options are not available on 4 x 4 or smaller.

## Hinges and pivots

### Architectural hinges

# 3PB1

### 3 Knuckle, plain bearing full mortise hinge

- Recommended for standard weight doors
- Recommended for low frequency usage
- Not recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1/2 UFPHMS, 12 x 1 1/4 FPHWS
  - 10-24 x 1/2 UFPHMS, 10 x 1 FPHWS (3.5x3.5 hinge size only)

### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from brass, 1040 steel or 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> </ul> |

### Dimensions

| Height x width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 3.5 x 3.5      | 89 x 89   | 0.123 |
| 4 x 4          | 102 x 102 | 0.130 |
| 4.5 x 4        | 114 x 102 | 0.134 |
| 4.5 x 4.5      | 114 x 114 | 0.134 |
| 5 x 4.5        | 127 x 114 | 0.146 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|                       |   |
|-----------------------|---|
| <b>NRP</b>            | Non-removable pin   |
| <b>HT</b>             | Hospital tip  |
| <b>SH</b>             | Security stud - comes standard with NRP                                     |
| <b>RC-1/4, RC-5/8</b> | Rounded corners   |
| <b>SEC</b>            | Security fasteners - pin-in-socket (for hollow metal doors and frames only) |

### Finishes

| BHMA     | Description         | Substrate       | Finish       |
|----------|---------------------|-----------------|--------------|
| 600      | Primer Paint        | Steel           | USP          |
| 605      | Bright Brass        | Brass           | US3          |
| 606      | Satin Brass         | Brass           | US4          |
| 612      | Satin Bronze        | Brass           | US10         |
| 613      | Oil Rubbed Bronze   | Brass           | US10B        |
| 614      | Oxidized Bronze     | Brass           | US10A        |
| 619      | Satin Nickel        | Brass           | US15         |
| 622      | Matte Black         | Brass           | B-BLK        |
| 625      | Bright Chrome       | Brass           | US26         |
| 626      | Satin Chrome        | Brass           | US26D        |
| 643e/716 | Aged Bronze         | Brass           | B-643e/716   |
| 695      | Dark Bronze Painted | Brass           | B-695/US10BE |
| 629      | Bright Stainless    | Stainless steel | US32         |
| 630      | Satin Stainless     | Stainless steel | US32D        |
| 631      | Matte Black         | Steel           | F-BLK        |
| 632      | Bright Brass        | Steel           | US3          |
| 633      | Satin Brass         | Steel           | US4          |
| 639      | Satin Bronze        | Steel           | US10         |
| 640      | Oil Rubbed Bronze   | Steel           | US10B        |
| 641      | Oxidized Bronze     | Steel           | US10A        |
| 646      | Satin Nickel        | Steel           | US15         |
| 651      | Bright Chrome       | Steel           | US26         |
| 652      | Satin Chrome        | Steel           | US26D        |
| 643e/716 | Aged Bronze         | Steel           | F-643e/716   |
| 695      | Dark Bronze Painted | Steel           | F-695/US10BE |

For other colors, consult factory.



# 3CBI

## 3 Knuckle, concealed bearing full mortise hinge

- Recommended for medium weight doors (<150 lbs)
- Recommended for medium frequency usage (<400 cycles per day)
- Made with two concealed nylon bearings
- Recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1/2 UFPHMS, 12 x 1 1/4 FPHWS
  - 10-24 x 1/2 UFPHMS, 10 x 1 FPHWS (3.5x3.5 hinge size only)



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from brass, 1040 steel or 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> <li>▪ UL Classified for windstorm rated assemblies - R37965</li> <li>▪ UL 10C Listed for steel only (3 hour)</li> </ul> |

### Dimensions

| Height x width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 3.5 x 3.5      | 89 x 89   | 0.123 |
| 4 x 4          | 102 x 102 | 0.130 |
| 4.5 x 4        | 114 x 102 | 0.134 |
| 4.5 x 4.5      | 114 x 114 | 0.134 |
| 5 x 4.5        | 127 x 114 | 0.146 |
| 5 x 5          | 127 x 127 | 0.146 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|   |  |              |                         |
|---|--|--------------|-------------------------|
| <b>NRP</b>                                  | Non-removable pin  | <b>TW4</b>   | Four wire               |
| <b>HT</b>                                   | Hospital tip   | <b>TW4M*</b> | Four wire with monitor  |
| <b>SH</b>                                   | Security stud - comes standard with NRP  | <b>TW8</b>   | Eight wire              |
| <b>RC<sup>-1/4</sup>, RC<sup>-5/8</sup></b> | Rounded corners  | <b>TW8M*</b> | Eight wire with monitor |
| <b>SEC</b>                                  | Security fasteners - pin-in-socket<br>(for hollow metal doors and frames only) | <b>TW12</b>  | Twelve wire             |
|   |  | <b>MON*</b>  | Monitor                 |

\*TW and MON options are not available on 4 x 4 or smaller.

### Finishes

| BHMA     | Description         | Substrate       | Finish       |
|----------|---------------------|-----------------|--------------|
| 600      | Primer Paint        | Steel           | USP          |
| 605      | Bright Brass        | Brass           | US3          |
| 606      | Satin Brass         | Brass           | US4          |
| 612      | Satin Bronze        | Brass           | US10         |
| 613      | Oil Rubbed Bronze   | Brass           | US10B        |
| 614      | Oxidized Bronze     | Brass           | US10A        |
| 619      | Satin Nickel        | Brass           | US15         |
| 622      | Matte Black         | Brass           | B-BLK        |
| 625      | Bright Chrome       | Brass           | US26         |
| 626      | Satin Chrome        | Brass           | US26D        |
| 643e/716 | Aged Bronze         | Brass           | B-643e/716   |
| 629      | Bright Stainless    | Stainless steel | US32         |
| 630      | Satin Stainless     | Stainless steel | US32D        |
| 631      | Matte Black         | Steel           | F-BLK        |
| 632      | Bright Brass        | Steel           | US3          |
| 633      | Satin Brass         | Steel           | US4          |
| 639      | Satin Bronze        | Steel           | US10         |
| 640      | Oil Rubbed Bronze   | Steel           | US10B        |
| 641      | Oxidized Bronze     | Steel           | US10A        |
| 646      | Satin Nickel        | Steel           | US15         |
| 651      | Bright Chrome       | Steel           | US26         |
| 652      | Satin Chrome        | Steel           | US26D        |
| 643e/716 | Aged Bronze         | Steel           | F-643e/716   |
| 695      | Dark Bronze Painted | Steel           | F-695/US10BE |

For other colors, consult factory.

## Hinges and pivots

### Architectural hinges

# 3CB1HW

### 3 Knuckle, concealed bearing, heavy weight full mortise hinge

- Recommended for heavier weight doors (>150 lbs)
- Recommended for high frequency usage (400 cycles per day)
- Made with two heavy duty concealed nylon bearings
- Recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1/2 UFPHMS, 12 x 1 1/4 FPHWS

### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from brass, 1040 steel or 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified to ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> <li>▪ UL Classified for windstorm rated assemblies - R37965</li> <li>▪ UL10C Listed for steel only (3 hour)</li> </ul> |

### Dimensions

| Height x width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 4.5 x 4        | 114 x 102 | 0.180 |
| 4.5 x 4.5      | 114 x 114 | 0.180 |
| 5 x 4.5        | 127 x 114 | 0.190 |
| 5 x 5          | 127 x 127 | 0.190 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|   |  |             |                         |
|---|--|-------------|-------------------------|
| <b>NRP</b>                                  | Non-removable pin  | <b>TW4</b>  | Four wire               |
| <b>HT</b>                                   | Hospital tip   | <b>TW4M</b> | Four wire with monitor  |
| <b>SH</b>                                   | Security stud - comes standard with NRP  | <b>TW8</b>  | Eight wire              |
| <b>RC<sup>-1/4</sup>, RC<sup>-5/8</sup></b> | Rounded corners  | <b>TW8M</b> | Eight wire with monitor |
| <b>SEC</b>                                  | Security fasteners - pin-in-socket<br>(for hollow metal doors and frames only) | <b>TW12</b> | Twelve wire             |
|   |  | <b>MON</b>  | Monitor                 |

### Finishes

| BHMA     | Description         | Substrate       | Finish       |
|----------|---------------------|-----------------|--------------|
| 600      | Primer Paint        | Steel           | USP          |
| 605      | Bright Brass        | Brass           | US3          |
| 606      | Satin Brass         | Brass           | US4          |
| 612      | Satin Bronze        | Brass           | US10         |
| 613      | Oil Rubbed Bronze   | Brass           | US10B        |
| 614      | Oxidized Bronze     | Brass           | US10A        |
| 619      | Satin Nickel        | Brass           | US15         |
| 622      | Matte Black         | Brass           | B-BLK        |
| 625      | Bright Chrome       | Brass           | US26         |
| 626      | Satin Chrome        | Brass           | US26D        |
| 643e/716 | Aged Bronze         | Brass           | B-643e/716   |
| 629      | Bright Stainless    | Stainless steel | US32         |
| 630      | Satin Stainless     | Stainless steel | US32D        |
| 631      | Matte Black         | Steel           | F-BLK        |
| 632      | Bright Brass        | Steel           | US3          |
| 633      | Satin Brass         | Steel           | US4          |
| 639      | Satin Bronze        | Steel           | US10         |
| 640      | Oil Rubbed Bronze   | Steel           | US10B        |
| 641      | Oxidized Bronze     | Steel           | US10A        |
| 646      | Satin Nickel        | Steel           | US15         |
| 651      | Bright Chrome       | Steel           | US26         |
| 652      | Satin Chrome        | Steel           | US26D        |
| 643e/716 | Aged Bronze         | Steel           | F-643e/716   |
| 695      | Dark Bronze Painted | Steel           | F-695/US10BE |

For other colors, consult factory.



# 3CBIWT

## 3 Knuckle, concealed bearing, wide throw full mortise hinge

- Recommended for medium weight doors (<150 lbs)
- Recommended for medium frequency usage (<400 cycles per day)
- Made with two concealed nylon bearings
- Recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1½ UFPHMS, 12 x 1¼ FPHWS



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | 1040 steel  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> </ul> |

### Dimensions

| Height x Width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 4.5 x 5        | 114 x 127 | 0.134 |
| 4.5 x 6        | 114 x 152 | 0.134 |
| 5 x 6          | 127 x 152 | 0.146 |
| 5 x 7          | 127 x 178 | 0.146 |
| 5 x 8          | 127 x 203 | 0.146 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|                       |  |             |                         |
|-----------------------|--|-------------|-------------------------|
| <b>NRP</b>            | Non-removable pin  | <b>TW4</b>  | Four wire               |
| <b>HT</b>             | Hospital tip   | <b>TW4M</b> | Four wire with monitor  |
| <b>SH</b>             | Security stud - comes standard with NRP  | <b>TW8</b>  | Eight wire              |
| <b>RC-1/4, RC-5/8</b> | Rounded corners  | <b>TW8M</b> | Eight wire with monitor |
| <b>SEC</b>            | Security fasteners - pin-in-socket<br>(for hollow metal doors and frames only) | <b>TW12</b> | Twelve wire             |
|                       |  | <b>MON</b>  | Monitor                 |

### Finishes

| BHMA     | Description         | Substrate | Finish       |
|----------|---------------------|-----------|--------------|
| 600      | Primer Paint        | Steel     | USP          |
| 631      | Matte Black         | Steel     | F-BLK        |
| 632      | Bright Brass        | Steel     | US3          |
| 633      | Satin Brass         | Steel     | US4          |
| 639      | Satin Bronze        | Steel     | US10         |
| 640      | Oil Rubbed Bronze   | Steel     | US10B        |
| 641      | Oxidized Bronze     | Steel     | US10A        |
| 646      | Satin Nickel        | Steel     | US15         |
| 651      | Bright Chrome       | Steel     | US26         |
| 652      | Satin Chrome        | Steel     | US26D        |
| 643e/716 | Aged Bronze         | Steel     | F-643e/716   |
| 695      | Dark Bronze Painted | Steel     | F-695/US10BE |

For other colors, consult factory.

## Hinges and pivots

### Architectural hinges

# 3SP1

### 3 Knuckle, spring full mortise hinge

- For use with doors where self-closing is required
- Maximum door weight 120 lbs, max door width 36"
- Maximum labeled door size - 3'0" wide x 7'0" x 1<sup>3</sup>/<sub>4</sub>" thick as set in NFPA #80
- Packed with fasteners for hollow metal and half metal/half wood applications
  - 12-24 x 1<sup>1</sup>/<sub>2</sub> UFPHMS, 12 x 1<sup>1</sup>/<sub>4</sub> FPHWS
  - Pin for setting spring tension
  - Adjusting wrench

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | 1040 steel or 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> <li>▪ UL Listed for use with fire rated doors</li> </ul> |

### Dimensions

| Height x Width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 4 x 4          | 102 x 102 | 0.130 |
| 4.5 x 4        | 114 x 102 | 0.134 |
| 4.5 x 4.5      | 114 x 114 | 0.134 |

Refer to General Hinge Information page to determine proper hinge for application.

### Options

|   |   |
|---|---|
| <b>RC-<sup>1</sup>/<sub>4</sub>, RC-<sup>5</sup>/<sub>8</sub></b> | Rounded corners   |
| <b>SEC</b>  | Security fasteners - pin-in-socket (for hollow metal doors and frames only) |

### Finishes

| BHMA     | Description         | Substrate       | Finish       |
|----------|---------------------|-----------------|--------------|
| 600      | Primer Paint        | Steel           | USP          |
| 629      | Bright Stainless    | Stainless steel | US32         |
| 630      | Satin Stainless     | Stainless steel | US32D        |
| 631      | Matte Black         | Steel           | F-BLK        |
| 632      | Bright Brass        | Steel           | US3          |
| 633      | Satin Brass         | Steel           | US4          |
| 639      | Satin Bronze        | Steel           | US10         |
| 640      | Oil Rubbed Bronze   | Steel           | US10B        |
| 641      | Oxidized Bronze     | Steel           | US10A        |
| 646      | Satin Nickel        | Steel           | US15         |
| 651      | Bright Chrome       | Steel           | US26         |
| 652      | Satin Chrome        | Steel           | US26D        |
| 643e/716 | Aged Bronze         | Steel           | F-643e/716   |
| 695      | Dark Bronze Painted | Steel           | F-695/US10BE |

For other colors, consult factory.

### Hinge selection guide

| Door size and weight  | Number of spring hinges | Number of anti-friction template butt hinges | Spring hinge location |
|---|-------------------------|--|-----------------------|
| Door up to 70 lbs (32 kg) and not exceeding 1 <sup>3</sup> / <sub>4</sub> " (44 mm) thickness, 36" (914 mm) width and 90" (2286 mm) height  | 1                       | 2  | Center                |
| Door up to 90 lbs (41 kg) and not exceeding 1 <sup>3</sup> / <sub>4</sub> " (44 mm) thickness, 36" (914 mm) width and 90" (2286 mm) height  | 2                       | 1  | Center and bottom     |
| Door up to 120 lbs (54 kg) and not exceeding 1 <sup>3</sup> / <sub>4</sub> " (44 mm) thickness, 36" (914 mm) width and 96" (2438 mm) height | 3                       | 0  | All                   |



# 5PB1

## 5 Knuckle, plain bearing full mortise hinge

- Recommended for standard weight doors
- Recommended for low frequency usage
- Not recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1/2 UFPHMS, 12 x 1 1/4 FPHWS
  - 10-24 x 1/2 UFPHMS, 10 x 1 FPHWS (3.5x3.5 hinge size only)



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from brass, 1040 steel or 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> </ul> |

### Dimensions

| Height x Width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 3.5 x 3.5      | 89 x 89   | 0.123 |
| 4 x 4          | 102 x 102 | 0.130 |
| 4.5 x 4        | 114 x 102 | 0.134 |
| 4.5 x 4.5      | 114 x 114 | 0.134 |
| 5 x 4.5        | 127 x 114 | 0.146 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|   |  |
|---|--|
| <b>NRP</b>                                  | Non-removable pin  |
| <b>HT</b>                                   | Hospital tip   |
| <b>SH</b>                                   | Security stud - comes standard with NRP  |
| <b>RC<sup>-1/4</sup>, RC<sup>-5/8</sup></b> | Rounded corners  |
| <b>SEC</b>                                  | Security fasteners - pin-in-socket<br>(for hollow metal doors and frames only) |

### Finishes

| BHMA     | Description         | Substrate       | Finish       |
|----------|---------------------|-----------------|--------------|
| 600      | Primer Paint        | Steel           | USP          |
| 605      | Bright Brass        | Brass           | US3          |
| 606      | Satin Brass         | Brass           | US4          |
| 612      | Satin Bronze        | Brass           | US10         |
| 613      | Oil Rubbed Bronze   | Brass           | US10B        |
| 614      | Oxidized Bronze     | Brass           | US10A        |
| 619      | Satin Nickel        | Brass           | US15         |
| 622      | Matte Black         | Brass           | B-BLK        |
| 625      | Bright Chrome       | Brass           | US26         |
| 626      | Satin Chrome        | Brass           | US26D        |
| 643e/716 | Aged Bronze         | Brass           | B-643e/716   |
| 629      | Bright Stainless    | Stainless steel | US32         |
| 630      | Satin Stainless     | Stainless steel | US32D        |
| 631      | Matte Black         | Steel           | F-BLK        |
| 632      | Bright Brass        | Steel           | US3          |
| 633      | Satin Brass         | Steel           | US4          |
| 639      | Satin Bronze        | Steel           | US10         |
| 640      | Oil Rubbed Bronze   | Steel           | US10B        |
| 641      | Oxidized Bronze     | Steel           | US10A        |
| 646      | Satin Nickel        | Steel           | US15         |
| 651      | Bright Chrome       | Steel           | US26         |
| 652      | Satin Chrome        | Steel           | US26D        |
| 643e/716 | Aged Bronze         | Steel           | F-643e/716   |
| 695      | Dark Bronze Painted | Steel           | F-695/US10BE |

For other colors, consult factory.

## Hinges and pivots

### Architectural hinges

# 5BB1

## 5 Knuckle, ball bearing full mortise hinge

- Recommended for medium weight doors (<150 lbs)
- Recommended for medium frequency usage (<400 cycles per day)
- Made with two ball bearing assemblies
- Recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1/2 UFPHMS, 12 x 1 1/4 FPHWS
  - 10-24 x 1/2 UFPHMS, 10 x 1 FPHWS (3.5x3.5 hinge size only)

### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from brass, 1040 steel or 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified to ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> <li>▪ UL Classified for windstorm rated assemblies - R37965</li> <li>▪ UL10C Listed for steel only (3 hour)</li> </ul> |

### Dimensions

| Height x Width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 3.5 x 3.5      | 89 x 89   | 0.123 |
| 4 x 4          | 102 x 102 | 0.130 |
| 4.5 x 4        | 114 x 102 | 0.134 |
| 4.5 x 4.5      | 114 x 114 | 0.134 |
| 5 x 4.5        | 127 x 114 | 0.146 |
| 5 x 5          | 127 x 127 | 0.146 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|                       |  |              |                         |
|-----------------------|--|--------------|-------------------------|
| <b>NRP</b>            | Non-removable pin  | <b>TW4</b>   | Four wire               |
| <b>HT</b>             | Hospital tip   | <b>TW4M*</b> | Four wire with monitor  |
| <b>SH</b>             | Security stud - comes standard with NRP  | <b>TW8</b>   | Eight wire              |
| <b>RC-1/4, RC-5/8</b> | Rounded corners  | <b>TW8M*</b> | Eight wire with monitor |
| <b>SEC</b>            | Security fasteners - pin-in-socket<br>(for hollow metal doors and frames only) | <b>TW12</b>  | Twelve wire             |
|                       |  | <b>MON*</b>  | Monitor                 |

\*TW and MON options are not available on 4 x 4 or smaller.

### Finishes

| BHMA     | Description         | Substrate       | Finish       |
|----------|---------------------|-----------------|--------------|
| 600      | Primer Paint        | Steel           | USP          |
| 605      | Bright Brass        | Brass           | US3          |
| 606      | Satin Brass         | Brass           | US4          |
| 612      | Satin Bronze        | Brass           | US10         |
| 613      | Oil Rubbed Bronze   | Brass           | US10B        |
| 614      | Oxidized Bronze     | Brass           | US10A        |
| 619      | Satin Nickel        | Brass           | US15         |
| 622      | Matte Black         | Brass           | B-BLK        |
| 625      | Bright Chrome       | Brass           | US26         |
| 626      | Satin Chrome        | Brass           | US26D        |
| 643e/716 | Aged Bronze         | Brass           | B-643e/716   |
| 695      | Dark Bronze Painted | Brass           | B-695/US10BE |
| 629      | Bright Stainless    | Stainless steel | US32         |
| 630      | Satin Stainless     | Stainless steel | US32D        |
| 631      | Matte Black         | Steel           | F-BLK        |
| 632      | Bright Brass        | Steel           | US3          |
| 633      | Satin Brass         | Steel           | US4          |
| 639      | Satin Bronze        | Steel           | US10         |
| 640      | Oil Rubbed Bronze   | Steel           | US10B        |
| 641      | Oxidized Bronze     | Steel           | US10A        |
| 646      | Satin Nickel        | Steel           | US15         |
| 651      | Bright Chrome       | Steel           | US26         |
| 652      | Satin Chrome        | Steel           | US26D        |
| 643e/716 | Aged Bronze         | Steel           | F-643e/716   |
| 695      | Dark Bronze Painted | Steel           | F-695/US10BE |

For other colors, consult factory.



# 5BB1HW

## 5 Knuckle, ball bearing, heavy weight full mortise hinge

- Recommended for heavier weight doors (>150 lbs)
- Recommended for high frequency usage (400 cycles per day)
- Made with four ball bearing assemblies
- Recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1/2 UFPHMS, 12 x 1/4 FPHWS



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from brass, 1040 steel or 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> <li>▪ UL Classified for windstorm rated assemblies - R37965</li> <li>▪ UL 10C Listed for steel only (3 hour)</li> </ul> |

### Dimensions

| Height x Width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 4.5 x 4        | 114 x 102 | 0.180 |
| 4.5 x 4.5      | 114 x 114 | 0.180 |
| 5 x 4.5        | 127 x 114 | 0.190 |
| 5 x 5          | 127 x 127 | 0.190 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|                       |  |             |                         |
|-----------------------|--|-------------|-------------------------|
| <b>NRP</b>            | Non-removable pin  | <b>TW4</b>  | Four wire               |
| <b>HT</b>             | Hospital tip   | <b>TW4M</b> | Four wire with monitor  |
| <b>SH</b>             | Security stud - comes standard with NRP  | <b>TW8</b>  | Eight wire              |
| <b>RC-1/4, RC-5/8</b> | Rounded corners  | <b>TW8M</b> | Eight wire with monitor |
| <b>SEC</b>            | Security fasteners - pin-in-socket<br>(for hollow metal doors and frames only) | <b>TW12</b> | Twelve wire             |
|                       |  | <b>MON</b>  | Monitor                 |

### Finishes

| BHMA     | Description         | Substrate       | Finish       |
|----------|---------------------|-----------------|--------------|
| 600      | Primer Paint        | Steel           | USP          |
| 605      | Bright Brass        | Brass           | US3          |
| 606      | Satin Brass         | Brass           | US4          |
| 612      | Satin Bronze        | Brass           | US10         |
| 613      | Oil Rubbed Bronze   | Brass           | US10B        |
| 614      | Oxidized Bronze     | Brass           | US10A        |
| 619      | Satin Nickel        | Brass           | US15         |
| 622      | Matte Black         | Brass           | B-BLK        |
| 625      | Bright Chrome       | Brass           | US26         |
| 626      | Satin Chrome        | Brass           | US26D        |
| 643e/716 | Aged Bronze         | Brass           | B-643e/716   |
| 629      | Bright Stainless    | Stainless steel | US32         |
| 630      | Satin Stainless     | Stainless steel | US32D        |
| 631      | Matte Black         | Steel           | F-BLK        |
| 632      | Bright Brass        | Steel           | US3          |
| 633      | Satin Brass         | Steel           | US4          |
| 639      | Satin Bronze        | Steel           | US10         |
| 640      | Oil Rubbed Bronze   | Steel           | US10B        |
| 641      | Oxidized Bronze     | Steel           | US10A        |
| 646      | Satin Nickel        | Steel           | US15         |
| 651      | Bright Chrome       | Steel           | US26         |
| 652      | Satin Chrome        | Steel           | US26D        |
| 643e/716 | Aged Bronze         | Steel           | F-643e/716   |
| 695      | Dark Bronze Painted | Steel           | F-695/US10BE |

For other colors, consult factory.

## Hinges and pivots

### Architectural hinges

# 5BBIWT

### 5 Knuckle, ball bearing, wide throw full mortise hinge

- Recommended for medium weight doors (<150 lbs)
- Recommended for medium frequency usage (<400 cycles per day)
- Made with two ball bearing assemblies
- Recommended for use with a door closer
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1/2 UFPHMS, 12 x 1 1/4 FPHWS



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | 1040 steel  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> </ul> |

### Dimensions

| Height x Width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 4.5 x 5        | 114 x 127 | 0.134 |
| 4.5 x 6        | 114 x 152 | 0.134 |
| 5 x 6          | 127 x 152 | 0.146 |
| 5 x 7          | 127 x 178 | 0.146 |
| 5 x 8          | 127 x 203 | 0.146 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|                       |  |             |                         |
|-----------------------|--|-------------|-------------------------|
| <b>NRP</b>            | Non-removable pin  | <b>TW4</b>  | Four wire               |
| <b>HT</b>             | Hospital tip   | <b>TW4M</b> | Four wire with monitor  |
| <b>SH</b>             | Security stud - comes standard with NRP  | <b>TW8</b>  | Eight wire              |
| <b>RC-1/4, RC-5/8</b> | Rounded corners  | <b>TW8M</b> | Eight wire with monitor |
| <b>SEC</b>            | Security fasteners - pin-in-socket<br>(for hollow metal doors and frames only) | <b>MON</b>  | Monitor                 |

All electrified wide throws are an engineered special.

### Finishes

| BHMA     | Description         | Substrate | Finish       |
|----------|---------------------|-----------|--------------|
| 600      | Primer Paint        | Steel     | USP          |
| 631      | Matte Black         | Steel     | F-BLK        |
| 632      | Bright Brass        | Steel     | US3          |
| 633      | Satin Brass         | Steel     | US4          |
| 639      | Satin Bronze        | Steel     | US10         |
| 640      | Oil Rubbed Bronze   | Steel     | US10B        |
| 641      | Oxidized Bronze     | Steel     | US10A        |
| 646      | Satin Nickel        | Steel     | US15         |
| 651      | Bright Chrome       | Steel     | US26         |
| 652      | Satin Chrome        | Steel     | US26D        |
| 643e/716 | Aged Bronze         | Steel     | F-643e/716   |
| 695      | Dark Bronze Painted | Steel     | F-695/US10BE |

For other colors, consult factory.

# 5BB1SC / 5BB1BSC

## 5 Knuckle, ball bearing, swing clear, full mortise hinges (square and beveled)

- Designed to completely clear the opening when door is opened 92°
- Recommended for use in ADA door opening applications
- 5BB1SC made for square edge doors
- 5BB1BSC made for beveled edge doors
- Recommended for medium weight doors (<150 lbs)
- Recommended for medium frequency usage (<400 cycles per day)
- Made with two ball bearing assemblies
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1½ UFPHMS, 12 x 1¼ FPHWS



Meets ANSI/BHMA A156.1  
A8122 – Steel  
A5122 – Stainless Steel

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 1040 steel or 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified to ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> </ul> |

### Dimensions

| Height x Width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 4.5            | 114       | 0.134 |
| 5              | 127       | 0.146 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|            |  |             |             |
|------------|--|-------------|-------------|
| <b>NRP</b> | Non-removable pin  | <b>TW4</b>  | Four wire   |
| <b>HT</b>  | Hospital tip   | <b>TW8</b>  | Eight wire  |
| <b>SEC</b> | Security fasteners - pin-in-socket<br>(for hollow metal doors and frames only) | <b>TW12</b> | Twelve wire |
|            |  | <b>MON</b>  | Monitor     |

### Finishes

| BHMA     | Description         | Substrate       | Finish       |
|----------|---------------------|-----------------|--------------|
| 600      | Primer Paint        | Steel           | USP          |
| 629      | Bright Stainless    | Stainless steel | US32         |
| 630      | Satin Stainless     | Stainless steel | US32D        |
| 631      | Matte Black         | Steel           | F-BLK        |
| 632      | Bright Brass        | Steel           | US3          |
| 633      | Satin Brass         | Steel           | US4          |
| 639      | Satin Bronze        | Steel           | US10         |
| 640      | Oil Rubbed Bronze   | Steel           | US10B        |
| 641      | Oxidized Bronze     | Steel           | US10A        |
| 646      | Satin Nickel        | Steel           | US15         |
| 651      | Bright Chrome       | Steel           | US26         |
| 652      | Satin Chrome        | Steel           | US26D        |
| 643e/716 | Aged Bronze         | Steel           | F-643e/716   |
| 695      | Dark Bronze Painted | Steel           | F-695/US10BE |

For other colors, consult factory.

## Hinges and pivots

### Architectural hinges

# 5BB1HWSC / 5BB1HWBSC

### 5 Knuckle, ball bearing, heavy weight, swing clear, full mortise hinges (square and beveled)

- Designed to completely clear the opening when door is opened 92°
- Recommended for use in ADA door opening applications
- 5BB1SCHW made for square edge doors
- 5BB1BSCHW made for beveled edge doors
- Recommended for heavier weight doors (>150 lbs)
- Recommended for high frequency usage (400 cycles per day)
- Made with four ball bearing assemblies
- Packed with fasteners for hollow metal and wood doors
  - 12-24 x 1/2 UFPHMS, 12 x 1/4 FPHWS



### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 1040 steel or 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Certified to ANSI/BHMA A156.1 for performance standards</li> <li>▪ Meets ANSI/BHMA 156.7 for template hinge dimensions</li> </ul> |

### Dimensions

| Height x Width | Size (mm) | Gauge |
|----------------|-----------|-------|
| 4.5            | 114       | 0.180 |
| 5              | 127       | 0.190 |

Refer to General Hinge Information page to determine proper hinge for application

### Options

|            |  |             |             |
|------------|--|-------------|-------------|
| <b>NRP</b> | Non-removable pin  | <b>TW4</b>  | Four wire   |
| <b>HT</b>  | Hospital tip   | <b>TW8</b>  | Eight wire  |
| <b>SEC</b> | Security fasteners - pin-in-socket<br>(for hollow metal doors and frames only) | <b>TW12</b> | Twelve wire |
|            |  | <b>MON</b>  | Monitor     |

### Finishes

| BHMA     | Description         | Substrate       | Finish       |
|----------|---------------------|-----------------|--------------|
| 600      | Primer Paint        | Steel           | USP          |
| 629      | Bright Stainless    | Stainless steel | US32         |
| 630      | Satin Stainless     | Stainless steel | US32D        |
| 631      | Matte Black         | Steel           | F-BLK        |
| 632      | Bright Brass        | Steel           | US3          |
| 633      | Satin Brass         | Steel           | US4          |
| 639      | Satin Bronze        | Steel           | US10         |
| 640      | Oil Rubbed Bronze   | Steel           | US10B        |
| 641      | Oxidized Bronze     | Steel           | US10A        |
| 646      | Satin Nickel        | Steel           | US15         |
| 651      | Bright Chrome       | Steel           | US26         |
| 652      | Satin Chrome        | Steel           | US26D        |
| 643e/716 | Aged Bronze         | Steel           | F-643e/716   |
| 695      | Dark Bronze Painted | Steel           | F-695/US10BE |

For other colors, consult factory.

# 1000 Series

## Residential hinges

- 3.5 x 3.5 or 4 x 4 plain bearing hinges
- Recommended for doors weighing less than 70 lbs and not exceeding 3'0" x 7'0"
- Recommended for low frequency, residential applications
- Features removable pin and cap
- Now compatible with Ives hinge pin door stops, models 69, 70, 72, 73
- Not recommended for use with a door closer
- For metal door applications see 3PB1 and 5PB1 models
- Available with rounded ( $\frac{1}{4}$ " or  $\frac{5}{8}$ " ) or square corners
- Packed with fasteners for wood doors
  - #9 x 1 FPHWS

### Specifications

|                    |            |
|--------------------|------------|
| Material substrate | 1040 steel |
|--------------------|------------|

### Dimensions

| Model  | Height x Width (in) | Corner                 |
|--------|---------------------|------------------------|
| 1010RP | 3.5 x 3.5           | Square                 |
| 1011RP | 3.5 x 3.5           | $\frac{5}{8}$ " Radius |
| 1012RP | 3.5 x 3.5           | $\frac{1}{4}$ " Radius |
| 1020RP | 4 x 4               | Square                 |
| 1021RP | 4 x 4               | $\frac{5}{8}$ " Radius |

### Finishes

| BHMA     | Description   | Substrate | Finish |
|----------|---------------|-----------|--------|
| 631      | Matte Black   | Steel     | F-622E |
| 632*     | Bright Brass  | Steel     | F-605E |
| 646      | Satin Nickel  | Steel     | F-619E |
| 651      | Bright Chrome | Steel     | F-625E |
| 652      | Satin Chrome  | Steel     | F-626E |
| 643e/716 | Aged Bronze   | Steel     | F-716E |

\* Only available on 1011 model. For other colors, consult factory.



1010



1011



1012



1020



1021

**Hinges and pivots****Aluminum geared continuous hinges**

# Aluminum geared continuous hinges

Geared continuous hinges are designed to last the life of a building by distributing the weight of a door along the entire length of its frame. The geared continuous hinge has no pin. Instead, these hinges utilize a single gear section for the leaf and a separate gear section for the frame side of the door. The two are held in place by a full-length cover channel and rotate on a series of bearings. Ives HD models feature a spread bearing design for lighter weight doors. The XY models feature lateral and vertical adjustment after the hinge is secured to door and frame, a center loaded bearing design to help reduce frame issues and has electric through-wire panel option with a continuous cover.



## Hinges and pivots

### Aluminum geared continuous hinges

# General information

#### ANSI/BHMA Certified

All Ives aluminum geared hinges are certified to ANSI/BHMA 156.26, Grade 1

XY models: Grade 1 150lb and 300lb door test

HD models: Grade 1 150lb door test

#### UL Listed

All Ives Aluminum geared hinges are tested and approved UL 10C (90 minutes).

#### Material

6063-T6 Aluminum.

#### Hinge duty

All Ives Aluminum geared hinges are heavy duty (XY and HD models).

XY model -  
slot adjustability



XY model - bearings



HD model



#### XY models

- Rounded gear design for extended life and smoother operation
- Patented, center loaded, interlocking bearing design which helps handle the opening and closing of the door better over time (all sizes have 37 bearings)
- XY mounting slot adjustability on all full and half surface models to help with installation
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- Improved aesthetics with a curved, articulating cover design which eliminates pinch points

#### HD models

Features transmission gear design with bearings that are evenly spaced every 3" on center - Amount of bearings varies by size

- 83" - 32 Bearings
- 85" - 32 Bearings
- 95" - 36 Bearings
- 120" - 47 Bearings

#### Standard lengths

83", 85", 95", 119" (XY models), 120" (HD models)  
custom lengths available up to 119", consult factory.  
Handing required for 224HD.

#### Finishes

| BHMA | US    | Description              | Base material |
|------|-------|--------------------------|---------------|
| 628  | US28  | Clear Aluminum Anodized  | Aluminum      |
| 710  | 313AN | Dark Bronze Anodized     | Aluminum      |
| 711  | 315AN | Black Anodized (XY only) | Aluminum      |

Custom finishes available, consult factory.

#### Field modifications

Ives aluminum geared continuous hinges can be cut to length from both ends during installation.

#### XY models

The unique mounting pattern of the XY hinge allows it to be cut down to 69" while still having double row fasteners regardless of the original length of the hinge. Requires the hinge to be cut from both ends. Example: A 119" hinge can have 25" removed from each end to make it a 69" long hinge.

#### HD models

The unique mounting pattern allows to cut up to 6" from bottom while still having double row fasteners. If cut more than 13.5", other modifications may be necessary.

#### Door weight

For doors up to 200 lbs, no door reinforcement is required. For doors between 200 and 450 lbs a 16 gauge channel in the frame is required. For doors up to 600 lb, rivet nuts are required in the frame in addition to the frame reinforcement. Max door width of 4'0". For specific door weight reinforcement requirements per model, view the installation instructions and individual product pages for detail.

#### Lifetime warranty

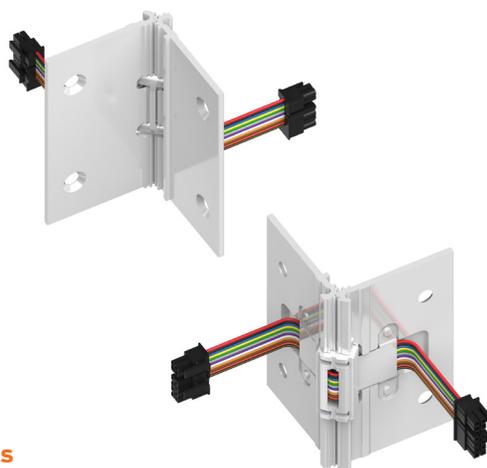
Ives continuous hinges carry a limited lifetime warranty with exception of electrified continuous hinges, which carry a 12 month warranty from time of shipment.

Learn more at [us.allegion.com/warranty](https://us.allegion.com/warranty).

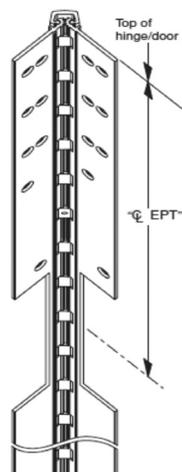
## Hinges and pivots

### Aluminum geared continuous hinges

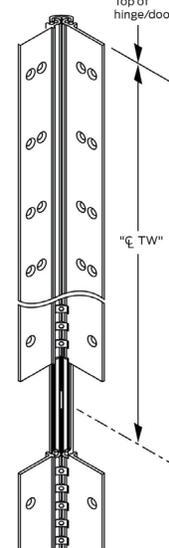
# General information



EPT 112HD



TWP XY Series



Note: See ordering guide in price book for proper placement.

### Electrification options

#### Electric power transfer (EPT) available on HD and XY models

Electric power transfer provides the most secure and best solution for transferring power from the door frame to the edge of a swinging door. Ives Continuous Hinges provide standard cut outs to fit Von Duprin EPT-2, EPT-10 and PNT-1 devices. Consult factory for other electrical cut out options. Door handing is required.

#### Electrical through-wire panel with Allegion Connect (TWP CON) (XY models only)

The redesigned XY Through-Wire Panel is heavy duty and easy-to-install. Hinge consists of single piece cover design for improved aesthetics and three sections with a standard bottom length and through-wire panel location. The panel can quickly slip in and out of the hinge for maintenance and replacement. Unlike all of the other manufacturer solutions, the XY through-wire panel maintains a one piece appearance on the cover side of the hinge. The new wire design features a Teflon™ coated wire which greatly improves performance and durability. The new panel also comes standard with the Allegion Connect 8-pin and 4-pin connectors make it easy to connect to other electrical devices. Warrantied for up to 5 years. Door handing is required.

Provides electric power transfer from the frame to the door in order to supply power to an electrified mortise or cylindrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Through-wire is rated 50 volts AC/DC at 3.5 amp continuous and 16 amp pulse. Maximum pulse 400 milliseconds. Ives XY TWP hinges are fully compatible with up to 12 wire requirements.

### Electrical cutouts

Ives aluminum continuous hinges are available with factory modified cutouts to accommodate most electrical frame to door requirements. Special templates are required.

#### When ordering indicate the following:

1. Door size.
2. Handing. LH, RH, LHR or RHR.
3. Manufacturer and model number of the electrical product being used. Example: Von Duprin ETPT2.

Because clearances may vary between door and frame manufacturer, and locations can be influenced by the door hardware it is always recommend contacting Ives Customer Technical for specific template information.

In accordance with industry standards, all cutouts are made from top edge of door to center line of cut-out. If top of door to top of cut-out is provided,  $4\frac{5}{8}$ " are added to the dimension provided to determine the centerline of the cut-out. This provides an extra  $\frac{1}{8}$ " of tolerance to ensure the EPT will fit during installation when varying installation methods are used.

#### Standard cut out locations for EPTs and TWP options

| Standard length | HD  | XY  | XY      |
|-----------------|-----|-----|---------|
|                 | EPT | EPT | TWP CON |
| 83"             | 30" | 30" | 43.5"   |
| 85"             | 32" | 32" | 45.5"   |
| 95"             | 42" | 42" | 55.5"   |
| 119" (XY)       | —   | 66" | 79.5"   |
| 120" (HD)       | 67" | —   | —       |

XY TWP CON is located 39.5 inches from bottom of the hinge. Consult factory for TWP locations on custom length hinges.

## Hinges and pivots

### Aluminum geared continuous hinges

# Mounting hardware

#### Standard hardware

|                     |   |
|---------------------|---|
| Full mortise hinges | 12-24 x 3/4" Steel self drilling / self tapping Phillips-head screw   |
| Half surface hinges | 12-24 x 3/4" Steel self drilling / self tapping Phillips-head screw   |
| Includes 210XY      | 12-24 x 3/4" Steel self drilling / self tapping hex head screw<br>1/4-20 x 3/4" Phillips-head machine screws and pan head through bolts |
| Full surface hinges | 12-24 x 3/4" Steel self drilling / self tapping hex head screw  |
| 157XY only          | 1/4-20 x 3/4" Phillips-head machine screws and pan head through bolts   |

#### Security screws - Hollow metal door and frame (SEC/HM)

|                      |   |
|----------------------|---|
| Full mortise hinges  | 12-24 X 1/2" Stainless steel socket security screw  |
| 112HD and 224HD only | Available as accessory parts kit for full mortise XY hinges (026XY, 027XY, 040XY, 041XY, 112XY, 114XY, 224XY) |

#### Security screws - 1/2 wood, 1/2 hollow metal (SEC/WD/HM)

|                      |   |
|----------------------|---|
| Full Mortise Hinges  | 12-24 X 1/2" Stainless steel socket security screw  |
| 112HD and 224HD only | 12 X 1 1/4" Stainless steel socket security wood screw  |
|                      | Available as accessory parts kit for full mortise XY hinges (026XY, 027XY, 040XY, 041XY, 112XY, 114XY, 224XY) |

#### 1/2 Self drill, self tap / 1/2 wood (TekS/WD)

|                     |  |                                      |
|---------------------|--|--------------------------------------|
| Full mortise hinges | 12-24 x 3/4" Steel self drilling/self tapping Phillips-head screw  | 12 x 1 1/4" Phillips-head wood screw |
| Half surface hinges | 12-24 x 3/4" Steel self drilling /self tapping Phillips-head screw | 1/4 x 1 1/2" Hex head lag screw      |
| Full surface hinges | 12-24 x 3/4" Steel self drilling/self tapping hex head screw       | 1/4 x 1 1/2" Hex head lag screw      |

#### Wood door and frame (WD)

|                     |                                      |
|---------------------|--------------------------------------|
| Full mortise hinges | 12 x 1 1/4" Phillips-head wood screw |
| Half surface hinges | 12 x 1 1/4" Phillips-head wood screw |
| Includes 210XY      | 1/4 x 1 1/2" Hex head lag screw      |
| Full surface hinges | 1/4 x 1 1/2" Hex head lag screw      |
| 157XY only          |                                      |

#### Thread forming (TF)

|                      |   |
|----------------------|---|
| Full mortise hinges  | 12-24 x 3/4" Steel thread forming Phillips-head screw   |
| 112HD and 224HD only | Available as accessory parts kit for full mortise XY hinges (026XY, 027XY, 040XY, 041XY, 112XY, 114XY, 224XY) |

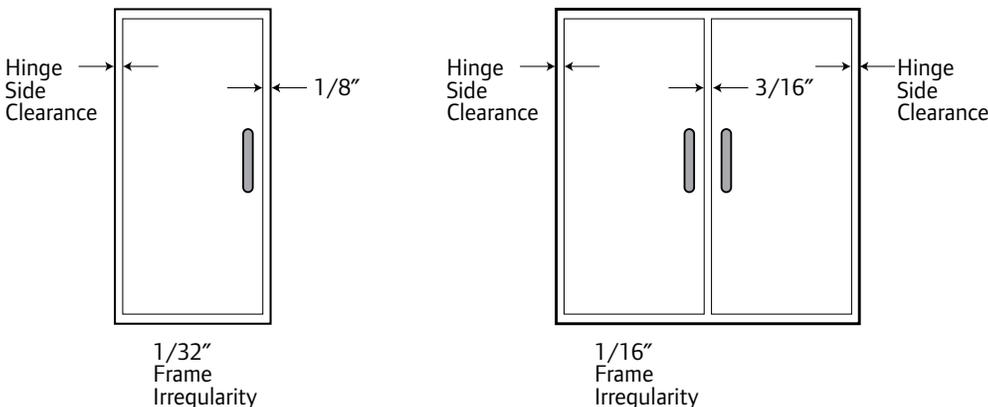
## Hinges and pivots

### Aluminum geared continuous hinges

# Clearance requirements

Consult your local authority having jurisdiction for specific fire codes relating to fire rated doors.

The table below is only recommended for non fire related doors.



## Single door

| Model | Hinge-side clearance | Lock-side clearance | Frame irregularity | Beveled door clearance | Door under-sizing |              |
|-------|----------------------|---------------------|--------------------|------------------------|-------------------|--------------|
|       |                      |                     |                    |                        | Square edged      | Beveled edge |
| 026XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"         |
| 027XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"         |
| 040XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"         |
| 041XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"         |
| 045XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 5/16"             | 11/32"       |
| 046XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 5/16"             | 11/32"       |
| 053XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 5/16"             | 11/32"       |
| 054XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 5/16"             | 11/32"       |
| 112HD | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"         |
| 112XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"         |
| 114XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"         |
| 157XY | 1/16"                | 1/8"                | 1/32"              | 1/32"                  | 7/32"             | 1/4"         |
| 210XY | 1/16"                | 1/8"                | 1/32"              | 1/32"                  | 7/32"             | 1/4"         |
| 224HD | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"         |
| 224XY | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"         |

## Pair of doors

| Model | Hinge-side clearance (2 doors) | Lock-side clearance | Frame irregularity (2 doors) | Beveled door clearance (2 doors) | Door under-sizing |                       |                    |                        |
|-------|--------------------------------|---------------------|------------------------------|----------------------------------|-------------------|-----------------------|--------------------|------------------------|
|       |                                |                     |                              |                                  | Square edge total | Square edge each door | Beveled edge total | Beveled edge each door |
| 026XY | 5/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 7/8"              | 7/16"                 | 5/16"              | 15/32"                 |
| 027XY | 5/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 7/8"              | 7/16"                 | 5/16"              | 15/32"                 |
| 040XY | 5/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 7/8"              | 7/16"                 | 5/16"              | 15/32"                 |
| 041XY | 5/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 7/8"              | 7/16"                 | 5/16"              | 15/32"                 |
| 045XY | 5/16"                          | 3/16"               | 1/16"                        | 1/16"                            | 9/16"             | 9/32"                 | 5/8"               | 5/16"                  |
| 046XY | 5/16"                          | 3/16"               | 1/16"                        | 1/16"                            | 9/16"             | 9/32"                 | 5/8"               | 5/16"                  |
| 053XY | 5/16"                          | 3/16"               | 1/16"                        | 1/16"                            | 9/16"             | 9/32"                 | 5/8"               | 5/16"                  |
| 054XY | 5/16"                          | 3/16"               | 1/16"                        | 1/16"                            | 9/16"             | 9/32"                 | 5/8"               | 5/16"                  |
| 112HD | 5/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 7/8"              | 7/16"                 | 5/16"              | 15/32"                 |
| 112XY | 5/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 7/8"              | 7/16"                 | 5/16"              | 15/32"                 |
| 114XY | 5/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 7/8"              | 7/16"                 | 5/16"              | 15/32"                 |
| 157XY | 1/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 3/8"              | 3/16"                 | 7/16"              | 7/32"                  |
| 210XY | 1/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 3/8"              | 3/16"                 | 7/16"              | 7/32"                  |
| 224HD | 5/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 7/8"              | 7/16"                 | 5/16"              | 15/32"                 |
| 224XY | 5/8"                           | 3/16"               | 1/16"                        | 1/16"                            | 7/8"              | 7/16"                 | 5/16"              | 15/32"                 |

Templates and installation instructions available on line at [www.allegion.com/us](http://www.allegion.com/us)

## Hinges and pivots

### Aluminum geared continuous hinges

# How to order

| Model | Finish | Length | Option |    |   |         |
|-------|--------|--------|--------|----|---|---------|
| 1     | 2      | 3      | 4      |    |   |         |
| 112XY | -      | 628    | -      | 83 | - | TWP CON |

## Detail

### 1 Model

|              |   |
|--------------|---|
| <b>026XY</b> | Full mortise - narrow frame leaf, wide door leaf      |
| <b>027XY</b> | Full mortise - wide door leaf                         |
| <b>040XY</b> | Full mortise - wide throw                             |
| <b>041XY</b> | Full mortise - swing clear                            |
| <b>045XY</b> | Half surface - narrow frame leaf, wide door leaf      |
| <b>046XY</b> | Half surface - wide door leaf                         |
| <b>053XY</b> | Half surface - narrow frame leaf, narrow door leaf    |
| <b>054XY</b> | Half surface - narrow door leaf                       |
| <b>112XY</b> | Full mortise - narrow frame and door leaf             |
| <b>112HD</b> | Full mortise - narrow frame and door leaf             |
| <b>114XY</b> | Full mortise - narrow frame leaf, door edge protector |
| <b>157XY</b> | Full surface - center pivot                           |
| <b>210XY</b> | Full surface - swing clear                            |
| <b>224XY</b> | Full mortise - door edge protector                    |
| <b>224HD</b> | Full mortise - door edge protector                    |

### 2 Finish

| BHMA       | Description             | Substrate | Finish |
|------------|-------------------------|-----------|--------|
| <b>628</b> | Clear Aluminum Anodized | Aluminum  | US28   |
| <b>710</b> | Dark Bronze Anodized    | Aluminum  | 313AN  |
| <b>711</b> | Black Anodized          | Aluminum  | 315AN  |

View product pages for specific finish availability per model. Consult the factory for custom finish availability.

### 3 Length

**83"**  
**85"**  
**95"**  
**119" (XY) / 120" (HD)**

Custom lengths available up to 119", consult factory. When specifying length, handing required.

### 4 Option

|                |   |
|----------------|---|
| <b>EPT</b>     | Electric power transfer prep<br>(Only available on 026XY, 027XY, 112HD, 112XY, 114XY, 224HD, 224XY)<br>Handing (LH and RH) required for 026, 027, 114, and 224 models |
| <b>SECHM</b>   | Security fasteners - pin-in-socket  |
| <b>SECWDHM</b> | Security fasteners - pin-in-socket (half wood, half hollow metal)   |
| <b>SECWDWD</b> | Security fasteners - pin-in-socket (wood door and frame)  |
| <b>TEKSWD</b>  | Half thread forming, half wood  |
| <b>TF</b>      | Thread forming screws - pilot hole required (Only available with 112HD and 224HD)   |
| <b>TFWD</b>    | Half thread forming, half wood  |
| <b>TWP CON</b> | Through-wire panel with Allegion Connect standard<br>(Only available on 026XY, 027XY, 112XY, 114XY, 224XY )   |
| <b>WD</b>      | Wood door fasteners   |

## Hinges and pivots

### Aluminum geared continuous hinges

# 026XY

#### Full mortise - narrow frame leaf, wide door leaf

- Wide door leaf for 2" and 2 1/4" doors
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- 3/32" door inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps.
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 119"   |
| Standard mounting hardware | 12-24 x 3/4" Steel self drilling/self tapping Phillips-head screw   |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li> <li>▪ UL10C listed (90 min)</li> </ul> |

#### Options

|         |   |
|---------|---|
| EPT     | Electric power transfer                             |
| TWP CON | Electrical through-wire panel with Allegion Connect |

#### Optional mounting hardware

|         |   |
|---------|---|
| SECHM   | Security screws - hollow metal door and frame |
| SECWDHM | Security screws - 1/2 wood, 1/2 hollow metal  |
| SECWDWD | Security screws - wood door and frame         |
| TEKWD   | 1/2 Self drill, self tap 1/2 wood             |
| WD      | Wood door and frame                           |

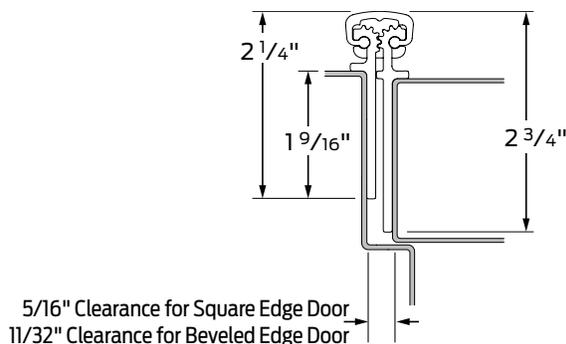
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory.

#### For single door applications:

For pairs of doors see chart and general information.



## Hinges and pivots

### Aluminum geared continuous hinges

# 027XY

#### Full mortise - wide door leaf

- Wide door leaf for 2" and 2 1/4" doors
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- Flush mounted, no inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 85", 95", 119"  |
| Standard mounting hardware | 12-24 x 3/4" Steel self drilling/self tapping Phillips-head screw  |
| Certifications             | <ul style="list-style-type: none"><li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li><li>▪ UL10C listed (90 min)</li></ul> |

#### Options

|         |   |
|---------|---|
| EPT     | Electric power transfer                             |
| TWP CON | Electrical through-wire panel with Allegion Connect |

#### Optional mounting hardware

|         |   |
|---------|---|
| SECHM   | Security screws - hollow metal door and frame |
| SECWDHM | Security screws - 1/2 wood, 1/2 hollow metal  |
| SECWDWD | Security screws - wood door and frame         |
| TEKSWD  | 1/2 Self drill, self tap 1/2 wood             |
| WD      | Wood door and frame                           |

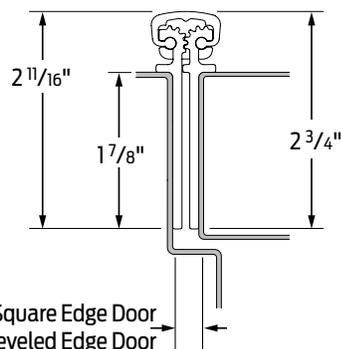
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



## Hinges and pivots

### Aluminum geared continuous hinges

# 040XY

#### Full mortise - wide throw

- Wide throw for  $1\frac{3}{4}$ " doors
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- Flush mounted, no inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 119"   |
| Standard mounting hardware | 12-24 x $\frac{3}{4}$ " Steel self drilling/self tapping Phillips-head screw  |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li> <li>▪ UL10C listed (90 min)</li> </ul> |

#### Optional mounting hardware

|                |  |
|----------------|--|
| <b>SECHM</b>   | Security screws - hollow metal door and frame                    |
| <b>SECWDHM</b> | Security screws - $\frac{1}{2}$ wood, $\frac{1}{2}$ hollow metal |
| <b>SECWDWD</b> | Security screws - wood door and frame                            |
| <b>TEKSWD</b>  | $\frac{1}{2}$ Self drill, self tap $\frac{1}{2}$ wood            |
| <b>WD</b>      | Wood door and frame  |

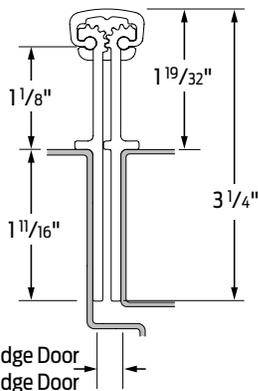
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



5/16" Clearance for Square Edge Door  
11/32" Clearance for Beveled Edge Door



## Hinges and pivots

### Aluminum geared continuous hinges

# 041XY

#### Full mortise - swing clear

- Swing clear for 1<sup>3</sup>/<sub>4</sub>" doors
- Installs easily on doors with 90° opening
- Door edge protector
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- 1/16" door inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing



#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 85", 95", 119"  |
| Standard mounting hardware | 12-24 x 3/4" Steel self drilling/self tapping Phillips-head screw  |
| Certifications             | <ul style="list-style-type: none"><li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li><li>▪ UL10C listed (90 min)</li></ul> |

#### Optional mounting hardware

|                |   |
|----------------|---|
| <b>SECHM</b>   | Security screws - hollow metal door and frame |
| <b>SECWDHM</b> | Security screws - 1/2 wood, 1/2 hollow metal  |
| <b>SECWDWD</b> | Security screws - wood door and frame         |
| <b>TEKSWD</b>  | 1/2 Self drill, self tap 1/2 wood             |
| <b>WD</b>      | Wood door and frame                           |

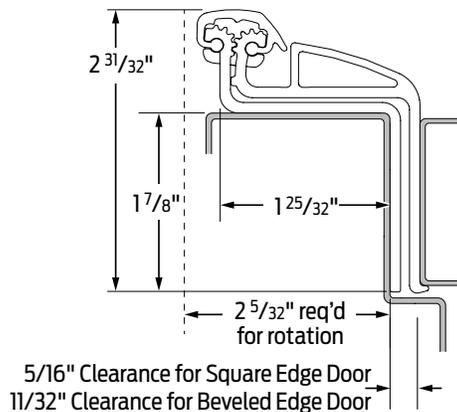
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



## Hinges and pivots

### Aluminum geared continuous hinges

# 045XY

#### Half surface - narrow frame leaf, wide door leaf

- Half surface for retrofit or new construction
- Frame leaf depth  $1\frac{9}{16}$ "
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Pinch point between cover and door is eliminated
- Non-handed for custom cut lengths
- $\frac{9}{32}$ " door inset
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 85", 95", 119"  |
| Standard mounting hardware | <ul style="list-style-type: none"> <li>▪ <math>\frac{1}{4}</math>-20 x <math>\frac{3}{4}</math>" Phillips-head machine screws and pan head through bolts</li> <li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling/self tapping hex head screw</li> <li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling/self tapping Phillips-head screw</li> </ul> |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li> <li>▪ UL10C listed (90 min)</li> </ul>  |

#### Optional mounting hardware

|                |  |
|----------------|--|
| <b>SECHM</b>   | Security screws - hollow metal door and frame                    |
| <b>SECWDHM</b> | Security screws - $\frac{1}{2}$ wood, $\frac{1}{2}$ hollow metal |
| <b>SECWDWD</b> | Security screws - wood door and frame                            |
| <b>TEKSWD</b>  | $\frac{1}{2}$ Self drill, self tap $\frac{1}{2}$ wood            |
| <b>WD</b>      | Wood door and frame  |

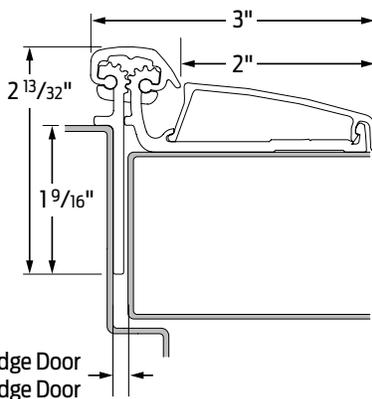
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



## Hinges and pivots

### Aluminum geared continuous hinges

# 046XY

#### Half surface - wide door leaf

- Half surface for retrofit or new construction
- Frame leaf depth  $1\frac{7}{8}$ "
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Pinch point between cover and door is eliminated
- Non-handed for custom cut lengths
- $\frac{9}{32}$ " door inset
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing



#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 85", 95", 119"  |
| Standard mounting hardware | <ul style="list-style-type: none"><li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling / self tapping hex head screw</li><li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling / self tapping Phillips-head screw</li><li>▪ <math>\frac{1}{4}</math>-20 x <math>\frac{3}{4}</math>" Phillips-head machine screws and pan head through bolts</li></ul> |
| Certifications             | <ul style="list-style-type: none"><li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li><li>▪ UL10C listed (90 min)</li></ul>   |

#### Optional mounting hardware

|                |  |
|----------------|--|
| <b>SECHM</b>   | Security screws - hollow metal door and frame                    |
| <b>SECWDHM</b> | Security screws - $\frac{1}{2}$ wood, $\frac{1}{2}$ hollow metal |
| <b>SECWDWD</b> | Security screws - wood door and frame                            |
| <b>TEKSWD</b>  | $\frac{1}{2}$ Self drill, self tap $\frac{1}{2}$ wood            |
| <b>WD</b>      | Wood door and frame  |

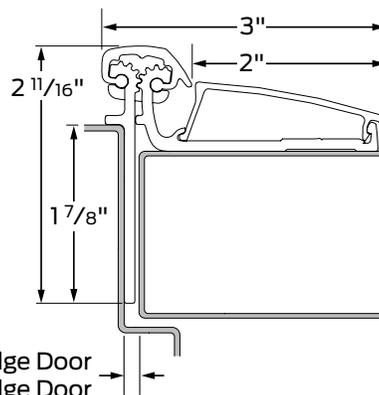
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



5/32" Clearance for Square Edge Door  
3/16" Clearance for Beveled Edge Door

## Hinges and pivots

### Aluminum geared continuous hinges

# 053XY

#### Half surface - narrow frame leaf, narrow door leaf

- Half surface for retrofit or new construction
- Frame leaf depth  $1\frac{9}{16}$ "
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Pinch point between cover and door is eliminated
- Non-handed for custom cut lengths
- $\frac{1}{8}$ " door inset
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 85", 95", 119"  |
| Standard mounting hardware | <ul style="list-style-type: none"> <li>▪ <math>\frac{1}{4}</math>-20 x <math>\frac{3}{4}</math>" Phillips-head machine screws and pan head through bolts</li> <li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling/self tapping hex head screw</li> <li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling/self tapping Phillips-head screw</li> </ul> |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li> <li>▪ UL10C listed (90 min)</li> </ul>  |

#### Optional mounting hardware

|                |  |
|----------------|--|
| <b>SECHM</b>   | Security screws - hollow metal door and frame                    |
| <b>SECWDHM</b> | Security screws - $\frac{1}{2}$ wood, $\frac{1}{2}$ hollow metal |
| <b>SECWDWD</b> | Security screws - wood door and frame                            |
| <b>TEKSWD</b>  | $\frac{1}{2}$ Self drill, self tap $\frac{1}{2}$ wood            |
| <b>WD</b>      | Wood door and frame  |

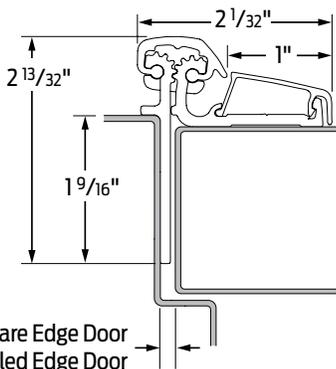
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



5/32" Clearance for Square Edge Door  
3/16" Clearance for Beveled Edge Door



## Hinges and pivots

### Aluminum geared continuous hinges

# 054XY

#### Half surface - narrow door leaf

- Half surface for retrofit or new construction
- Frame leaf depth  $1\frac{7}{8}$ "
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Pinch point between cover and door is eliminated
- Non-handed for custom cut lengths
- $\frac{1}{8}$ " door inset
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing



#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 85", 95", 119"  |
| Standard mounting hardware | <ul style="list-style-type: none"><li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling / self tapping hex head screw</li><li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling / self tapping Phillips-head screw</li><li>▪ <math>\frac{1}{4}</math>-20 x <math>\frac{3}{4}</math>" Phillips-head machine screws and pan head through bolts</li></ul> |
| Certifications             | <ul style="list-style-type: none"><li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li><li>▪ UL10C listed (90 min)</li></ul>   |

#### Optional mounting hardware

|                |  |
|----------------|--|
| <b>SECHM</b>   | Security screws - hollow metal door and frame                    |
| <b>SECWDHM</b> | Security screws - $\frac{1}{2}$ wood, $\frac{1}{2}$ hollow metal |
| <b>SECWDWD</b> | Security screws - wood door and frame                            |
| <b>TEKSWD</b>  | $\frac{1}{2}$ Self drill, self tap $\frac{1}{2}$ wood            |
| <b>WD</b>      | Wood door and frame  |

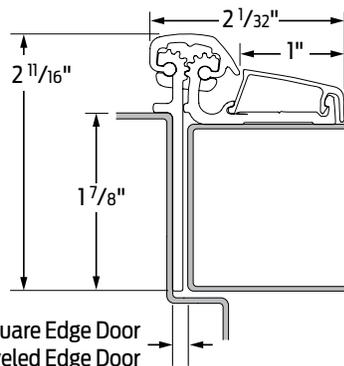
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



5/32" Clearance for Square Edge Door  
3/16" Clearance for Beveled Edge Door

## Hinges and pivots

### Aluminum geared continuous hinges

# 112HD

#### Full mortise - narrow frame and door leaf

- For 1<sup>3</sup>/<sub>4</sub>" doors
- Spread bearing design
- Non-handed for custom cut lengths
- Flush mounted, no inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 120"   |
| Standard mounting hardware | 12-24 x 3/4" Steel self drilling/self tapping Phillips-head screw   |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li> <li>▪ UL10C listed (90 min)</li> </ul> |

#### Options

|     |                         |
|-----|-------------------------|
| EPT | Electric power transfer |
|-----|-------------------------|

#### Optional mounting hardware

|         |   |
|---------|---|
| SECHM   | Security screws - hollow metal door and frame |
| SECWDHM | Security screws - 1/2 wood, 1/2 hollow metal  |
| SECWDWD | Security screws - wood door and frame         |
| TEKSWD  | 1/2 Self drill, self tap 1/2 wood             |
| TF      | Thread forming screws                         |
| WD      | Wood door and frame                           |

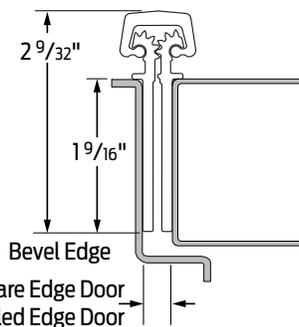
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



## Hinges and pivots

### Aluminum geared continuous hinges

# 112XY

#### Full mortise - narrow frame and door leaf

- For 1<sup>3</sup>/<sub>4</sub>" doors
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- Flush mounted, no inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

#### Specifications

|                   |  |
|-------------------|--|
| Standard length   | 83", 85", 95", 119"  |
| Standard mounting | 12-24 x 3/4" Steel self drilling/self tapping Phillips-head screw hardware   |
| Certifications    | <ul style="list-style-type: none"><li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li><li>▪ UL10C listed (90 min)</li></ul> |

#### Options

|         |   |
|---------|---|
| EPT     | Electric power transfer                             |
| TWP CON | Electrical through-wire panel with Allegion Connect |

#### Optional mounting hardware

|         |   |
|---------|---|
| SECHM   | Security screws - hollow metal door and frame |
| SECWDHM | Security screws - 1/2 wood, 1/2 hollow metal  |
| SECWDWD | Security screws - wood door and frame         |
| TEKSWD  | 1/2 Self drill, self tap 1/2 wood             |
| WD      | Wood door and frame                           |

#### Finishes

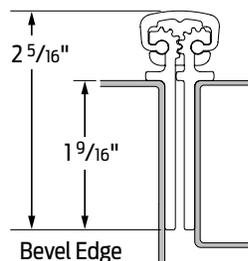
| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory



#### For single door applications:

For pairs of doors see chart and general information.



5/16" Clearance for Square Edge Door  
11/32" Clearance for Beveled Edge Door

## Hinges and pivots

### Aluminum geared continuous hinges

# 114XY

#### Full mortise - narrow frame leaf, door edge protector

- For 1<sup>3</sup>/<sub>4</sub>" doors
- Door edge protector
- Recommended for gasketing and weatherstripping applications
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- 1/16" door inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 119"   |
| Standard mounting hardware | 12-24 x 3/4" Steel self drilling/self tapping Phillips-head screw   |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li> <li>▪ UL10C listed (90 min)</li> </ul> |

#### Options

|         |   |
|---------|---|
| EPT     | Electric power transfer                             |
| TWP CON | Electrical through-wire panel with Allegion Connect |

#### Optional mounting hardware

|         |   |
|---------|---|
| SECHM   | Security screws - hollow metal door and frame |
| SECWDHM | Security screws - 1/2 wood, 1/2 hollow metal  |
| SECWDWD | Security screws - wood door and frame         |
| TEKSWD  | 1/2 Self drill, self tap 1/2 wood             |
| WD      | Wood door and frame                           |

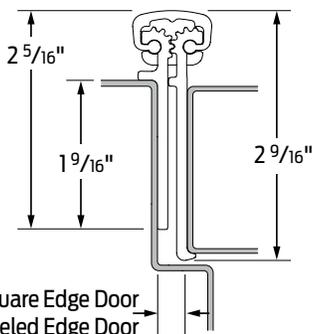
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |

Custom anodizing and painting are available, consult factory.

#### For single door applications:

For pairs of doors see chart and general information.



5/16" Clearance for Square Edge Door  
11/32" Clearance for Beveled Edge Door



## Hinges and pivots

### Aluminum geared continuous hinges

# 157XY

#### Full surface

- A patented easy-to-install, heavy duty, full surface continuous hinge
- Narrow frame
- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Articulating cover design eliminates pinch point between center channel cover and door and frame leaf covers
- Non-handed for custom cut lengths
- 1/16" door inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 550 lbs

#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 95", 119"   |
| Standard mounting hardware | <ul style="list-style-type: none"><li>▪ 12-24 x 3/4" Steel self drilling / self tapping hex head screw</li><li>▪ 1/4-20 x 3/4" Phillips-head machine screws and pan head through bolts</li></ul> |
| Certifications             | <ul style="list-style-type: none"><li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li><li>▪ UL10C listed (90 min)</li></ul>   |

#### Optional mounting hardware

|        |                                   |
|--------|-----------------------------------|
| TEKSWD | 1/2 Self drill, self tap 1/2 wood |
| WD     | Wood door and frame               |

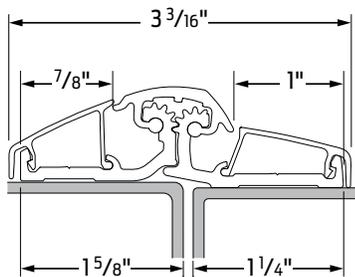
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



1/16" Clearance for Square Edge Door  
3/32" Clearance for Beveled Edge Door



## Hinges and pivots

### Aluminum geared continuous hinges

# 210XY

#### Full surface - swing clear

- Patented center loaded, interlocking bearing design
- XY (lateral and vertical) adjustability while hanging the door
- Articulating cover design eliminates pinch point between center channel cover and door and frame leaf covers
- Non-handed for custom cut lengths
- $\frac{1}{32}$ " door inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 550 pounds

#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 85", 95", 119"  |
| Standard mounting hardware | <ul style="list-style-type: none"> <li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling / self tapping hex head screw</li> <li>▪ 12-24 x <math>\frac{3}{4}</math>" Steel self drilling / self tapping Phillips-head screw</li> <li>▪ <math>\frac{1}{4}</math>-20 x <math>\frac{3}{4}</math>" Phillips-head machine screws and pan head through bolts</li> </ul> |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li> <li>▪ UL10C listed (90 min)</li> </ul>  |

#### Optional mounting hardware

|                |  |
|----------------|--|
| <b>SECHM</b>   | Security screws - hollow metal door and frame                    |
| <b>SECWDHM</b> | Security screws - $\frac{1}{2}$ wood, $\frac{1}{2}$ hollow metal |
| <b>SECWDWD</b> | Security screws - wood door and frame                            |
| <b>TEKSWD</b>  | $\frac{1}{2}$ Self drill, self tap $\frac{1}{2}$ wood            |
| <b>WD</b>      | Wood door and frame  |

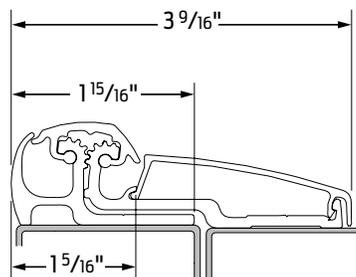
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



1/16" Clearance for Square Edge Door  
3/32" Clearance for Beveled Edge Door



## Hinges and pivots

### Aluminum geared continuous hinges

# 224HD

#### Full mortise - door edge protector

- For 1<sup>3</sup>/<sub>4</sub>" doors
- Door edge protector
- Spread bearing design
- Non-handed for custom cut lengths
- 1/16" Door Inset
- 48" Maximum door width
- Beveled or square edge doors
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing



#### Specifications

|                   |   |
|-------------------|---|
| Standard length   | 83", 85", 95", 120"   |
| Standard mounting | 12-24 x 3/4" Steel self drilling/self tapping Phillips-head screw hardware  |
| Certifications    | <ul style="list-style-type: none"><li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs</li><li>▪ UL10C listed (90 min)</li></ul> |

#### Options

|     |                         |
|-----|-------------------------|
| EPT | Electric power transfer |
|-----|-------------------------|

#### Optional mounting hardware

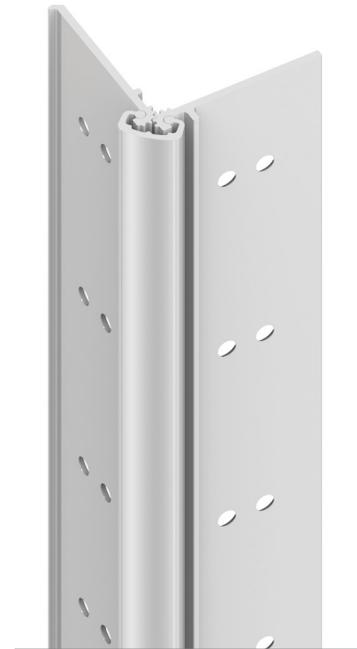
|         |   |
|---------|---|
| SECHM   | Security screws - hollow metal door and frame |
| SECWDHM | Security screws - 1/2 wood, 1/2 hollow metal  |
| SECWDWD | Security screws - wood door and frame         |
| TEKSWD  | 1/2 Self drill, self tap 1/2 wood             |
| TF      | Thread forming screws                         |
| WD      | Wood door and frame                           |

#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

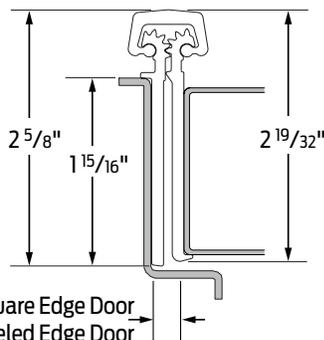
Custom anodizing and painting are available, consult factory

224HD – spread bearing design



#### For single door applications:

For pairs of doors see chart and general information.



## Hinges and pivots

### Aluminum geared continuous hinges

# 224XY

#### Full mortise - door edge protector

- For 1<sup>3</sup>/<sub>4</sub>" doors
- Door edge protector
- Patented center loaded, interlocking bearing design
- Non-handed for custom cut lengths
- 1/16" door inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing

#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 119"   |
| Standard mounting hardware | 12-24 x 3/4" Steel self drilling/self tapping Phillips-head screw   |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Exceeds Grade 1 ANSI/BHMA 156.26 for 150lbs and 300lbs</li> <li>▪ UL10C listed (90 min)</li> </ul> |

#### Options

|                |   |
|----------------|---|
| <b>EPT</b>     | Electric power transfer                             |
| <b>TWP CON</b> | Electrical through-wire panel with Allegion Connect |

#### Optional mounting hardware

|                |   |
|----------------|---|
| <b>SECHM</b>   | Security screws - hollow metal door and frame |
| <b>SECWDHM</b> | Security screws - 1/2 wood, 1/2 hollow metal  |
| <b>SECWDWD</b> | Security screws - wood door and frame         |
| <b>TEKSWD</b>  | 1/2 Self drill, self tap 1/2 wood             |
| <b>WD</b>      | Wood door and frame                           |

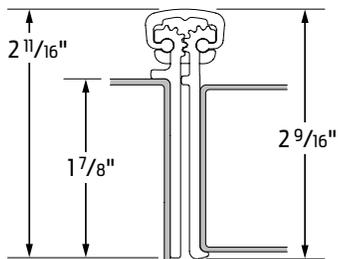
#### Finishes

| BHMA | Description             | Substrate | Finish |
|------|-------------------------|-----------|--------|
| 628  | Clear Aluminum Anodized | Aluminum  | US28   |
| 710  | Dark Bronze Anodized    | Aluminum  | 313AN  |
| 711  | Black Anodized          | Aluminum  | 315AN  |

Custom anodizing and painting are available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



5/16" Clearance for Square Edge Door  
11/32" Clearance for Beveled Edge Door



## Hinges and pivots

### Pin and barrel continuous hinges

# Pin and barrel continuous hinges

Pin and barrel continuous hinges share many of the same characteristics of a traditional hinge. Both have a center pin and rolled knuckles. However, a continuous Pin and Barrel hinge stretches along the entire length of the frame. Ives offers both stainless steel and primed steel to best match your specific application. Ives also offers the CS series pin and barrel hinges which provides a patented solution that brings the clean aesthetic design of aluminum geared continuous hinge to the ruggedness and safety afforded by stainless pin and barrel continuous hinges.



## Hinges and pivots

### Pin and barrel continuous hinges

# General information

#### Certifications

- 700 Series is certified to ANSI/BHMA 156.26, Grade 1
- CS Series models certified ANSI/BHMA 156.26, Grade 1, 150lb door test

#### UL Listed

- All Ives pin and barrel hinges are certified UL10C listed (3 hr)

#### Material

- 700, 702, 705, 711, 715 Series 304 Series, 14 Gauge stainless steel
- CS Series 304 Series, 14 Gauge stainless steel body and 6063-T6 aluminum cover

#### Barrel type

##### Standard series

The standard series pin and barrel continuous hinges features twin self lubricated nylon bearings with a stainless steel pin.

##### CS Series

The CS Series is a heavy duty, easy-to-install, stainless steel pin and barrel continuous hinge that can be used for fire applications and is highly suitable for after-market or new construction situations. The patented covers hide the unsightly pin and barrel of the standard pin and barrel hinges, giving the CS Series continuous hinge a stylish appearance to accompany heavy duty performance.

The CS Series includes medical grade, patented nylon winged bearings. They also include the XY adjustability feature which allows for better door alignment during installation.

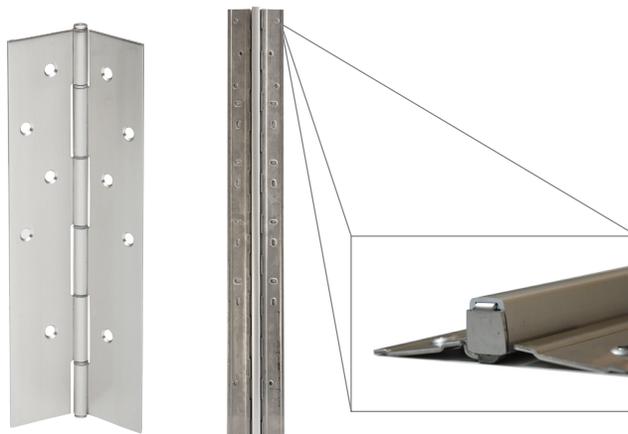
#### Standard lengths

- 83", 85", 95", 120"
  - Custom lengths available up to 120", consult factory
  - Handing required for 702, 705, 711, 715

#### Finishes

| BHMA                                  | Description              | Substrate       | Finish  |
|---------------------------------------|--------------------------|-----------------|---------|
| <b>700, 702, 705, 711, 715 Series</b> |                          |                 |         |
| 630                                   | Satin Stainless Steel    | Stainless steel | US32D   |
| <b>700CS, 705CS, 711CS Series</b>     |                          |                 |         |
| 441                                   | Satin Stainless Anodized | Aluminum        | US32DAN |
| 600                                   | Grey Primer Paint        | Aluminum        | USP     |
| 628                                   | Clear Aluminum Anodized  | Aluminum        | US28    |
| 688                                   | Satin Brass Anodized     | Aluminum        | US4AN   |
| 709                                   | Satin Bronze Anodized    | Aluminum        | US10AN  |
| 710                                   | Dark Bronze Anodized     | Aluminum        | 313AN   |
| 711                                   | Black Anodized           | Aluminum        | 315AN   |
| 712                                   | Bright Chrome Anodized   | Aluminum        | US26AN  |
| 713                                   | Satin Chrome Anodized    | Aluminum        | US26DAN |

Custom finishes available, consult factory.



#### Field modifications

Ives pin and barrel continuous hinges can be cut to length during installation.

#### Standard models

The unique mounting pattern allows to cut up to 6" from bottom while still having double row fasteners. If cut more than 13.5", other modifications may be necessary.

#### CS models

The CS Series of stainless steel hinges can be cut to size in the field. For aftermarket installations, horizontal slots in the leaves allow for lateral adjustment after the door has been secured to the frame.

#### Door weight

For doors up to 200 lbs, no door reinforcement is required. For doors between 200 and 300 lbs, a 16 gauge channel in the frame is required. For doors up to 600 lb (max door width of 4'0"), rivet nuts are required in the frame in addition to the frame reinforcement. For door weight reinforcement requirements by model, view the installation instructions and following product pages for detail.

#### Hospital tips (HT) for standard models

The standard hospital tip option includes an angle machined channel cover and bearing to provide a flush angled surface.

Must be ordered in exact lengths. Available on 700 Series hinges.

#### Lifetime warranty

Ives continuous hinges carry a limited lifetime warranty with exception of electrified continuous hinges, which carry a 12-month warranty from time of shipment.

Learn more at [us.allegion.com/warranty](https://us.allegion.com/warranty).

## Hinges and pivots

### Pin and barrel continuous hinges

# General information

#### Electrification options\*

#### Electric power transfer (EPT) available on 700, 705, 715, 700CS, 715CS models

Electric power transfer provides the most secure and best solution for transferring power from the door frame to the edge of a swinging door. Ives pin and barrel hinges provide standard cut outs to fit Von Duprin EPT- 2, EPT-10 and PNT-1 devices. Consult factory for other electrical cut out options. Door handing is required.

#### Electrical through-wire (TW8) for standard models (700, 705, 715) only

Recommended for low frequency usage. Provides electric power transfer from the frame to the door cable in order to supply power to an electrified mortise or cylindrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Through-wire is rated 50 volts AC/DC at 3.5 amp continuous and 16 amp pulse. Maximum pulse 400 milliseconds. Ives through-wire hinges are fully compatible with 4 wire and 8 wire installations. Available CON option comes with the Allegion Connect 8-pin Connector which makes it easy to connect to other electrical consumption devices. A monitor (MON) switch is available as an engineered special. Consult factory for availability.

#### Electrical through-wire panel with Allegion Connect (TWP) (700CS models only)

The through-wire panel solution works in the CS mortise hinge to maintain the clean aesthetic design of aluminum geared continuous hinges. Made with the same medical grade bearings of Ives other pin and barrel hinges, the CS Series brings through-wire panel innovation to your continuous hinge application while keeping its great looks.

The CS Series through-wire panel is a heavy duty, easy-to-install, stainless steel panel. Tested to 2.5 million cycles, the CS Series panel can quickly slip in and out of the hinge for maintenance and replacement.

Unlike all of the other manufacturer solutions the CS Series through-wire panel maintains a one piece appearance on the cover side of the hinge. It installs with the same  $\frac{5}{16}$ " clearance as aluminum geared hinges and works in all of the decorative cover finishes.

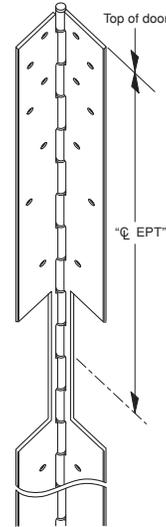
Provides electric power transfer from the frame to the door in order to supply power to an electrified mortise or cylindrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Through-wire panel is rated 50 volts AC/DC at 3.5 amp continuous and 16 amp pulse. Maximum pulse 400 milliseconds. Ives through-wire hinges are fully compatible with 4 wire and 8 wire installations. Available CON option comes with the Allegion Connect 8-pin Connector which makes it easy to connect to other electrical consumption devices.

\*Only available for full mortise hinges.

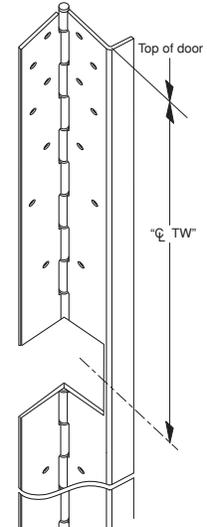
#### Electrical cutouts

Ives pin and barrel continuous hinges are available with factory modified cutouts to accommodate most electrical frame to door requirements. Special templates are required.

EPT 700/700CS



TW8 700s



Note: See ordering guide in price book for proper placement.

#### When ordering indicate the following:

1. Door size.
2. Handing. LH, RH, LHR or RHR.
3. Manufacturer and model number of the electrical product being used. Example; Von Duprin ETPT2

Because clearances may vary between door and frame manufacturer, and locations can be influenced by the door hardware it is always recommend contacting Ives Customer Technical for specific template information.

For your general information following are standard locations for Von Duprin EPT2 or EPT10, and TW (through-wire).

In accordance with industry standards, all cutouts are made from top edge of door to center line of cut-out.

| Standard length | EPT | TW                   | TWP                  |
|-----------------|-----|----------------------|----------------------|
| 83"             | 30" | 43 $\frac{19}{32}$ " | 43 $\frac{13}{16}$ " |
| 85"             | 32" | 45 $\frac{17}{32}$ " | 44 $\frac{29}{32}$ " |
| 95"             | 42" | 55 $\frac{17}{32}$ " | 55 $\frac{9}{32}$ "  |
| 120"            | 67" | 80 $\frac{17}{32}$ " | 79 $\frac{1}{2}$ "   |

**Hinges and pivots****Pin and barrel continuous hinges**

# Mounting hardware

**Standard Hardware**

|                     |  |
|---------------------|--|
| 700/702/705/711/715 | 10 x 1/2" Stainless self drilling/self tapping Phillips-head screw<br>10 x 1" Stainless Phillips-head wood screw (1/2 pkg for door or frame) |
| 705                 | 10-32 x 3/4" Stainless screw and Adjusta-stud fastener   |
| 700CS/715CS         | 12-24 x 3/4" Stainless self drilling/self tapping Phillips-head screw  |

**Security screws - hollow metal door and frame (SECHM)**

|                     |  |
|---------------------|--|
| 700/702/705/711/715 | 10 X 1/2" Stainless steel Torx security screw      |
| 700CS/715CS         | 12-24 x 1/2" Stainless security head machine screw |

**Security screws - 1/2 wood, 1/2 hollow metal (SECWDHM)**

|                     |   |
|---------------------|---|
| 700/702/705/711/715 | 10 X 1/2" Stainless steel Torx security screw<br>10 x 1" Stainless Torx security wood screw |
|---------------------|---|

**Security screws - 1/2 wood, 1/2 hollow metal (SECWDWD)**

|                     |  |
|---------------------|--|
| 700/702/705/711/715 | 10 x 1" Stainless Torx security wood screw |
|---------------------|--|

**Wood door and frame (WD)**

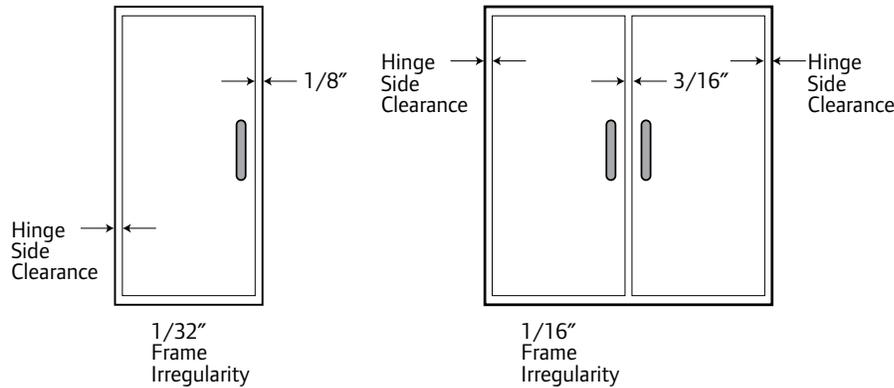
|                     |  |
|---------------------|--|
| 700/702/705/711/715 | 10 x 1" Stainless Phillips-head wood screw |
| 700CS/715CS         | #12 x 1 1/4" Stainless sheet metal screw   |

## Hinges and pivots

### Pin and barrel continuous hinges

# Clearance requirements

Consult your local authority having jurisdiction for specific fire codes relating to fire rated doors. The table below is only recommended for non fire related doors.



## Single door

| Model | Hinge-side clearance | Lock-side clearance | Frame irregularity | Beveled door clearance | Door under-sizing |               |
|-------|----------------------|---------------------|--------------------|------------------------|-------------------|---------------|
|       |                      |                     |                    |                        | Square edged      | Beveled edged |
| 700   | 1/4"                 | 1/8"                | 1/32"              | 1/32"                  | 13/32"            | 7/16"         |
| 700CS | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"          |
| 702   | 1/8"                 | 1/8"                | 1/32"              | 1/32"                  | 9/32"             | 5/16"         |
| 705   | 3/8"                 | 1/8"                | 1/32"              | 1/32"                  | 17/32"            | 9/16"         |
| 705*  | 1/2"                 | 1/8"                | 1/32"              | 1/32"                  | 21/32"            | 11/16"        |
| 711   | 7/32"                | 1/8"                | 1/32"              | 1/32"                  | 3/8"              | 13/32"        |
| 715   | 1/4"                 | 1/8"                | 1/32"              | 1/32"                  | 13/32"            | 7/16"         |
| 715CS | 5/16"                | 1/8"                | 1/32"              | 1/32"                  | 15/32"            | 1/2"          |

\* Use the Adjusta-Studs with 705.

## Pair of doors

| Model | Hinge-side clearance | Lock-side clearance | Frame irregularity | Beveled door clearance | Door under-sizing |                       |                    |                        |
|-------|----------------------|---------------------|--------------------|------------------------|-------------------|-----------------------|--------------------|------------------------|
|       |                      |                     |                    |                        | Square edge total | Square edge each door | Beveled edge total | Beveled edge each door |
| 700   | 1/4"                 | 3/16"               | 1/16"              | 1/16"                  | 3/4"              | 3/8"                  | 13/16"             | 13/32"                 |
| 700CS | 5/16"                | 3/16"               | 1/16"              | 1/16"                  | 7/8"              | 7/16"                 | 15/16"             | 15/32"                 |
| 702   | 1/8"                 | 3/16"               | 1/16"              | 1/16"                  | 1/2"              | 1/4"                  | 9/16"              | 9/32"                  |
| 705   | 3/8"                 | 3/16"               | 1/16"              | 1/16"                  | 1"                | 1/2"                  | 1 1/16"            | 17/32"                 |
| 705*  | 1/2"                 | 3/16"               | 1/16"              | 1/16"                  | 1 1/4"            | 5/8"                  | 1 5/16"            | 21/32"                 |
| 711   | 7/32"                | 3/16"               | 1/16"              | 1/16"                  | 11/16"            | 11/32"                | 3/4"               | 3/8"                   |
| 715   | 1/4"                 | 3/16"               | 1/16"              | 1/16"                  | 3/4"              | 3/8"                  | 13/16"             | 13/32"                 |
| 715CS | 5/16"                | 3/16"               | 1/16"              | 1/16"                  | 7/8"              | 7/16"                 | 15/16"             | 15/32"                 |

\* Use the Adjusta-Studs with 705.



## Hinges and pivots

### Pin and barrel continuous hinges

# 700

#### Full mortise pin and barrel continuous hinge (stainless steel)

- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- 1/8" Inset recommended for 1 3/4" doors
- 48" Maximum door width
- Non-handed for custom cut lengths
- Bevel or square edge door

#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 120"   |
| Material substrate         | ▪ 700 - 14 Gauge type 304 stainless steel                                 |
| Standard mounting hardware | ▪ #10 X 1/2" Self drilling, self tapping screws<br>▪ #10 X 1" Wood screws |
| Certifications             | ▪ Meets ANSI/BHMA 156.26<br>▪ UL10C listed (3 hour)                       |

#### Options

|            |                         |
|------------|-------------------------|
| <b>CON</b> | Allegion Connect        |
| <b>EPT</b> | Electric power transfer |
| <b>HT</b>  | Hospital tip            |
| <b>TW8</b> | Electrical through-wire |

#### Optional mounting hardware

|                |   |
|----------------|---|
| <b>SECHM</b>   | Security screws - hollow metal door and frame |
| <b>SECWDHM</b> | Security screws - 1/2 wood, 1/2 hollow metal  |
| <b>SECWDWD</b> | Security screws - wood door and frame         |
| <b>WD</b>      | Wood door and frame                           |

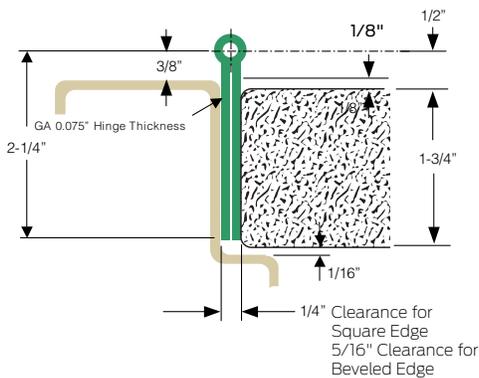
#### Finishes

| BHMA | Description           | Substrate       | Finish |
|------|-----------------------|-----------------|--------|
| 630  | Satin Stainless Steel | Stainless steel | US32D  |



#### For single door applications:

For pairs of doors see chart and general information.



## Hinges and pivots

### Pin and barrel continuous hinges

# 700CS

#### Full mortise pin and barrel continuous hinge with decorative cover

- Patented cover protects hinge knuckle and creates a cleaner and neater appearance
- XY adjustability feature allows for better door alignment during installation
- Patented, medical grade, nylon winged bearings
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- 1/16" door inset
- 48" Maximum door width
- Non-handed
- Bevel or square edge door



#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 120"   |
| Material substrate         | Gauge type 304 stainless steel  |
| Standard mounting hardware | 12-24 X 3/4" Self drilling, self tapping screws   |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA 156.26</li> <li>▪ UL10C listed (3 hour)</li> </ul> |

#### Options

|            |                         |
|------------|-------------------------|
| <b>CON</b> | Allegion Connect        |
| <b>EPT</b> | Electric power transfer |
| <b>TWB</b> | Electrical through-wire |

#### Optional mounting hardware

|              |   |
|--------------|---|
| <b>SECHM</b> | Security screws - hollow metal door and frame |
| <b>WD</b>    | Wood door and frame                           |

#### Finishes

| BHMA | Description              | Substrate      | Finish  |
|------|--------------------------|----------------|---------|
| 441  | Satin Stainless Anodized | Aluminum/steel | US32DAN |
| 600  | Grey Primer Paint        | Aluminum/steel | USP     |
| 628  | Clear Aluminum Anodized  | Aluminum/steel | US28    |
| 688  | Satin Brass Anodized     | Aluminum/steel | US4AN   |
| 709  | Satin Bronze Anodized    | Aluminum/steel | US10AN  |
| 710  | Dark Bronze Anodized     | Aluminum/steel | 313AN   |
| 711  | Black Anodized           | Aluminum/steel | 315AN   |
| 712  | Bright Chrome Anodized   | Aluminum/steel | US26AN  |
| 713  | Satin Chrome Anodized    | Aluminum/steel | US26DAN |

Custom paint available, consult factory. Standard custom paint is on cover only, specify if paint on whole hinge is needed.

#### For single door applications:

For pairs of doors see chart and general information.

## Hinges and pivots

### Pin and barrel continuous hinges

# 702

#### Full surface pin and barrel continuous hinge (stainless steel)

- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- Flush mounted, no inset
- 48" Maximum door width
- Non-handed for custom cut lengths
- Bevel or square edge door

#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 85", 95", 120"  |
| Material substrate         | ▪ 702 - 14 Gauge type 304 stainless steel  |
| Standard mounting hardware | ▪ #10 X 1/2" Self drilling, self tapping screws<br>▪ #10 X 1" Wood screws<br>▪ Cover clips |
| Certifications             | ▪ Meets ANSI/BHMA 156.26<br>▪ UL10C listed (3 hour)  |

#### Options

HT Hospital tip

#### Optional mounting hardware

|         |   |
|---------|---|
| SECHM   | Security screws - hollow metal door and frame |
| SECWDHM | Security screws - 1/2 wood, 1/2 hollow metal  |
| SECWDWD | Security screws - wood door and frame         |
| WD      | Wood door and frame                           |

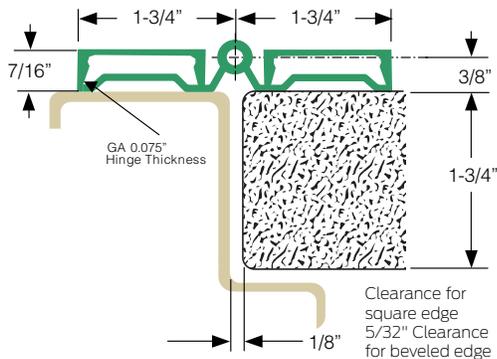
#### Finishes

| BHMA | Description           | Substrate       | Finish |
|------|-----------------------|-----------------|--------|
| 630  | Satin Stainless Steel | Stainless steel | US32D  |



#### For single door applications:

For pairs of doors see chart and general information.



## Hinges and pivots

### Pin and barrel continuous hinges

# 705

#### Full mortise, full wrap pin and barrel continuous hinge (stainless steel)

- Full wrap edge guard
- Adjustable for undersized and out of square doors
- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- Flush mounted, no inset
- 48" Maximum door width
- Non-handed, handing required for custom cut lengths
- Bevel or square edge door

#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 120"   |
| Material substrate         | 14 Gauge type 304 stainless steel   |
| Standard mounting hardware | <ul style="list-style-type: none"> <li>▪ #10-32 X 3/4" Stainless screw and Adjusta-Stud® fastener</li> <li>▪ #10 X 1/2" Self drilling, self tapping screws</li> <li>▪ #10 X 1" Wood screws</li> </ul> |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA 156.26</li> <li>▪ UL10C listed (3 hour)</li> </ul>   |

#### Options

|            |                         |
|------------|-------------------------|
| <b>CON</b> | Allegion Connect        |
| <b>EPT</b> | Electric power transfer |
| <b>HT</b>  | Hospital tip            |
| <b>TW8</b> | Electrical through-wire |

#### Optional mounting hardware

|                |   |
|----------------|---|
| <b>SECHM</b>   | Security screws - hollow metal door and frame |
| <b>SECWDHM</b> | Security screws - 1/2 wood, 1/2 hollow metal  |
| <b>SECWDWD</b> | Security screws - wood door and frame         |
| <b>WD</b>      | Wood door and frame                           |

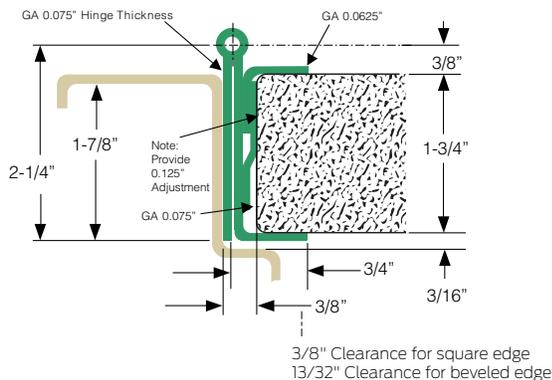
#### Finishes

| BHMA | Description           | Substrate       | Finish |
|------|-----------------------|-----------------|--------|
| 630  | Satin Stainless Steel | Stainless steel | US32D  |

Custom paint available, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



\* Adjusta-Stud allows up to 3/8" width adjustment which ensures proper alignment and easy installation. Adjusta-Stud also makes it possible for future adjustments of the door on the frame through repositioning. If using Adjusta-Stud, 14 gauge reinforcements on frame and door required.



## Hinges and pivots

### Pin and barrel continuous hinges

# 711

#### Swing clear pin and barrel continuous hinge (steel and stainless steel)

- Edge guard
- May be difficult to install on inside walls
- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- 48" Maximum door width
- Non-handed, handing required for custom cut lengths
- Square edge door

#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 120"   |
| Material substrate         | ▪ 711 - 14 Gauge type 304 stainless steel                                 |
| Standard mounting hardware | ▪ #10 X 1/2" Self drilling, self tapping screws<br>▪ #10 X 1" Wood screws |
| Certifications             | ▪ Meets ANSI/BHMA 156.26<br>▪ UL10C listed (3 hour)                       |

#### Options

|    |              |
|----|--------------|
| HT | Hospital tip |
|----|--------------|

#### Optional mounting hardware

|         |   |
|---------|---|
| SECHM   | Security screws - hollow metal door and frame |
| SECWDHM | Security screws - 1/2 wood, 1/2 hollow metal  |
| SECWDWD | Security screws - wood door and frame         |
| WD      | Wood door and frame                           |

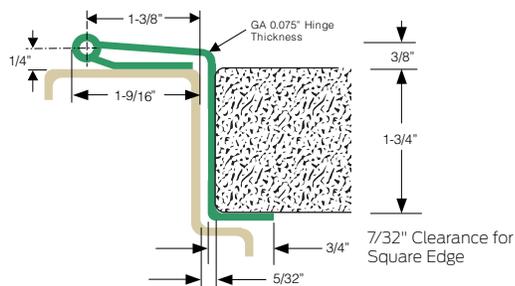
#### Finishes

| BHMA | Description           | Substrate       | Finish |
|------|-----------------------|-----------------|--------|
| 630  | Satin Stainless Steel | Stainless steel | US32D  |



#### For single door applications:

For pairs of doors see chart and general information.



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## Hinges and pivots

### Pin and barrel continuous hinges

# 715

#### Full mortise, half wrap pin and barrel continuous hinge (stainless steel)

- Half wrap edge guard
- 1/4" diameter pin with nylon self-lubricating, medical grade split bearing
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- 1/16" door inset
- 48" Maximum door width
- Non-handed, handing required for custom cut lengths
- Square edge door

#### Specifications

|                            |  |
|----------------------------|--|
| Standard length            | 83", 85", 95", 120"  |
| Material substrate         | 14 Gauge type 304 stainless steel  |
| Standard mounting hardware | <ul style="list-style-type: none"><li>▪ #10 X 1/2" Self drilling, self tapping screws</li><li>▪ #10 X 1" Wood screws</li></ul> |
| Certifications             | <ul style="list-style-type: none"><li>▪ Meets ANSI/BHMA 156.26</li><li>▪ UL10C listed (3 hour)</li></ul>                       |

#### Options

|     |                         |
|-----|-------------------------|
| CON | Allegion Connect        |
| EPT | Electric power transfer |
| HT  | Hospital tip            |
| TW8 | Electrical through-wire |

#### Optional mounting hardware

|         |   |
|---------|---|
| SECHM   | Security screws - hollow metal door and frame |
| SECWDHM | Security screws - 1/2 wood, 1/2 hollow metal  |
| SECWDWD | Security screws - wood door and frame         |
| WD      | Wood door and frame                           |

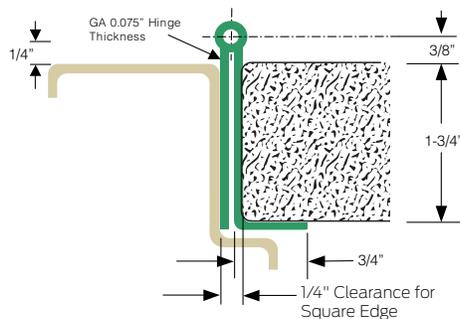
#### Finishes

| BHMA | Description           | Substrate       | Finish |
|------|-----------------------|-----------------|--------|
| 630  | Satin Stainless Steel | Stainless steel | US32D  |

Custom paint available on 600 Series, consult factory

#### For single door applications:

For pairs of doors see chart and general information.



## Hinges and pivots

### Pin and barrel continuous hinges

# 715CS

#### Full mortise, half wrap pin and barrel continuous hinge with decorative cover

- Patented cover protects hinge knuckle and creates a cleaner and neater appearance
- XY adjustability feature allows for better door alignment during installation
- Half wrap edge guard
- Patented, medical grade, nylon winged bearings
- For doors weighing up to 300 pounds without reinforcing, 600 pounds with reinforcing
- Flush mounted, no inset
- 48" Maximum door width
- Non-handed, handing required for custom cut lengths
- Square edge door



#### Specifications

|                            |   |
|----------------------------|---|
| Standard length            | 83", 85", 95", 120"   |
| Material substrate         | Gauge type 304 stainless steel  |
| Standard mounting hardware | 12-24 X 3/4" Self drilling, self tapping screws   |
| Certifications             | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA 156.26</li> <li>▪ UL10C listed (3 hour)</li> </ul> |

#### Options

|     |                         |
|-----|-------------------------|
| EPT | Electric power transfer |
|-----|-------------------------|

#### Optional mounting hardware

|       |   |
|-------|---|
| SECHM | Security screws - hollow metal door and frame |
| WD    | Wood door and frame                           |

#### Finishes

| BHMA | Description              | Substrate      | Finish  |
|------|--------------------------|----------------|---------|
| 441  | Satin Stainless Anodized | Aluminum/steel | US32DAN |
| 600  | Grey Primer Paint        | Aluminum/steel | USP     |
| 628  | Clear Aluminum Anodized  | Aluminum/steel | US28    |
| 688  | Satin Brass Anodized     | Aluminum/steel | US4AN   |
| 709  | Satin Bronze Anodized    | Aluminum/steel | US10AN  |
| 710  | Dark Bronze Anodized     | Aluminum/steel | 313AN   |
| 711  | Black Anodized           | Aluminum/steel | 315AN   |
| 712  | Bright Chrome Anodized   | Aluminum/steel | US26AN  |
| 713  | Satin Chrome Anodized    | Aluminum/steel | US26DAN |

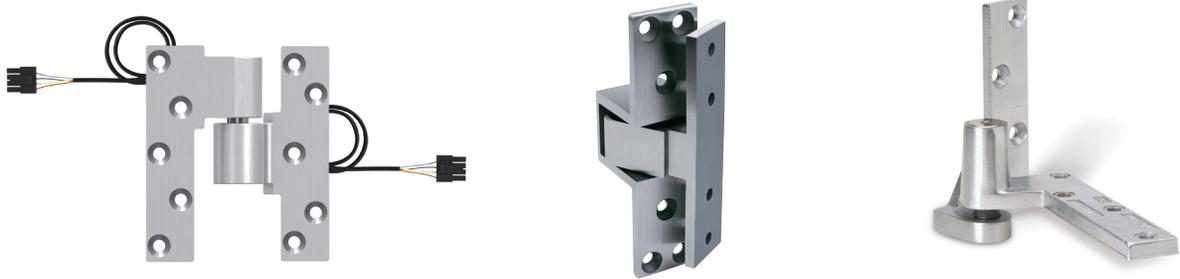
Custom paint available, consult factory. Standard custom paint is on cover only, specify if paint on whole hinge is needed.

#### For single door applications:

For pairs of doors see chart and general information.

# Pivots

Floor pivots reduce stress on the frame by distributing the door weight to the floor. Intermediate pivots keep the door in alignment with the top and bottom pivots, and some are also load bearing. By taking advantage of the structure strength, this makes a pivot the ideal solution for heavy doors. Center and pocket pivots also provide an aesthetic option for an opening. Ives offers a complete line of ¾" offset, 1 ½" offset, center hung, intermediate, pocket and power transfer pivots with all exposed parts made of brass or stainless steel for maximum corrosion resistance. The offerings include high strength brass and stainless-steel forgings, as well as castings for fire-rated and non-rated doors, combined with precision bearings for smooth operation. The positive locking vertical adjustment mechanism allows the installer to precisely position the door and balance the load.



## Hinges and pivots

### Pivots

# General information

#### UL Listed

- Ives non-rated brass Pivots are tested and approved UL 10C (20 min) as noted on model
- Ives rated stainless steel Pivots are tested and approved UL 10C (3 hrs) as noted on model

#### Material

High strength brass and 304 series stainless steel forgings, and castings for rated and non-rated doors combined with radial and needle precision bearings for smooth operation. See specific models for more information.

#### Pivot duty

Last digit in pivot set number reflects the maximum door weight in hundreds of pound, e.g., 7215 = 500 pounds. For sets designated as "heavy duty", add 1,000 pounds, e.g., 7237F HD set = 1700 pounds.

See table on the following page for selecting the proper pivot for the application.

Add additional Intermediate Pivots for each 100 pounds of door weight and/or for doors exceeding 7' in height. Intermediate pivots should be placed every 2'6" as needed.

#### Mounting hardware

Includes stainless steel machine screws and wood screws standard for all metal door and frames. Positive locking vertical adjustment mechanism allows the installer to precisely position the door and balance the load.

#### Electrification options

Electrified pivots are non-load bearing. Provides electric power transfer from the frame to the door in order to supply power to an electrified mortise or cylindrical locks, exit devices with electric latch retraction, and/or electric strikes (pairs of doors). Each wire is 28 AWG and rated 50 volts AC/DC at 3.5 amp continuous and 16 amp pulse. Maximum pulse 400 milliseconds.

#### Finishes

| BHMA             | Description         | Substrate       | Finish       |
|------------------|---------------------|-----------------|--------------|
| 600              | Primer Paint        | Stainless steel | USP          |
| 605              | Bright Brass        | Brass           | US3          |
| 606              | Satin Brass         | Brass           | US4          |
| 612              | Satin Bronze        | Brass           | US10         |
| 613              | Oil Rubbed Bronze   | Brass           | US10B        |
| 619              | Satin Nickel        | Brass           | US15         |
| 622              | Matte Black         | Brass           | BLK          |
| 625              | Bright Chrome       | Brass           | US26         |
| 626              | Satin Chrome        | Brass           | US26D        |
| 629              | Bright Stainless    | Stainless steel | US32*        |
| 630              | Satin Brass         | Stainless steel | US32D*       |
| 631              | Matte Black         | Stainless steel | BLK          |
| 632 <sup>1</sup> | Satin Brass         | Steel           | US3          |
| 639 <sup>1</sup> | Satin Bronze        | Steel           | US10         |
| 640 <sup>2</sup> | Oil Rubbed Bronze   | Steel           | US10B        |
| 646 <sup>2</sup> | Satin Nickel        | Steel           | US15         |
| 643e/716         | Aged Bronze         | Brass/stainless | 643e/716     |
| 689              | Aluminum Painted    | Brass/stainless | SP28         |
| 691              | Bronze Painted      | Brass/stainless | SP10         |
| 695              | Dark Bronze Painted | Brass/stainless | SP313/US10BE |
| 706              | Brass Painted       | Brass/stainless | SP4          |

1. Available on F fire-rated pivots and pocket pivots only.

2. Available on pocket pivots only.

For other colors, consult product support.

The Ives Power Transfer Intermediate (PT INT) pivots and Electrified Pocket Pivot (E) are available in 4 wire (TW4) or 8 wire (TW8). Supplied standard with Allegion Connect 4 or 8-pin Connector (CON) which makes it easy to connect to other electrified hardware items.

# Pivot selection chart

## 7200 series

When ordering separate pivot applications, the following descriptions will be used for the pivot

| Pivot set | Pivot type    | Bottom style mounting | UL listing | Max door weight | Handing    | Top                          | Bottom    | Intermediate          |
|-----------|---------------|-----------------------|------------|-----------------|------------|------------------------------|-----------|-----------------------|
| 7212      | 3/4" Offset   | Jamb mounted          | 20 Minute  | 200             | LH or RH   | 7212-7215-7222-7226-7227 TOP | 7212 BTM  | 7212-7212V-7222 INT   |
| 7212V     | 3/4" Offset   | Jamb mounted          | 20 Minute  | 200             | LH or RH   | 7212V TOP                    | 7212 BTM  | 7212-7212V-7222 INT   |
| 7215      | 3/4" Offset   | Jamb mounted          | 20 Minute  | 500             | LH or RH   | 7212-7215-7222-7226-7227 TOP | 7215 BTM  | 7215-7226-7227 INT    |
| 7215F     | 3/4" Offset   | Jamb mounted          | 3 Hour     | 500             | LH or RH   | 7215F-7226F-7227F TOP        | 7215F BTM | 7215F-7226F-7227F INT |
| 7222      | 3/4" Offset   | Floor mounted         | 20 Minute  | 200             | LH or RH   | 7212-7215-7222-7226-7227 TOP | 7222 BTM  | 7212-7212V-7222 INT   |
| 7226      | 3/4" Offset   | Floor mounted         | 20 Minute  | 600             | Non-handed | 7212-7215-7222-7226-7227 TOP | 7226 BTM  | 7215-7226-7227 INT    |
| 7226F     | 3/4" Offset   | Floor mounted         | 3 Hour     | 600             | Non-handed | 7215F-7226F-7227F TOP        | 7226F BTM | 7215F-7226F-7227F INT |
| 7227      | 3/4" Offset   | Mortise cement case   | 20 Minute  | 700             | Non-handed | 7212-7215-7222-7226-7227 TOP | 7227 BTM  | 7215-7226-7227 INT    |
| 7227F     | 3/4" Offset   | Mortise cement case   | 3 Hour     | 700             | Non-handed | 7215F-7226F-7227F TOP        | 7227F BTM | 7215F-7226F-7227F INT |
| 7230F     | 3/4" Offset   | Floor mounted         | 3 Hour     | 1,000           | Non-handed | 7230F-7237F TOP              | 7230F BTM | 7230F-7237F INT       |
| 7237F     | 3/4" Offset   | Mortise cement case   | 3 Hour     | 1,750           | Non-handed | 7230F-7237F TOP              | 7237F BTM | 7230F-7237F INT       |
| 7244F     | 1 1/2" Offset | Floor mounted         | 3 Hour     | 400             | Non-handed | 7244F-7245F TOP              | 7244F BTM | 7244F-7245F INT       |
| 7245F     | 1 1/2" Offset | Mortise cement case   | 3 Hour     | 500             | Non-handed | 7244F-7245F TOP              | 7245F BTM | 7244F-7245F INT       |
| 7253      | Center hung   | Floor mounted         | -          | 300             | Non-handed | 7253-7255-7255J-7256 TOP     | 7253 BTM  | -                     |
| 7255      | Center hung   | Floor mounted         | -          | 500             | Non-handed | 7253-7255-7255J-7256 TOP     | 7255 BTM  | -                     |
| 7255J     | Center hung   | Jamb mounted          | -          | 500             | Non-handed | 7253-7255-7255J-7256 TOP     | 7255J BTM | -                     |
| 7256      | Center hung   | Mortise cement case   | -          | 600             | Non-handed | 7253-7255-7255J-7256 TOP     | 7256 BTM  | -                     |
| 7259      | Center hung   | Mortise cement case   | -          | 1,000           | Non-handed | 7259 TOP                     | 7259 BTM  | -                     |

- Introduction
- Table of contents
- Hinges and pivots
- Pulls, push bars and plates
- Flush bolts, strikes and coordinators
- Latches, catches and bolts
- Door stops, holders and silencers
- Exterior hardware
- Miscellaneous hardware

## Hinges and pivots

## Pivots

## How to order

| Model | Style | Handing | Finish |
|-------|-------|---------|--------|
| 1     | 2     | 3       | 4      |
| 7212  | - SET | - LH    | - US3  |

## Detail

## 1 Model

|       |       |       |         |
|-------|-------|-------|---------|
| 7212  | 7226  | 7237F | 7255J   |
| 7212V | 7226F | 7244F | 7256    |
| 7215  | 7227  | 7245F | 7259    |
| 7215F | 7227F | 7253  | 91105F  |
| 7222  | 7230F | 7255  | E91105F |

## 2 Style

|        |  |
|--------|--|
| SET    | Top and bottom set                     |
| TOP    | Top pivot only                         |
| BTM    | Bottom pivot only                      |
| INT    | Intermediate pivot only                |
| PT INT | Power transfer intermediate pivot only |

## 3 Handing

|    |                 |
|----|-----------------|
| LH | Left hand door  |
| RH | Right hand door |

Required on 7212, 7212V, 7222, all INT, and all PT INT.

## 3 Finish

| BHMA     | Description         | Finish       | Availability        |
|----------|---------------------|--------------|---------------------|
| 600      | Primer Paint        | USP          | See specific models |
| 605      | Bright Brass        | US3          | See specific models |
| 606      | Satin Brass         | US4          | See specific models |
| 612/639  | Satin Bronze        | US10         | See specific models |
| 613      | Oil Rubbed Bronze   | US10B        | See specific models |
| 619      | Satin Nickel        | US15         | See specific models |
| 622/631  | Matte Black         | BLK          | See specific models |
| 625      | Bright Chrome       | US26         | See specific models |
| 626      | Satin Chrome        | US26D        | See specific models |
| 629      | Bright Stainless    | US32         | See specific models |
| 630      | Satin Brass         | US32D        | See specific models |
| 643e/716 | Aged Bronze         | 643e/716     | See specific models |
| 689      | Aluminum Painted    | SP28         | See specific models |
| 691      | Bronze Painted      | SP10         | See specific models |
| 695      | Dark Bronze Painted | SP313/US10BE | See specific models |
| 706      | Brass Painted       | SP4          | See specific models |

Note: Please view specific models for info on availability

## Hinges and pivots

### Offset pivots

# 7212

#### 3/4" Offset pivot, 200lb with top header mount

- Maximum door load 200 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Vertical adjustment range 3/16", with positive locking
- Handed LH or RH
- 7212 Set (7212 Top and 7212 Btm)
- 7212 Top (7212-7215-7222-7226-7227 Top), header mount
- 7212 Btm (7212 Btm), jamb mount

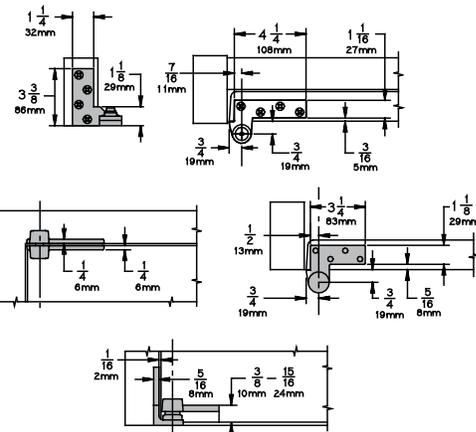
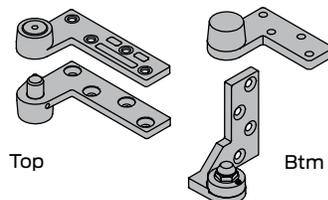
#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass  |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA A156.4 C07131</li> <li>UL 10C Listed (20 min)</li> </ul> |

#### Available accessories

**7212 INT** (7212-7212V-7222) Intermediate pivot (handed) as needed

See general information for specifics on how many intermediate pivots are recommended.



# 7212V

#### 3/4" Offset pivot, 200lb with top jamb mount

- Maximum door load 200 pounds
- Recommended for use with 1 3/4" min. door thickness, with 1/8" bevel in 2"
- Vertical adjustment range 3/16", with positive locking
- Handed LH or RH
- 7212V Set (7212V Top and 7212 Btm)
- 7212V Top (7212V), jamb mount
- 7212 Btm (7212 Btm), jamb mount

#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass  |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA A156.4 C07131</li> <li>UL 10C Listed (20 min)</li> </ul> |

#### Available accessories

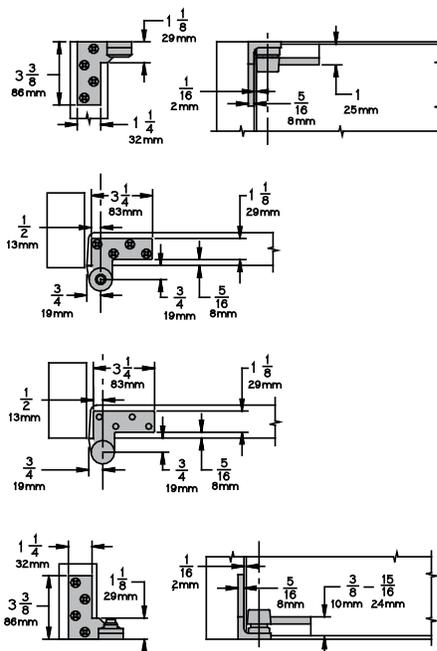
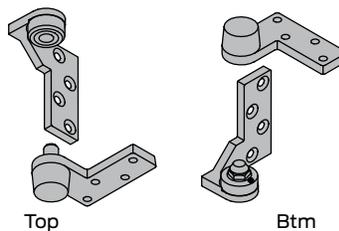
**7212 INT** (7212-7212V-7222) Intermediate pivot (handed) as needed

See general information for specifics on how many intermediate pivots are recommended.

#### 7212 and 7212V finishes

| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright Brass        | Brass     | US3          |
| 606  | Satin Brass         | Brass     | US4          |
| 612  | Satin Bronze        | Brass     | US10         |
| 613  | Oil Rubbed Bronze   | Brass     | US10B        |
| 619  | Satin Nickel        | Brass     | US15         |
| 622  | Matte Black         | Brass     | BLK          |
| 625  | Bright Chrome       | Brass     | 625          |
| 626  | Satin Chrome        | Brass     | 626          |
| -    | Aged Bronze         | Brass     | 643e/716     |
| 689  | Aluminum Painted    | Brass     | SP28         |
| 691  | Bronze Painted      | Brass     | SP10         |
| 695  | Dark Bronze Painted | Brass     | SP313/US10BE |
| 706  | Brass Painted       | Brass     | SP4          |

For other colors, consult factory.



## Hinges and pivots

### Offset pivots

# 7215/7215F

### 3/4" Offset pivot, 500lb with top header mount (fire and non-fire rated models)

- Maximum door load 500 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Vertical adjustment range 3/16", with positive locking
- Handed LH or RH
- 7215 Set (7215 Top and 7215 Btm)
- 7215 Top (7212-7215-7222-7226-7227 Top), header mount
- 7215 Btm (7215 Btm), jamb mount
- 7215F Set (7215F Top and 7215F Btm), fire rated
- 7215F Top (7215F-7226F-7227F Top), header mount, fire rated
- 7215F Btm (7215F Btm), jamb mount, fire rated
- Optional WP resistant bottom pivot is modified for improved corrosion resistance [available in US26D (626) or US32D (630) only]

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | <ul style="list-style-type: none"> <li>▪ 7215 - Made from cast brass</li> <li>▪ 7215F - Made from 304 series stainless steel</li> </ul>                              |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07131</li> <li>▪ 7215 - UL 10C Listed (20 min)</li> <li>▪ 7215F - UL 10C Listed (3 hour)</li> </ul> |

### Available accessories

|                                  |   |
|----------------------------------|---|
| <b>7215 INT</b>                  | (7215-7226-7227) Intermediate pivot (handed) as needed  |
| <b>7215F INT</b>                 | (7215F-7226F-7227F) Intermediate pivot (handed) as needed   |
| <b>7215PT INT or 7215FPT INT</b> | (7215-7226-7227 PT INT) or (7215F-7226F-7227F PT INT) power transfer intermediate pivot (handed) for electrical applications; for additional wiring applications, consult product support |

See general information for specifics on how many intermediate pivots are recommended.

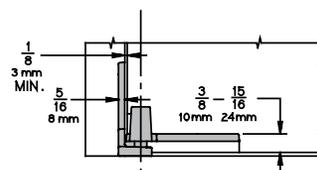
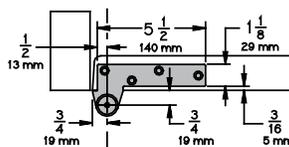
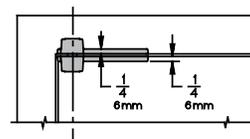
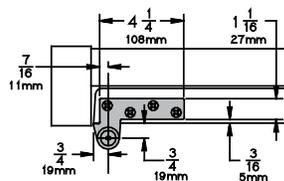
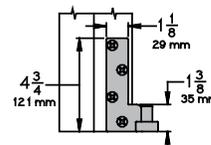
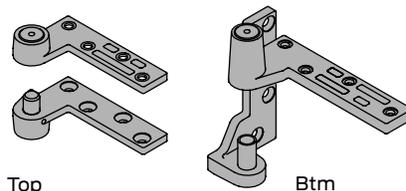
### 7215 Finishes

| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| -    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

### 7215F Finishes

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 629  | Bright stainless    | Stainless steel | US32         |
| 630  | Satin stainless     | Stainless steel | US32D        |
| 631  | Matte black         | Stainless steel | BLK          |
| 632  | Bright brass        | Stainless steel | US3          |
| 639  | Satin bronze        | Stainless steel | US10         |
| -    | Aged bronze         | Stainless steel | 643e/716     |
| 689  | Aluminum painted    | Stainless steel | SP28         |
| 691  | Bronze painted      | Stainless steel | SP10         |
| 695  | Dark bronze painted | Stainless steel | SP313/US10BE |
| 706  | Brass painted       | Stainless steel | SP4          |

For other colors, consult factory.



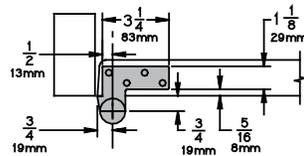
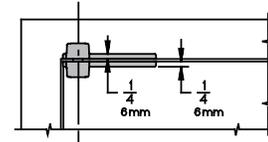
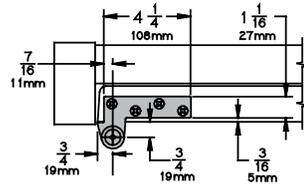
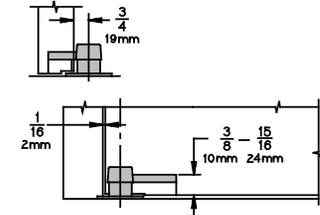
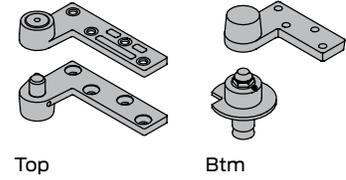
## Hinges and pivots

### Offset pivots

# 7222

### 3/4" Offset pivot, 200lb with top header mount and bottom base mount

- Maximum door load 200 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Vertical adjustment range 3/16", with positive locking
- Handed LH or RH
- 7222 Set (7222 Top and 7222 Btm)
- 7222 Top (7212-7215-7222-7226-7227 Top), header mount
- 7222 Btm (7222 Btm), base plate mount



### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass   |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA A156.4 C07162</li> <li>UL10C Listed (20 min)</li> </ul> |

### Available accessories

**7222 INT** (7212-7212V-7222) Intermediate pivot (handed) as needed

See general information for specifics on how many intermediate pivots are recommended.

### 7222 Finishes

| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| -    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

For other colors, consult factory.

Introduction  
Table of contents  
Hinges and pivots  
Pulls, push bars and plates  
Flush bolts, strikes and coordinators  
Latches, catches and bolts  
Door stops, holders and silencers  
Exterior hardware  
Miscellaneous hardware

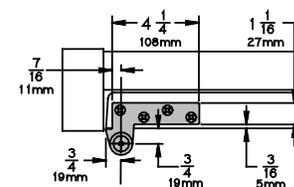
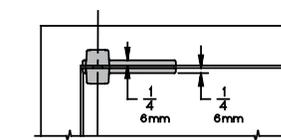
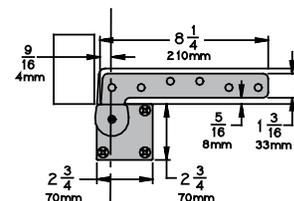
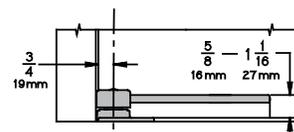
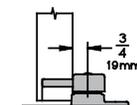
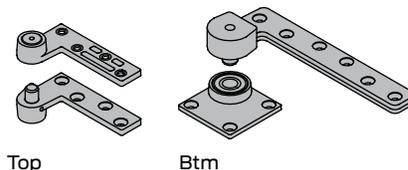
## Hinges and pivots

### Offset pivots

# 7226/7226F

## 3/4" Offset pivot, 600lb with top header mount and bottom base mount (fire and non-fire rated models)

- Maximum door load 600 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Vertical adjustment range 3/16", with positive locking
- Non-handed
- 7226 Set (7226 Top and 7226 Btm)
- 7226 Top (7212-7215-7222-7226-7227 Top), header mount
- 7226 Btm (7226 Btm), base plate mount
- 7226F Set (7226F Top and 7226F Btm), fire rated
- 7226F Top (7215F-7226F-7227F Top), header mount, fire rated
- 7226F Btm (7226F Btm), base plate mount, fire rated



### Specifications

|                    |  |
|--------------------|--|
| Material substrate | <ul style="list-style-type: none"> <li>▪ 7226 - Made from cast brass</li> <li>▪ 7226F - Made from 304 series stainless steel</li> </ul>                            |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07162</li> <li>▪ 7226 - UL10C Listed (20 min)</li> <li>▪ 7226F - UL10C Listed (3 hour)</li> </ul> |

### Available accessories

|                                  |   |
|----------------------------------|---|
| <b>7226 INT</b>                  | (7215-7226-7227) Intermediate pivot (handed) as needed  |
| <b>7226F INT</b>                 | (7215F-7226F-7227F) Intermediate pivot (handed) as needed   |
| <b>7226PT INT or 7226FPT INT</b> | (7215-7226-7227 PT INT) or (7215F-7226F-7227F PT INT) power transfer intermediate pivot (handed) for electrical applications; for additional wiring applications, consult product support |

See general information for specifics on how many intermediate pivots are recommended.

### 7226 Finishes

| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright Brass        | Brass     | US3          |
| 606  | Satin Brass         | Brass     | US4          |
| 612  | Satin Bronze        | Brass     | US10         |
| 613  | Oil Rubbed Bronze   | Brass     | US10B        |
| 619  | Satin Nickel        | Brass     | US15         |
| 622  | Matte Black         | Brass     | BLK          |
| 625  | Bright Chrome       | Brass     | 625          |
| 626  | Satin Chrome        | Brass     | 626          |
| -    | Aged Bronze         | Brass     | 643e/716     |
| 689  | Aluminum Painted    | Brass     | SP28         |
| 691  | Bronze Painted      | Brass     | SP10         |
| 695  | Dark Bronze Painted | Brass     | SP313/US10BE |
| 706  | Brass Painted       | Brass     | SP4          |

### 7226F Finishes

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 629  | Bright Stainless    | Stainless steel | US32         |
| 630  | Satin Stainless     | Stainless steel | US32D        |
| 631  | Matte Black         | Stainless steel | BLK          |
| 632  | Bright Brass        | Stainless steel | US3          |
| 639  | Satin Bronze        | Stainless steel | US10         |
| -    | Aged Bronze         | Stainless steel | 643e/716     |
| 689  | Aluminum Painted    | Stainless steel | SP28         |
| 691  | Bronze Painted      | Stainless steel | SP10         |
| 695  | Dark Bronze Painted | Stainless steel | SP313/US10BE |
| 706  | Brass Painted       | Stainless steel | SP4          |

For other colors, consult factory.



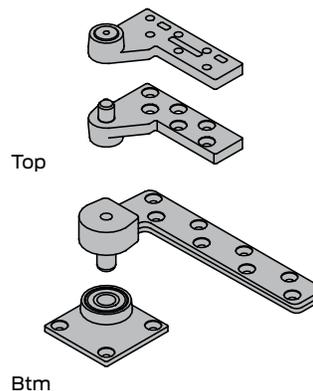
## Hinges and pivots

## Offset pivots

## 7230F

**3/4" Offset pivot, 1000lb with top header mount and bottom base mount (fire rated)**

- Maximum door load 1000 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Vertical adjustment range 3/16", with positive locking
- Non-handed
- 7230F Set (7230F Top and 7230F Btm)
- 7230F Top (7230F-7237F Top), header mount
- 7230F Btm (7230F Btm), base plate mount

**Specifications**

|                    |  |
|--------------------|--|
| Material substrate | Made from 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07162</li> <li>▪ UL10C Listed (3 hour)</li> </ul> |

**Available accessories**

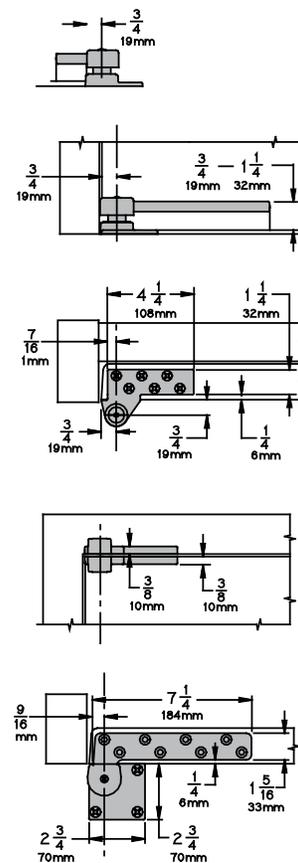
|                    |   |
|--------------------|---|
| <b>7230F INT</b>   | (7230F-7237F) Intermediate pivot (handed) as needed   |
| <b>7230FPT INT</b> | (7230F-7237F PT INT) power transfer intermediate pivot for electrical applications; for additional wiring applications, consult product support |

See general information for specifics on how many intermediate pivots are recommended.

**7230F Finishes**

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 629  | Bright stainless    | Stainless steel | US32         |
| 630  | Satin stainless     | Stainless steel | US32D        |
| 631  | Matte black         | Stainless steel | BLK          |
| 632  | Bright brass        | Stainless steel | US3          |
| 639  | Satin bronze        | Stainless steel | US10         |
| -    | Aged bronze         | Stainless steel | 643e/716     |
| 689  | Aluminum painted    | Stainless steel | SP28         |
| 691  | Bronze painted      | Stainless steel | SP10         |
| 695  | Dark bronze painted | Stainless steel | SP313/US10BE |
| 706  | Brass painted       | Stainless steel | SP4          |

For other colors, consult factory.



## Hinges and pivots

### Offset pivots

# 7237F

## 3/4" Offset pivot, 1750lb with top header mount and bottom base mount (fire rated)

- Maximum door load 1750 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Vertical adjustment range 3/16", with positive locking
- Non-handed
- 7237F Set (7237F Top and 7237F Btm)
- 7237F Top (7230F-7237F Top), header mount
- 7237F Btm (7237F Btm), mortised cement case mount

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA A156.4 C07111</li> <li>UL10C Listed (3 hour)</li> </ul> |

### Available accessories

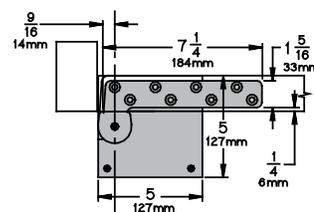
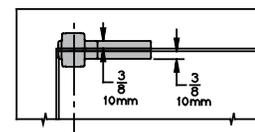
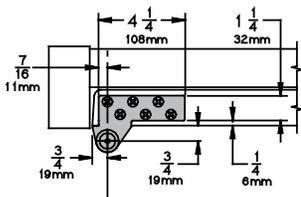
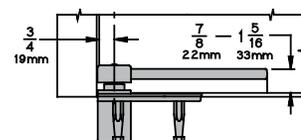
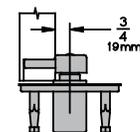
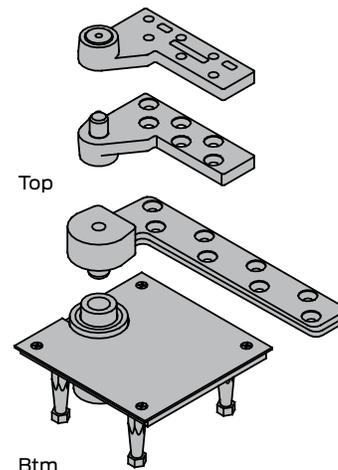
|                    |   |
|--------------------|---|
| <b>7237F INT</b>   | (7230F-7237F) Intermediate pivot (handed) as needed   |
| <b>7237FPT INT</b> | (7230F-7237F PT INT) power transfer intermediate pivot for electrical applications; for additional wiring applications, consult product support |

See general information for specifics on how many intermediate pivots are recommended.

### 7237F Finishes

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 629  | Bright stainless    | Stainless steel | US32         |
| 630  | Satin stainless     | Stainless steel | US32D        |
| 631  | Matte black         | Stainless steel | BLK          |
| 632  | Bright brass        | Stainless steel | US3          |
| 639  | Satin bronze        | Stainless steel | US10         |
| -    | Aged bronze         | Stainless steel | 643e/716     |
| 689  | Aluminum painted    | Stainless steel | SP28         |
| 691  | Bronze painted      | Stainless steel | SP10         |
| 695  | Dark bronze painted | Stainless steel | SP313/US10BE |
| 706  | Brass painted       | Stainless steel | SP4          |

For other colors, consult factory.



## Hinges and pivots

## Offset pivots

## 7244F

**1 1/2" Offset pivot, 400lb with top header mount  
and bottom base mount (fire rated)**

- Maximum door load 400 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Vertical adjustment range 3/16", with positive locking
- Non-handed
- 7244F Set (7244F Top and 7244F Btm)
- 7244F Top (7244F-7245F Top), header mount
- 7244F Btm (7244F Btm), base mount

**Specifications**

|                    |  |
|--------------------|--|
| Material substrate | Made from 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07162</li> <li>▪ UL10C Listed (3 hour)</li> </ul> |

**Available accessories**

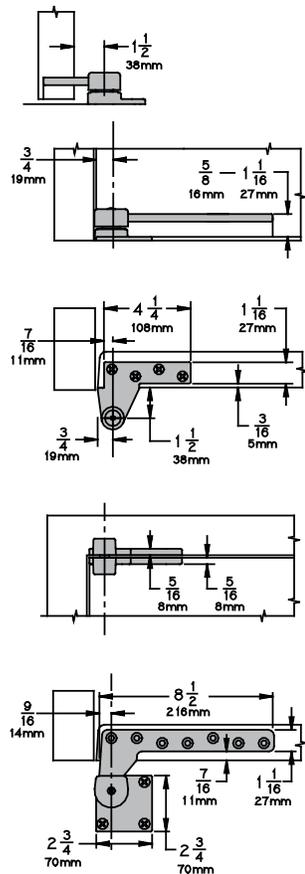
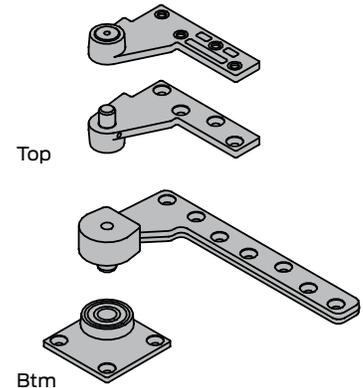
**7244F INT** (7244F-7245F) Intermediate pivot (handed) as needed; for additional electrical wiring applications, consult product support

See general information for specifics on how many intermediate pivots are recommended.

**7244F Finishes**

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 629  | Bright stainless    | Stainless steel | US32         |
| 630  | Satin stainless     | Stainless steel | US32D        |
| 631  | Matte black         | Stainless steel | BLK          |
| 632  | Bright brass        | Stainless steel | US3          |
| 639  | Satin bronze        | Stainless steel | US10         |
| -    | Aged bronze         | Stainless steel | 643e/716     |
| 689  | Aluminum painted    | Stainless steel | SP28         |
| 691  | Bronze painted      | Stainless steel | SP10         |
| 695  | Dark bronze painted | Stainless steel | SP313/US10BE |
| 706  | Brass painted       | Stainless steel | SP4          |

For other colors, consult factory.



## Hinges and pivots

### Offset pivots

# 7245F

## 1 1/2" Offset pivot, 500lb with top header mount and bottom base mount (fire rated)

- Maximum door load 500 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Vertical adjustment range 3/16", with positive locking
- Non-handed
- 7245F Set (7245F Top and 7245F Btm)
- 7245F Top (7244F-7245F Top), header mount
- 7245F Btm (7245F Btm), mortised cement case mount

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07121</li> <li>▪ UL10C Listed (3 hour)</li> </ul> |

### Available accessories

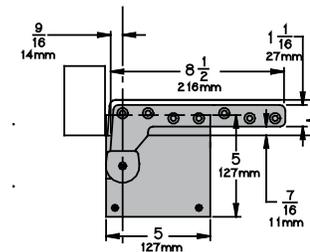
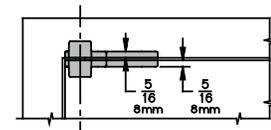
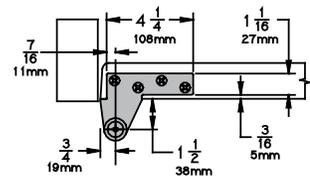
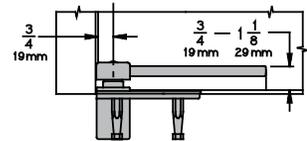
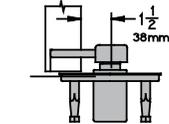
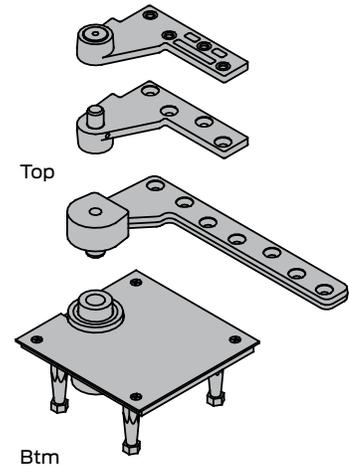
**7245F INT** (7244F-7245F) Intermediate pivot (handed) as needed; for additional electrical wiring applications, consult product support

See general information for specifics on how many intermediate pivots are recommended.

### 7245F Finishes

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 629  | Bright stainless    | Stainless steel | US32         |
| 630  | Satin stainless     | Stainless steel | US32D        |
| 631  | Matte black         | Stainless steel | BLK          |
| 632  | Bright brass        | Stainless steel | US3          |
| 639  | Satin bronze        | Stainless steel | US10         |
| -    | Aged bronze         | Stainless steel | 643e/716     |
| 689  | Aluminum painted    | Stainless steel | SP28         |
| 691  | Bronze painted      | Stainless steel | SP10         |
| 695  | Dark bronze painted | Stainless steel | SP313/US10BE |
| 706  | Brass painted       | Stainless steel | SP4          |

For other colors, consult factory.



## Hinges and pivots

### Intermediate pivots

# 7212-7212V-7222 INT

## 3/4" Offset intermediate pivot

NFPA 80, Section 3-3.8 requires intermediate pivot on some fire door applications, consult product support. Use for door heights over 7'0" and one every 2'6" as needed.

- This intermediate pivot is used with 7212, 7212V, and 7222 offset pivots
- Use for door weight over the pivot set limit.  
Use one additional pivot for every additional 100 pounds.
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Handed LH or RH

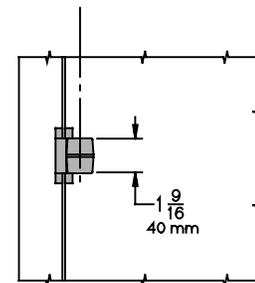
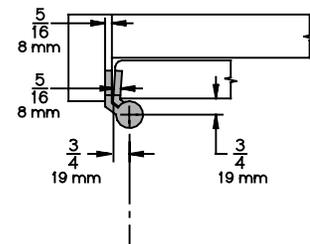
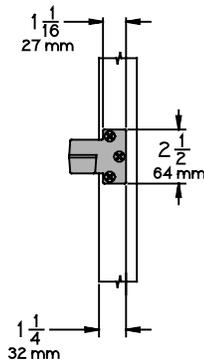
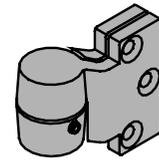
## Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07382</li> <li>▪ UL10C Listed (3 hour)</li> </ul> |

## 7212-7212V-7222 INT Finishes

| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| -    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

For other colors, consult factory.

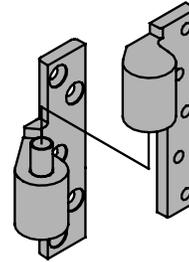


# 7215-7226-7227 INT/ 7215F-7226F-7227F INT

## 3/4" Offset intermediate pivot (fire and non-fire rated models)

NFPA 80, Section 3-3.8 requires intermediate pivot on some fire door applications, consult product support. Use for door heights over 7'0" and one every 2'6" as needed.

- 7215-7226-7227 intermediate pivot is used with 7215, 7226, and 7227 offset pivots
- 7215F-7226F-7227F intermediate pivot is used with 7215F, 7226F, and 7227F offset pivots; fire rated
- Use for door weight over the pivot set limit. Use one additional pivot for every additional 100 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Handed LH or RH



### Specifications

|                    |  |
|--------------------|--|
| Material substrate | <ul style="list-style-type: none"> <li>7215-7226-7227 - Made from cast brass</li> <li>7215F-7226F-7227F - Made from 304 series stainless steel</li> </ul>  |
| Certifications     | <ul style="list-style-type: none"> <li>7215-7226-7227 - Meets ANSI/BHMA A156.4 C07321</li> <li>7215-7226-7227 - UL10C Listed (20 min)</li> <li>7215F-7226F-7227F - Meets ANSI/BHMA A156.4 C07371</li> <li>7215F-7226F-7227F - UL10C Listed (3 hour)</li> </ul> |

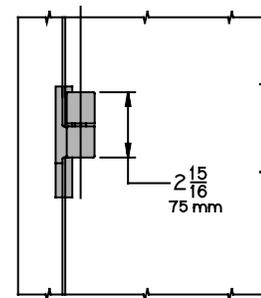
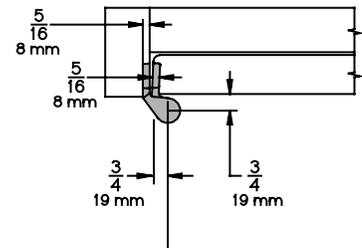
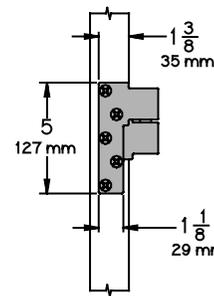
### 7215-7226-7227 INT Finishes

| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| -    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

### 7215F-7226F-7227F INT Finishes

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 629  | Bright stainless    | Stainless steel | US32         |
| 630  | Satin stainless     | Stainless steel | US32D        |
| 631  | Matte black         | Stainless steel | BLK          |
| 632  | Bright brass        | Stainless steel | US3          |
| 639  | Satin bronze        | Stainless steel | US10         |
| -    | Aged bronze         | Stainless steel | 643e/716     |
| 689  | Aluminum painted    | Stainless steel | SP28         |
| 691  | Bronze painted      | Stainless steel | SP10         |
| 695  | Dark bronze painted | Stainless steel | SP313/US10BE |
| 706  | Brass painted       | Stainless steel | SP4          |

For other colors, consult factory.



## Hinges and pivots

### Intermediate pivots

# 7230F-7237F INT

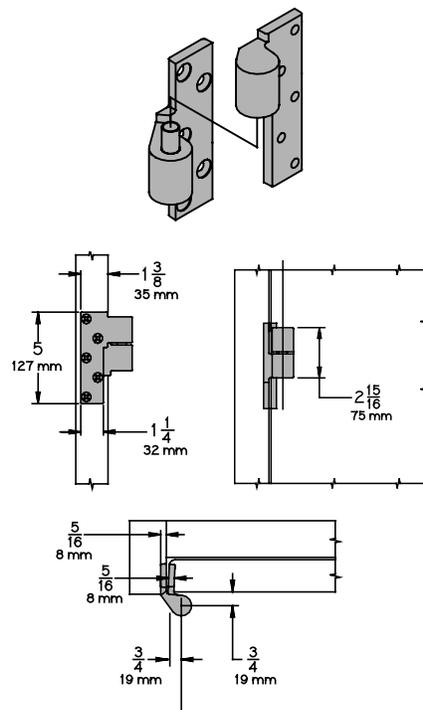
### 3/4" Offset intermediate pivot, fire rated

NFPA 80, Section 3-3.8 requires intermediate pivot on some fire door applications, consult product support. Use for door heights over 7'0" and one every 2'6" as needed.

- This intermediate pivot is used with 7230F and 7237F offset pivots
- Use for door weight over the pivot set limit.  
Use one additional pivot for every additional 100 pounds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Handed LH or RH

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07311</li> <li>▪ UL10C Listed (3 hour)</li> </ul> |



# 7244F-7245F INT

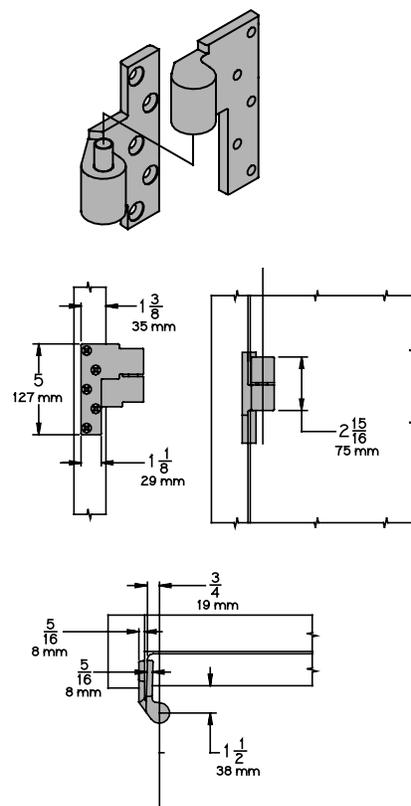
### 1 1/2" Offset intermediate pivot, fire rated

NFPA 80, Section 3-3.8 requires intermediate pivot on some fire door applications, consult product support. Use for door heights over 7'0" and one every 2'6" as needed.

- This intermediate pivot is used with 7244F and 7245F offset pivots
- Use for door weight over the pivot set limit, use one additional pivot for every additional 100 pounds.
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Handed LH or RH

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07371</li> <li>▪ UL10C Listed (3 hour)</li> </ul> |



### 7230F-7237F INT and 7244F-7245F INT Finishes

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 629  | Bright stainless    | Stainless steel | US32         |
| 630  | Satin stainless     | Stainless steel | US32D        |
| 631  | Matte black         | Stainless steel | BLK          |
| 632  | Bright brass        | Stainless steel | US3          |
| 639  | Satin bronze        | Stainless steel | US10         |
| -    | Aged bronze         | Stainless steel | 643e/716     |
| 689  | Aluminum painted    | Stainless steel | SP28         |
| 691  | Bronze painted      | Stainless steel | SP10         |
| 695  | Dark bronze painted | Stainless steel | SP313/US10BE |
| 706  | Brass painted       | Stainless steel | SP4          |

For other colors, consult factory.

# 7215PT-7226PT-7227PT INT / 7215FPT-7226FPT-7227FPT INT

## 3/4" Offset power transfer intermediate pivot (fire and non-fire rated models)

- 7215PT-7226PT-7227PT intermediate pivot is used with 7215, 7226, and 7227 offset pivots
- 7215FPT-7226FPT-7227FPT intermediate pivot is used with 7215F, 7226F, 7227F offset pivots; fire rated
- Non-load bearing
- 28 gauge wire, available in TW4 or TW8 configurations. For other wiring configurations, contact product support.
- Rated 50 VDC or VAC @ 3.5 amps. Continuous or 16 amp pul maximum pulse 400 milliseconds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Handed LH or RH



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | <ul style="list-style-type: none"> <li>▪ 7215PT-7226PT-7227PT - Offered in brass substrate</li> <li>▪ 7215FPT-7226FPT-7227FPT - Offered in stainless steel</li> </ul>   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ 7215PT-7226PT-7227PT - UL10C Listed (20 min)</li> <li>▪ 7215FPT-7226FPT-7227FPT - UL10C Listed (3 hour)</li> <li>▪ Meets UL 634 7215PT-7226PT-7227PT - UL10C Listed (20 min)</li> <li>▪ 7215FPT-7226FPT-7227FPT - UL10C Listed (3 hour)</li> <li>▪ Meets UL 634</li> </ul> |

### 7215PT-7226PT-7227PT INT Finishes

| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| -    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

For other colors, consult factory.

### 7215FPT-7226FPT-7227FPT INT Finishes

| BHMA | Description              | Substrate | Finish       |
|------|--------------------------|-----------|--------------|
| 629  | Polished stainless steel | Steel     | US32         |
| 630  | Satin stainless steel    | Steel     | US32D        |
| 631  | Matte black              | Steel     | F-BLK        |
| 632  | Bright brass             | Steel     | US3          |
| 639  | Satin bronze plated      | Steel     | US10         |
| -    | Aged bronze              | Steel     | 643e/716     |
| 689  | Aluminum painted         | Steel     | SP28         |
| 691  | Bronze painted           | Steel     | SP10         |
| 695  | Dark bronze painted      | Steel     | SP313/US10BE |
| 706  | Brass painted            | Steel     | SP4          |

For other colors, consult factory.

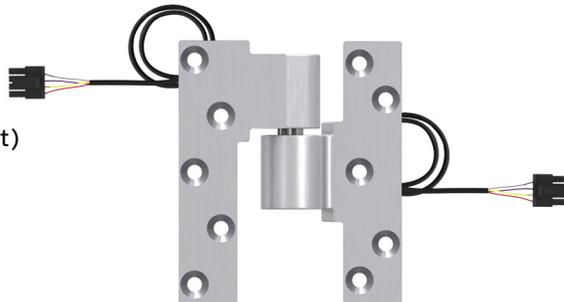
## Hinges and pivots

### Intermediate pivots

# 7230FPT-7237FPT INT

### 3/4" Offset power transfer intermediate pivot (fire rated)

- 7230FPT-7237FPT INT 3/4" fire rated intermediate pivot is used with 7230F, 7237F offset pivots
- Non-load bearing
- Available in with 28 gauge TW4 or TW8 (for additional electrical wiring applications, consult product support)
- Rated 50 VDC or VAC @ 3.5 amps; Continuous or 16 amp pulse, maximum pulse 400 milliseconds
- Recommended for use with 1 3/4" minimum door thickness, with 1/8" bevel in 2"
- Handed LH or RH



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Offered in stainless steel  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ UL10C Listed (3 hour)</li> <li>▪ Meets UL 634</li> </ul> |

### 7230FPT - 7237FPT INT Finishes

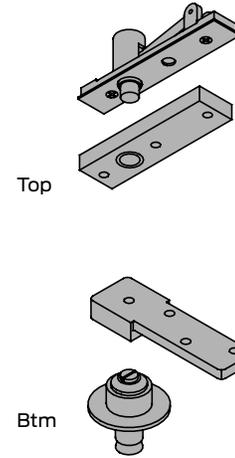
| BHMA | Description              | Substrate | Finish       |
|------|--------------------------|-----------|--------------|
| 629  | Polished stainless steel | Steel     | US32         |
| 630  | Satin stainless steel    | Steel     | US32D        |
| 631  | Matte black              | Steel     | F-BLK        |
| 632  | Bright brass             | Steel     | US3          |
| 639  | Satin bronze plated      | Steel     | US10         |
| -    | Aged bronze              | Steel     | 643e         |
| 689  | Aluminum painted         | Steel     | SP28         |
| 691  | Bronze painted           | Steel     | SP10         |
| 695  | Dark bronze painted      | Steel     | SP313/US10BE |
| 706  | Brass painted            | Steel     | SP4          |

For other colors, consult factory.

# 7253

## Center hung pivot, 300lb with bottom base mount

- Maximum door load 300 pounds
- Recommended for use with 1 3/4" minimum door thickness
- Not recommended for doors larger than 4'0" X 8'0"
- Easy installation, tilt on bearing and bearing pin
- Adjustable floor to door clearance 3/16" to 3/4", consult product support if greater than 3/4"
- Vertical adjustment range 3/16", with positive locking
- Non-handed
- 7253 Set (7253 Top and 7253 Btm)
- 7253 Top (7253-7255-7255J-7256 Top), header mount
- 7253 Btm (7253 Btm), base plate mount



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass  |
| Certifications     | Meets ANSI/BHMA A156.4 C07032   |
| Dimensions         | <ul style="list-style-type: none"> <li>Radius stop (A) to clear heel of door edge.</li> <li>Pivot distance (B) 1 3/4" (44mm) minimum from jamb to centerline of pivot pin. Radius heel edge of door, 1 5/8" (41mm) minimum recommended.</li> <li>Clearance from bottom edge of door to floor mounting surface is adjustable from 3/16" (5mm) to 3/4" (19mm) by varying the depth of the mortise (C) in the bottom of the door, refer to Chart D. Consult product support when clearance is over 3/4" (19mm).</li> </ul> |

### 7253 Finishes

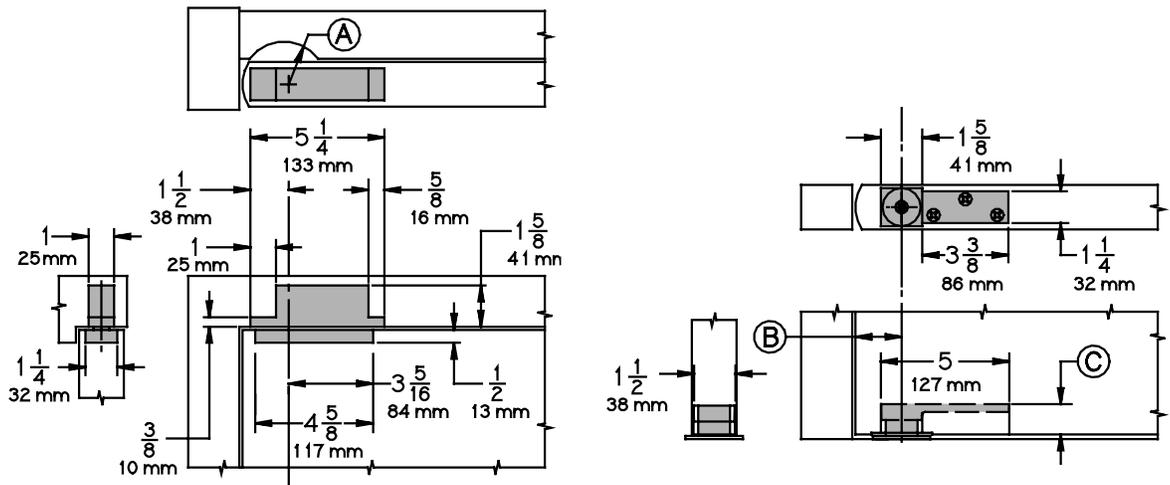
| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| -    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

For other colors, consult factory.

**Table D**

#### Clearance depth of mortise

|             |                |
|-------------|----------------|
| 3/16" (5mm) | 1 3/16" (30mm) |
| 3/8" (10mm) | 1" (25mm)      |
| 1/2" (13mm) | 7/8" (22mm)    |
| 5/8" (16mm) | 3/4" (19mm)    |
| 3/4" (19mm) | 5/8" (16mm)    |



Introduction  
Table of contents  
Hinges and pivots  
Pulls, push bars and plates  
Flush bolts, strikes and coordinators  
Latches, catches and bolts  
Door stops, holders and silencers  
Exterior hardware  
Miscellaneous hardware

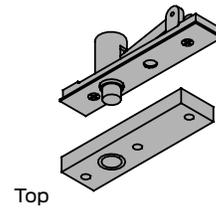
## Hinges and pivots

### Center hung pivots

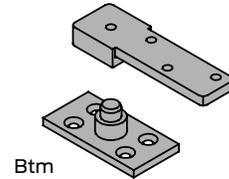
# 7255

### Center hung pivot, 500lb with bottom base mount

- Maximum door load 500 pounds
- Recommended for use with  $1\frac{3}{4}$ " minimum door thickness
- Not recommended for doors larger than 4'0" X 8'0"
- Easy installation, tilt on bearing and bearing pin
- Adjustable floor to door clearance  $\frac{3}{16}$ " to  $\frac{3}{4}$ ", consult product support if greater than  $\frac{3}{4}$ "
- Vertical adjustment range  $\frac{3}{16}$ ", with positive locking
- Non-handed
- 7255 Set (7255 Top and 7255 Btm)
- 7255 Top (7253-7255-7255J-7256 Top), header mount
- 7255 Btm (7255 Btm), base plate mount



Top



Btm

### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass  |
| Certifications     | Meets ANSI/BHMA A156.4 C07032   |
| Dimensions         | <ul style="list-style-type: none"> <li>▪ Radius stop (A) to clear heel of door edge</li> <li>▪ Pivot distance (B) <math>1\frac{3}{4}</math>" (44mm) minimum from jamb to centerline of pivot pin. Radius heel edge of door, <math>1\frac{5}{8}</math>" (41mm) minimum recommended.</li> <li>▪ Clearance from bottom edge of door to floor mounting surface is adjustable from <math>\frac{3}{16}</math>" (5mm) to <math>\frac{3}{4}</math>" (19mm) by varying the depth of the mortise (C) in the bottom of the door, refer to Chart D. Consult product support when clearance is over <math>\frac{3}{4}</math>" (19mm).</li> </ul> |

### 7255 Finishes

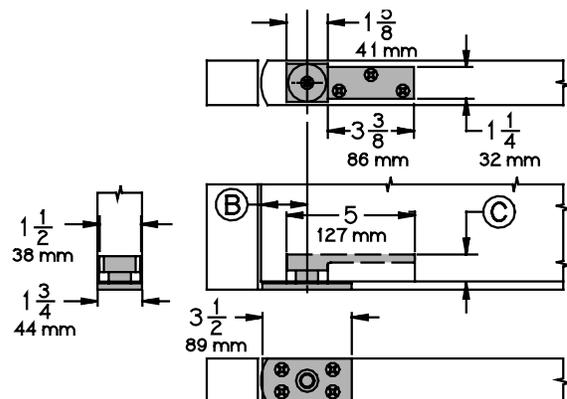
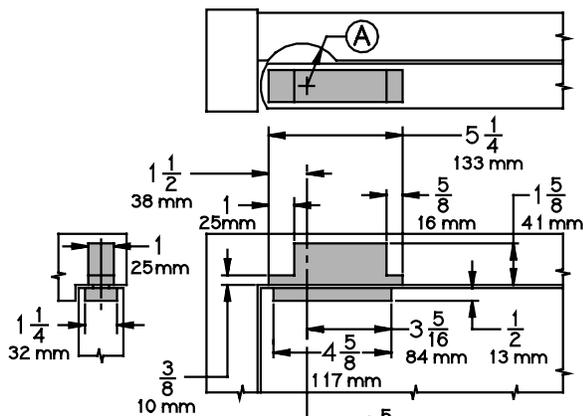
| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| –    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

For other colors, consult factory.

### Table D

#### Clearance depth of mortise

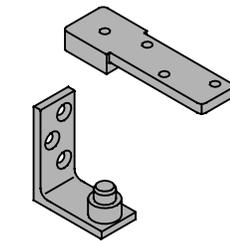
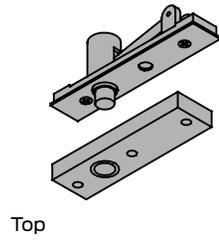
|                        |                          |
|------------------------|--------------------------|
| $\frac{3}{16}$ " (5mm) | $1\frac{3}{16}$ " (30mm) |
| $\frac{3}{8}$ " (10mm) | 1" (25mm)                |
| $\frac{1}{2}$ " (13mm) | $\frac{7}{8}$ " (22mm)   |
| $\frac{5}{8}$ " (16mm) | $\frac{3}{4}$ " (19mm)   |
| $\frac{3}{4}$ " (19mm) | $\frac{5}{8}$ " (16mm)   |



# 7255J

## Center hung pivot, 500lb with bottom jamb mount

- Maximum door load 500 pounds
- Recommended for use with 1 3/4" minimum door thickness
- Not recommended for doors larger than 4'0" X 8'0"
- Easy installation, tilt on bearing and bearing pin
- Adjustable floor to door clearance 3/16" to 3/4", consult product support if greater than 3/4"
- Vertical adjustment range 3/16", with positive locking
- Non-handed
- 7255J Set (7255J Top and 7255J Btm)
- 7255J Top (7253-7255-7255J-7256 Top), header mount
- 7255J Btm (7255J Btm), jamb mount



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass  |
| Certifications     | Meets ANSI/BHMA A156.4 C07042   |
| Dimensions         | <ul style="list-style-type: none"> <li>Radius stop (A) to clear heel of door edge.</li> <li>Pivot distance (B) 1 3/4" (44mm) minimum from jamb to centerline of pivot pin. Radius heel edge of door, 1 5/8" (41mm) minimum recommended.</li> <li>Clearance from bottom edge of door to floor mounting surface is adjustable from 3/16" (5mm) to 3/4" (19mm) by varying the depth of the mortise (C) in the bottom of the door, refer to Chart D. Consult product support when clearance is over 3/4" (19mm).</li> </ul> |

### 7255 Finishes

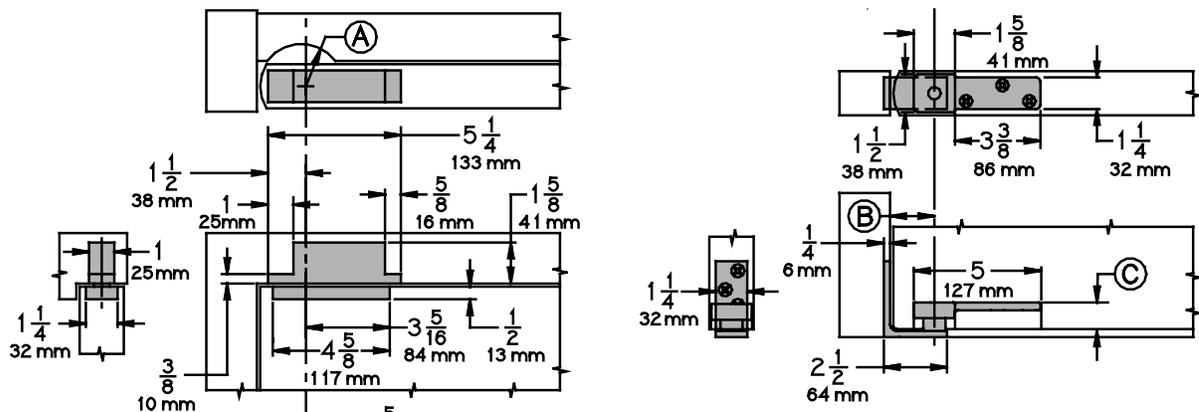
| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| -    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

For other colors, consult factory.

Table D

#### Clearance depth of mortise

|             |                |
|-------------|----------------|
| 3/16" (5mm) | 1 3/16" (30mm) |
| 3/8" (10mm) | 1" (25mm)      |
| 1/2" (13mm) | 7/8" (22mm)    |
| 5/8" (16mm) | 3/4" (19mm)    |
| 3/4" (19mm) | 5/8" (16mm)    |



## Hinges and pivots

## Center hung pivots

## 7256

## Center hung pivot, 600lb with bottom base mount

- Maximum door load 600 pounds
- Recommended for use with  $1\frac{3}{4}$ " minimum door thickness
- Not recommended for doors larger than 4'0" X 8'0"
- Easy installation, tilt on bearing and bearing pin
- Adjustable floor to door clearance  $\frac{3}{16}$ " to  $\frac{3}{4}$ ", consult product support if greater than  $\frac{3}{4}$ "
- Vertical adjustment range  $\frac{3}{16}$ ", with positive locking
- Non-handed
- 7256 Set (7256 Top and 7256 Btm)
- 7256 Top (7253-7255-7255J-7256 Top), header mount
- 7256 Btm (7256 Btm), base plate mount

## Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass   |
| Certifications     | Meets ANSI/BHMA A156.4 C07021  |
| Dimensions         | <ul style="list-style-type: none"> <li>▪ Radius stop (A) to clear heel of door edge.</li> <li>▪ Pivot distance (B) <math>1\frac{3}{4}</math>" (44mm) minimum from jamb to centerline of pivot pin. Radius heel edge of door, <math>1\frac{5}{8}</math>" (41mm) minimum recommended.</li> <li>▪ Clearance from bottom edge of door to floor mounting surface is adjustable from <math>\frac{3}{16}</math>" (5mm) to <math>\frac{3}{4}</math>" (19mm) by varying the depth of the mortise (C) in the bottom of the door, refer to Chart D. Consult product support when clearance is over <math>\frac{3}{4}</math>" (19mm).</li> </ul> |

## 7256 Finishes

| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| –    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

For other colors, consult factory.

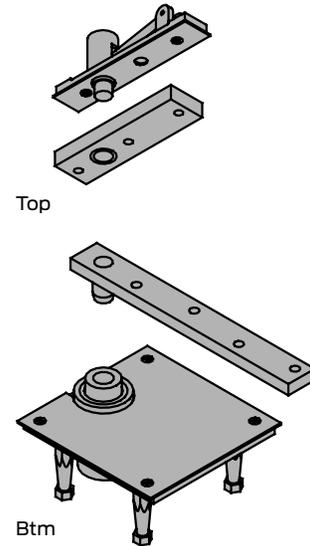
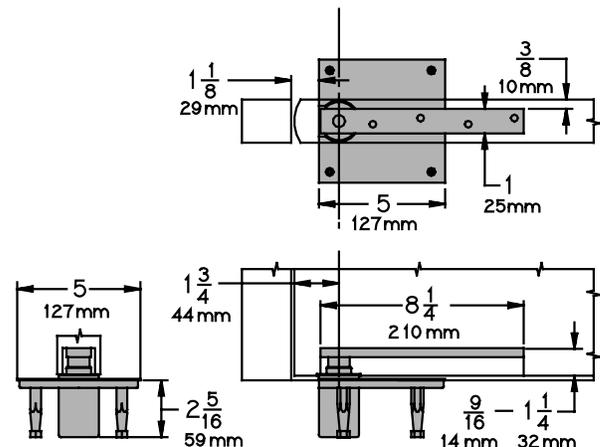
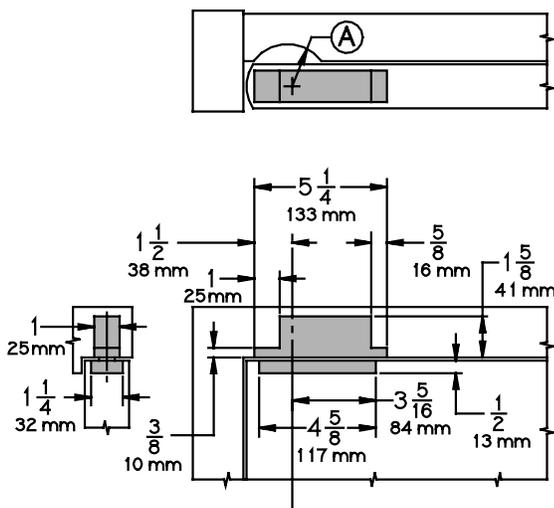


Table D

## Clearance depth of mortise

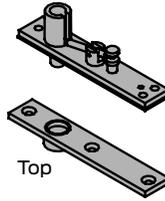
|                        |                          |
|------------------------|--------------------------|
| $\frac{3}{16}$ " (5mm) | $1\frac{3}{16}$ " (30mm) |
| $\frac{3}{8}$ " (10mm) | 1" (25mm)                |
| $\frac{1}{2}$ " (13mm) | $\frac{7}{8}$ " (22mm)   |
| $\frac{5}{8}$ " (16mm) | $\frac{3}{4}$ " (19mm)   |
| $\frac{3}{4}$ " (19mm) | $\frac{5}{8}$ " (16mm)   |



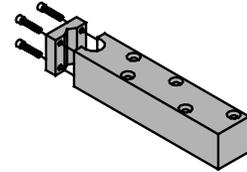
# 7259

## Center hung pivot, 1000lb with bottom base mount

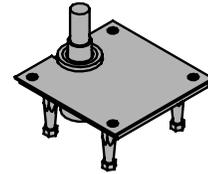
- Maximum door load 1000 pounds
- Recommended for use with 2" to 3" minimum door thickness, consult product support if doors are thicker than 3"
- Not recommended for doors larger than 4'0" X 8'0"
- Easy installation, tilt on bearing and bearing pin
- Adjustable floor to door clearance  $\frac{3}{16}$ " to  $\frac{3}{4}$ ", consult product support if greater than  $\frac{3}{4}$ "
- Vertical adjustment range  $\frac{3}{16}$ ", with positive locking
- Non-handed
- 7259 Set (7259 Top and 7259 Btm)
- 7259 Top (7259 Top) header mount
- 7259 Btm (7259 Btm), base frame mount



Top



Btm



### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass   |
| Certifications     | Meets ANSI/BHMA A156.4 C07011  |
| Dimensions         | <ul style="list-style-type: none"> <li>Radius stop (A) to clear heel of door edge.</li> <li>Pivot distance (B) <math>1\frac{3}{4}</math>" (44mm) minimum from jamb to centerline of pivot pin. Radius heel edge of door, <math>1\frac{5}{8}</math>" (41mm) minimum recommended.</li> <li>Clearance from bottom edge of door to floor mounting surface is adjustable from <math>\frac{3}{16}</math>" (5mm) to <math>\frac{3}{4}</math>" (19mm) by varying the depth of the mortise (C) in the bottom of the door, refer to Chart D. Consult product support when clearance is over <math>\frac{3}{4}</math>" (19mm).</li> </ul> |

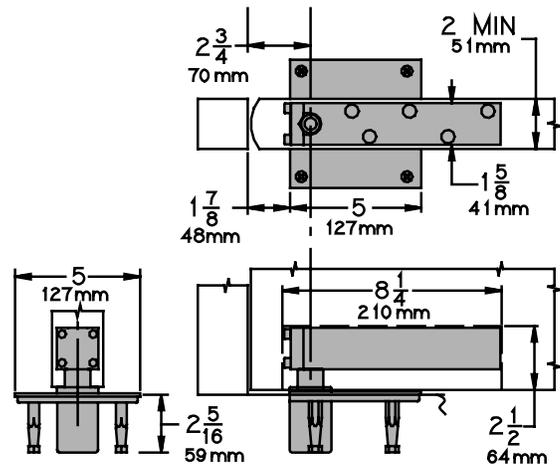
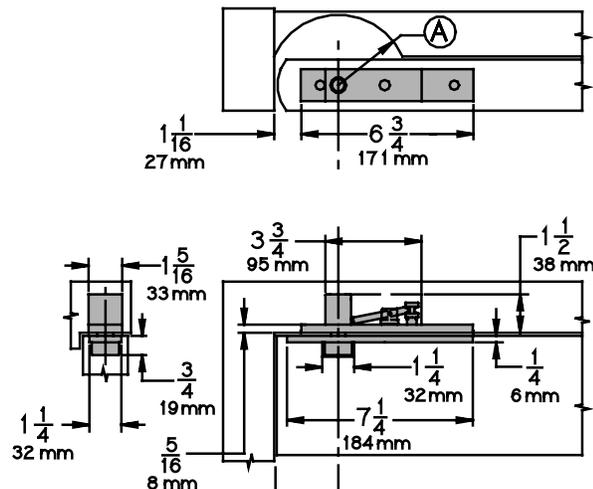
### 7259 Finishes

| BHMA | Description         | Substrate | Finish       |
|------|---------------------|-----------|--------------|
| 605  | Bright brass        | Brass     | US3          |
| 606  | Satin brass         | Brass     | US4          |
| 612  | Satin bronze        | Brass     | US10         |
| 613  | Oil rubbed bronze   | Brass     | US10B        |
| 619  | Satin nickel        | Brass     | US15         |
| 622  | Matte black         | Brass     | BLK          |
| 625  | Bright chrome       | Brass     | 625          |
| 626  | Satin chrome        | Brass     | 626          |
| -    | Aged bronze         | Brass     | 643e/716     |
| 689  | Aluminum painted    | Brass     | SP28         |
| 691  | Bronze painted      | Brass     | SP10         |
| 695  | Dark bronze painted | Brass     | SP313/US10BE |
| 706  | Brass painted       | Brass     | SP4          |

For other colors, consult factory.

Table D

| Clearance depth of mortise |                          |
|----------------------------|--------------------------|
| $\frac{3}{16}$ " (5mm)     | $1\frac{3}{16}$ " (30mm) |
| $\frac{3}{8}$ " (10mm)     | 1" (25mm)                |
| $\frac{1}{2}$ " (13mm)     | $\frac{7}{8}$ " (22mm)   |
| $\frac{5}{8}$ " (16mm)     | $\frac{3}{4}$ " (19mm)   |
| $\frac{3}{4}$ " (19mm)     | $\frac{5}{8}$ " (16mm)   |



## Hinges and pivots

### Pocket pivots

# 91105F

#### Pocket pivot/hinge, fire rated

- Maximum door load of 90 pounds per pivot
- Use three pivots for doors 7'0" tall and one every 2'6" for taller doors as needed
- Full mortise
- Recommended for use with 1<sup>3</sup>/<sub>4</sub>" door thickness only
- Not recommended for doors larger than 4'0" X 8'0"
- Not recommended for wood frames (must be used with steel frames for fire rating)
- Allows door to open a full 90°
- Non-handed

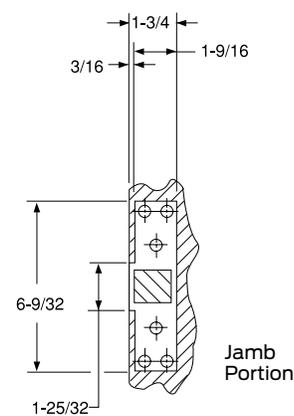
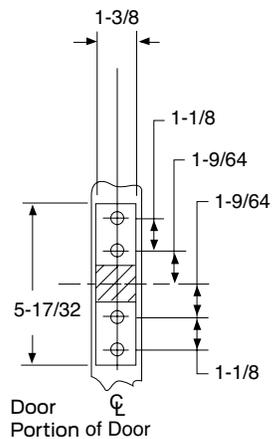
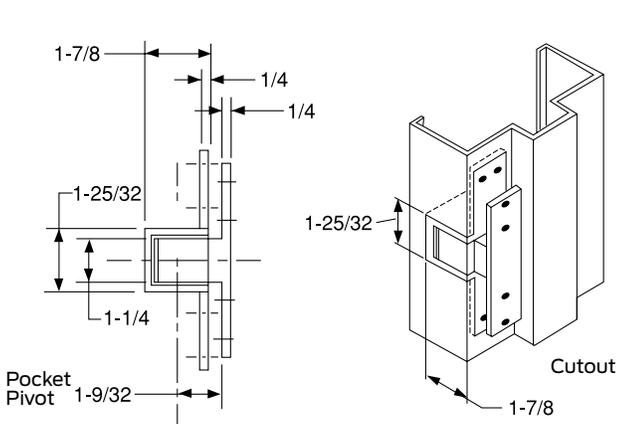
#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07611</li> <li>▪ UL 10C Listed (3 hour)</li> </ul> |

#### 91105F Finishes

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 600  | Primer painted      | Stainless steel | USP          |
| 629  | Bright stainless    | Stainless steel | US32         |
| 630  | Satin stainless     | Stainless steel | US32D        |
| 632  | Bright brass        | Stainless steel | US3          |
| 639  | Satin bronze        | Stainless steel | US10         |
| 640  | Satin bronze        | Stainless steel | US10         |
| 646  | Satin nickel        | Stainless steel | US15         |
| –    | Aged bronze         | Stainless steel | 643e/716     |
| 695  | Dark bronze painted | Stainless steel | SP313/US10BE |

For other colors, consult factory.



## Hinges and pivots

### Pocket pivots

# E91105F

#### Pocket pivot/hinge, power transfer, fire rated

- Non-load bearing
- Available in 28 gauge TW4 or TW8 (for additional electrical wiring applications, consult product support)
- Rated 50 VDC or VAC @ 3.5 amps continuous or 16 amp pulse, maximum pulse 400 milliseconds
- Full mortise
- Recommended for use with 1<sup>3</sup>/<sub>4</sub>" door thickness only
- Not recommended for doors larger than 4'0" X 8'0"
- Not recommended for wood frames
- Allows door to open a full 90°
- Non-handed
- Standard for Allegion Connect



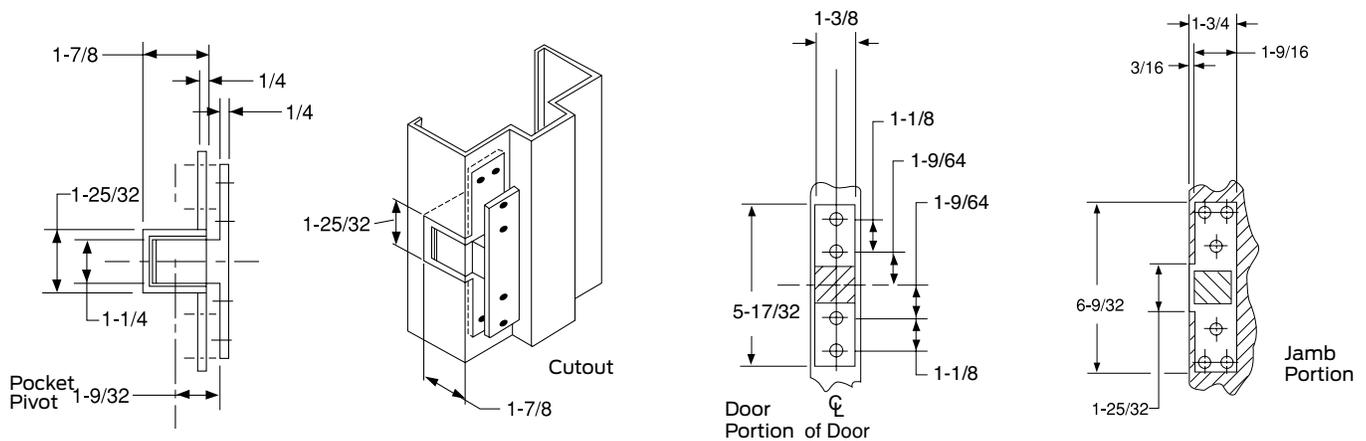
#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 304 series stainless steel   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.4 C07611</li> <li>▪ UL10C Listed (3 hour)</li> </ul> |

#### E91105F Finishes

| BHMA | Description         | Substrate       | Finish       |
|------|---------------------|-----------------|--------------|
| 600  | Primer painted      | Stainless steel | USP          |
| 629  | Bright stainless    | Stainless steel | US32         |
| 630  | Satin stainless     | Stainless steel | US32D        |
| 632  | Bright brass        | Stainless steel | US3          |
| 639  | Satin bronze        | Stainless steel | US10         |
| -    | Aged bronze         | Stainless steel | 643e/716     |
| 695  | Dark bronze painted | Stainless steel | SP313/US10BE |

For other colors, consult factory.



# Pulls, push bars and plates

When a door does not require latching hardware, door pulls, push bars, push and pull plates are often used. Ives offers various pulls, push bars, and push plates and protection plates to meet opening needs, no matter the door's design, size, type or location. Choose from architectural pulls, decorative pulls, hands-free pulls, long door pulls, vandal resistant trim, and more.



# General information

## ANSI/BHMA Certified

All Ives architectural pulls, push bars, decorative pulls, and long door pulls meet ANSI/BHMA 156.06.

## ADA Compliant pulls (EZ)

All Ives ADA compliant pulls (reference local authority having jurisdiction) come with the EZ designation. These pulls all have a door to pull clearance of 2 1/2" or greater. All stainless steel EZ pulls come standard with 316 Series Stainless which make them highly recommended for all external applications.

## Material

All architectural pulls, push bars and decorative pulls are made of heavy duty, solid bar stock or castings. All long door pulls are made from tubular stock. Available material substrates are below. See pull model detailed pages for material availability.

|                        |  |
|------------------------|--|
| <b>Stainless steel</b> | 304 Series   |
| <b>Stainless steel</b> | 316 Series (Standard for all EZ pulls, EZ push/pull combo, and long door pulls. Available on 9100 series push bars as well.) |
| <b>Brass</b>           | -  |
| <b>Aluminum</b>        | 6061-T6 Alloy  |

## Care and maintenance for stainless steel finishes

Stainless steel requires periodic cleaning just as other materials do when in service. Stainless architectural building components, for instance, are subject to road salt spray at ground level and deposits from polluted urban air at higher levels. Finger marks, deposits from tobacco smoke, stains from hard water or food left on to dry all detract from the original attractive appearance of stainless steel applications.

Cleaning methods and the frequency with which there are employed vary considerably according to application. One of the outstanding features

of stainless steel is the ease with which its fine appearance can be maintained. In many instances, only periodic warm water wash is sufficient to restore the original shine. In other cases, cleansing with a strong sterilizing solution may be required more frequently. Between these extremes are a broad range of cleaning requirements and methods. In all cases, there are some important “do’s and don’ts” that should be followed.

### Do

- Wash regularly with warm water and mild soap detergent using a clean cloth or soft brush
- Remove stubborn grime using recommended cleaners and methods
- Always clean in the direction of the original polish lines
- Always rinse after cleaning and wipe dry

### Don't

- Don't use ordinary steel wool or other metal scrapers to remove stubborn dirt
- Don't allow dirt to accumulate
- Don't allow protective coatings to remain on new building components; Remove all traces of adhesive as well as plaster, terrazzo, paint and other construction “splashes”
- Don't use harsh, untested cleaners

## Heavy duty

All Ives architectural pulls, push bars and long door pulls come standard with heavy duty (HD) machining and mounting hardware to withstand high traffic and abuse applications which exceed industry standards. Many decorative pulls also come standard with heavy duty machining and hardware. Please see the list of pulls that come standard with heavy duty mounting hardware.

## Pulls, push bars and plates

### Architectural, decorative, long door pulls, push bars and plates

# General information

## Architectural

| Model    | Heavy duty machining |
|----------|----------------------|
| 8102HD   | 5/16-18              |
| 8103HD   | 3/8-16               |
| 8103EZHD | 3/8-16               |
| 8122HD   | 3/8-16               |
| 8145EZHD | 3/8-16               |
| 8190HD   | 3/8-16               |
| 8190EZHD | 3/8-16               |
| 8322HD   | 3/8-16               |
| 9100HD   | 3/8-16               |
| 9103EZHD | 3/8-16               |
| 9145EZHD | 3/8-16               |
| 9190HD   | 3/8-16               |
| 9190EZHD | 3/8-16               |

## Decorative

| Model | Heavy duty machining |
|-------|----------------------|
| 8169  | 3/8-16               |
| 8181  | 3/8-16               |
| 8281  | 3/8-16               |
| 8189  | 3/8-16               |
| 8312  | 3/8-16               |
| 8320  | 3/8-16               |
| 8371  | 3/8-16               |
| 8372  | 5/16-18              |
| 8373  | 5/16-18              |
| 8700  | 5/16-18              |
| 8800  | 5/16-18              |
| 8848  | 3/8-16               |
| 8975  | 3/8-16               |

## Long door pull

| Model | Heavy duty machining |
|-------|----------------------|
| 9264  | 3/8-16               |
| 9266  | 3/8-16               |

## Pulls sizes - center to center

Pull sizes are determined by the center to center distance between the mounting locations. Ex. A 12" pull has 12" between the mounting locations. The overall pull length will be longer. See pull model detailed pages for specific size information. The table below shows standard available sizes for pulls.

|    |   |
|----|---|
| 5  | 5 1/4" (8111 and 8112 pulls only), 5 3/4" (8121)  |
| 6  | 6" (8102HD and 8105 only)   |
| 8  | 8" (8102HD, 8103HD, 8103EZHD, 8105, 8122HD, 8145EZHD, 8190HD, 8190EZHD, 8322HD only)                                      |
| 9  | 9" (8700 and 8800 only)   |
| 0  | 10" (8102HD, 8103HD, 8103EZHD, 8105, 8122HD, 8145EZHD, 8169, 8190HD, 8190EZHD, 8322HD only)                               |
| 2  | 12" (8103HD, 8103EZHD, 8145EZHD, 8169, 8181, 8190HD, 8190EZHD, 8281, 8312, 8371, 8372, 8373, 8700, 8800, 8848, 8975 only) |
| 16 | 16" (8181 and 8281 only)  |
| 18 | 18" (8103EZHD, 8145EZHD, 8181, 8190HD, 8190EZHD, 8281, 8371, 8372, 8373, 8700, 8800 only)                                 |
| 19 | 19 3/16" (8189 only)  |
| 20 | 20" (8320 only)   |
| 24 | 24" (8371, 8372, 8373, 8700, 8800 only)   |

Custom lengths are available as engineering special, consult customer service.

## Finishes

| BHMA                | Description                     | Substrate                | US           |
|---------------------|---------------------------------|--------------------------|--------------|
| 605                 | Bright Brass                    | Brass                    | US3          |
| 606                 | Satin Brass                     | Brass                    | US4          |
| 612                 | Satin Bronze                    | Brass                    | US10         |
| 613                 | Oil Rubbed Bronze               | Brass                    | US10B        |
| 619                 | Satin Nickle                    | Brass or stainless steel | US15         |
| 625                 | Bright Chrome                   | Brass                    | US26         |
| 626                 | Satin Chrome                    | Brass                    | US26D        |
| 626-AM <sup>1</sup> | Satin Chrome - Antimicrobial    | Brass                    | US26D-AM     |
| 628                 | Satin Aluminum                  | Aluminum                 | US28         |
| 629                 | Buff Stainless                  | Stainless steel          | US32D        |
| 629-316             | Buff Stainless - 316 Substrate  | Stainless steel -316     | US32D-316    |
| 630                 | Satin Stainless Steel           | Stainless steel          | US32D        |
| 630-316             | Satin Stainless - 316 Substrate | Stainless steel -316     | US32D-316    |
| 630-AM <sup>2</sup> | Satin Stainless - Antimicrobial | Stainless steel          | US32D-AM     |
| 695                 | Dark Bronze Paint               | Stainless steel          | SP313/US10BE |
| -                   | Aged Bronze                     | Stainless steel          | 643e/716     |
| -                   | Matte Black                     | Stainless steel          | BLK          |

- AM - Antimicrobial finish. The antimicrobial coating is specifically formulated to inhibit the growth of bacteria by interrupting cell multiplication. The result is that the silver ions surround bacterial cells, blocking food and slowing the growth of bacteria, mold and mildew. Product with antimicrobial finishes will maintain the products standard warranty for finishes. High traffic, public use areas are ideally suited to antimicrobial coated door hardware. With hundreds or thousands of people accessing these areas every day, safety should be top of mind. Adding door hardware with an antimicrobial coating can make a difference by inhibiting the growth of bacteria on these high-tough surfaces. Applications where antimicrobial coated hardware makes sense include: healthcare, education, government, food service and childcare restrooms.
- Recommend using 630-AM Antimicrobial for highly corrosive environmental applications

Custom finishes are available as engineering special, consult customer service.

## Door thickness

- All Ives architectural pulls, push bars, decorative pulls, and long door pulls come standard with mounting hardware for door thickness ranging from 1 1/2" to 1 3/4". Many pulls have optional mounting hardware for 2" and 2 1/4" thick doors or are available as separate part accessories. See detailed pull model pages for availability.
- Mounting hardware for other door thicknesses are available as engineering special, consult customer service.

## Pulls, push bars and plates

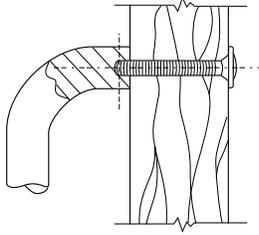
Architectural, decorative, long door pulls, push bars and plates

# Mounting hardware

### Mounting sizes

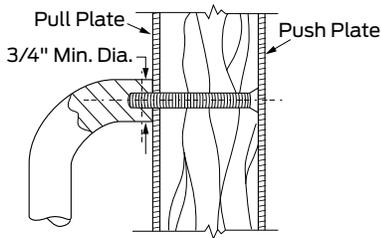
- All mounting hardware is for standard 1-3/4" doors with the exception of the glass door Q mount. Standard glass door thickness is 1/2".
- Optional mounting hardware for 2" and 2 1/4" doors for many pulls. See pull detail for availability.
- Other mounting hardware sizes available as engineering special. Consult Customer Service.

### Through bolt mounts



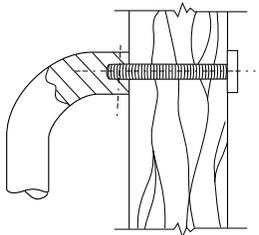
#### STD mount - Standard mount

- Through bolt mount with countersunk washers
- Hollow metal and wood door applications
- (2) 3/8-16 x 2 1/4" brass, flathead mounting screws, plated to match
- (2) 3/8-16 Countersunk washers, plated to match



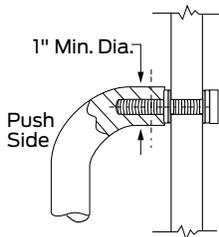
#### F mount - Countersunk holes

- Used with countersunk holes in doors
- Wood door applications
- (2) 2 1/4" steel flathead mounting screws, plated to match



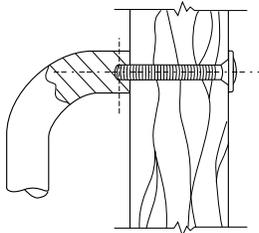
#### O mount - Decorative

- Decorative through bolt mount
- Hollow metal and wood door applications
- (2) 3/8-16 x 2 1/4" Decorative mounting bolts - machine screw, plated to match



#### Q mount - Decorative, glass doors

- Decorative through bolt mount
- Glass door applications
- (2) Decorative mounting bolts - machine screw, plated to match
- (2) Metal and vinyl washers



#### X mount - Security

- Security through bolt mount with countersunk washers
- Hollow metal and wood door applications
- (2) Flathead security pin in socket mounting screws, plated to match
- (2) Countersunk washers, plated to match

## Pulls, push bars and plates

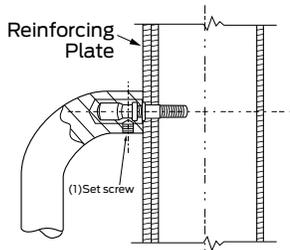
Architectural, decorative, long door pulls, push bars and plates

# Mounting hardware

### Mounting sizes

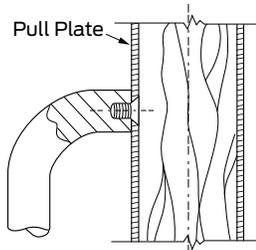
- All mounting hardware is for standard 1<sup>3</sup>/<sub>4</sub>" door.
- Optional mounting hardware for 2" and 2<sup>1</sup>/<sub>4</sub>" doors for many pulls. See pull detail for availability.
- Other mounting hardware sizes available as engineering special. Consult Customer Service.

### Concealed mounts



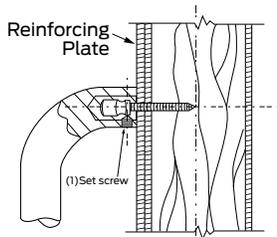
#### A mount - Aluminum doors

- Concealed mount
- Aluminum door applications
- (2) Mounting bolts - machine screw
- (2) Set screws
- Designed to be used with rivet nuts (not supplied)



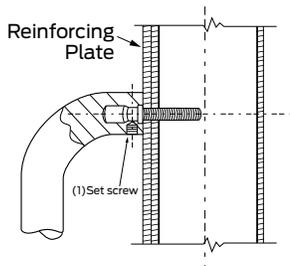
#### G mount - Pull plate

- Concealed mount with pull plate
- Hollow metal and wood door applications
- Pull mounts directly onto plate; plate is attached to door
- (2) 3/8 - 16 x 5/8" steel flathead mounting screws



#### I mount - Wood doors

- Concealed mount
- Wood door applications
- (2) Mounting bolts - wood screw
- (2) Set screws



#### L mount - Hollow metal doors

- Concealed mount
- Hollow metal door applications
- (2) Mounting bolts - machine screw
- (2) Set screws

## Pulls, push bars and plates

Architectural, decorative, long door pulls, push bars and plates

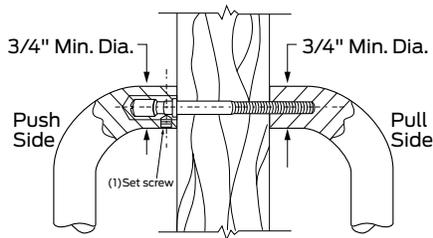
# Mounting hardware

### Mounting sizes

- All mounting hardware is for standard 1-3/4" doors with the exception of the glass door P mount. Standard glass door thickness is 1/2".
- Optional mounting hardware for 2" and 2 1/4" doors for many pulls (see pull detail for availability).
- Other mounting hardware sizes available as engineering special (consult Customer Service).

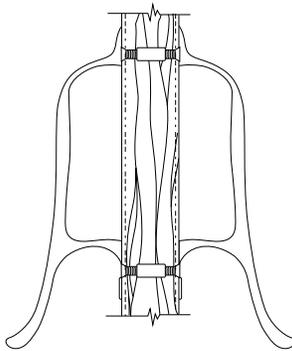
### Back to back pull mounts

Specify the below back to back mounting options to receive a pair of the model specified (2).



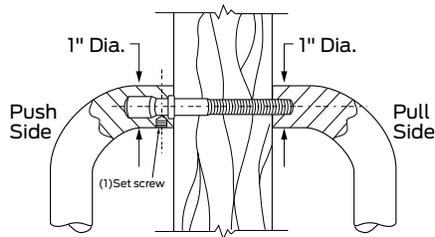
#### J mount - 8102 Pull only

- Back to back mounting - 5/16-18 hardware
- Hollow metal and wood door applications
- (2) Mounting bolts - machine screw
- (2) Set screws



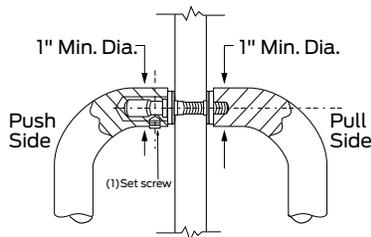
#### K mount - 8121 Pull only

- Back to back mounting - 8-32 hardware
- Hollow metal and wood door applications
- (8) Machine screws
- (4) Mounting sleeves



#### N mount

- Back to back mounting - 3/8-16 hardware
- Hollow metal and wood door applications
- (2) Mounting bolts - machine screw
- (2) Set screws



#### P mount - Glass doors

- Back to back mounting - 3/8-16 hardware
- Glass door applications
- (2) Mounting bolts - machine screw
- (2) Set screws
- (2) Metal and vinyl washers

## Pulls, push bars and plates

Architectural, decorative, long door pulls, push bars and plates

# Mounting hardware

### Mounting sizes

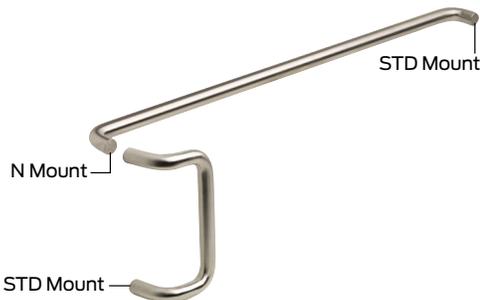
- All mounting hardware is for standard 1-3/4" doors with the exception of the glass door PQ mount. Standard glass door thickness is 1/2".
- Optional mounting hardware for 2" and 2 1/4" doors for many pulls (see pull detail for availability).
- Other mounting hardware sizes available as engineering special (consult Customer Service).

### Push/pull combo mounts



#### NO Mount - Decorative

- Back to back mounting - 3/8-16 hardware (N) and Decorative through bolt (O)
  - Hollow metal and wood door applications
- Pushbar to pull
  - (1) Mounting bolt - machine screw
  - (1) Set screw
- Free end pushbar and pull
  - (2) Decorative mounting bolts - machine screw, plated to match



#### NS Mount - Standard

- Back to back mounting - 3/8-16 hardware (N) and Standard through bolt (S or STD)
  - Hollow metal and wood door applications
- Pushbar to Pull (N-Mount)
  - (1) Mounting bolt - machine screw
  - (1) Set screw
- Free end pushbar and Pull (STD-Mount)
  - (2) Flathead mounting screws, plated to match
  - (2) Countersunk washers, plated to match



#### PQ Mount - Decorative, glass doors

- Back to back mounting - 3/8-16 hardware (P) and Decorative through bolt (Q)
  - Glass door applications
- Pushbar to pull
  - (1) Mounting bolt - machine screw
  - (1) Set screw
  - (1) Metal and vinyl washers
- Free end pushbar and pull
  - (2) Decorative mounting bolts - machine screw, plated to match
  - (2) Metal and vinyl washers

## Pulls, push bars and plates

Architectural, decorative, long door pulls, push bars and plates

# How to order

## Architectural pulls and push bars

| Single/pair | Model | Center to center | Finish | Mounting hardware | Door thickness |       |   |   |   |        |
|-------------|-------|------------------|--------|-------------------|----------------|-------|---|---|---|--------|
| 1           | 2     | 3                | 4      | 5                 | 6              |       |   |   |   |        |
| PR          | -     | 8190EZHD         | -      | 8                 | -              | US32D | - | N | - | 1 3/4" |

### Detail

#### 1 Single/pair

|                |   |
|----------------|---|
| <b>"Blank"</b> | Single pull machined with standard threads  |
| <b>PR</b>      | Pair of pulls - One pull machined with standard threads and one pull machined for back to back mounting |
| <b>JSGL</b>    | Single pull machined for back to back mounting (8102 only)  |
| <b>NSGL</b>    | Single pull machined for back to back mounting  |
| <b>PSGL</b>    | Single pull machined for back to back mounting (glass doors)  |

#### 2 Model

|                 |  |
|-----------------|--|
| <b>8102HD</b>   | Straight pull - 3/4" round                               |
| <b>8103HD</b>   | Straight pull - 1" round                                 |
| <b>8103EZHD</b> | Straight pull - 1" round, ADA compliant                  |
| <b>8105</b>     | Straight pull - 1" flattened                             |
| <b>8145EZHD</b> | 45° Offset pull - 1" round, ADA compliant                |
| <b>8190HD</b>   | 90° Offset pull - 1" round                               |
| <b>8190EZHD</b> | 90° Offset pull - 1" round, ADA compliant                |
| <b>8111</b>     | Straight pull  |
| <b>8112</b>     | Straight, solid pull - surface mount                     |
| <b>8121</b>     | Straight, solid pull - surface mount hands-free          |
| <b>8122HD</b>   | Hands-free reversible arm pull, ADA compliant            |
| <b>8169</b>     | Offset Tubular pull                                      |
| <b>8181</b>     | Offset Georgian pull                                     |
| <b>8189</b>     | Straight Athens pull                                     |
| <b>8281</b>     | Straight Georgian pull                                   |
| <b>8312</b>     | Offset Plymouth pull                                     |
| <b>8320</b>     | Offset Plymouth pull                                     |
| <b>8322HD</b>   | Hands-free reversible arm pull with plate, ADA compliant |
| <b>8371</b>     | Straight Addison pull                                    |
| <b>8372</b>     | Straight Camelot pull                                    |
| <b>8373</b>     | Straight Brookshire pull                                 |
| <b>8700</b>     | Straight Greenwich pull                                  |
| <b>8800</b>     | Offset Greenwich pull                                    |
| <b>8848</b>     | Straight Latitude pull                                   |
| <b>8975</b>     | Straight Rhodes pull                                     |

#### 3 Center to center

|           |   |
|-----------|---|
| <b>5</b>  | 5 1/4" (8111), 5 5/8" (8112), 5 3/4" (8121)   |
| <b>6</b>  | 6" (8102HD and 8105 only)   |
| <b>8</b>  | 8" (8102HD, 8103HD, 8103EZHD, 8105, 8122HD, 8145EZHD, 8190HD, 8190EZHD, 8322HD only)                                      |
| <b>9</b>  | 9" (8700 and 8800 Only)   |
| <b>0</b>  | 10" (8102HD, 8103HD, 8103EZHD, 8105, 8122HD, 8145EZHD, 8169, 8190HD, 8190EZHD, 8322HD only)                               |
| <b>2</b>  | 12" (8103HD, 8103EZHD, 8145EZHD, 8169, 8181, 8190HD, 8190EZHD, 8281, 8312, 8371, 8372, 8373, 8700, 8800, 8848, 8975 only) |
| <b>16</b> | 16" (8181 and 8281 only)  |
| <b>18</b> | 18" (8103EZHD, 8145EZHD, 8181, 8190HD, 8190EZHD, 8281, 8371, 8372, 8373, 8700, 8800 only)                                 |
| <b>19</b> | 19" (8189 only)   |
| <b>20</b> | 20" (8320 only)   |
| <b>24</b> | 24" (8371, 8372, 8373, 8700, 8800 only)   |

#### 4 Finish

| BHMA            | Description                      | Finish       |
|-----------------|----------------------------------|--------------|
| <b>605</b>      | Bright Brass                     | US3          |
| <b>606</b>      | Satin Brass                      | US4          |
| <b>612</b>      | Satin Bronze                     | US10         |
| <b>613</b>      | Oil Rubbed Bronze                | US10B        |
| <b>619</b>      | Satin Nickel                     | US15         |
| <b>625</b>      | Bright Chrome                    | US26         |
| <b>626</b>      | Satin Chrome                     | US26D        |
| <b>626-AM</b>   | Satin Chrome-Antimicrobial       | US26D-AM     |
| <b>628</b>      | Satin Aluminum, Clear Anodized   | US28         |
| <b>629</b>      | Bright Stainless                 | US32         |
| <b>629-316</b>  | Bright Stainless - 316 substrate | US32-316     |
| <b>630</b>      | Satin Stainless                  | US32D        |
| <b>630-316</b>  | Satin Stainless - 316 substrate  | US32D-316    |
| <b>630-AM</b>   | Satin Stainless-Antimicrobial    | US32D-AM     |
| <b>643e/716</b> | Aged Bronze                      | -            |
| <b>695</b>      | Dark Bronze Painted              | SP313/US10BE |
| <b>BLK</b>      | Matte Black                      | -            |

#### 5 Mounting hardware

|            |   |
|------------|---|
| <b>STD</b> | Through bolt with decorative washer                 |
| <b>A</b>   | Concealed mount - aluminum doors                    |
| <b>F</b>   | Through bolt with countersunk hole                  |
| <b>G</b>   | Concealed mount with pull plates                    |
| <b>I</b>   | Concealed mount - wood doors                        |
| <b>J</b>   | Back to back mount                                  |
| <b>K</b>   | Back to back mount (8121 only)                      |
| <b>L</b>   | Concealed mount - hollow metal doors                |
| <b>N</b>   | Back to back mount                                  |
| <b>O</b>   | Decorative through bolt                             |
| <b>P</b>   | Back to back mount - glass doors                    |
| <b>Q</b>   | Decorative through bolt - glass doors               |
| <b>X</b>   | Through bolt - security screw and decorative washer |

#### 6 Door thickness

|               |          |
|---------------|----------|
| <b>1 3/4"</b> | Standard |
| <b>2"</b>     | Optional |
| <b>2 1/4"</b> | Optional |

## Pulls, push bars and plates

Architectural, decorative, long door pulls, push bars and plates

# How to order

## Long door pulls

| Single/pair | Model   | Length | Center to center | Finish  | Mounting hardware | Door thickness |
|-------------|---------|--------|------------------|---------|-------------------|----------------|
| 1           | 2       | 3      | 4                | 5       | 6                 | 7              |
| PR          | - 9264F | - 72   | - 56             | - US32D | - P               | - 1/2"         |

### Detail

#### 1 Single/pair

|                |   |
|----------------|---|
| <b>"Blank"</b> | Single pull machined with standard threads  |
| <b>PR</b>      | Pair of pulls - One pull machined with standard threads and one pull machined for back to back mounting |
| <b>NSGL</b>    | Single pull machined for back to back mounting  |
| <b>QSGL</b>    | Single pull machined for back to back mounting (glass doors)  |

#### 2 Model

|              |                                       |
|--------------|---------------------------------------|
| <b>9264</b>  | Offset long door pull, rounded tips   |
| <b>9264F</b> | Offset long door pull, flat tips      |
| <b>9266</b>  | Straight long door pull, rounded tips |
| <b>9266F</b> | Straight long door pull, flat tips    |

#### 3 Length

|           |     |
|-----------|-----|
| <b>12</b> | 12" |
| <b>18</b> | 18" |
| <b>24</b> | 24" |
| <b>36</b> | 36" |
| <b>72</b> | 72" |

#### 4 Center to center

|           |     |
|-----------|-----|
| <b>8</b>  | 8"  |
| <b>12</b> | 12" |
| <b>18</b> | 18" |
| <b>20</b> | 20" |
| <b>56</b> | 56" |

#### 5 Finish

| BHMA            | Description                      | Finish       |
|-----------------|----------------------------------|--------------|
| <b>605</b>      | Bright Brass                     | US3          |
| <b>606</b>      | Satin Brass                      | US4          |
| <b>613</b>      | Oil Rubbed Bronze                | US10B        |
| <b>619</b>      | Satin Nickel                     | US15         |
| <b>629-316</b>  | Bright Stainless - 316 substrate | US32-316     |
| <b>630-316</b>  | Satin Stainless - 316 substrate  | US32D-316    |
| <b>643e/716</b> | Aged Bronze                      | -            |
| <b>695</b>      | Dark Bronze Painted              | SP313/US10BE |
| <b>BLK</b>      | Matte Black                      | -            |

#### 6 Mounting hardware

|            |   |
|------------|---|
| <b>STD</b> | Through bolt with decorative washer                 |
| <b>A</b>   | Concealed mount - aluminum doors                    |
| <b>I</b>   | Concealed mount - wood doors                        |
| <b>L</b>   | Concealed mount - hollow metal doors                |
| <b>N</b>   | Back to back mount                                  |
| <b>O</b>   | Decorative through bolt                             |
| <b>P</b>   | Back to back mount - glass doors                    |
| <b>Q</b>   | Decorative through bolt - glass doors               |
| <b>X</b>   | Through bolt - security screw and decorative washer |
| <b>MB</b>  | Additional mounting bracket (centered)              |

#### 7 Door thickness

|               |          |
|---------------|----------|
| <b>1 3/4"</b> | Standard |
| <b>2"</b>     | Optional |
| <b>2 1/4"</b> | Optional |

## Pulls, push bars and plates

Architectural, decorative, long door pulls, push bars and plates

# How to order

## Push, pull and protection plates

| Single/pair | Model | Center to center | Finish | Plate W x H | Mounting hardware | Door thickness |   |        |   |   |   |        |
|-------------|-------|------------------|--------|-------------|-------------------|----------------|---|--------|---|---|---|--------|
| 1           | 2     | 3                | 4      | 5           | 6                 | 7              |   |        |   |   |   |        |
| PR          | -     | 8303             | -      | 8           | -                 | US32D          | - | 4 x 16 | - | N | - | 1 3/4" |

### Detail

#### 1 Single/pair

|                |   |
|----------------|---|
| <b>"Blank"</b> | Single pull machined with standard threads  |
| <b>PR</b>      | Pair of pulls - One pull machined with standard threads and one pull machined for back to back mounting |
| <b>NSGL</b>    | Single pull machined for back to back mounting  |

#### 2 Model

|             |                             |
|-------------|-----------------------------|
| <b>8200</b> | Push plate                  |
| <b>8300</b> | Pull plate (less pull)      |
| <b>8302</b> | Pull plate (with 8102 pull) |
| <b>8303</b> | Pull plate (with 8103 pull) |
| <b>8305</b> | Pull plate (with 8105 pull) |
| <b>8311</b> | Pull plate (with 8111 pull) |

#### 4 Pull to center

|          |                                 |
|----------|---------------------------------|
| <b>5</b> | 5 1/4" (8111 only)              |
| <b>6</b> | 6" (8102HD and 8105 only)       |
| <b>8</b> | 8" (8102HD, 8103HD, 8105 only)  |
| <b>0</b> | 10" (8102HD, 8103HD, 8105 only) |
| <b>2</b> | 12" (8103HD only)               |

#### 5 Finish

| BHMA            | Description                     | Finish       |
|-----------------|---------------------------------|--------------|
| <b>605</b>      | Bright Brass                    | US3          |
| <b>606</b>      | Satin Brass                     | US4          |
| <b>612</b>      | Satin Bronze                    | US10         |
| <b>613</b>      | Oil Rubbed Bronze               | US10B        |
| <b>619</b>      | Satin Nickel                    | US15         |
| <b>625</b>      | Bright Chrome                   | US26         |
| <b>626</b>      | Satin Chrome                    | US26D        |
| <b>626-AM</b>   | Satin Chrome - Antimicrobial    | US260-AM     |
| <b>628</b>      | Satin Aluminum, Clear Anodized  | US28         |
| <b>629</b>      | Bright Stainless                | US32D        |
| <b>630</b>      | Satin Stainless                 | US32D        |
| <b>630-AM</b>   | Satin Stainless - Antimicrobial | US32D-AM     |
| <b>643e/716</b> | Aged Bronze                     | -            |
| <b>695</b>      | Dark Bronze Powder Coat         | SP313/US10BE |
| <b>BLK</b>      | Matte Black                     | -            |

#### 3 Length

|               |                        |
|---------------|------------------------|
| <b>3X12</b>   | 3" wide x 12" high     |
| <b>3.5X15</b> | 3 1/2" wide x 15" high |
| <b>4X16</b>   | 4" wide x 16" high     |
| <b>6X16</b>   | 6" wide x 16" high     |
| <b>8X16</b>   | 8" wide x 16" high     |

#### 6 Mounting hardware

|            |                                      |
|------------|--------------------------------------|
| <b>STD</b> | Through bolt with decorative washer  |
| <b>A</b>   | Concealed mount - aluminum doors     |
| <b>F</b>   | Through bolt with countersunk hole   |
| <b>G</b>   | Concealed mount with pull plates     |
| <b>I</b>   | Concealed mount - wood doors         |
| <b>J</b>   | Back to back mount (8102 only)       |
| <b>L</b>   | Concealed mount - hollow metal doors |
| <b>N</b>   | Back to back mount                   |

#### 7 Door thickness

|               |          |
|---------------|----------|
| <b>1 3/4"</b> | Standard |
| <b>2"</b>     | Optional |
| <b>2 1/4"</b> | Optional |

## Pulls, push bars and plates

### Architectural pulls and push bars

# 8102HD

## Solid door pull - 3/4" round

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 6", 8", 10"   |
| Material substrate | Made from solid aluminum (6061-T6 Alloy), brass or stainless steel (304 Series)   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li><sup>5</sup>/<sub>16</sub>-18 mounting hardware</li> <li>Specify door thickness           <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Optional package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers (STD - mount)</li> <li>Optional mounting hardware available (see general information section for details) F, G, I, J, L</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8102HD-6       | 2 1/4"         | 1 1/2"    | 6"                   | 6 3/4"             |
| 8102HD-8       | 2 1/4"         | 1 1/2"    | 8"                   | 8 3/4"             |
| 8102HD-0       | 2 1/4"         | 1 1/2"    | 10"                  | 10 3/4"            |

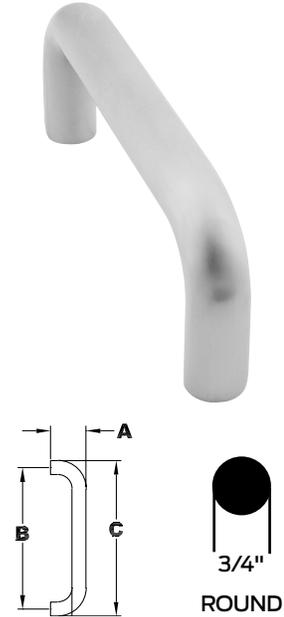
### Finishes

| BHMA     | Description                    | Substrate       | Finish       |
|----------|--------------------------------|-----------------|--------------|
| 605      | Bright Brass                   | Brass           | US3          |
| 606      | Satin Brass                    | Brass           | US4          |
| 612      | Satin Bronze                   | Brass           | US10         |
| 613      | Oil Rubbed Bronze              | Brass           | US10B        |
| 619      | Satin Nickel                   | Stainless Steel | US15         |
| 625      | Bright Chrome                  | Brass           | US26         |
| 626      | Satin Chrome                   | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial     | Brass           | US26D-AM     |
| 628      | Satin Aluminum, Clear Anodized | Aluminum        | US28         |
| 629      | Bright Stainless               | Stainless steel | US32         |
| 630      | Satin Stainless                | Stainless steel | US32D        |
| 630-AM   | Satin Stainless Antimicrobial  | Stainless steel | US32D-AM     |
| 631      | Matte Black                    | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                    | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat        | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify JSGL
- Custom lengths are available as engineering special, consult customer service

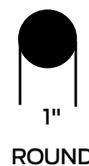
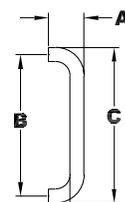


# 8103HD

## Solid door pull - 1" round

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 8", 10", 12"  |
| Material substrate | Made from solid aluminum (6061-T6 Alloy), brass or stainless steel (304 Series)   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ Heavy duty mounting hardware exceeds industry standards</li> <li>▪ 3/8-16 mounting hardware</li> <li>▪ Specify door thickness                             <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>- Optional package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers (STD - mount)</li> <li>▪ Optional mounting hardware available (see general information section for details) A, F, G, I, L, N, O, P, Q, X</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |



### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" | Offset "D" |
|----------------|----------------|-----------|----------------------|--------------------|------------|
| 8103HD-8       | 2 1/2"         | 1 1/2"    | 8"                   | 9"                 | 4 1/4"     |
| 8103HD-0       | 2 1/2"         | 1 1/2"    | 10"                  | 11"                | 4 1/4"     |
| 8103HD-2       | 2 1/2"         | 1 1/2"    | 12"                  | 13"                | 4 1/4"     |

### Finishes

| BHMA     | Description                    | Substrate       | Finish       |
|----------|--------------------------------|-----------------|--------------|
| 605      | Bright Brass                   | Brass           | US3          |
| 606      | Satin Brass                    | Brass           | US4          |
| 612      | Satin Bronze                   | Brass           | US10         |
| 613      | Oil Rubbed Bronze              | Brass           | US10B        |
| 619      | Satin Nickel                   | Stainless Steel | US15         |
| 625      | Bright Chrome                  | Brass           | US26         |
| 626      | Satin Chrome                   | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial     | Brass           | US26D-AM     |
| 628      | Satin Aluminum, Clear Anodized | Aluminum        | US28         |
| 629      | Bright Stainless               | Stainless steel | US32         |
| 630      | Satin Stainless                | Stainless steel | US32D        |
| 630-AM   | Satin Stainless Antimicrobial  | Stainless steel | US32D-AM     |
| 631      | Matte Black                    | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                    | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat        | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSGL (glass doors)
- Custom lengths are available as engineering special, consult customer service

## Pulls, push bars and plates

### Architectural pulls and push bars

# 8103EZHD

## Solid door pull - 1" round, large 2 1/2" clearance for the accessibility applications

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 8", 10", 12"  |
| Material substrate | <ul style="list-style-type: none"> <li>Made from solid aluminum (6061-T6 Alloy), brass, or stainless steel (316 Series)</li> <li>316 Series stainless steel standard, exceeding industry standards for corrosion resistance</li> <li>Recommended for external applications</li> </ul>   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li>3/8-16 mounting hardware</li> <li>Specify door thickness               <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Optional package available for 2" and 2 1/4" thick doors.</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers (STD - mount)</li> <li>Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA 156.06</li> <li>Complies with ADA and barrier free applications</li> </ul>   |

### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8103EZHD-8     | 3 1/2"         | 2 1/2"    | 8"                   | 9"                 |
| 8103EZHD-0     | 3 1/2"         | 2 1/2"    | 10"                  | 11"                |
| 8103EZHD-2     | 3 1/2"         | 2 1/2"    | 12"                  | 13"                |

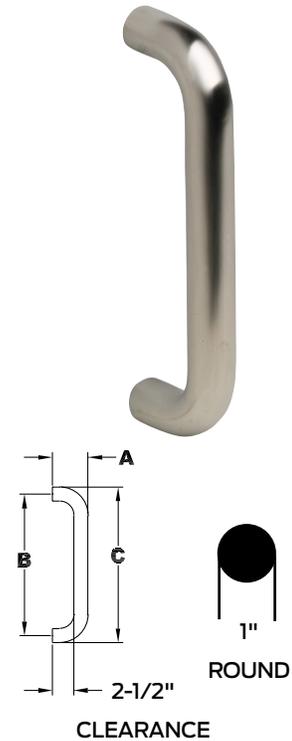
### Finishes

| BHMA     | Description                    | Substrate       | Finish       |
|----------|--------------------------------|-----------------|--------------|
| 605      | Bright Brass                   | Brass           | US3          |
| 606      | Satin Brass                    | Brass           | US4          |
| 612      | Satin Bronze                   | Brass           | US10         |
| 613      | Oil Rubbed Bronze              | Brass           | US10B        |
| 619      | Satin Nickel                   | Stainless Steel | US15         |
| 625      | Bright Chrome                  | Brass           | US26         |
| 626      | Satin Chrome                   | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial     | Brass           | US26D-AM     |
| 628      | Satin Aluminum, Clear Anodized | Aluminum        | US28         |
| 629-316  | Bright Stainless               | Stainless steel | 32-316       |
| 630-316  | Satin Stainless                | Stainless steel | 32D-316      |
| 630-AM   | Satin Stainless Antimicrobial  | Stainless steel | US32D-AM     |
| 631      | Matte Black                    | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                    | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat        | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSG (glass doors)
- Custom lengths are available as engineering special, consult customer service

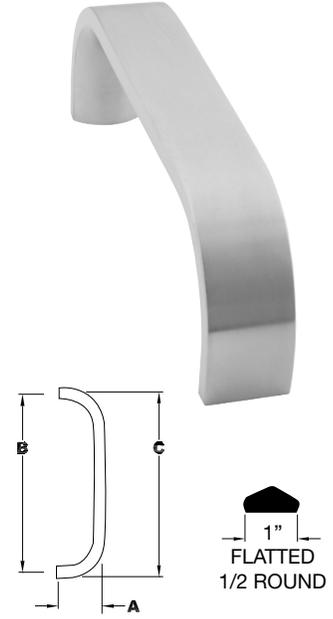


# 8105

## Solid door pull - 1" flattened

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 8", 10", 12"   |
| Material substrate | Made from brass, or stainless steel (304 Series)   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ 1/4"-20 mounting hardware</li> <li>▪ Specify door thickness                             <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>- Optional package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers (STD - mount)</li> <li>▪ Optional mounting hardware available (see general information section for details) F</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06   |



### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8105-6         | 2"             | 1 1/2"    | 6"                   | 6 1/2"             |
| 8105-8         | 2"             | 1 1/2"    | 8"                   | 8 1/2"             |
| 8105-0         | 2"             | 1 1/2"    | 10"                  | 10 1/2"            |

### Finishes

| BHMA   | Description                   | Substrate       | Finish       |
|--------|-------------------------------|-----------------|--------------|
| 605    | Bright Brass                  | Brass           | US3          |
| 606    | Satin Brass                   | Brass           | US4          |
| 612    | Satin Bronze                  | Brass           | US10         |
| 613    | Oil Rubbed Bronze             | Brass           | US10B        |
| 619    | Satin Nickel                  | Stainless steel | US15         |
| 625    | Bright Chrome                 | Brass           | US26         |
| 626    | Satin Chrome                  | Brass           | US26D        |
| 626-AM | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 629    | Bright Stainless              | Stainless steel | US32         |
| 630    | Satin Stainless               | Stainless steel | US32D        |
| 630-AM | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631    | Matte Black                   | Stainless steel | BLK          |
| 695    | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

Custom lengths are available as engineering special, consult customer service.

## Pulls, push bars and plates

### Architectural pulls and push bars

# 8145EZHD

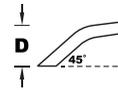
## 45° Offset solid door pull

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 8", 10", 12", 18"  |
| Material substrate | <ul style="list-style-type: none"> <li>Made from brass, or stainless steel (316 Series)</li> <li>316 Series stainless steel standard, exceeding industry standards for corrosion resistance</li> <li>Recommended for external applications</li> </ul>  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li><math>\frac{3}{8}</math>-16 mounting hardware</li> <li>Specify door thickness           <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 <math>\frac{1}{2}</math>" to 1 <math>\frac{3}{4}</math>" unless otherwise specified</li> <li>Optional package available for 2" and 2 <math>\frac{1}{4}</math>" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers (STD - mount)</li> <li>Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA 156.06</li> <li>Complies with ADA and barrier free applications</li> </ul>  |



ROUND



### Dimensions

| Product number | Projection "A"    | Clearance         | Center to center "B" | Overall length "C" | Offset "D"        |
|----------------|-------------------|-------------------|----------------------|--------------------|-------------------|
| 8145EZHD-8     | 3 $\frac{1}{2}$ " | 2 $\frac{1}{2}$ " | 8"                   | 9"                 | 2 $\frac{1}{2}$ " |
| 8145EZHD-0     | 3 $\frac{1}{2}$ " | 2 $\frac{1}{2}$ " | 10"                  | 11"                | 2 $\frac{1}{2}$ " |
| 8145EZHD-2     | 3 $\frac{1}{2}$ " | 2 $\frac{1}{2}$ " | 12"                  | 13"                | 2 $\frac{1}{2}$ " |
| 8145EZHD-18    | 3 $\frac{1}{2}$ " | 2 $\frac{1}{2}$ " | 18"                  | 19"                | 2 $\frac{1}{2}$ " |

### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Stainless steel | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 629-316  | Bright Stainless              | Stainless steel | 32-316       |
| 630-316  | Satin Stainless               | Stainless steel | 32D-316      |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSGL (glass doors)
- Custom lengths are available as engineering special, consult customer service

# 8190HD

## 90° Offset solid door pull

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 8", 10", 12", 18"   |
| Material substrate | Made from brass, or stainless steel (316 Series)  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ Heavy duty mounting hardware exceeds industry standards</li> <li>▪ 3/8-16 mounting hardware</li> <li>▪ Specify door thickness.                             <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>- Optional package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers (STD - mount)</li> <li>▪ Optional mounting hardware available (see general information section for details)<br/>A, F, I, L, N, O, P, Q, X</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" | Offset "D" |
|----------------|----------------|-----------|----------------------|--------------------|------------|
| 8190HD-8       | 3 1/4"         | 2 1/4"    | 8"                   | 9"                 | 4 1/4"     |
| 8190HD-0       | 3 1/4"         | 2 1/4"    | 10"                  | 11"                | 4 1/4"     |
| 8190HD-2       | 3 1/4"         | 2 1/4"    | 12"                  | 13"                | 4 1/4"     |
| 8190HD-18      | 3 1/4"         | 2 1/4"    | 18"                  | 19"                | 4 1/4"     |

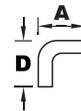
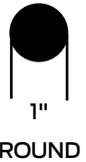
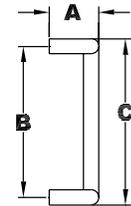
### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Stainless steel | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 629      | Bright Stainless              | Stainless steel | US32         |
| 630      | Satin Stainless               | Stainless steel | US32D        |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSGL (glass doors)
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Architectural pulls and push bars

# 8190EZHD

## 90° Offset solid door pull

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 8", 10", 12", 18"   |
| Material substrate | <ul style="list-style-type: none"> <li>Made from brass, or stainless steel (316 Series)</li> <li>316 Series stainless steel standard, exceeding industry standards for corrosion resistance</li> <li>Recommended for external applications</li> </ul>   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li><math>\frac{3}{8}</math>-16 mounting hardware</li> <li>Specify door thickness               <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of <math>1\frac{1}{2}</math>" to <math>1\frac{3}{4}</math>" unless otherwise specified</li> <li>Optional package available for 2" and <math>2\frac{1}{4}</math>" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers (STD - mount)</li> <li>Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA 156.06</li> <li>Complies with ADA and barrier free applications</li> </ul>   |

### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" | Offset "D" |
|----------------|----------------|-----------|----------------------|--------------------|------------|
| 8190EZHD-8     | 3 1/2"         | 2 1/2"    | 8"                   | 9"                 | 4 1/4"     |
| 8190EZHD-0     | 3 1/2"         | 2 1/2"    | 10"                  | 11"                | 4 1/4"     |
| 8190EZHD-2     | 3 1/2"         | 2 1/2"    | 12"                  | 13"                | 4 1/4"     |
| 8190EZHD-18    | 3 1/2"         | 2 1/2"    | 18"                  | 19"                | 4 1/4"     |

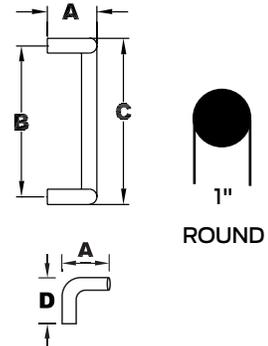
### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Stainless steel | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 629-316  | Bright Stainless              | Stainless steel | 32-316       |
| 630-316  | Satin Stainless               | Stainless steel | 32D-316      |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

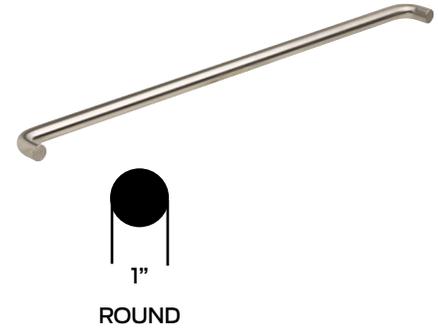
### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSG (glass doors)
- Custom lengths are available as engineering special, consult customer service



# 9100HD

## Solid push bar



### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | <ul style="list-style-type: none"> <li>Available in standard lengths of 28" and 33"</li> <li>Also available in whole 1" increments from 25" to 45"</li> <li>Other lengths available as engineering special, consult customer service</li> </ul>   |
| Material substrate | <ul style="list-style-type: none"> <li>Made from brass, or stainless steel (304 or 316 Series)</li> <li>316 Series Stainless Steel standard, exceeding industry standards for corrosion resistance</li> <li>Recommended for external applications</li> </ul>  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li>3/8-16 mounting hardware</li> <li>Specify door thickness                             <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Optional package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>Comes standard with type NS mounting</li> <li>Optional mounting hardware available (see general information section for details) A, F, I, L, N, NO, STD, O, P, PQ, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Dimensions

| Projection "A" | Clearance | Center to center "B" | Overall length "C"   |
|----------------|-----------|----------------------|----------------------|
| 2 1/2"         | 1 1/2"    | 25-45"               | Add 1" to CTC length |

### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Stainless steel | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 629      | Bright Stainless              | Stainless steel | US32         |
| 629-316  | Bright Stainless              | Stainless steel | 32-316       |
| 630      | Satin Stainless               | Stainless steel | US32D        |
| 630-316  | Satin Stainless               | Stainless steel | 32D-316      |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of push bars for back to back mounting
- For one back to back machined push bar, specify NSGL or PSGL (glass doors)
- Specify STD, A, F, I L, O or Q when planning to mount push bar alone
- Specify NS, NO, or PQ when using as a part of a push pull combination

### Caution

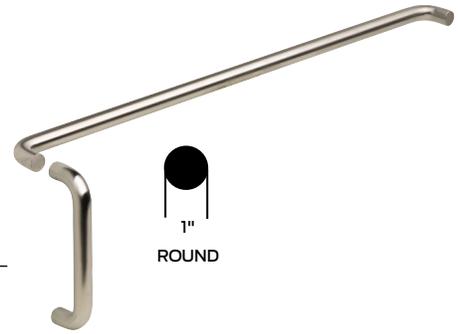
The length of push bar should not interfere with the door jamb or cause a pinch point.

## Pulls, push bars and plates

### Architectural pulls and push bars

# 9103EZHD

## Solid straight pull/push bar combo (8103EZHD pull + 9100HD push)



### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | <ul style="list-style-type: none"> <li>Available in standard lengths of 28" and 33"</li> <li>Also available in whole 1" increments from 25" to 45"</li> <li>Other lengths available as engineering special, consult customer service</li> </ul>   |
| Material substrate | <ul style="list-style-type: none"> <li>Made from brass, or stainless steel (316 Series)</li> <li>316 Series stainless steel standard, exceeding industry standards for corrosion resistance</li> <li>Recommended for external applications</li> </ul>   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li><math>\frac{3}{8}</math>-16 mounting hardware</li> <li>Specify door thickness               <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 <math>\frac{1}{2}</math>" to 1 <math>\frac{3}{4}</math>" unless otherwise specified</li> <li>Optional package available for 2" and 2 <math>\frac{1}{4}</math>" thick doors</li> </ul> </li> <li>Comes standard with type NS mounting</li> <li>Optional mounting hardware available (see general information section for details) NO, PQ</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA 156.06</li> <li>Pull side complies with ADA and barrier free applications</li> </ul>   |

### Dimensions

| Product number | CTC push  | CTC pull | Projection push and pull                |
|----------------|-----------|----------|---|
| 9103EZHD       | 25 to 45" | 8"       | 2 $\frac{1}{2}$ " and 3 $\frac{1}{2}$ " |
| 9103EZHD       | 25 to 45" | 10"      | 2 $\frac{1}{2}$ " and 3 $\frac{1}{2}$ " |
| 9103EZHD       | 25 to 45" | 12"      | 2 $\frac{1}{2}$ " and 3 $\frac{1}{2}$ " |

### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Stainless steel | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 629-316  | Bright Stainless              | Stainless steel | 32-316       |
| 630-316  | Satin Stainless               | Stainless steel | 32D-316      |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

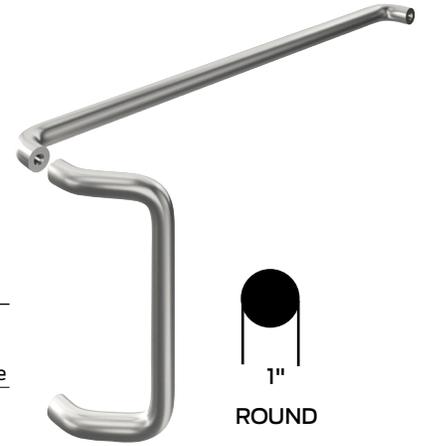
Note: For other colors, consult factory.

### Caution

The length of push bar should not interfere with the door jamb or cause a pinch point.

# 9145EZHD

**45° Offset pull/push bar combo**  
**(8145HD pull + 9100HD push)**



## Specifications

|                    |  |
|--------------------|--|
| Available sizes    | <ul style="list-style-type: none"> <li>Available in standard lengths of 28" and 33"</li> <li>Also available in whole 1" increments from 25" to 45"</li> <li>Other lengths available as engineering special, consult customer service</li> </ul>  |
| Material substrate | <ul style="list-style-type: none"> <li>Made from brass, or stainless steel (316 Series)</li> <li>316 Series stainless steel standard, exceeding industry standards for corrosion resistance</li> <li>Recommended for external applications</li> </ul>  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li><sup>3</sup>/<sub>8</sub>-16 mounting hardware</li> <li>Specify door thickness                             <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Optional package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>Comes standard with type NS mounting.</li> <li>Optional mounting hardware available (see general information section for details) NO, PQ</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA 156.06</li> <li>Pull side complies with ADA and barrier free applications</li> </ul>  |

## Dimensions

| Product number | CTC push  | CTC pull | Projection push and pull |
|----------------|-----------|----------|--------------------------|
| 9145EZHD       | 25 to 45" | 8"       | 2 1/2" and 3 1/2"        |
| 9145EZHD       | 25 to 45" | 10"      | 2 1/2" and 3 1/2"        |
| 9145EZHD       | 25 to 45" | 12"      | 2 1/2" and 3 1/2"        |
| 9145EZHD       | 25 to 45" | 18"      | 2 1/2" and 3 1/2"        |

## Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Stainless steel | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 629-316  | Bright Stainless              | Stainless steel | 32-316       |
| 630-316  | Satin Stainless               | Stainless steel | 32D-316      |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

## Caution

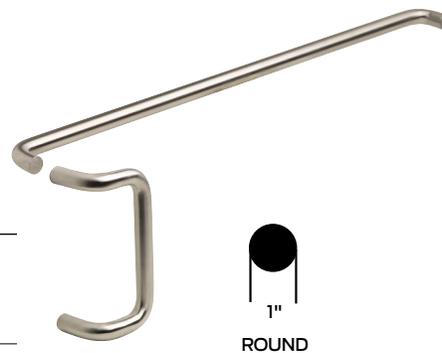
The length of push bar should not interfere with the door jamb or cause a pinch point.

## Pulls, push bars and plates

### Architectural pulls and push bars

# 9190HD

## Solid 90° offset pull/push bar combo (8190HD pull + 9100HD push)



### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | <ul style="list-style-type: none"> <li>Available in standard lengths of 28" and 33"</li> <li>Also available in whole 1" increments from 25" to 45"</li> <li>Other lengths available as engineering special, consult customer service</li> </ul>  |
| Material substrate | Made from brass, or stainless steel (304 Series)   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li><math>\frac{3}{8}</math>-16 mounting hardware</li> <li>Specify door thickness               <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 <math>\frac{1}{2}</math>" to 1 <math>\frac{3}{4}</math>" unless otherwise specified</li> <li>Optional package available for 2" and 2 <math>\frac{1}{4}</math>" thick doors</li> </ul> </li> <li>Comes Standard with type NS mounting.</li> <li>Optional mounting hardware available (see general information section for details) NO, PQ</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06   |

### Dimensions

| Product number | CTC push  | CTC pull | Projection push and pull                |
|----------------|-----------|----------|---|
| 9190EZHD       | 25 to 45" | 8"       | 2 $\frac{1}{2}$ " and 3 $\frac{1}{4}$ " |
| 9190EZHD       | 25 to 45" | 10"      | 2 $\frac{1}{2}$ " and 3 $\frac{1}{4}$ " |
| 9190EZHD       | 25 to 45" | 12"      | 2 $\frac{1}{2}$ " and 3 $\frac{1}{4}$ " |
| 9190EZHD       | 25 to 45" | 18"      | 2 $\frac{1}{2}$ " and 3 $\frac{1}{4}$ " |

### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Stainless steel | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 629      | Bright Stainless              | Stainless steel | US32         |
| 630      | Satin Stainless               | Stainless steel | US32D        |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Caution

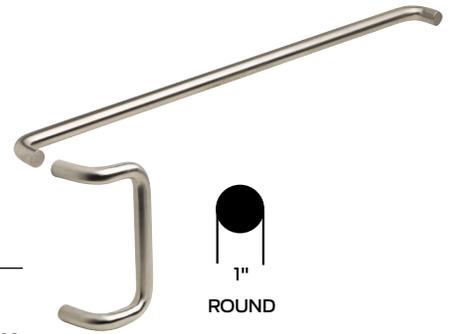
The length of push bar should not interfere with the door jamb or cause a pinch point.

## Pulls, push bars and plates

### Decorative pulls

# 9190EZHD

## Solid 90° offset pull/push bar combo (8190EZHD pull + 9100HD push)



### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | <ul style="list-style-type: none"><li>Available in standard lengths of 28" and 33"</li><li>Also available in whole 1" increments from 25" to 45"</li><li>Other lengths available as engineering special, consult customer service</li></ul>  |
| Material substrate | <ul style="list-style-type: none"><li>Made from brass, or stainless steel (316 Series)</li><li>316 Series stainless steel standard, exceeding industry standards for corrosion resistance</li><li>Recommended for external applications</li></ul>  |
| Mounting hardware  | <ul style="list-style-type: none"><li>Heavy duty mounting hardware exceeds industry standards</li><li><math>\frac{3}{8}</math>-16 mounting hardware</li><li>Specify door thickness<ul style="list-style-type: none"><li>Standard mounting hardware for door thickness of 1 <math>\frac{1}{2}</math>" to 1 <math>\frac{3}{4}</math>" unless otherwise specified</li><li>Optional package available for 2" and 2 <math>\frac{1}{4}</math>" thick doors</li></ul></li><li>Comes standard with type NS mounting.</li><li>Optional mounting hardware available (see general information section for details) NO, PQ</li><li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li></ul> |
| Certifications     | <ul style="list-style-type: none"><li>Meets ANSI/BHMA 156.06</li><li>Pull side complies with ADA and barrier free applications</li></ul>   |

### Dimensions

| Product number | CTC push  | CTC pull | Projection push and pull                |
|----------------|-----------|----------|---|
| 9190EZHD       | 25 to 45" | 8"       | 2 $\frac{1}{2}$ " and 3 $\frac{1}{2}$ " |
| 9190EZHD       | 25 to 45" | 10"      | 2 $\frac{1}{2}$ " and 3 $\frac{1}{2}$ " |
| 9190EZHD       | 25 to 45" | 12"      | 2 $\frac{1}{2}$ " and 3 $\frac{1}{2}$ " |
| 9190EZHD       | 25 to 45" | 18"      | 2 $\frac{1}{2}$ " and 3 $\frac{1}{2}$ " |

### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Stainless steel | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 629-316  | Bright Stainless              | Stainless steel | 32-316       |
| 630-316  | Satin Stainless               | Stainless steel | 32D-316      |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Caution

The length of push bar should not interfere with the door jamb or cause a pinch point.

## Pulls, push bars and plates

### Decorative pulls

# 8111-5

## Solid door pull

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 5 1/4"  |
| Material substrate | Made from solid aluminum (6061-T6 Alloy), brass, or stainless steel (304 Series)  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>1/4"-20 mounting hardware</li> <li>Specify door thickness</li> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Optional package available for 2" and 2 1/4" thick doors</li> <li>Comes standard with through bolt screws and decorative washers</li> <li>Optional mounting hardware available (see general information section for details) F, G</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

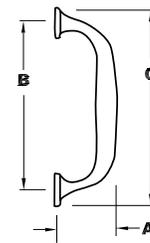
### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8111-5         | 1 13/16"       | 1 3/16"   | 5 1/4"               | 6 1/4"             |

### Finishes

| BHMA   | Description                    | Substrate       | Finish   |
|--------|--------------------------------|-----------------|----------|
| 605    | Bright Brass                   | Brass           | US3      |
| 606    | Satin Brass                    | Brass           | US4      |
| 612    | Satin Bronze                   | Brass           | US10     |
| 613    | Oil Rubbed Bronze              | Brass           | US10B    |
| 619    | Satin Nickel                   | Stainless steel | US15     |
| 625    | Bright Chrome                  | Brass           | US26     |
| 626    | Satin Chrome                   | Brass           | US26D    |
| 626-AM | Satin Chrome Antimicrobial     | Brass           | US26D-AM |
| 628    | Satin Aluminum, Clear Anodized | Aluminum        | US28     |
| 630    | Satin Stainless                | Stainless steel | US32D    |
| 630-AM | Satin Stainless Antimicrobial  | Stainless steel | US32D-AM |
| 631    | Matte Black                    | Stainless steel | BLK      |

Note: For other colors, consult factory.



# 8112-5

## Solid door pull

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 5 5/8"   |
| Material substrate | Made from brass  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>8 x 1" wood screws</li> <li>Surface mount only</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06   |

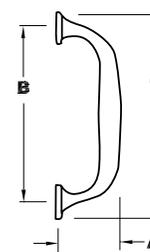
### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8112-5         | 2 13/16"       | 1 7/16"   | 5 5/8"               | 7 1/2"             |

### Finishes

| BHMA   | Description                | Substrate | Finish   |
|--------|----------------------------|-----------|----------|
| 626    | Satin Chrome               | Brass     | US26D    |
| 626-AM | Satin Chrome Antimicrobial | Brass     | US26D-AM |

Note: For other colors, consult factory.



## Pulls, push bars and plates

### Decorative pulls

# 8121

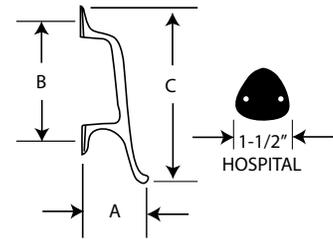
### Solid door pull

#### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 5 3/4"  |
| Material substrate | Made solid brass  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>8-32 x 1" machine screw and #8 x 1" wood screw</li> <li>Specify door thickness                             <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> </ul> </li> <li>Supplied standard with K mounting hardware; optional mounting hardware available (see general information section for details)</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

#### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8121-5         | 3 1/2"         | 1 7/16"   | 5 3/4"               | 8 3/4"             |



# 8169

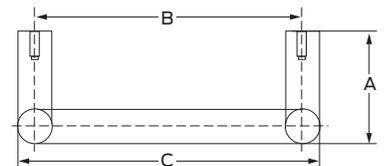
### C style (tubular series) offset solid door pull

#### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 10", 12"; 1" Diameter pull bar  |
| Material substrate | Made from brass or stainless steel (304 Series)   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li>3/8"-16 mounting hardware</li> <li>Specify door thickness                             <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers.</li> <li>Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

#### Dimensions

| Product number | Projection "A" | Clearance | Offset | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|--------|----------------------|--------------------|
| 8169-0         | 3"             | 2"        | 6 1/2" | 10                   | 11                 |
| 8169-2         | 3"             | 2"        | 6 1/2" | 12                   | 13                 |



#### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSGL (glass doors)
- Custom lengths are available as engineering special, consult customer service

#### 8121 and 8169 finishes

| BHMA    | Description                | Substrate       | Finish   |
|---------|----------------------------|-----------------|----------|
| 605     | Bright brass               | Brass           | US3      |
| 613     | Oil rubbed bronze          | Brass           | US10B    |
| 619     | Satin nickel               | Brass           | US15     |
| 625     | Bright chrome              | Brass           | US26     |
| 626*    | Satin chrome               | Brass           | US26D    |
| 626-AM* | Satin Chrome Antimicrobial | Brass           | US26D-AM |
| 630     | Satin stainless            | Stainless steel | US32D    |
| 631     | Matte black                | Stainless steel | BLK      |

Note: For other colors, consult factory.  
\*8121 only available in these finishes.



Introduction  
Table of contents  
Hinges and pivots  
Pulls, push bars and plates  
Flush bolts, strikes and coordinators  
Latches, catches and bolts  
Door stops, holders and silencers  
Exterior hardware  
Miscellaneous hardware

## Pulls, push bars and plates

### Decorative pulls

# 8181

## Georgian 90° offset solid door pull

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 12", 16", 18"; 1" Round pull (grip area 1 1/4")   |
| Material substrate | Made from solid aluminum, brass or stainless steel (304 Series)   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ Heavy duty mounting hardware exceeds industry standards</li> <li>▪ 3/8"-16 mounting hardware</li> <li>▪ Specify door thickness               <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>- Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers.</li> <li>▪ Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X               <ul style="list-style-type: none"> <li>- Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> </li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Dimensions

| Product number | Projection "A" | Clearance | Offset "D" | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|------------|----------------------|--------------------|
| 8181-2         | 3 1/8"         | 1 7/8"    | 4"         | 12"                  | 12 3/4"            |
| 8181-16        | 3 1/8"         | 1 7/8"    | 4"         | 16"                  | 16 3/4"            |
| 8181-18        | 3 1/8"         | 1 7/8"    | 4"         | 18"                  | 18 3/4"            |

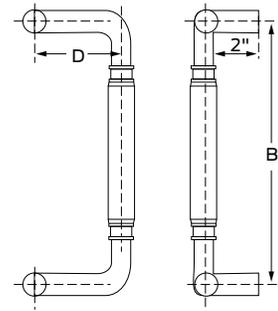
### Finishes

| BHMA | Description                    | Substrate       | Finish |
|------|--------------------------------|-----------------|--------|
| 605  | Bright Brass                   | Brass           | US3    |
| 613  | Oil Rubbed Bronze              | Brass           | US10B  |
| 619  | Satin Nickel                   | Brass           | US15   |
| 625  | Bright Chrome                  | Brass           | US26   |
| 626  | Satin Chrome                   | Brass           | US26D  |
| 628  | Satin Aluminum, Clear Anodized | Aluminum        | US28   |
| 630  | Satin Stainless                | Stainless steel | US32D  |
| 631  | Matte Black                    | Stainless steel | BLK    |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSGGL (glass doors)
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Decorative pulls

# 8189

### Athens offset tubular door pull

#### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 19 <sup>3</sup> / <sub>16</sub> " ; 1 <sup>1</sup> / <sub>4</sub> " Diameter pull bar with 1 <sup>1</sup> / <sub>4</sub> " diameter mounting posts   |
| Material substrate | Made from brass or stainless steel (304 Series)  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ Heavy duty mounting hardware exceeds industry standards</li> <li>▪ 3/8-16 mounting hardware</li> <li>▪ Specify door thickness                             <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 <sup>1</sup>/<sub>2</sub>" to 1 <sup>3</sup>/<sub>4</sub>" unless otherwise specified</li> <li>- Accessory package available for 2" and 2 <sup>1</sup>/<sub>4</sub>" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers.</li> <li>▪ Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06   |

#### Dimensions

| Product number | Projection "A"                  | Clearance                       | Offset "D"                      | Center to center "B"               | Overall length "C"               |
|----------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|----------------------------------|
| 8181-19        | 2 <sup>5</sup> / <sub>8</sub> " | 1 <sup>3</sup> / <sub>8</sub> " | 1 <sup>1</sup> / <sub>2</sub> " | 19 <sup>13</sup> / <sub>16</sub> " | 29 <sup>1</sup> / <sub>2</sub> " |

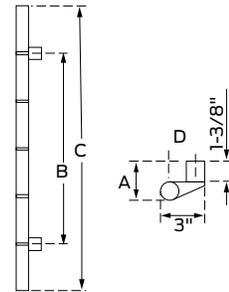
#### Finishes

| BHMA | Description       | Substrate       | Finish |
|------|-------------------|-----------------|--------|
| 605  | Bright Brass      | Brass           | US3    |
| 613  | Oil Rubbed Bronze | Brass           | US10B  |
| 619  | Satin Nickel      | Brass           | US15   |
| 625  | Bright Chrome     | Brass           | US26   |
| 626  | Satin Chrome      | Brass           | US26D  |
| 630  | Satin Stainless   | Stainless steel | US32D  |
| 631  | Matte Black       | Stainless steel | BLK    |

Note: For other colors, consult factory.

#### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSGL (glass doors)
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Decorative pulls

# 8281

## Georgian straight solid door pull

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 12", 16", 18"; 1" Round pull (grip area 1 1/4")  |
| Material substrate | Made from solid aluminum, brass or stainless steel (304 Series)  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ Heavy duty mounting hardware exceeds industry standards</li> <li>▪ 3/8-16 mounting hardware</li> <li>▪ Specify door thickness               <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>- Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers.</li> <li>▪ Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06   |

### Dimensions

| Product number | Projection "A" | Clearance | Offset "D" | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|------------|----------------------|--------------------|
| 8281-2         | 3 1/8"         | 1 7/8"    | 4"         | 12"                  | 12 3/4"            |
| 8281-16        | 3 1/8"         | 1 7/8"    | 4"         | 16"                  | 16 3/4"            |
| 8281-18        | 3 1/8"         | 1 7/8"    | 4"         | 18"                  | 18 3/4"            |

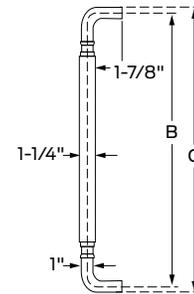
### Finishes

| BHMA | Description                    | Substrate       | Finish |
|------|--------------------------------|-----------------|--------|
| 605  | Bright Brass                   | Brass           | US3    |
| 613  | Oil Rubbed Bronze              | Brass           | US10B  |
| 619  | Satin Nickel                   | Brass           | US15   |
| 625  | Bright Chrome                  | Brass           | US26   |
| 626  | Satin Chrome                   | Brass           | US26D  |
| 628  | Satin Aluminum, Clear Anodized | Aluminum        | US28   |
| 630  | Satin Stainless                | Stainless steel | US32D  |
| 631  | Matte Black                    | Stainless steel | BLK    |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or QSG (glass doors)
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Decorative pulls

# 8312

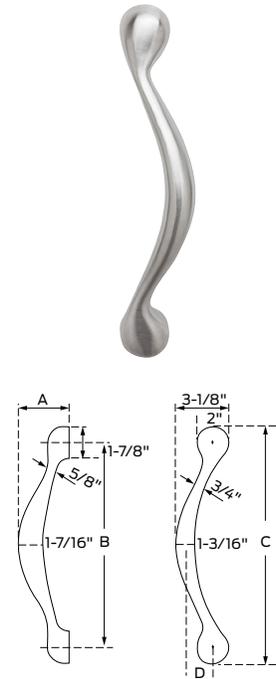
## Plymouth offset solid door pull

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 12"; 1 7/16" Max grip diameter   |
| Material substrate | Made from brass or stainless steel (304 Series)  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li>3/8"-16 mounting hardware</li> <li>Specify door thickness                             <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers</li> <li>Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06   |

### Dimensions

| Product number | Projection "A" | Clearance | Offset "D" | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|------------|----------------------|--------------------|
| 8312-2         | 3"             | 1 9/16"   | 1 1/2"     | 12"                  | 14"                |



# 8320

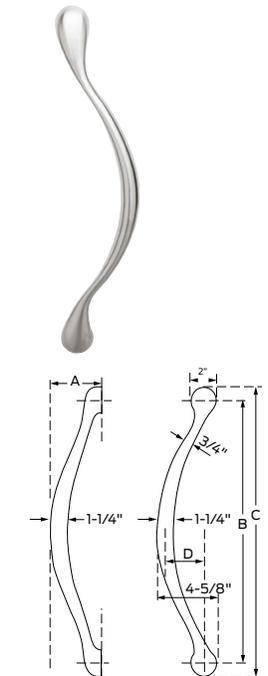
## Plymouth offset solid door pull

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 12"; 1 7/16" Max grip diameter  |
| Material substrate | Made from brass or stainless steel (304 Series)   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li>3/8"-16 mounting hardware</li> <li>Specify door thickness                             <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers</li> <li>Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service.</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Dimensions

| Product number | Projection "A" | Clearance | Offset "D" | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|------------|----------------------|--------------------|
| 8320-20        | 3 7/8"         | 2 5/8"    | 2 7/8"     | 20"                  | 22"                |



### Additional information (8312 and 8320 models)

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or QSG (glass doors)
- Custom lengths are available as engineering special, consult customer service

### 8312 and 8320 Finishes

| BHMA | Description       | Substrate       | Finish |
|------|-------------------|-----------------|--------|
| 605  | Bright Brass      | Brass           | US3    |
| 613  | Oil Rubbed Bronze | Brass           | US10B  |
| 619  | Satin Nickel      | Brass           | US15   |
| 625  | Bright Chrome     | Brass           | US26   |
| 626  | Satin Chrome      | Brass           | US26D  |
| 630  | Satin Stainless   | Stainless steel | US32D  |
| 631  | Matte Black       | Stainless steel | BLK    |

Note: For other colors, consult factory.

## Pulls, push bars and plates

### Decorative pulls

# 8371

## Addison flat tip straight solid door pull

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 12", 18", 24"; 1" Round pull with 1 1/4" base mounting posts  |
| Material substrate | Made from solid brass   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li>3/8"-16" mounting hardware</li> <li>Specify door thickness           <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers</li> <li>Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8371-2         | 3 7/16"        | 2"        | 12"                  | 16"                |
| 8371-18        | 3 7/16"        | 2"        | 18"                  | 22"                |
| 8371-24        | 3 7/16"        | 2"        | 24"                  | 28"                |

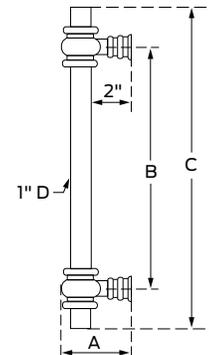
### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright brass      | Brass     | US3    |
| 613  | Oil rubbed bronze | Brass     | US10B  |
| 619  | Satin nickel      | Brass     | US15   |
| 622  | Matte black       | Brass     | BLK    |
| 625  | Bright chrome     | Brass     | US26   |
| 626  | Satin chrome      | Brass     | US26D  |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSG (glass doors)
- Custom lengths are available as engineering special, consult customer service



# 8372

## Camelot steeple tip straight tubular door pull

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 12", 18", 24"; 1" Round pull with 2" base mounting posts   |
| Material substrate | Made from brass  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li>5/16"-18 mounting hardware</li> <li>Specify door thickness                             <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers. Optional mounting hardware available (see general information section for details) F, I, J, L, O, P</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06   |

### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8372-2         | 2 7/8"         | 1 7/8"    | 12"                  | 17"                |
| 8372-18        | 2 7/8"         | 1 7/8"    | 18"                  | 23"                |
| 8372-24        | 2 7/8"         | 1 7/8"    | 24"                  | 29"                |

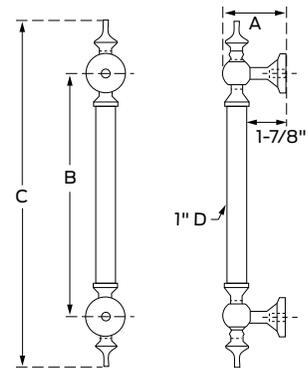
### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright brass      | Brass     | US3    |
| 613  | Oil rubbed bronze | Brass     | US10B  |
| 619  | Satin nickel      | Brass     | US15   |
| 622  | Matte black       | Brass     | BLK    |
| 625  | Bright chrome     | Brass     | US26   |
| 626  | Satin chrome      | Brass     | US26D  |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify JSGL
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Decorative pulls

# 8373

## Brookshire acorn tip straight tubular door pull

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 12", 18", 24"; 1" Round pull with 2" base mounting posts  |
| Material substrate | Made from brass   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li><math>\frac{5}{16}</math>-18 mounting hardware</li> <li>Specify door thickness           <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of <math>1\frac{1}{2}</math>" to <math>1\frac{3}{4}</math>" unless otherwise specified</li> <li>Accessory package available for 2" and <math>2\frac{1}{4}</math>" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers.</li> <li>Optional mounting hardware available (see general information section for details) F, I, J, L, O, P</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Dimensions

| Product number | Projection "A" | Clearance        | Center to center "B" | Overall length "C" |
|----------------|----------------|------------------|----------------------|--------------------|
| 8372-2         | 3"             | $1\frac{7}{8}$ " | 12"                  | $16\frac{5}{16}$ " |
| 8372-18        | 3"             | $1\frac{7}{8}$ " | 18"                  | $22\frac{5}{16}$ " |
| 8372-24        | 3"             | $1\frac{7}{8}$ " | 24"                  | $28\frac{5}{16}$ " |

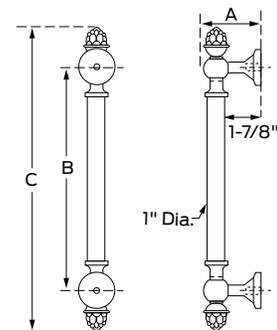
### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 622  | Matte Black       | Brass     | BLK    |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify JSGL
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Decorative pulls

# 8700

## Greenwich arc straight solid door pull

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 9", 12", 18", 24"; 3/4" Round pull  |
| Material substrate | Made from solid brass or stainless steel (304 Series)   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ 5/ 6-18 mounting hardware</li> <li>▪ Specify door thickness                             <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>- Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers</li> <li>▪ Optional mounting hardware available (see general information section for details) F, I, J, L, O, P</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service.</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8700-9         | 2 3/8"         | 1 1/2"    | 9"                   | 12 9/16"           |
| 8700-2         | 2 3/8"         | 1 1/2"    | 12"                  | 15 9/16"           |
| 8700-18        | 2 3/8"         | 1 3/4"    | 18"                  | 21 9/16"           |
| 8700-24        | 2 3/8"         | 1 3/4"    | 24"                  | 27 9/16"           |

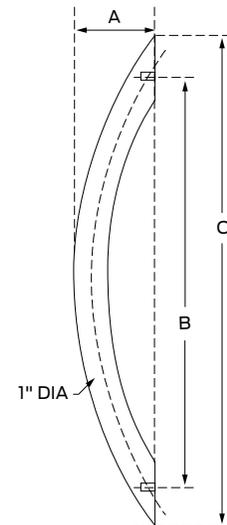
### Finishes

| BHMA | Description       | Substrate       | Finish |
|------|-------------------|-----------------|--------|
| 605  | Bright Brass      | Brass           | US3    |
| 613  | Oil Rubbed Bronze | Brass           | US10B  |
| 619  | Satin Nickel      | Brass           | US15   |
| 625  | Bright Chrome     | Brass           | US26   |
| 626  | Satin Chrome      | Brass           | US26D  |
| 630  | Satin Stainless   | Stainless steel | US32D  |
| 631  | Matte Black       | Stainless steel | BLK    |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify JSGL
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Decorative pulls

# 8800

## Greenwich arc offset solid door pull

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 9", 12", 18", 24"; 3/4" Round pull  |
| Material substrate | Made from solid brass or stainless steel (304 Series)   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ 1/4"-20 mounting hardware</li> <li>▪ Specify door thickness               <ul style="list-style-type: none"> <li>– Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>– Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers</li> <li>▪ Optional mounting hardware available (see general information section for details) F, I, J, L, O, P</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service.</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Dimensions

| Product number | Projection "A" | Clearance | Offset "D" | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|------------|----------------------|--------------------|
| 8800-9         | 2 1/8"         | 1 3/8"    | 1"         | 9"                   | 11 3/4"            |
| 8800-2         | 2 1/8"         | 1 3/8"    | 1"         | 12"                  | 14 3/4"            |
| 8800-18        | 2 1/8"         | 1 3/8"    | 1"         | 18"                  | 20 3/4"            |
| 8800-24        | 2 1/8"         | 1 3/8"    | 1"         | 24"                  | 26 3/4"            |

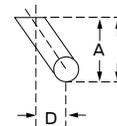
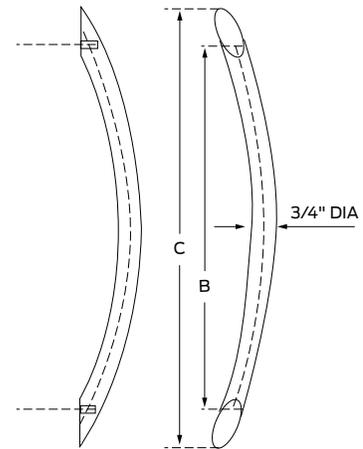
### Finishes

| BHMA | Description       | Substrate       | Finish |
|------|-------------------|-----------------|--------|
| 605  | Bright Brass      | Brass           | US3    |
| 613  | Oil Rubbed Bronze | Brass           | US10B  |
| 619  | Satin Nickel      | Brass           | US15   |
| 625  | Bright Chrome     | Brass           | US26   |
| 626  | Satin Chrome      | Brass           | US26D  |
| 630  | Satin Stainless   | Stainless steel | US32D  |
| 631  | Matte Black       | Stainless steel | BLK    |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify JSGL
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Decorative pulls

# 8848

### Latitude straight solid door pull

#### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 12"; 1" Round pull with 2" Round black mounting posts  |
| Material substrate | Made from solid brass or stainless steel (304 Series)  |
| Mounting hardware  | <ul style="list-style-type: none"><li>▪ Heavy duty mounting hardware exceeds industry standards</li><li>▪ <math>\frac{3}{8}</math>-16 mounting hardware</li><li>▪ Specify door thickness<ul style="list-style-type: none"><li>- Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li><li>- Accessory package available for 2" and 2 1/4" thick doors</li></ul></li><li>▪ Comes standard with through bolt screws and decorative washers</li><li>▪ Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li><li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li></ul> |
| Certifications     | Meets ANSI/BHMA 156.06   |

#### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8848-2         | 2 1/2"         | 1 1/2"    | 12"                  | 17"                |

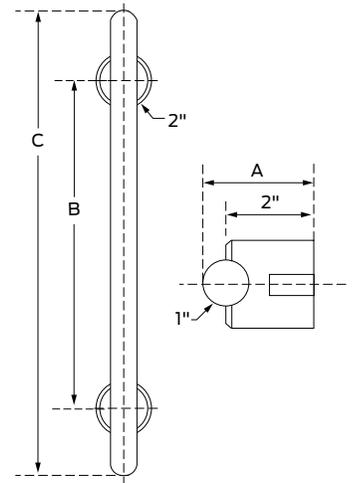
#### Finishes

| BHMA | Description       | Substrate       | Finish |
|------|-------------------|-----------------|--------|
| 605  | Bright Brass      | Brass           | US3    |
| 613  | Oil Rubbed Bronze | Brass           | US10B  |
| 619  | Satin Nickel      | Brass           | US15   |
| 625  | Bright Chrome     | Brass           | US26   |
| 626  | Satin Chrome      | Brass           | US26D  |
| 630  | Satin Stainless   | Stainless steel | US32D  |
| 631  | Matte Black       | Stainless steel | BLK    |

Note: For other colors, consult factory.

#### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSGL (glass doors)
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Long door pulls

# 8975

## Rhodes straight solid door pull

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 12"; 1 1/4" x 1/2" Flat pull with 3/4" round mounting posts  |
| Material substrate | Made from solid aluminum, brass or stainless steel (304 Series)  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ Heavy duty mounting hardware exceeds industry standards</li> <li>▪ 5/16"-18 mounting hardware</li> <li>▪ Specify door thickness               <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>- Accessory package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers</li> <li>▪ Optional mounting hardware available (see general information section for details) F, I, J, L, O, P</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06   |

### Dimensions

| Product number | Projection "A" | Clearance | Center to center "B" | Overall length "C" |
|----------------|----------------|-----------|----------------------|--------------------|
| 8975-2         | 2 1/4"         | 1 3/4"    | 12"                  | 18"                |

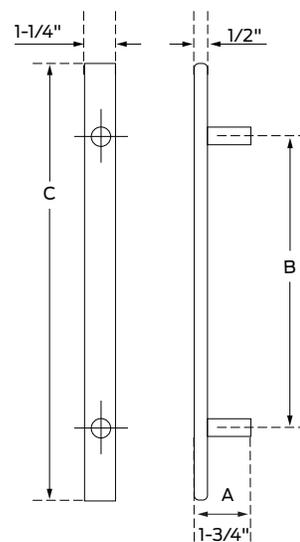
### Finishes

| BHMA | Description                    | Substrate | Finish |
|------|--------------------------------|-----------|--------|
| 628  | Satin Aluminum, Clear Anodized | Aluminum  | US28   |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify JSGL (glass doors)
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

### Long door pulls

# 9264/9266

## Long door pull, rounded tip (offset and straight models)

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | <ul style="list-style-type: none"> <li>1 1/4" Diameter tubular bar</li> <li>Round tip is standard</li> <li>Optional flat Tip (F) is available; specify F after model number when ordering</li> <li>Available in whole 1" increments from 12" to 96"</li> <li>Other lengths available as engineering special, consult customer service</li> </ul>  |
| Material substrate | <ul style="list-style-type: none"> <li>Made from brass or stainless steel (316 Series)</li> <li>316 Series Stainless Steel standard, exceeding industry standards for corrosion resistance</li> <li>Recommended for external applications</li> </ul>  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li>3/8-16 mounting hardware</li> <li>Specify door thickness                             <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>Optional package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers</li> <li>Optional mounting hardware available (see general information section for details) A, I, L, N, O, P, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul> |
| Certifications     | Meets ANSI/BHMA 156.06  |

### Standard lengths

| Product number | Projection | Clearance | Offset | Overall length | CTC |
|----------------|------------|-----------|--------|----------------|-----|
| 9264-72-56     | 2 3/4"     | 1 1/2"    | 1 5/8" | 72"            | 56" |
| 9264-36-20     | 2 3/4"     | 1 1/2"    | 1 5/8" | 36"            | 20" |
| 9264-24-18     | 2 3/4"     | 1 1/2"    | 1 5/8" | 24"            | 18" |
| 9264-18-12     | 2 3/4"     | 1 1/2"    | 1 5/8" | 18"            | 12" |
| 9264-12-8      | 2 3/4"     | 1 1/2"    | 1 5/8" | 12"            | 8"  |
| 9266-72-56     | 2 3/4"     | 1 1/2"    | —      | 72"            | 56" |
| 9266-36-20     | 2 3/4"     | 1 1/2"    | —      | 36"            | 20" |
| 9266-24-18     | 2 3/4"     | 1 1/2"    | —      | 24"            | 18" |
| 9266-18-12     | 2 3/4"     | 1 1/2"    | —      | 18"            | 12" |
| 9266-12-8      | 2 3/4"     | 1 1/2"    | —      | 12"            | 8"  |

### Finishes

| BHMA    | Description                   | Substrate       | Finish       |
|---------|-------------------------------|-----------------|--------------|
| 605     | Bright Brass                  | Brass           | US3          |
| 606     | Satin Brass                   | Brass           | US4          |
| 613     | Oil Rubbed Bronze             | Brass           | US10B        |
| 619     | Satin Nickel                  | Stainless steel | US15         |
| 629-316 | Bright Stainless              | Stainless steel | 32-316       |
| 630-316 | Satin Stainless               | Stainless steel | 32D-316      |
| 630-AM  | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631     | Matte Black                   | Stainless steel | BLK          |
| 695     | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- If not specified, standard center to center length for pulls 36" or longer is 16" less than total pull length (8" from each end of the pull); Center to center length must be specified for lengths less than 36"
  - Ex. 72" Long pull has a 56" center to center
- If the center to center length is less than half the total pull length, consult customer service
- Specify PR when ordering a set of push bars for back to back mounting
- For one back to back machined push bar, specify NSGL or PSGGL (glass doors)
- Additional mounting post required for lengths greater than 96"; Mid posts are optional for other lengths (specify mid post location when ordering)

### Caution

Recommend the length of the ladder pull should not exceed 4" less than the door height.



9266 Straight long door pull



9264 Offset bracket



Round tip (standard)



Flat tip (F option)

Note: A middle position bracket is required for pulls over 8 feet.

## Pulls, push bars and plates

### Hands-free door pulls

# 8122HD/8322HD

## Hands-free reversible arm pull (models with and without plate)

Ives hands-free door pulls allow for hands-free operation to promote a healthy environment. Ives offers pulls in a variety of styles and designs that enable pedestrians to operate the door with an arm, elbow or wrist to avoid contacting surfaces with their hands.

- Durable construction with rust-free brass for longevity
- Cost effective option is budget friendly
- Easily retrofits to existing openings
- Aesthetically pleasing designs to suite with building style
- 1" Round pull with 2" round mounting posts
- Patented, rounded design enables safe and comfortable hands-free use
- Flexibility to open with forearm or wrist at top of bottom of pull
- Reversible design allows for flexible install toward hinge or latch side
- 8322HD available with 4 x 16" or 6 x 16" pull plate
- Available in 8" or 10" center to center



### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Brass   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ UL10C listed for 3-hours - F, I, L mounted pull only</li> <li>▪ ADA Compliant design</li> </ul>  |
| Size               | <ul style="list-style-type: none"> <li>▪ 8" Pull: 17 1/2" (H) x 3 5/8" (W) x 4" (D)</li> <li>▪ 10" Pull: 19 1/2" (H) x 3 5/8" (W) x 4" (D)</li> </ul>   |
| Mounting           | <ul style="list-style-type: none"> <li>▪ Heavy duty mounting hardware exceeds industry standards</li> <li>▪ Optional mounting hardware available (see general information section for details) A, F, I, L, O</li> </ul> |

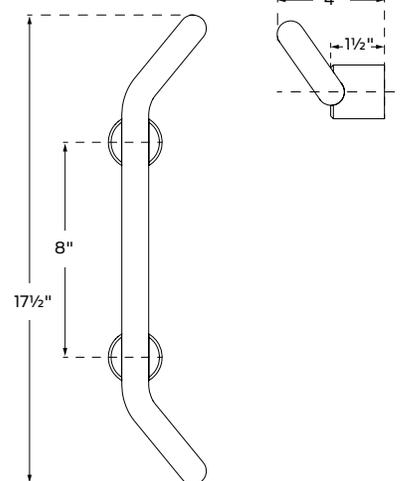
### Standard lengths

| Product | Projection | Clearance | CTC | Overall length |
|---------|------------|-----------|-----|----------------|
| 8 CTC   | 4"         | 1 1/2"    | 8"  | 17 1/2"        |
| 10 CTC  | 4"         | 1 1/2"    | 10" | 19 1/2"        |

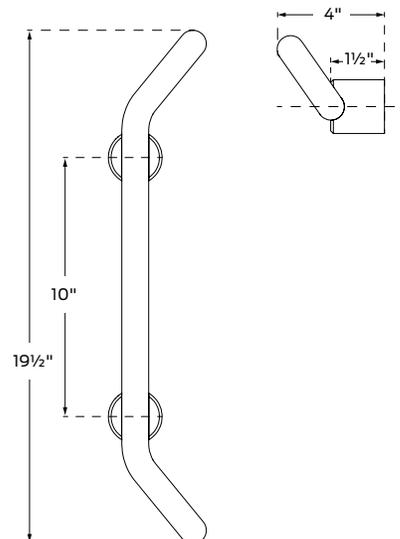
### Finishes

| BHMA | Description             | Substrate | Finish       |
|------|-------------------------|-----------|--------------|
| 622  | Matte Black             | Brass     | US19         |
| 626  | Satin Chrome            | Brass     | US26D        |
| 695  | Dark Bronze Powder Coat | Brass     | SP313/US10BE |

### 8 CTC



### 10 CTC



## Pulls, push bars and plates

### Hands-free door pulls

# FP100

#### Hands-free foot pull

- Sanitary foot opening
- Use alongside current pull for hands-free needs

#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Rugged 1/8" thick stainless steel                         |
| Size               | 5" wide, 2 3/4" height, 3 1/8" projection                 |
| Mounting           | Through bolts provided for secure mounting and durability |

#### Finishes

| BHMA | Description           | Substrate       | Finish       |
|------|-----------------------|-----------------|--------------|
| 630  | Satin Stainless Steel | Stainless steel | US32D        |
| 631  | Black Painted         | Stainless steel | BLK          |
| 695  | Dark Bronze Painted   | Stainless steel | SP313/US10BE |



# AP101

#### Hands-free arm pull

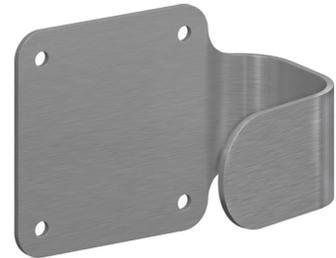
- Easy forearm opening
- Use alongside current pull for hands-free needs

#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Rugged 1/8" thick stainless steel                         |
| Size               | 4" wide, 5 1/8" height, 3 7/8" projection                 |
| Mounting           | Through bolts provided for secure mounting and durability |

#### Finishes

| BHMA | Description           | Substrate       | Finish       |
|------|-----------------------|-----------------|--------------|
| 630  | Satin Stainless Steel | Stainless steel | US32D        |
| 631  | Black Painted         | Stainless steel | BLK          |
| 695  | Dark Bronze Painted   | Stainless steel | SP313/US10BE |



# OTP300/OT300

#### Opening hand tool (plastic and steel models)

- For hands-free use with door pulls or levers

#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | <ul style="list-style-type: none"><li>▪ OTP300 is a durable black plastic tool offered in packs of 10</li><li>▪ OT300 is study 1/8" stainless steel with smooth tumbled edges</li></ul> |
| Size               | 2" width, 5" height   |

#### Finishes

| BHMA | Description           | Substrate       | Finish |
|------|-----------------------|-----------------|--------|
| 630  | Satin Stainless Steel | Stainless steel | US32D  |
| 631  | Black Painted         | Stainless steel | BLK    |



## Pulls, push bars and plates

### Push, pull and protection plates

# 8200/8300

#### Push/pull plate

- 8200 Push plate
- 8300 Pull plate, prep for pull (less pull)

#### Specifications

|  |   |
|--|---|
| Available sizes                        | Plates are available in .050 thick brass, stainless steel or aluminum   |
| Material substrate                     | Made from aluminum, brass or stainless steel (300 Series)   |
| Mounting hardware                      | <ul style="list-style-type: none"> <li>▪ Standard mounting package           <ul style="list-style-type: none"> <li>– #6 x <math>\frac{5}{8}</math> Oval head screws</li> </ul> </li> <li>▪ Optional Tek/Torx package           <ul style="list-style-type: none"> <li>– #6 x <math>\frac{5}{8}</math> Self-drilling, self-tapping screws</li> <li>– #6 x <math>\frac{5}{8}</math> Torx screws</li> </ul> </li> </ul> |
| Widths and heights                     | <ul style="list-style-type: none"> <li>▪ 3" x 12"</li> <li>▪ 3 1/2" x 15"</li> <li>▪ 4" x 16"</li> <li>▪ 6" x 16"</li> <li>▪ 8" x 16"</li> </ul>  |
| Optional pull center to center spacing | <ul style="list-style-type: none"> <li>▪ For 8300 pull plates, plates are prepped with 2 <math>\frac{3}{8}</math>" holes for pull machining</li> <li>▪ For holes prepped for G mounting hardware, consult customer service           <ul style="list-style-type: none"> <li>– 5 1/4"</li> <li>– 6"</li> <li>– 8"</li> <li>– 10"</li> <li>– 12"</li> </ul> </li> </ul>   |
| Certifications                         | Meets ANSI/BHMA A156.6 for J301 materials   |

#### Finishes

| BHMA   | Description                   | Substrate       | Finish       |
|--------|-------------------------------|-----------------|--------------|
| 605    | Bright Brass                  | Brass           | US3          |
| 606    | Satin Brass                   | Brass           | US4          |
| 612    | Satin Bronze                  | Brass           | US10         |
| 613    | Oil Rubbed Bronze             | Brass           | US10B        |
| 619    | Satin Nickel                  | Brass           | US15         |
| 625    | Bright Chrome                 | Brass           | US26         |
| 626    | Satin Chrome                  | Brass           | US26D        |
| 626-AM | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 628    | Clear Anodized                | Aluminum        | US28         |
| 630    | Satin Stainless               | Stainless steel | US32D        |
| 630-AM | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631    | Matte Black                   | Stainless steel | BLK          |
| 695    | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

#### Additional information

- Specify PR when ordering a set of plates for back to back mounting
- Custom widths, heights, and special cut-outs are available as engineering special, consult customer service

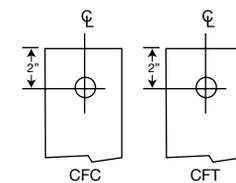
#### Plates cut for cylinder or thumb-turns

Plates are available with cutout for cylinder or thumb-turn; standard cutout is 2" from top and centered on plates up to 4" wide. For plates wider than 4" cutout is located 2" from outer edge, specify LH or RH. When pull location interferes with standard cutout location a detail drawing should be furnished with the order.

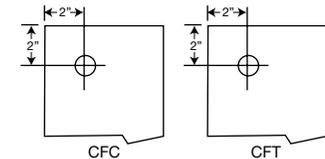
- Standard cutout is 1 1/4" for cylinder and  $\frac{3}{8}$ " for thumb-turn.
- Specify CFC for cutout for cylinder or CFT for cutout for thumb-turn.



For plates up to 4"



For plates greater than 4" (RH shown)



**Pulls, push bars and plates**  
**Push, pull and protection plates**

# 8302

## Pull plate

### Specifications

|                               |  |
|-------------------------------|--|
| Material substrate            | Made from aluminum, brass or stainless steel (300 Series)  |
| Mounting hardware             | <ul style="list-style-type: none"> <li>▪ Heavy duty mounting hardware exceeds industry standards</li> <li>▪ 5/16-18 mounting hardware</li> <li>▪ Specify door thickness                             <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>- Optional package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers.</li> <li>▪ Optional mounting hardware available (see general information section for details) F, G, I, J, L</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> <li>▪ Standard mounting package                             <ul style="list-style-type: none"> <li>- #6 x 5/8 Oval head screws</li> </ul> </li> <li>▪ Optional Tek/Torx package                             <ul style="list-style-type: none"> <li>- #6 x 5/8 Self-drilling, self-tapping screws</li> <li>- #6 x 5/8 Torx screws</li> </ul> </li> </ul> |
| Widths and heights            | <ul style="list-style-type: none"> <li>▪ 3 1/2" x 15"</li> <li>▪ 4" x 16"</li> <li>▪ 6" x 16"</li> </ul>   |
| Pull center to center spacing | <ul style="list-style-type: none"> <li>▪ 6"</li> <li>▪ 8"</li> <li>▪ 10"</li> </ul>  |
| Certifications                | Meets ANSI/BHMA A156.06  |

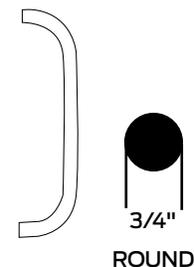
### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Brass           | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 628      | Clear Anodized                | Aluminum        | US28         |
| 630      | Satin Stainless               | Stainless steel | US32D        |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- Plate to pull clearance is 1 1/2"
- For one back to back machined pull, specify JSGL
- Custom widths, heights, and special cut-outs are available as engineering special, consult customer service



Introduction  
Table of contents  
Hinges and pivots  
Pulls, push bars and plates  
Flush bolts, strikes and coordinators  
Latches, catches and bolts  
Door stops, holders and silencers  
Exterior hardware  
Miscellaneous hardware

## Pulls, push bars and plates

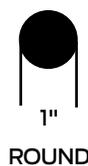
### Push, pull and protection plates

# 8303

## Pull plate

### Specifications

|                               |   |
|-------------------------------|---|
| Material substrate            | Made from aluminum, brass or stainless steel (300 Series)   |
| Mounting hardware             | <ul style="list-style-type: none"> <li>▪ Heavy duty mounting hardware exceeds industry standards</li> <li>▪ 3/8-16 mounting hardware</li> <li>▪ Specify door thickness               <ul style="list-style-type: none"> <li>– Standard mounting hardware for door thickness of 1 1/2" to 1 3/4" unless otherwise specified</li> <li>– Optional package available for 2" and 2 1/4" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers</li> <li>▪ Optional mounting hardware available (see general information section for details) A, F, G, I, L, N</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> <li>▪ Standard mounting package for plate               <ul style="list-style-type: none"> <li>– #6 x 5/8 Oval head screws</li> </ul> </li> <li>▪ Optional Tek/Torx package               <ul style="list-style-type: none"> <li>– #6 x 5/8 Self-drilling, self-tapping screws</li> <li>– #6 x 5/8 Torx screws</li> </ul> </li> </ul> |
| Widths and heights            | <ul style="list-style-type: none"> <li>▪ 3 1/2" x 15"</li> <li>▪ 4" x 16"</li> <li>▪ 6" x 16"</li> </ul>  |
| Pull center to center spacing | <ul style="list-style-type: none"> <li>▪ 8"</li> <li>▪ 10"</li> </ul>   |
| Certifications                | Meets ANSI/BHMA A156.06   |



ROUND

### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Brass           | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 628      | Clear Anodized                | Aluminum        | US28         |
| 630      | Satin Stainless               | Stainless steel | US32D        |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

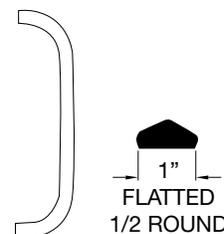
- Specify PR when ordering a set of pulls for back to back mounting
- Plate to pull clearance is 1 1/2"
- For one back to back machined pull, specify NSGL
- Custom widths, heights, and special cut-outs are available as engineering special, consult customer service

# 8305

## Pull plate

### Specifications

|                               |  |
|-------------------------------|--|
| Material substrate            | Made from brass or stainless steel (300 Series)  |
| Mounting hardware             | <ul style="list-style-type: none"> <li>▪ ¼"-20 mounting hardware</li> <li>▪ Specify door thickness                             <ul style="list-style-type: none"> <li>- Standard mounting hardware for door thickness of 1 ½" to 1 ¾" unless otherwise specified</li> <li>- Optional package available for 2" and 2 ¼" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers.</li> <li>▪ Optional mounting hardware available (see general information section for details)</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service.</li> <li>▪ Standard mounting package for plate                             <ul style="list-style-type: none"> <li>- #6 x 5/8 Oval head screws</li> </ul> </li> <li>▪ Optional Tek/Torx package                             <ul style="list-style-type: none"> <li>- #6 x 5/8 Self-drilling, self-tapping screws</li> <li>- #6 x 5/8 Torx screws</li> </ul> </li> <li>▪ Plate prepped with 2 pull mounting holes spaced at 6", 8", or 10" center to center</li> </ul> |
| Widths and heights            | <ul style="list-style-type: none"> <li>▪ 3 ½" x 15"</li> <li>▪ 4" x 16"</li> <li>▪ 6" x 16"</li> </ul>   |
| Pull center to center spacing | <ul style="list-style-type: none"> <li>▪ 6"</li> <li>▪ 8"</li> <li>▪ 10"</li> </ul>  |
| Certifications                | Meets ANSI/BHMA A156.06  |



### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Brass           | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 630      | Satin Stainless               | Stainless steel | US32D        |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- Plate to pull clearance is 1 ½"
- Custom widths, heights, and special cut-outs are available as engineering special, consult customer service

## Pulls, push bars and plates

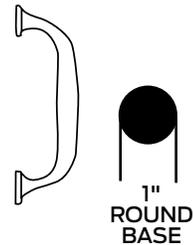
### Push, pull and protection plates

# 8311

## Pull plate

### Specifications

|                               |   |
|-------------------------------|---|
| Material substrate            | Made from aluminum, brass or stainless steel (300 Series)   |
| Mounting hardware             | <ul style="list-style-type: none"> <li>▪ ¼"-20 mounting hardware</li> <li>▪ Specify door thickness</li> <li>▪ Standard mounting hardware for door thickness of 1 ½" to 1 ¾" unless otherwise specified               <ul style="list-style-type: none"> <li>– Optional package available for 2" and 2 ¼" thick doors</li> </ul> </li> <li>▪ Comes standard with through bolt screws and decorative washers.</li> <li>▪ Optional mounting hardware available (see general information section for details) F, G</li> <li>▪ Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> <li>▪ Standard mounting package for plate               <ul style="list-style-type: none"> <li>– #6 x 5/8" Oval head screws</li> </ul> </li> <li>▪ Optional Tek/Torx package               <ul style="list-style-type: none"> <li>– #6 x 5/8" Self-drilling, self-tapping screws</li> <li>– #6 x 5/8" Torx screws</li> </ul> </li> <li>▪ Plate prepped with 2 pull mounting holes spaced at 5 ¼" center to center</li> </ul> |
| Widths and heights            | <ul style="list-style-type: none"> <li>▪ 3 ½" x 15"</li> <li>▪ 4" x 16"</li> <li>▪ 6" x 16"</li> </ul>  |
| Pull center to center spacing | 5 ¼"  |
| Certifications                | Meets ANSI/BHMA A156.06   |



### Finishes

| BHMA     | Description                   | Substrate       | Finish       |
|----------|-------------------------------|-----------------|--------------|
| 605      | Bright Brass                  | Brass           | US3          |
| 606      | Satin Brass                   | Brass           | US4          |
| 612      | Satin Bronze                  | Brass           | US10         |
| 613      | Oil Rubbed Bronze             | Brass           | US10B        |
| 619      | Satin Nickel                  | Brass           | US15         |
| 625      | Bright Chrome                 | Brass           | US26         |
| 626      | Satin Chrome                  | Brass           | US26D        |
| 626-AM   | Satin Chrome Antimicrobial    | Brass           | US26D-AM     |
| 628      | Clear Anodized                | Aluminum        | US28         |
| 630      | Satin Stainless               | Stainless steel | US32D        |
| 630-AM   | Satin Stainless Antimicrobial | Stainless steel | US32D-AM     |
| 631      | Matte Black                   | Stainless steel | BLK          |
| 643e/716 | Aged Bronze                   | Stainless steel | 643e/716     |
| 695      | Dark Bronze Powder Coat       | Stainless steel | SP313/US10BE |

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- Custom widths, heights, and special cut-outs are available as engineering special, consult customer service

# Types of protection plates



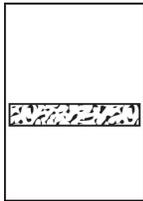
## Mop plates

- Protect the bottom of the pull side of door subject to cleaning and mopping procedures.
- Size Ranges: 4" to 6" high, 22" to 48" wide



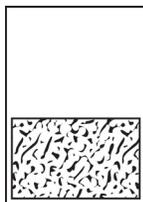
## Kick plates

- Protect the bottom of the push side of doors subject to scuffing from foot traffic
- Recommended for all doors subject to normal use (especially doors using a closer)
- Size Ranges: 8" to 24" high, 22" to 48" wide



## Stretcher plates

- Protect doors at specific areas where consistent contact is made by stretchers, service carts or other equipment
- Usually applied to push side of doors
- Size Ranges: 6" to 8" high, 22" to 48" wide



## Armor plates

- Protect lower half of doors from abuse by hard carts, trucks and rough usage.
- Usually applied to push side of single doors and both sides of double acting doors
- Size Ranges: 26" to 48" high, 22" to 48" wide

Introduction

Table of contents

Hinges and pivots

Pulls, push bars and plates

Flush bolts, strikes and coordinators

Latches, catches and bolts

Door stops, holders and silencers

Exterior hardware

Miscellaneous hardware

## Pulls, push bars and plates

### Push, pull and protection plates

# 8400/8402



### Commercial protection plates (UL and non-UL models)

- All plates, metal and plastic, come standard with four beveled edges and countersunk mounting holes (B-CS)
- Protection plates must be ordered in 1/2" increments. Available in other sizes, consult customer service
- For 8402 UL Plates, UL mark appears in upper left corner. Not available on plastic protection plates (special cutouts are not allowed on UL kick plates)

### Specifications

|                    |   |
|--------------------|---|
| Material substrate | <ul style="list-style-type: none"> <li>▪ Available in .050" thick brass, stainless steel or aluminum; and 1/8" thick high impact polyethylene in clear or black</li> <li>▪ Aluminum 5005 Series, brass C26800 Series, stainless steel 300 Series, plastic</li> </ul>  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ Standard mounting package, 16 per pack           <ul style="list-style-type: none"> <li>– #6 x 5/8" Oval head screws</li> </ul> </li> <li>▪ Optional Tek/Torx package, specify TK-TX           <ul style="list-style-type: none"> <li>– #6 x 5/8" Self-drilling, self-tapping screws</li> <li>– #6 x 5/8" Torx screws</li> </ul> </li> </ul> |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.6 for J301</li> <li>▪ UL protection plates certified to UL10C</li> </ul>  |

### Number of screw packs required by plate size (specify Tek screws or Torx screws)

|         | 22"-25" | 26"-33" | 34"-41" | 42"-48" |
|---------|---------|---------|---------|---------|
| 4"-8"   | 1       | 1       | 1       | 1       |
| 9"-16"  | 1       | 1       | 1       | 1       |
| 17"-24" | 1       | 1       | 1       | 2       |
| 25"-32" | 1       | 1       | 2       | 2       |
| 33"-40" | 1       | 2       | 2       | 2       |
| 41"-48" | 2       | 2       | 2       | 2       |

### Options

- Specify B-NH for no mounting holes (Not available on 8402. Available only with US32D, US32, US3, US4, US28, CLR, P-BLK only)
- Specify B-NHA for no mounting holes with adhesive (Not available on 8402.)
- Specify ERS prepped with extra row of screws
- Special Cut-outs are available as engineering special, consult customer service

### Finishes

| BHMA  | Description             | Substrate       | Finish       | Max sizes |
|-------|-------------------------|-----------------|--------------|-----------|
| 605   | Bright Brass            | Brass           | US3          | 24" x 48" |
| 606   | Satin Brass             | Brass           | US4          | 24" x 48" |
| 612   | Satin Bronze            | Brass           | US10         | 24" x 48" |
| 613   | Oil Rubbed Bronze       | Brass           | US10B        | 36" X 46" |
| 619   | Satin Nickel            | Stainless       | US15         | 24" x 48" |
| 625   | Bright Chrome           | Stainless       | US26         | 48" X 48" |
| 626   | Satin Chrome            | Brass           | US26D        | 30" x 36" |
| 628   | Satin Aluminum          | Aluminum        | US28         | 48" x 48" |
| 629   | Bright Stainless Steel  | Stainless steel | US32         | 48" x 48" |
| 630   | Satin Stainless Steel   | Stainless steel | US32D        | 48" x 48" |
| 654   | Satin Stainless Steel   | Stainless steel | US32D        | 48" x 48" |
| 695   | Dark Bronze Powder Coat | Stainless steel | SP313/US10BE | 24" x 48" |
| BLK   | Matte Black             | Stainless steel | BLK          | 24" x 48" |
| P-BLK | Black                   | Plastic         | P-BLK        | 48" x 48" |
| CLR   | Clear                   | Plastic         | CLR          | 48" x 48" |

Custom finishes are available as engineering special, consult customer service

### Available accessories

- Gasket tape kit tape is recommended when using a brass plate on a metal door to reduce tarnishing from electrolytic oxidation
- One tape pack will cover an the perimeters of a 8" x 34" kickplate (Order 8401 gasket tape)

# Edge guards and vandal resistant trim

Ives edge guards and vandal resistant trim are often used in schools, public building, or vandal prone area and can be used in both single and double door applications. They are designed to accommodate accompanying hardware and feature array of styles and options for your application. Choose edge guards for hinge or lock side to add durability to your doorways and vandal resistant trim in various styles all made of stainless steel with steel fasteners. The built-in lock protector prevents tampering with latch bolt on certain trim models. The protective cylinder collar spins to reduce damage from pipe wrench or other tools.



Introduction

Table of contents

Hinges and pivots

**Pulls, push bars and plates**

Flush bolts, strikes and coordinators

Latches, catches and bolts

Door stops, holders and silencers

Exterior hardware

Miscellaneous hardware

## Pulls, push bars and plates

### Edge guards

# General information

Ives edge guards, designed to protect the edge of the door, can be used in both single or double acting door applications. They feature 21 types including beveled, non-beveled, bull nose, overlap and astragal. There are 10 standard cutout options, available in 0.050 material in stainless steel, brass or aluminum and can be used on 1 ¾", 2" or 2 ¼" thick doors. Available with stamped UL label for fire rated applications. Edge guard lengths have a range from 12" - 120" in 1/ " increments.

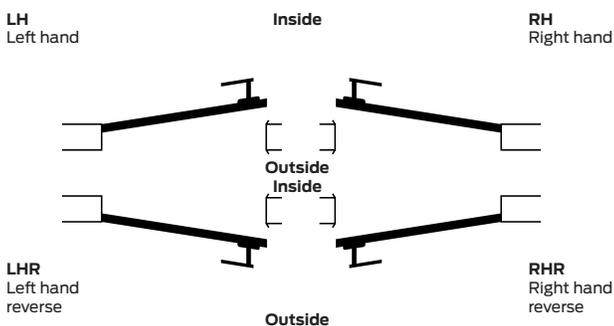
Use the Ives edge guard ordering guide to select the best edge guard model, UL, length, finish, and cutout option to fit your project needs.

Visit how to order guide: [us.allegion.com/ivesedgeguardordering](https://us.allegion.com/ivesedgeguardordering)

## Handing, door standards and options

### Handing

Consider the hand of door and frame: left hand, right hand, left hand reverse, right hand reverse.



### Active or inactive

If you are installing astragal type edge guards for double door applications, also consider if the door is:

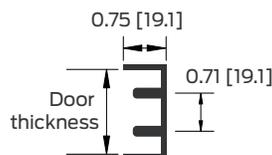
- Active: the most often used door, featuring locking hardware
- Inactive: door that stays closed and is opened on occasion to create a larger entryway

### Door and material thickness

Ives edge guards can be used on standard 1 ¾" doors and are also available for 2" and 2 ¼" doors. Use the guide below to evaluate door thickness. The edge guard material thickness is .050".

### Edge mount standard

Edge guards are offered with standard mounting hole placement, as shown in the diagram.

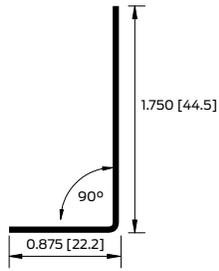


# Pulls, push bars and plates

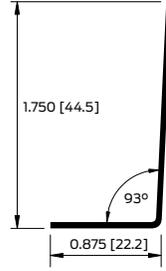
## Edge guards

### Mortise type

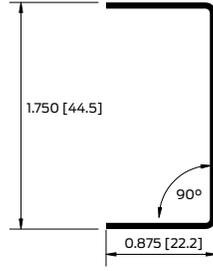
7300



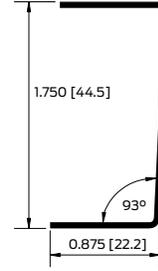
7301



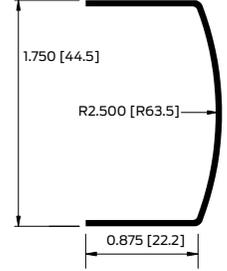
7302



7302B

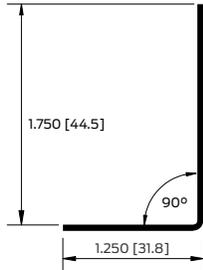


7303

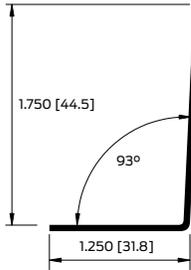


### Non-mortise type

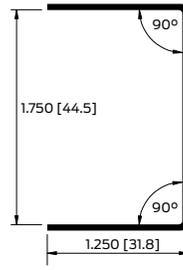
7304



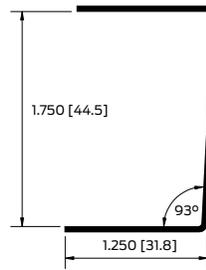
7305



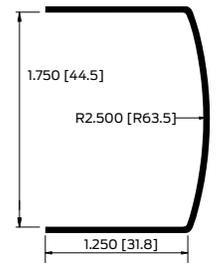
7306



7306B

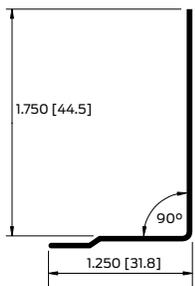


7307

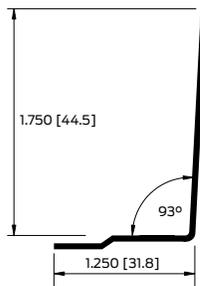


### Overlapping type

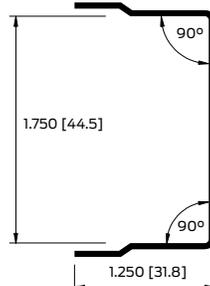
7308<sup>1</sup>



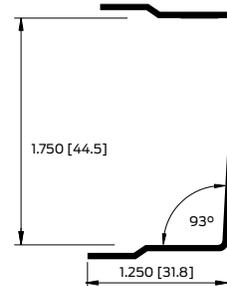
7309<sup>1</sup>



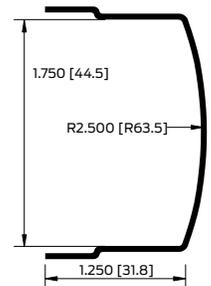
7310<sup>1</sup>



7310B<sup>1</sup>



7311<sup>1</sup>



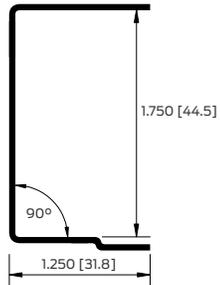
1. Material thickness of edge guard is .050".

## Pulls, push bars and plates

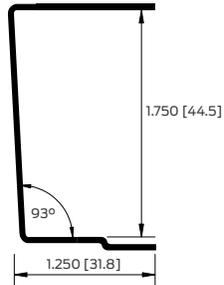
### Edge guards

#### Semi-overlap type

7310S<sup>1</sup>

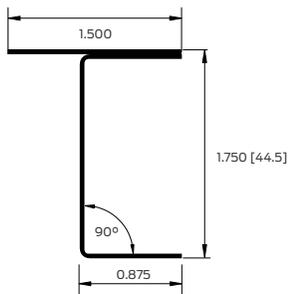


7310SB<sup>1</sup>

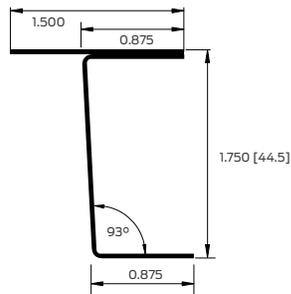


#### Astragal type<sup>2</sup>

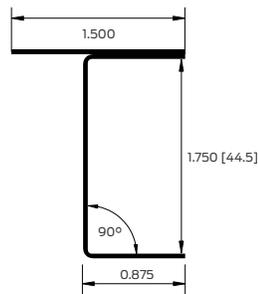
7302-A  
(mortised)



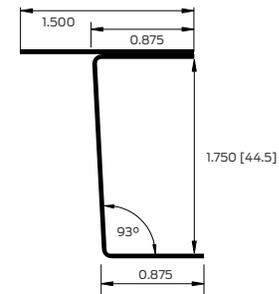
7302B-A  
(mortised)



7306-A  
(non-mortised)



7306B-A  
(non-mortised)



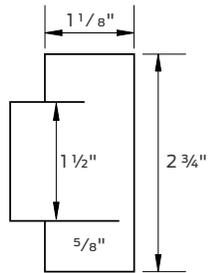
\* Available in 629 and 630 finish only.

1. Material thickness of edge guard is .050".
2. Available in 629 and 630 finish only.

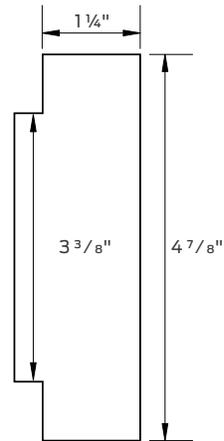
# Standard cutouts

A total of 10 standard cutout options are available.

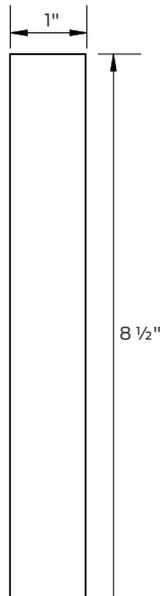
**No. 1<sup>1</sup>**  
Cylinder strike cutout



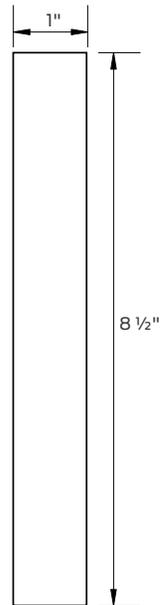
**No. 2<sup>1</sup>**  
ASA strike cutout



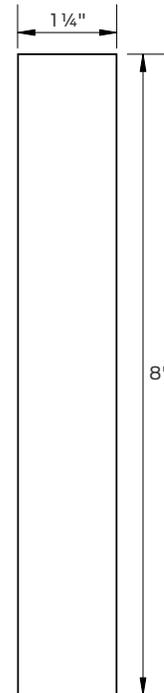
**No. 3**  
Automatic and constant latching flush bolt cutout



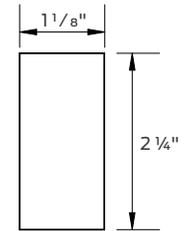
**No. 4**  
Constant latch flush bolt-wood doors 1 x 8 1/2 inch



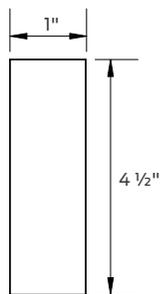
**No. 5**  
Mortise lock cutout



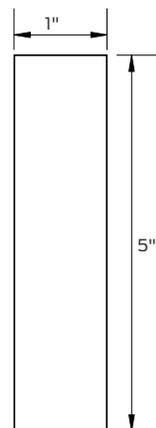
**No. 6**  
Latch bolt cutout



**No. 7**  
Hinge cutout



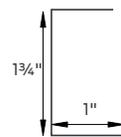
**No. 8**  
Hinge cutout



**No. 9<sup>2</sup>**  
Auxiliary fire latch inactive cutout

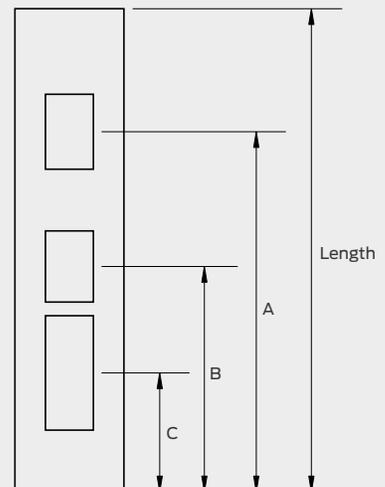


**No. 10<sup>2</sup>**  
Auxiliary fire latch active cutout



## Edge guard cutout diagram

Measure bottom of edge guard to center line (CL) of cutout



A. Cutout option A  
B. Cutout option B  
C. Cutout option C

1. Provided center as standard. If offset pull or offset push is required call customer care.  
2. Cutouts are measured 6" bottom to center line.

## Pulls, push bars and plates

### Vandal resistant trim

# VR810-DT/VR814-DT

## Vandal resistant dummy trim (models with and without black grip)

- VR810-DT with black grip, VR814 without black grip
- Closed pull design eliminates a hooking point to be able to forcibly pull a secured door open
- Ligature resistant design
- For use with Falcon XX, 18 or 25 Series exit device
- Non-handed
- Pull operation only

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 11 Gauge (0.120" thick)  |
| Material substrate | 304 Series stainless steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications.   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ For door thickness 1<sup>3</sup>/<sub>4</sub>-2<sup>1</sup>/<sub>4</sub>"<br/>– 10-24 X 1" and 10-24 X 1<sup>1</sup>/<sub>2</sub>" mounting screw size</li> <li>▪ Can be mounted directly to Falcon XX, 18 and 25 exit devices</li> <li>▪ Standard mounting - Welded studs fasten with pan head screws on opposite side of door</li> <li>▪ Optional through bolt mounting - bolt through face of trim into device for added security</li> </ul> |

### Dimensions

| Product number | Width                           | Height | Through bolt pattern<br>(4 holes)   | Clearance grip<br>to door       | Projection                      |
|----------------|---------------------------------|--------|---|---------------------------------|---------------------------------|
| VR810DT        | 5 <sup>1</sup> / <sub>4</sub> " | 11"    | 1 <sup>3</sup> / <sub>4</sub> " wide x 7 <sup>3</sup> / <sub>4</sub> " high | 1 <sup>1</sup> / <sub>2</sub> " | 1 <sup>7</sup> / <sub>8</sub> " |

### Finishes

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

Models are available with or without attractive black plastisol edge grip.

Custom finishes are available as engineering special, consult customer service.



VR810

VR814

# VR810-NL / VR814-NL

## Vandal resistant night latch trim, LHR and RHR options (models with and without black grip)

- VR810-NL (LHR or RHR) with black grip, VR814-NL (LHR or RHR) without black grip
- Closed pull design eliminates a hooking point to be able to forcibly pull a secured door open
- Ligation resistant design
- For use with Falcon XX-V
- Through bolts direct to the exit device
- Night latch operation (cylinder not furnished)
- 1 5/8" cylinder hole cut-out on door, located 1 13/16" above horizontal center line and centered between mounting studs on vertical center line
- Designed for use with 1 1/4" cylinders
  - Other cylinders may require additional blocking rings, not supplied
- Supplied with protective cylinder collar
  - Collar spins to reduce damage from pipe wrench or other tool



VR810

VR814

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 11 Gauge (0.120" thick)   |
| Material substrate | 304 Series stainless steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications.  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ For door thickness 1 3/4"-2 1/4"                             <ul style="list-style-type: none"> <li>- 10-24 X 1" and 10-24 X 1 1/2" mounting screw size</li> </ul> </li> <li>▪ Can be mounted directly to Falcon XX-V5 exit devices</li> <li>▪ Standard mounting - Welded studs fasten with pan head screws on opposite side of door</li> <li>▪ Optional through bolt mounting - bolt through face of trim into device for added security</li> </ul> |

### Dimensions

| Product number | Width  | Height | Through bolt pattern (4 holes) | Clearance grip to door | Projection |
|----------------|--------|--------|--------------------------------|------------------------|------------|
| VR810NL        | 5 1/4" | 11"    | 1 3/4" wide x 7 3/4" high      | 1 1/2"                 | 1 7/8"     |

### Finishes

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

Models are available with or without attractive black plastisol edge grip.

Custom finishes are available as engineering special, consult customer service.

## Pulls, push bars and plates

### Vandal resistant trim

# VR810-NL-V/VR814-NL-V

## Vandal resistant night latch trim (models with and without black grip)

- VR810-NL-V with black grip, VR814-NL-V without black grip
- Closed pull design eliminates a hooking point to be able to forcibly pull a secured door open
- Ligature resistant design
- For use with Falcon 25-R or 25-V Series exit devices
- Through bolts direct to the exit device
- Night latch operation (cylinder not furnished)
- Non-handed, horizontal keyway
- 1 5/8" cylinder hole cut-out, on door, located at the horizontal center line 3/16" off of vertical centerline between mounting studs towards the strike edge of the door
- Designed for use with 1 1/4" cylinders
  - Other cylinders may require additional blocking rings, not supplied
- Supplied with protective cylinder collar
  - Collar spins to reduce damage from pipe wrench or other tool



VR810

VR814

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 11 Gauge (0.120" thick)  |
| Material substrate | 304 Series stainless steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications.   |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ For door thickness 1 3/4"-2 1/4"           <ul style="list-style-type: none"> <li>- 10-24 X 1" and 10-24 X 1 1/2" mounting screw size</li> </ul> </li> <li>▪ Can be mounted directly to Falcon 24-R or 25-V exit devices</li> <li>▪ Standard mounting - Welded studs fasten with pan head screws on opposite side of door</li> <li>▪ Optional through bolt mounting - bolt through face of trim into device for added security</li> </ul> |

### Dimensions

| Product number | Width  | Height | Through bolt pattern (4 holes) | Clearance grip to door | Projection |
|----------------|--------|--------|--------------------------------|------------------------|------------|
| VR810NL-V      | 5 1/4" | 11"    | 1 3/4" wide x 7 3/4" high      | 1 1/2"                 | 1 7/8"     |

### Finishes

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

Models are available with or without attractive black plastisol edge grip.

Custom finishes are available as engineering special, consult customer service.

# VR900/VR904

## Vandal resistant mortise trim, LHR and RHR options (models with and without black grip)

- VR900 (LHR or RHR) with black grip, VR904 (LHR or RHR) without black grip
- Closed pull design eliminates a hooking point to be able to forcibly pull a secured door open
- Ligature resistant design
- For use with most mortise locks on out-swinging doors including Schlage L9000 Series with interior L or N escutcheon, and rose trim
- Built-in lock protector prevents tampering
- Handed design allows trim to be positioned to coordinate with the centerline of inside hardware
- 1 1/2" cylinder hole cut-out on door, located 2 7/32" above horizontal center line and 1/4" offset from vertical center line towards the hinge side of the door
- Designed for use with 1 1/4" cylinders
  - Other cylinders may require additional blocking rings, not supplied
- Supplied with protective cylinder collar
  - Collar spins to reduce damage from pipe wrench or other tool
- Additional cut-outs and locations are available as engineering special, consult customer service



### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 11 Gauge (0.120" thick)   |
| Material substrate | 304 Series stainless steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications.  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ For door thickness 1 3/4"-2 1/4"                             <ul style="list-style-type: none"> <li>– 1/4"-20 X 1 1/4" and 1/4"-20 X 1 3/4" mounting screws with countersunk washers</li> </ul> </li> <li>▪ Can be mounted directly to Schlage L9000 Series</li> <li>▪ Standard mounting - Welded studs fasten with pan head screws on opposite side of door</li> <li>▪ Optional through bolt mounting - bolt through face of trim into device for added security</li> </ul> |

### Dimensions

| Width  | Height | Through bolt pattern (4 holes) | Clearance grip to door | Projection |
|--------|--------|--------------------------------|------------------------|------------|
| 7 1/4" | 11"    | 2" wide x 10" high             | 1 1/2"                 | 1 7/8"     |

### Finishes

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

Models are available with or without attractive black plastisol edge grip.

Custom finishes are available as engineering special, consult customer service.

## Pulls, push bars and plates

### Vandal resistant trim

# VR900LLP/VR904LLP

## Vandal resistant mortise trim, less lock protector, LH and RH options (models with and without black grip)

- VR900LLP with black grip, VR904LLP without black grip
- Closed pull design eliminates a hooking point to be able to forcibly pull a secured door open
- Ligature resistant design
- For use with most mortise locks on in-swinging doors including Schlage L9000 Series with interior L or N escutcheon, and rose trim
- Handed design allows trim to be positioned to coordinate with the centerline of inside hardware
- 1 1/2" cylinder hole cut-out on door, located 2 7/32" above horizontal center line
- Designed for use with 1 1/4" cylinders
  - Other cylinders may require additional blocking rings, not supplied
- Supplied with protective cylinder collar
  - Collar spins to reduce damage from pipe wrench or other tool
- Additional cut-outs and locations are available as engineering special, consult customer service
- LLP= Less Lock Protector



VR900

VR904

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 11 Gauge (0.120" thick)   |
| Material substrate | 304 Series stainless steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications.  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ For door thickness 1 3/4"-2 1/4"           <ul style="list-style-type: none"> <li>– 1/4"-20 X 1 1/4" and 1/4"-20 X 1 3/4" mounting screws with countersunk washers</li> </ul> </li> <li>▪ Can be mounted directly to Schlage L9000 Series</li> <li>▪ Standard mounting - Welded studs fasten with pan head screws on opposite side of door</li> <li>▪ Optional through bolt mounting - bolt through face of trim into device for added security</li> </ul> |

### Dimensions

| Width  | Height | Through bolt pattern (4 holes) | Clearance grip to door | Projection |
|--------|--------|--------------------------------|------------------------|------------|
| 5 1/4" | 11"    | 1 3/4" wide x 10" high         | 1 1/2"                 | 1 7/8"     |

### Finishes

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

Models are available with or without attractive black plastisol edge grip.

Custom finishes are available as engineering special, consult customer service.

## Pulls, push bars and plates

### Vandal resistant trim

# VR910-DT/VR914-DT

## Vandal resistant dummy trim (models with and without black grip)

- VR910-DT with black grip, VR914-DT without black grip
- Closed pull design eliminates a hooking point to be able to forcibly pull a secured door open
- Ligature resistant design
- For use with Von Duprin 98/99 Series rim and vertical rod exit device
- Pull operation only
- Non-handed

### Specifications

|                    |  |
|--------------------|--|
| Available sizes    | 11 Gauge (0.120" thick)  |
| Material substrate | 304 Series stainless steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications.   |
| Mounting hardware  | <ul style="list-style-type: none"><li>▪ For door thickness 1 3/4"-2 1/4"<ul style="list-style-type: none"><li>- 10-24 X 1" and 10-24 X 1 1/2" mounting screw size</li></ul></li><li>▪ Can be mounted directly to Von Duprin 98/99 device</li><li>▪ Standard mounting - Welded studs fasten with pan head screws on opposite side of door</li><li>▪ Optional through bolt mounting - bolt through face of trim into device for added security</li></ul> |

### Dimensions

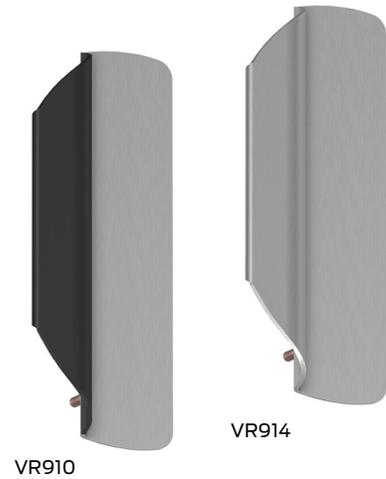
| Width  | Height | Through bolt pattern<br>(4 holes) | Clearance grip to door | Projection |
|--------|--------|-----------------------------------|------------------------|------------|
| 5 1/4" | 11"    | 1 3/8" wide x 7" high             | 1 1/2"                 | 1 7/8"     |

### Finishes

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

Models are available with or without attractive black plastisol edge grip.

Custom finishes are available as engineering special, consult customer service.



## Pulls, push bars and plates

### Vandal resistant trim

# VR910-NL / VR914-NL

## Vandal resistant night latch trim (models with and without black grip)

- VR910-NL with black grip, VR914-NL without black grip
- Closed pull design eliminates a hooking point to be able to forcibly pull a secured door open
- Ligature resistant design
- For use with Von Duprin 98/99 Series rim and vertical rod exit device
- 1 5/8" cylinder hole cut-out on door, centered on horizontal center line and 1/4" offset from vertical center line towards the lock side of the door
- Designed for use with 1 1/4" cylinders
  - Other cylinders may require additional blocking rings, not supplied
- Supplied with protective cylinder collar
  - Collar spins to reduce damage from pipe wrench or other tool
- Additional cut-outs and locations are available as engineering special, consult customer service



VR910

VR914

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 11 Gauge (0.120" thick)   |
| Material substrate | 304 Series stainless steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications.  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ For door thickness 1 3/4"-2 1/4"           <ul style="list-style-type: none"> <li>- 10-24 X 1" and 10-24 X 1 1/2" mounting screw size</li> </ul> </li> <li>▪ Can be mounted directly to Von Duprin 98/99 device</li> <li>▪ Standard mounting - Welded studs fasten with pan head screws on opposite side of door</li> <li>▪ Optional through bolt mounting - bolt through face of trim into device for added security</li> </ul> |

### Dimensions

| Width  | Height | Through bolt pattern (4 holes) | Clearance grip to door | Projection |
|--------|--------|--------------------------------|------------------------|------------|
| 5 1/4" | 11"    | 1 3/8" wide x 7" high          | 1 1/2"                 | 1 7/8"     |

### Finishes

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

Models are available with or without attractive black plastisol edge grip.

Custom finishes are available as engineering special, consult customer service.

# VR910M-DT/VR914M-DT

## Vandal resistant mortise dummy trim (models with and without black grip)

- VR910M-DT with black grip, VR914M-DT without black grip
- Closed pull design eliminates a hooking point to be able to forcibly pull a secured door open
- Ligature resistant design
- For use with Von Duprin 9875/9975 mortise lock exit device
- Built-in lock protector prevents tampering
- Non-handed

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 11 Gauge (0.120" thick)   |
| Material substrate | 304 Series stainless steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications.  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ For door thickness 1 3/4"-2 1/4"                             <ul style="list-style-type: none"> <li>- 10-24 X 1" and 10-24 X 1 1/2" mounting screw size</li> </ul> </li> <li>▪ Can be mounted directly to Von Duprin 9875/9975 device</li> <li>▪ Standard mounting - Welded studs fasten with pan head screws on opposite side of door</li> <li>▪ Optional through bolt mounting - bolt through face of trim into device for added security</li> </ul> |

### Dimensions

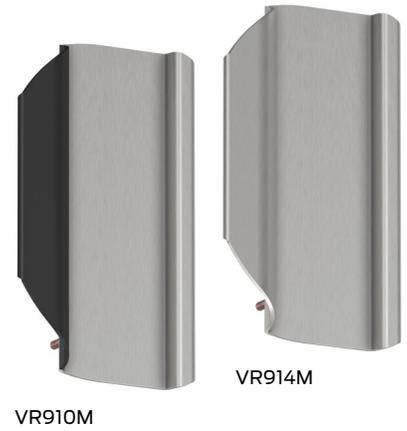
| Width  | Height | Through bolt pattern<br>(4 holes) | Clearance grip to door | Projection |
|--------|--------|-----------------------------------|------------------------|------------|
| 7 1/4" | 11"    | 1 3/8" wide x 7" high             | 1 1/2"                 | 1 7/8"     |

### Finishes

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

Models are available with or without attractive black plastisol edge grip.

Custom finishes are available as engineering special, consult customer service.



VR910M

VR914M

## Pulls, push bars and plates

### Vandal resistant trim

# VR910M-NL / VR914M-NL

## Vandal resistant mortise night latch trim, LHR and RHR options, (models with and without black grip)

- VR910M-NL (LHR or RHR) with black grip, VR914M-NL (LHR or RHR) without black grip
- Closed pull design eliminates a hooking point to be able to forcibly pull a secured door open
- Ligature resistant design
- For use with Von Duprin 9875/9975 mortise lock exit device
- Night latch operation (cylinder not furnished)
- Built-in lock protector prevents tampering on certain models
- Through bolts direct to the exit device
- Non-handed, horizontal keyway
- 1 5/8" cylinder hole cut-out on door, centered on horizontal center line and 1/4" offset from vertical center line towards the lock side of the door
- Designed for use with 1 1/4" cylinders
  - Other cylinders may require additional blocking rings, not supplied
- Supplied with protective cylinder collar
  - Collar spins to reduce damage from pipe wrench or other tool
- Additional cut-outs and locations are available as engineering special, consult customer service



VR910M

VR914M

### Specifications

|                    |   |
|--------------------|---|
| Available sizes    | 11 Gauge (0.120" thick)   |
| Material substrate | 304 Series stainless steel standard, exceeding industry standards for corrosion resistance. Recommended for external applications.  |
| Mounting hardware  | <ul style="list-style-type: none"> <li>▪ For door thickness 1 3/4"-2 1/4"           <ul style="list-style-type: none"> <li>– 10-24 X 1" and 10-24 X 1 1/2" mounting screw size</li> </ul> </li> <li>▪ Can be mounted directly to Von Duprin 9875/9975 device</li> <li>▪ Standard mounting - Welded studs fasten with pan head screws on opposite side of door</li> <li>▪ Optional through bolt mounting - bolt through face of trim into device for added security</li> </ul> |

### Dimensions

| Width  | Height | Through bolt pattern (4 holes) | Clearance grip to door | Projection |
|--------|--------|--------------------------------|------------------------|------------|
| 7 1/4" | 11"    | 1 3/4" wide x 7" high          | 1 1/2"                 | 1 7/8"     |

### Finishes

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

Models are available with or without attractive black plastisol edge grip.

Custom finishes are available as engineering special, consult customer service.

# Flush pulls and sliding door pulls

Flush pulls are designed to complement sliding and pocket door applications. Flush pulls help maximize the space-saving benefits derived from installing sliding and pocket doors. Ives flush pull line has high quality pulls with upscale appearances that improve the look and feel of an interior sliding door or pocket door design. Whether standard or decorative flush pulls are needed, Ives offers various finishes, shapes, and sizes for any application.



Introduction

Table of contents

Hinges and pivots

**Pulls, push bars and plates**

Flush bolts, strikes and coordinators

Latches, catches and bolts

Door stops, holders and silencers

Exterior hardware

Miscellaneous hardware

## Pulls, push bars and plates

### Flush pulls and sliding door pulls

# 22

#### Flush pull - rectangle

- Low profile makes this pull ideal for louvered, bi-folding or wardrobe doors
- Extra deep recess and reverse tapered grip provide for ease of pulling and gripping
- Packaged with fasteners for wood applications

#### Specifications

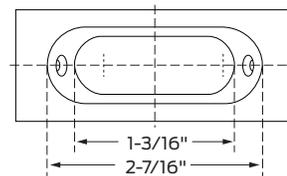
|                    |  |
|--------------------|--|
| Material substrate | Made from wrought brass                        |
| Certifications     | Meets ANSI/BHMA 156.9 B22201 and A156.14 D2781 |

#### Dimensions

|  |
|--|
| 1 <sup>5</sup> / <sub>16</sub> " high x 3 <sup>1</sup> / <sub>8</sub> " wide x <sup>7</sup> / <sub>16</sub> " deep |
|--|

#### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 609  | Satin Brass       | Brass     | B5         |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |



# 218

#### Flush pull - small circle

- Ideal for use on sliding doors
- Easy installation
- Packaged 4 per bag

#### Specifications

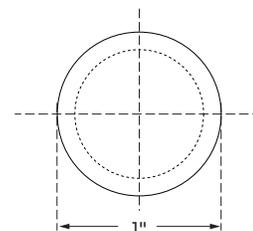
|                    |  |
|--------------------|--|
| Material substrate | Made from wrought brass                        |
| Certifications     | Meets ANSI/BHMA 156.9 B22201 and A156.14 D2781 |

#### Dimensions

|  |
|--|
| ▪ Inside cup diameter: <sup>3</sup> / <sub>4</sub> " |
| ▪ Overall diameter: 1"                               |
| ▪ Depth: <sup>3</sup> / <sub>8</sub> "               |

#### Finishes

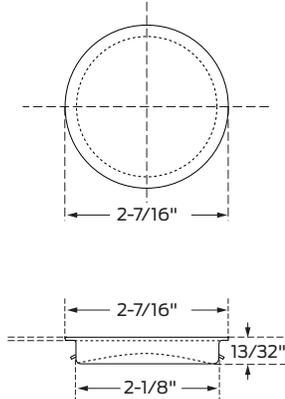
| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 609  | Satin Brass       | Brass     | B5         |
| 612  | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |



# 221

## Flush pull - large circle

- Ideal for use on sliding doors
- Built-in prong design eliminates the need for screws or brads and facilitates installation
- Packed with two escutcheon pins for added holding power



### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from wrought brass                        |
| Certifications     | Meets ANSI/BHMA 156.9 B22201 and A156.14 D2781 |

### Dimensions

- Inside cup diameter: 2 1/8"
- Overall diameter: 2 7/16"
- Depth: 7/16"

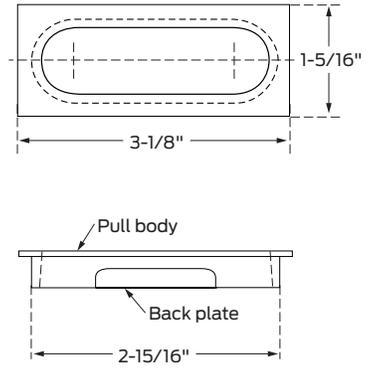
### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 609  | Blackened Brass   | Brass     | B5         |
| 612  | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |

# 222

## Flush pull - rectangle

- Low profile makes this pull ideal for louvered, bi-folding or wardrobe doors
- Reverse tapered grip provide for ease of pulling



### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass                           |
| Certifications     | Meets ANSI/BHMA 156.9 B12201 and A156.14 D1781 |

### Dimensions

3 1/8" high x 1 5/16" wide x 15/32" deep

### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 609  | Blackened Brass   | Brass     | B5         |
| 612  | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |

## Pulls, push bars and plates

### Flush pulls and sliding door pulls

# 223

#### Flush pull - oval

- Low profile makes this pull ideal for louvered, bi-folding or wardrobe doors
- Packaged with fasteners for wood applications

#### Specifications

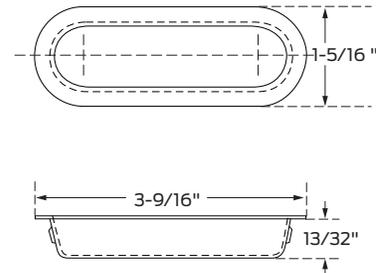
|                    |  |
|--------------------|--|
| Material substrate | Made from wrought brass                        |
| Certifications     | Meets ANSI/BHMA 156.9 B22201 and A156.14 D2781 |

#### Dimensions

3 9/16" high x 1 5/16" wide x 1/32" deep

#### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 612  | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |



# 227

#### Flush pull - deep well

- Contoured for ease of pulling
- Extra deep well
- Packaged with fasteners for wood applications

#### Specifications

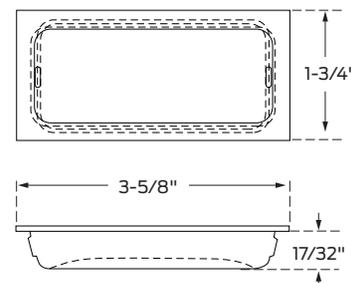
|                    |  |
|--------------------|--|
| Material substrate | Made from wrought brass                        |
| Certifications     | Meets ANSI/BHMA 156.9 B22201 and A156.14 D2781 |

#### Dimensions

3 5/8" high x 1 3/4" wide x 9/16" deep

#### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 609  | Blackened Brass   | Brass     | B5         |
| 612  | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |



# 919

## Decorative flush pull - oval

- Contoured for ease of pulling
- Packaged with fasteners for wood applications - Surface #6 X 3/4" OH PH

### Specifications

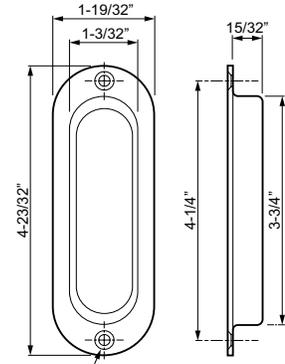
|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from brass                   |
| Certifications     | Meets ANSI/BHMA 156.9 and A156.14 |

### Dimensions

4 23/32" high x 1 19/22" wide x 15/32" deep

### Finishes

| BHMA | Description  | Substrate | Finish |
|------|--------------|-----------|--------|
| 626  | Satin Chrome | Brass     | US26D  |



# 950

## Decorative flush pull - rectangle

- Features a finger pocket for ease of pulling.
- Packaged with fasteners for wood applications - Concealed #6 X 3/4" OH PH

### Specifications

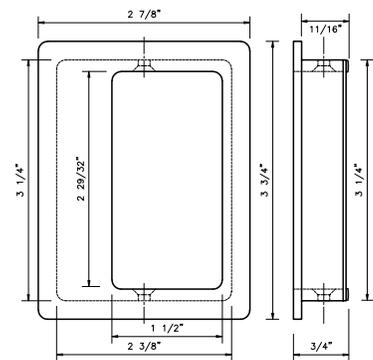
|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from brass                   |
| Certifications     | Meets ANSI/BHMA 156.9 and A156.14 |

### Dimensions

3 3/4" high x 2 7/8" wide x 11/16" deep

### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright brass      | Brass     | US3    |
| 613  | Oil rubbed bronze | Brass     | US10B  |
| 619  | Satin nickel      | Brass     | US15   |
| 625  | Bright chrome     | Brass     | US26   |
| 626  | Satin chrome      | Brass     | US26D  |



## Pulls, push bars and plates

### Flush pulls and sliding door pulls

# 955

#### Decorative flush pull - square, deep well

- Features a finger pocket for ease of pulling
- Packaged with fasteners for wood applications - Exposed #6 X 3/4" FH PH

#### Specifications

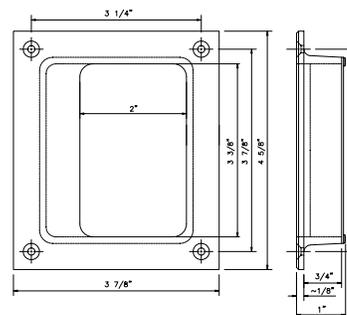
|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from brass                   |
| Certifications     | Meets ANSI/BHMA 156.9 and A156.14 |

#### Dimensions

4 5/8" high x 3 7/8" wide x 1" deep

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 626  | Satin Chrome      | Brass     | US26D  |



# 960

#### Decorative flush pull - rectangle

- Features a finger pocket for ease of pulling
- Packaged with fasteners for wood applications - Concealed #6 X 3/4" OH PH

#### Specifications

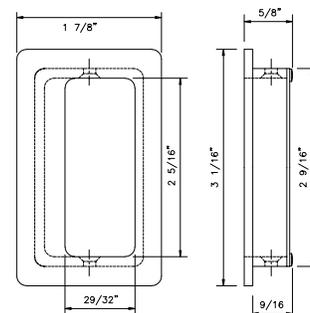
|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from brass                   |
| Certifications     | Meets ANSI/BHMA 156.9 and A156.14 |

#### Dimensions

3 1/16" high x 1 7/8" wide x 9/16" deep

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright brass      | Brass     | US3    |
| 613  | Oil rubbed bronze | Brass     | US10B  |
| 619  | Satin nickel      | Brass     | US15   |
| 625  | Bright chrome     | Brass     | US26   |
| 626  | Satin chrome      | Brass     | US26D  |



# 962

#### Decorative flush pull - rectangle

- Features a finger pocket for ease of pulling
- Black painted finger pocket
- Packaged with fasteners for wood applications - Concealed #8 X 3/4" OH PH

#### Specifications

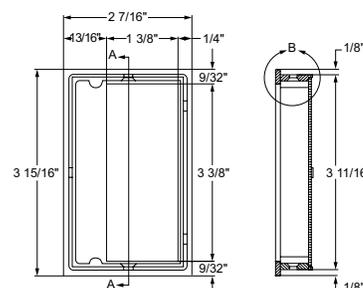
|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from brass                   |
| Certifications     | Meets ANSI/BHMA 156.9 and A156.14 |

#### Dimensions

3 15/16" high x 2 7/16" wide x 19/32" deep

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 626  | Satin Chrome      | Brass     | US26D  |



# 230

## Sliding door edge pull

- ¾" width allows installation on narrow as well as standard doors
- Spring automatically returns lever flush with plate
- Packaged with fasteners for wood applications

### Specifications

|                    |                              |
|--------------------|------------------------------|
| Material substrate | Made from solid brass        |
| Certifications     | Meets ANSI/BHMA 156.14 D2801 |

### Dimensions

|                       |
|-----------------------|
| 3 7/8" high x ¾" wide |
|-----------------------|

### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 609  | Blackened Brass   | Brass     | B5         |
| 612  | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |



# 42

## Pocket sliding door bolt

- Exclusive Ives design permits emergency release of bolt from outside the door
- Spring activated design allows feather-touch action
- Mounts to face of door
- Brass grommet supplied to cap release hole, protecting the door's finish
- Packaged with fasteners for wood applications

### Specifications

|                    |                         |
|--------------------|-------------------------|
| Material substrate | Made from wrought brass |
|--------------------|-------------------------|

### Dimensions

|   |
|---|
| Overall size plate: 3 1/16" high x 1 5/32" wide |
| Strike: 1" high x ¾" wide                       |
| Depth of mortise: 5/8"                          |

### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 609  | Blackened Brass   | Brass     | B5         |
| 612  | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |



## Pulls, push bars and plates

### Flush pulls and sliding door pulls

# 990/991

#### Sliding door pull (passage and privacy models)

- 990 passage, 991 privacy
- Fits doors 1 <sup>3</sup>/<sub>8</sub>" to 1 <sup>1</sup>/<sub>2</sub>"
- Decorative coined edges
- Pre-assembled for doors opening left to right (plates are reversible)
- Packaged with fasteners for wood applications

#### Specifications

Material substrate      Body and strike made from brass or aluminum

#### Dimensions

1 <sup>3</sup>/<sub>4</sub>" D x 2 <sup>1</sup>/<sub>4</sub>" H

#### 990 and 991 Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 666  | Bright Brass      | Aluminum  | A3         |
| –    | Blackened Brass   | Aluminum  | A5         |
| 669  | Bright Nickel     | Aluminum  | A14        |
| 670  | Satin Nickel      | Aluminum  | A15        |
| 702  | Satin Chrome      | Aluminum  | A26D       |
| –    | Aged Bronze       | Aluminum  | A-643e/716 |
| 605  | Bright Brass      | Brass     | B3         |
| 613  | Oil Rubbed Bronze | Brass     | B613       |
| 619  | Satin Nickel      | Brass     | B619       |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| –    | Aged Bronze       | Brass     | B-643e/716 |



990



991

# 25

#### Screen door pull

- Also used as a window lift, drawer or utility pull
- Packaged with fasteners for wood applications

#### Specifications

Material substrate      Cast aluminum

Certifications      Meets ANSI/BHMA 156.16, L12231

#### Dimensions

- Length 4 <sup>7</sup>/<sub>8</sub>"
- Projection 1 <sup>5</sup>/<sub>32</sub>"
- Mounting holes 4 <sup>1</sup>/<sub>8</sub>" center to center

#### Finishes

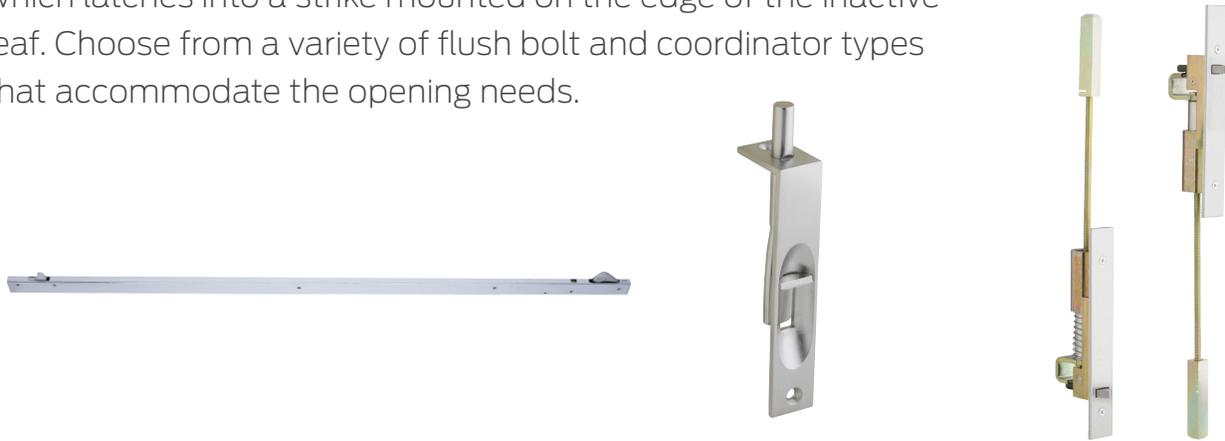
| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |
| –    | Matte Black         | Aluminum  | A-BLK  |
| –    | White               | Aluminum  | A-W    |

For other colors, consult factory.



# Flush bolts, strikes and coordinators

Ives flush bolts, dust proof strikes, and coordinators are used on pairs of doors to secure the inactive leaf, projecting into the frame head and into a floor strike. In this application, the active leaf would typically have a lockset which latches into a strike mounted on the edge of the inactive leaf. Choose from a variety of flush bolt and coordinator types that accommodate the opening needs.



- Introduction
- Table of contents
- Hinges and pivots
- Pulls, push bars and plates
- Flush bolts, strikes and coordinators
- Latches, catches and bolts
- Door stops, holders and silencers
- Exterior hardware
- Miscellaneous hardware

## Flush bolts, strikes and coordinators

### Automatic flush bolts

# FB31P/FB31T/FB31B

#### Top and bottom flush bolts - metal doors

- FB31P top and bottom bolts pair
- FB31T top bolt only
- FB31B bottom bolt only
- Only for use with metal doors
- Fully automatic—inactive door is latched, bolts are extended when active door closes, door is unlatched, bolts retract when active door is opened
- Low actuation forces—top bolt has no spring tension
- Non-handed
- Bolt throw is  $\frac{3}{4}$ " with a  $\frac{7}{8}$ " vertical adjustment
- Bolt backset is  $\frac{3}{4}$ "
- Standard rod length is 12", which is measured from the center of the flush bolt body to the bolt tip

#### Specifications

|                   |   |
|-------------------|---|
| Mounting hardware | ▪ 8-32 X $\frac{3}{8}$ " UFPHMS           |
|                   | ▪ 10-12 X $1\frac{1}{4}$ " Plastic anchor |
|                   | ▪ 6-32 X $\frac{3}{8}$ " FPHMS            |
|                   | ▪ 6 X $\frac{3}{4}$ " FPHSMS              |
|                   | ▪ 8 X 1" FPHSMS                           |
|                   | ▪ 10 X 1" FPHSMS                          |

|                |  |
|----------------|--|
| Certifications | ▪ Fits standard ANSI/BHMA A115.4 door frame preparations.                          |
|                | ▪ UL10C Listed (3 hour) fire doors 8'0" x 10'0" when both top and bottom bolt used |

#### Options

Optional rod lengths available for top bolt only on non-fire rated openings—18", 24", 36" and 48"

#### Dimensions

| Body size<br>(Width x Length x Depth) | Guide size<br>(Width x Length x Height x Thickness)                  | Strike size<br>(Width x Length x Thickness)              | Rub plate size<br>(Width x Length x Thickness)               |
|---------------------------------------|--|--|--|
| 1" x 6 $\frac{3}{4}$ " x 2"           | 1" x 1 $\frac{27}{32}$ " x 2 $\frac{27}{32}$ " x 3 $\frac{32}{32}$ " | $\frac{15}{16}$ " x 2 $\frac{1}{4}$ " x $\frac{1}{16}$ " | 1 $\frac{1}{4}$ " x 1 $\frac{11}{16}$ " x 3 $\frac{3}{64}$ " |

#### Finishes

| BHMA | Description            | Substrate       | Finish |
|------|------------------------|-----------------|--------|
| 605  | Bright brass           | Brass           | US3    |
| 606  | Satin brass            | Brass           | US4    |
| 612  | Satin bronze           | Brass           | US10   |
| 613  | Oil rubbed bronze      | Brass           | US10B  |
| BLK  | Matte black            | Stainless steel | —      |
| 629  | Bright stainless steel | Stainless steel | US32   |
| 630  | Satin stainless steel  | Stainless steel | US32D  |

Custom finishes are available as engineering special, consult customer service.

#### Additional accessories

- Security pin screws
- DP1 and DP2 dust proof strike, see page 167



# FB32 / FB33

## Top bolt with auxiliary fire latch - metal doors (models with and without retrofit plate)

- FB32 top bolt with auxiliary fire latch only
- FB33 top bolt with auxiliary fire latch and retrofit plate
- For use with metal doors only
- Fully automatic—inactive door is latched, bolts are extended when active door closes, door is unlatched, bolts retract when active door is opened
- FB32 Model with auxiliary fire latch eliminates the bottom bolt
- FB33 Model with auxiliary fire latch eliminates the bottom bolt and includes a retrofit plate to cover existing bottom bolt prep
- Low actuation forces—top bolt has no spring tension
- Non-handed
- Bolt throw is  $3/4$ " with a  $7/8$ " vertical adjustment
- Bolt backset is  $3/4$ "
- Standard rod length is 12", which is measured from the center of the flush bolt body to the bolt tip

### Specifications

|                   |  |
|-------------------|--|
| Mounting hardware | <ul style="list-style-type: none"> <li>▪ 8-32 X <math>3/8</math>" UFPHMS</li> <li>▪ 10-12 X <math>1 1/4</math>" Plastic anchor</li> <li>▪ 6-32 X <math>3/8</math>" FPHMS</li> <li>▪ 6 X <math>3/4</math>" FPHSMS</li> <li>▪ 8 X 1" FPHSMS</li> <li>▪ 10 X 1" FPHSMS</li> </ul> |
| Certifications    | <ul style="list-style-type: none"> <li>▪ Fits standard ANSI/BHMA A115.4 door frame preparations</li> <li>▪ UL10C Listed (3 hour) fire doors 8'0" x 8'0"</li> </ul>   |

### Options

Optional rod lengths available for top bolt only on non-fire rated openings—18", 24", 36" and 48"

### Dimensions

| Body size<br>(Width x Length x Depth)          | Guide size<br>(Width x Length x Height x Thickness)   | Strike size<br>(Width x Length x Thickness)         |
|--|---|---|
| 1" x $6 3/4$ " x 2"                            | 1" x $1 27/32$ " x $27/32$ " x $3/32$ "               | $15/16$ " x $2 1/4$ " x $1/16$ "                    |
| Rub plate size<br>(Width x Length x Thickness) | Auxiliary fire latch size<br>(Width x Length x Depth) | Retrofit plate size<br>(Width x Length x Thickness) |
| $1 1/4$ " x $1 1/16$ " x $3/64$ "              | 1" x $1 3/4$ " x $3 1/4$ "                            | 1" x $6 3/4$ " x $3/32$ "                           |

### Finishes

| BHMA | Description            | Substrate       | Finish |
|------|------------------------|-----------------|--------|
| 605  | Bright Brass           | Brass           | US3    |
| 606  | Satin Brass            | Brass           | US4    |
| 612  | Satin Bronze           | Brass           | US10   |
| 613  | Oil Rubbed Bronze      | Brass           | US10B  |
| BLK  | Matte Black            | Stainless steel | —      |
| 629  | Bright Stainless Steel | Stainless steel | US32   |
| 630  | Satin Stainless Steel  | Stainless steel | US32D  |

Custom finishes are available as engineering special, consult customer service.

### Additional accessories

- Security pin screws



Top bolt

Auxiliary fire latch

## Flush bolts, strikes and coordinators

### Automatic flush bolts

# FB41P/FB41T/FB41B

#### Top bolt and bottom bolts - wood doors

- FB41P top and bottom bolts (pair)
- FB41T top bolt only
- FB41B bottom bolt only
- For use with wood doors only
- Fully automatic—inactive door is latched, bolts are extended when active door closes, door is unlatched, bolts retract when active door is opened
- Low actuation forces—top bolt has no spring tension
- Non-handed
- Bolt throw is  $\frac{3}{4}$ " with a  $\frac{7}{8}$ " vertical adjustment
- Bolt backset is  $\frac{3}{4}$ "

#### Specifications

|                   |   |
|-------------------|---|
| Mounting hardware | <ul style="list-style-type: none"> <li>▪ 8-32 X <math>\frac{3}{8}</math>" UFPHMS</li> <li>▪ 10-12 X <math>1\frac{1}{4}</math>" Plastic anchor</li> <li>▪ 6-32 X <math>\frac{3}{8}</math>" FPHMS</li> <li>▪ 6 X <math>\frac{3}{4}</math>" FPHSMS</li> <li>▪ 8 X 1" FPHSMS</li> <li>▪ 10 X 1" FPHSMS</li> </ul> |
| Certifications    | <ul style="list-style-type: none"> <li>▪ UL10C Listed (90 min) fire doors 8'0" x 8'0" when top and bottom bolts used</li> </ul>   |

#### Options

Optional rod lengths available for top bolt only on non-fire rated openings—18", 24", 36" and 48"

#### Dimensions

| Body size<br>(Width x Length x Depth) | Guide size<br>(Width x Length x Height x Thickness) | Strike size<br>(Width x Length x Thickness)              | Rub plate size<br>(Width x Length x Thickness)             |
|---------------------------------------|---|--|--|
| 1" x 8 $\frac{1}{2}$ " x 2"           | 1" x 6" x $\frac{1}{8}$ "                           | $\frac{15}{16}$ " x 2 $\frac{1}{4}$ " x $\frac{1}{16}$ " | 1 $\frac{1}{4}$ " x 1 $\frac{11}{16}$ " x $\frac{3}{64}$ " |

#### Finishes

| BHMA | Description            | Substrate       | Finish |
|------|------------------------|-----------------|--------|
| 605  | Bright Brass           | Brass           | US3    |
| 606  | Satin Brass            | Brass           | US4    |
| 612  | Satin Bronze           | Brass           | US10   |
| 613  | Oil Rubbed Bronze      | Brass           | US10B  |
| BLK  | Matte Black            | Stainless steel | —      |
| 629  | Bright Stainless Steel | Stainless steel | US32   |
| 630  | Satin Stainless Steel  | Stainless steel | US32D  |

Custom finishes are available as engineering special, consult customer service.

#### Additional accessories

- Security pin screws
- DP1 and DP2 dust proof strike, see page 167



Top bolt

Bottom bolt

## Flush bolts, strikes and coordinators

### Automatic flush bolts

# FB42

#### Top bolt with auxiliary fire latch - wood doors

- For use with wood doors only
- Fully automatic—inactive door is latched, bolts are extended when active door closes, door is unlatched, bolts retract when active door is opened
- FB42 Model with auxiliary fire latch eliminates the bottom bolt
- Low actuation forces—top bolt has no spring tension
- Non-handed
- Bolt throw is  $\frac{3}{4}$ " with a  $\frac{7}{8}$ " vertical adjustment
- Bolt backset is  $\frac{3}{4}$ "



#### Specifications

|                   |  |
|-------------------|--|
| Mounting hardware | <ul style="list-style-type: none"><li>▪ 8-32 X <math>\frac{3}{8}</math>" UFPHMS</li><li>▪ 10-12 X <math>1\frac{1}{4}</math>" Plastic anchor</li><li>▪ 6-32 X <math>\frac{3}{8}</math>" FPHMS</li><li>▪ 6 X <math>\frac{3}{4}</math>" FPHSMS</li><li>▪ 8 X 1" FPHSMS</li><li>▪ 10 X 1" FPHSMS</li></ul> |
|-------------------|--|

Certifications UL10C Listed (20 min) fire doors 8'0" x 8'0"

#### Dimensions

| Body size<br>(Width x Length x Depth)                      | Guide size<br>(Width x Length x Height x Thickness)   | Strike size<br>(Width x Length x Thickness)              |
|--|---|--|
| 1" x 8 $\frac{1}{2}$ " x 2"                                | 1" x 6" x $\frac{1}{8}$ "                             | $\frac{15}{16}$ " x 2 $\frac{1}{4}$ " x $\frac{1}{16}$ " |
| Rub plate size<br>(Width x Length x Thickness)             | Auxiliary fire latch size<br>(Width x Length x Depth) |  |
| 1 $\frac{1}{4}$ " x 1 $\frac{11}{16}$ " x $\frac{3}{64}$ " | 1" x 1 $\frac{3}{4}$ " x 3 $\frac{1}{4}$ "            |  |

#### Finishes

| BHMA | Description            | Substrate       | Finish |
|------|------------------------|-----------------|--------|
| 605  | Bright Brass           | Brass           | US3    |
| 606  | Satin Brass            | Brass           | US4    |
| 612  | Satin Bronze           | Brass           | US10   |
| 613  | Oil Rubbed Bronze      | Brass           | US10B  |
| BLK  | Matte Black            | Stainless steel | —      |
| 629  | Bright Stainless Steel | Stainless steel | US32   |
| 630  | Satin Stainless Steel  | Stainless steel | US32D  |

Custom finishes are available as engineering special, consult customer service.

#### Additional accessories

- Security pin screws

## Flush bolts, strikes and coordinators

### Constant latching flush bolts

# FB51P/FB51T

#### Top bolt and bottom bolts - metal doors

- FB51P top and bottom bolts (pair)
- FB51T top bolt only
- For use with metal doors only
- Constant latching—inactive door remains latched until the active door is opened, releasing the automatic bottom bolt and then the top bolt can be manually released (inactive door will re-latch automatically when closed)
- Low actuation forces
- Non-handed
- Bolt throw is  $\frac{3}{4}$ " with a  $\frac{7}{8}$ " vertical adjustment
- Bolt backset is  $\frac{3}{4}$ "
- Standard rod length is 12", which is measured from the center of the flush bolt body to the bolt tip

#### Specifications

|                   |   |
|-------------------|---|
| Mounting hardware | <ul style="list-style-type: none"> <li>▪ 8-32 X <math>\frac{3}{8}</math>" UFPHMS</li> <li>▪ 10-12 X <math>1\frac{1}{4}</math>" Plastic anchor</li> <li>▪ 6-32 X <math>\frac{3}{8}</math>" FPHMS</li> <li>▪ 6 X <math>\frac{3}{4}</math>" FPHSMS</li> <li>▪ 8 X 1" FPHSMS</li> <li>▪ 10 X 1" FPHSMS</li> </ul> |
| Certifications    | <ul style="list-style-type: none"> <li>▪ Fits standard ANSI/BHMA A115.4 door frame preparations.</li> <li>▪ UL10C Listed (3 hour) fire doors 8'0" X 10'0" when top and bottom bolts are used</li> </ul>   |

#### Options

Optional rod lengths available for top bolt only on non-fire rated openings—18", 24", 36" and 48"

#### Dimensions

| Body size<br>(Width x Length x Depth) | Guide size<br>(Width x Length x Height x Thickness)              | Strike size<br>(Width x Length x Thickness)              | Rub plate size<br>(Width x Length x Thickness)             |
|---------------------------------------|--|--|--|
| 1" x 6 $\frac{3}{4}$ " x 2"           | 1" x 1 $\frac{27}{32}$ " x 1 $\frac{1}{16}$ " x $\frac{3}{32}$ " | $\frac{15}{16}$ " x 2 $\frac{1}{4}$ " x $\frac{1}{16}$ " | 1 $\frac{1}{4}$ " x 1 $\frac{11}{16}$ " x $\frac{3}{64}$ " |

#### Finishes

| BHMA | Description            | Substrate       | Finish |
|------|------------------------|-----------------|--------|
| 605  | Bright Brass           | Brass           | US3    |
| 606  | Satin Brass            | Brass           | US4    |
| 612  | Satin Bronze           | Brass           | US10   |
| 613  | Oil Rubbed Bronze      | Brass           | US10B  |
| BLK  | Matte Black            | Stainless steel | —      |
| 629  | Bright Stainless Steel | Stainless steel | US32   |
| 630  | Satin Stainless Steel  | Stainless steel | US32D  |

Custom finishes are available as engineering special, consult customer service.

#### Additional accessories

- Security pin screws
- DPI and DP2 dust proof strike, see page 167



Top bolt

Bottom bolt

# FB52 / FB53

## Top bolt with auxiliary fire latch - metal doors (models with and without retrofit plate)

- FB52 top bolt with auxiliary fire latch only
- FB53 top bolt with auxiliary fire latch and retrofit plate
- For use with metal doors only
- Constant latching—inactive door remains latched until the active door is opened, releasing the automatic bottom bolt and then the top bolt can be manually released (inactive door will re-latch automatically when closed)
  - FB52 Model with auxiliary fire latch eliminates the bottom bolt
  - FB53 Model with auxiliary fire latch eliminates the bottom bolt and includes a retrofit plate to cover existing bottom bolt prep
- Low actuation forces
- Non-handed
- Bolt throw is  $\frac{3}{4}$ " with a  $\frac{7}{8}$ " vertical adjustment
- Bolt backset is  $\frac{3}{4}$ "
- Standard rod length is 12", which is measured from the center of the flush bolt body to the bolt tip

### Specifications

|                   |   |
|-------------------|---|
| Mounting hardware | <ul style="list-style-type: none"> <li>▪ 8-32 X <math>\frac{3}{8}</math>" UFPHMS</li> <li>▪ 10-12 X <math>1\frac{1}{4}</math>" Plastic anchor</li> <li>▪ 6-32 X <math>\frac{3}{8}</math>" FPHMS</li> <li>▪ 6 X <math>\frac{3}{4}</math>" FPHSMS</li> <li>▪ 8 X 1" FPHSMS</li> <li>▪ 10 X 1" FPHSMS</li> </ul> |
| Certifications    | <ul style="list-style-type: none"> <li>▪ Fits standard ANSI/BHMA A115.4 door frame preparations</li> <li>▪ UL10C Listed (3 hour) fire doors 8'0" x 8'0"</li> </ul>  |

### Options

Optional rod lengths available for top bolt only on non-fire rated openings—18", 24", 36" and 48"

### Dimensions

| Body size<br>(Width x Length x Depth)                    | Guide size<br>(Width x Length x Height x Thickness)                           | Strike size<br>(Width x Length x Thickness)             |
|--|---|---|
| $1\frac{1}{2}$ " x $6\frac{3}{4}$ " x 2"                 | $1\frac{1}{2}$ " x $1\frac{27}{32}$ " x $1\frac{11}{16}$ " x $\frac{3}{32}$ " | $\frac{15}{16}$ " x $2\frac{1}{4}$ " x $\frac{1}{16}$ " |
| Rub plate size<br>(Width x Length x Thickness)           | Auxiliary fire latch size<br>(Width x Length x Depth)                         | Retrofit plate size<br>(Width x Length x Thickness)     |
| $1\frac{1}{4}$ " x $1\frac{11}{16}$ " x $\frac{3}{64}$ " | $1\frac{1}{2}$ " x $1\frac{3}{4}$ " x $3\frac{1}{4}$ "                        | $1\frac{1}{2}$ " x $6\frac{3}{4}$ " x $\frac{3}{32}$ "  |

### Finishes

| BHMA | Description            | Substrate       | Finish |
|------|------------------------|-----------------|--------|
| 605  | Bright Brass           | Brass           | US3    |
| 606  | Satin Brass            | Brass           | US4    |
| 612  | Satin Bronze           | Brass           | US10   |
| 613  | Oil Rubbed Bronze      | Brass           | US10B  |
| BLK  | Matte Black            | Stainless steel | –      |
| 629  | Bright Stainless Steel | Stainless steel | US32   |
| 630  | Satin Stainless Steel  | Stainless steel | US32D  |

Custom finishes are available as engineering special, consult customer service.

### Additional accessories

- Security pin screws



## Flush bolts, strikes and coordinators

### Constant latching flush bolts

# FB61P/FB61T

#### Top bolt and bottom bolts - wood doors

- FB61P top and bottom bolts (pair)
- FB61T top bolt only
- For use with wood doors only
- Constant latching—inactive door remains latched until the active door is opened, releasing the automatic bottom bolt and then the top bolt can be manually released (inactive door will re-latch automatically when door closes)
- Low actuation forces
- Non-handed
- Bolt throw is  $\frac{3}{4}$ " with a  $\frac{7}{8}$ " vertical adjustment
- Bolt backset is  $\frac{3}{4}$ "

#### Specifications

|                   |   |
|-------------------|---|
| Mounting hardware | <ul style="list-style-type: none"> <li>▪ 8-32 X <math>\frac{3}{8}</math>" UFPHMS</li> <li>▪ 10-12 X <math>1\frac{1}{4}</math>" Plastic anchor</li> <li>▪ 6-32 X <math>\frac{3}{8}</math>" FPHMS</li> <li>▪ 6 X <math>\frac{3}{4}</math>" FPHSMS</li> <li>▪ 8 X 1" FPHSMS</li> <li>▪ 10 X 1" FPHSMS</li> </ul> |
|-------------------|---|

|                |  |
|----------------|--|
| Certifications | UL10C Listed (90 min) fire doors 8'0" X 8'0" |
|----------------|--|

#### Dimensions

| Body size<br>(Width x Length x Depth) | Guide size<br>(Width x Length x Height x Thickness) | Strike size<br>(Width x Length x Thickness)              | Rub plate size<br>(Width x Length x Thickness)            |
|---------------------------------------|---|--|---|
| 1" x 8 $\frac{1}{2}$ " x 2"           | 1" x 6" x $\frac{1}{8}$ "                           | $\frac{15}{16}$ " x 2 $\frac{1}{4}$ " x $\frac{1}{16}$ " | 1 $\frac{1}{4}$ " x 1 $\frac{1}{16}$ " x $\frac{3}{64}$ " |

#### Finishes

| BHMA | Description            | Substrate       | Finish |
|------|------------------------|-----------------|--------|
| 605  | Bright Brass           | Brass           | US3    |
| 606  | Satin Brass            | Brass           | US4    |
| 612  | Satin Bronze           | Brass           | US10   |
| 613  | Oil Rubbed Bronze      | Brass           | US10B  |
| BLK  | Matte Black            | Stainless steel | —      |
| 629  | Bright Stainless Steel | Stainless steel | US32   |
| 630  | Satin Stainless Steel  | Stainless steel | US32D  |

Custom finishes are available as engineering special, consult customer service.

#### Additional accessories

- Security pin screws
- DPI and DP2 dust proof strike, see page 167



## Flush bolts, strikes and coordinators

### Constant latching flush bolts

# FB62

#### Top bolt with auxiliary fire latch - wood doors

- For use with wood doors only
- Fully automatic—inactive door is latched, bolts are extended when active door closes, door is unlatched, bolts retract when active door is opened
  - FB62 model with auxiliary fire latch eliminates the bottom bolt
- Low actuation forces
- Non-handed
- Bolt throw is  $\frac{3}{4}$ " with a  $\frac{7}{8}$ " vertical adjustment
- Bolt backset is  $\frac{3}{4}$ "

#### Specifications

|                   |   |
|-------------------|---|
| Mounting hardware | <ul style="list-style-type: none"> <li>▪ 8-32 X <math>\frac{3}{8}</math>" UFPHMS</li> <li>▪ 10-12 X <math>1\frac{1}{4}</math>" Plastic anchor</li> <li>▪ 6-32 X <math>\frac{3}{8}</math>" FPHMS</li> <li>▪ 6 X <math>\frac{3}{4}</math>" FPHSMS</li> <li>▪ 8 X 1" FPHSMS</li> <li>▪ 10 X 1" FPHSMS</li> </ul> |
| Certifications    | UL10C Listed (20 min) fire doors 8'0" x 8'0"  |

#### Dimensions

| Body size<br>(Width x Length x Depth)                      | Guide size<br>(Width x Length x Height x Thickness)   | Strike size<br>(Width x Length x Thickness)              |
|--|---|--|
| 1" x 8 $\frac{1}{2}$ " x 2"                                | 1" x 6" x $\frac{1}{8}$ "                             | $\frac{15}{16}$ " x 2 $\frac{1}{4}$ " x $\frac{1}{16}$ " |
| Rub plate size<br>(Width x Length x Thickness)             | Auxiliary fire latch size<br>(Width x Length x Depth) |  |
| 1 $\frac{1}{4}$ " x 1 $\frac{11}{16}$ " x $\frac{3}{64}$ " | 1" x 1 $\frac{3}{4}$ " x 3 $\frac{1}{4}$ "            |  |

#### Finishes

| BHMA | Description            | Substrate       | Finish |
|------|------------------------|-----------------|--------|
| 605  | Bright Brass           | Brass           | US3    |
| 606  | Satin Brass            | Brass           | US4    |
| 612  | Satin Bronze           | Brass           | US10   |
| 613  | Oil Rubbed Bronze      | Brass           | US10B  |
| BLK  | Matte Black            | Stainless steel | –      |
| 629  | Bright Stainless Steel | Stainless steel | US32   |
| 630  | Satin Stainless Steel  | Stainless steel | US32D  |

Custom finishes are available as engineering special, consult customer service.

#### Additional accessories

- Security pin screws



## Flush bolts, strikes and coordinators

### Manual flush bolts

Exceptionally smooth working flush bolts with sharp, crisp lines. Double action spring design provides automatic holding of brass bolt in projected or retracted position, and assures ease of operation in conjunction with deep cup finger hole.

# 261

## Flush bolt - 4"

- Made from polished cast brass
- Bolt tip is  $\frac{5}{16}$ " diameter
- Bolt throw is  $\frac{3}{4}$ "
- Bolt backset is  $\frac{15}{32}$ "

### Specifications

|                   |                              |
|-------------------|------------------------------|
| Mounting hardware | ▪ 5 X $\frac{5}{8}$ " FPHSMS |
|                   | ▪ 8 X $\frac{3}{4}$ " FPHSMS |

### Dimensions

| Body size<br>(Width x Length x Depth)   | Strike size<br>(Width x Length)                         |
|---|---|
| $\frac{3}{4}$ " x 4" x $1\frac{1}{8}$ " | $\frac{15}{16}$ " x $2\frac{1}{4}$ " x $\frac{1}{16}$ " |



# 262

## Flush bolt - 6" square end

- Made from polished cast brass
- Bolt tip is  $\frac{1}{2}$ " diameter
- Bolt throw is 1"
- Bolt backset is  $\frac{15}{32}$ "

### Specifications

|                   |                              |
|-------------------|------------------------------|
| Mounting hardware | ▪ 5 X $\frac{5}{8}$ " FPHSMS |
|                   | ▪ 8 X $\frac{3}{4}$ " FPHSMS |

### Dimensions

| Body size<br>(Width x Length x Depth)    | Strike size<br>(Width x Length)    |
|--|------------------------------------|
| $\frac{3}{4}$ " x 6" x $1\frac{1}{32}$ " | $\frac{7}{8}$ " x $1\frac{3}{4}$ " |



A flush bolt with radiused bottom faceplate designed specifically for simple one-step router installation. Double action spring design provides automatic holding of brass bolt in projected or retracted position, and assures ease of operation in conjunction with deep cup finger hole.

# 265

## Flush bolt - 6" round end

- Faceplate is polished solid brass; bolt is made from aluminum zinc alloy
- Bolt tip is  $\frac{1}{2}$ " diameter
- Bolt throw is 1"
- Bolt backset is  $\frac{1}{2}$ "

### Specifications

|                   |                              |
|-------------------|------------------------------|
| Mounting hardware | ▪ 5 X $\frac{5}{8}$ " FPHSMS |
|                   | ▪ 8 X $\frac{3}{4}$ " FPHSMS |

### Dimensions

| Body size<br>(Width x Length x Depth)    | Strike size<br>(Width x Length)    |
|--|------------------------------------|
| $\frac{3}{4}$ " x 6" x $1\frac{7}{16}$ " | $\frac{7}{8}$ " x $1\frac{3}{4}$ " |



## 261, 262 and 265 Finishes

| BHMA | Description            | Substrate | Finish |
|------|------------------------|-----------|--------|
| 605  | Bright Brass           | Brass     | US3    |
| 609  | Satin Brass, Blackened | Brass     | US5    |
| 613  | Oil Rubbed Bronze      | Brass     | US10B  |
| 619  | Satin Nickel           | Brass     | US15   |
| 625  | Bright Chrome          | Brass     | US26   |
| 626  | Satin Chrome           | Brass     | US26D  |

Custom finishes are available as engineering special, consult customer service.

# FB358

## Top or bottom bolts - wood doors

- When the active door is opened, the lever can be moved to the 'up' position, retracting the bolt and allowing the inactive leaf to be opened
  - When the inactive leaf is closed, the lever can be moved to the 'down' position, projecting the bolt into the strike and securely locking the inactive leaf
- Reduces installation costs; requires only simple router mortise at top and bottom corners of doors
- Door strength and rigidity maintained by tying door faces to reinforcing extensions on guide with machine screws and bearing washers, not supplied
- Non-handed
- Bolt tip 1/2" diameter
- Bolt throw is 3/4" with a 7/8" vertical adjustment
- Bolt backset is 3/4"
- Not available for rabbeted door installations



## Specifications

|                   |  |
|-------------------|--|
| Mounting hardware | <ul style="list-style-type: none"> <li>8 X 1" FPHSMS</li> <li>8 X 3/4" FPHSMS</li> </ul>           |
| Certifications    | UL10C Listed (90 min) fire doors 8'0" X 10'0"<br>(fire rated openings require top and bottom bolt) |

## Dimensions

| Body size<br>(Width x Length x Depth) | Guide size<br>(Width x Length x Height x Thickness) | Strike size<br>(Width x Length x Thickness) |
|---------------------------------------|---|---|
| 1" x 6 3/4" x 1 3/8"                  | 1" x 2 1/2" x 5/64"                                 | 15/16" x 2 1/4" x 5/64"                     |

## Finishes

| BHMA     | Description       | Substrate | Finish |
|----------|-------------------|-----------|--------|
| 605      | Bright Brass      | Brass     | US3    |
| 606      | Satin Brass       | Brass     | US4    |
| 612      | Satin Bronze      | Brass     | US10   |
| 613      | Oil Rubbed Bronze | Brass     | US10B  |
| 619      | Satin Nickel      | Brass     | US15   |
| 622      | Matte Black       | Brass     | BLK    |
| 625      | Bright Chrome     | Brass     | US26   |
| 626      | Satin Chrome      | Brass     | US26D  |
| 643e/716 | Aged Bronze       | Brass     | -      |

Custom finishes are available as engineering special, consult customer service.

## Additional accessories

- DP1 and DP2 dust proof strike, see page 167

## Flush bolts, strikes and coordinators

### Manual flush bolts

# FB457

#### Top or bottom bolts - metal doors

- When the active door is opened, the lever can be moved to the 'up' position, retracting the bolt and allowing the inactive leaf to be opened
  - When the inactive leaf is closed, the lever can be moved to the 'down' position, projecting the bolt into the strike and securely locking the inactive leaf
- Simplified installation in metal frames
  - Round bolt head requires only a punched hole
  - Use of strike optional
  - Special design of guide and flat sided bolt tip to prevent bolt rotation
- Non-handed
- Bolt tip  $\frac{1}{2}$ " diameter
- Bolt throw is  $\frac{3}{4}$ " with a  $\frac{7}{8}$ " vertical adjustment
- Bolt backset is  $\frac{3}{4}$ "
- Standard rod length is 12", which is measured from the center of the flush bolt body to the bolt tip

#### Specifications

|                   |  |
|-------------------|--|
| Mounting hardware | 8-32 X 1" FPHMS  |
| Certifications    | UL10C Listed (3 hour) fire doors 8'0" X 10'0"<br>(fire rated openings require top and bottom bolt) |

#### Options

Optional rod lengths available for top bolt only on non-fire rated openings—18", 24" for fire rated doors with AHJ approval, 36" and 48" for non-fire rated doors

#### Dimensions

| Body size<br>(Width x Length x Depth)                     | Guide size<br>(Width x Length x Height x Thickness) | Strike size<br>(Width x Length x Thickness)                |
|---|---|--|
| $1\frac{1}{4}" \times 6\frac{3}{4}" \times 1\frac{1}{8}"$ | $1" \times 2" \times \frac{5}{64}"$                 | $\frac{15}{16}" \times 2\frac{1}{4}" \times \frac{5}{64}"$ |

#### Finishes

| BHMA     | Description       | Substrate | Finish |
|----------|-------------------|-----------|--------|
| 605      | Bright Brass      | Brass     | US3    |
| 606      | Satin Brass       | Brass     | US4    |
| 612      | Satin Bronze      | Brass     | US10   |
| 613      | Oil Rubbed Bronze | Brass     | US10B  |
| 619      | Satin Nickel      | Brass     | US15   |
| 622      | Matte Black       | Brass     | BLK    |
| 625      | Bright Chrome     | Brass     | US26   |
| 626      | Satin Chrome      | Brass     | US26D  |
| 643e/716 | Aged Bronze       | Brass     | —      |

Custom finishes are available as engineering special, consult customer service.

#### Additional accessories

- DP1 and DP2 dust proof strike, see page 167



# FB458

## Top or bottom bolts - metal doors

- When the active door is opened, the lever can be moved to the ‘up’ position, retracting the bolt and allowing the inactive leaf to be opened
  - When the inactive leaf is closed, the lever can be moved to the ‘down’ position, projecting the bolt into the strike and securely locking the inactive leaf
- Simplified installation in metal frames
  - Round bolt head requires only a punched hole
  - Use of strike optional
  - Special design of guide and flat sided bolt tip to prevent bolt rotation
- Non-handed
- Bolt tip 1/2" diameter
- Bolt throw is 3/4" with a 7/8" vertical adjustment
- Bolt backset is 3/4"
- Standard rod length is 12", which is measured from the center of the flush bolt body to the bolt tip

### Specifications

|                   |  |
|-------------------|--|
| Mounting hardware | 8-32 X 1" FPHMS  |
| Certifications    | UL10C Listed (3 hour) fire doors 8'0" X 10'0"<br>(fire rated openings require top and bottom bolt) |

### Options

Optional rod lengths available for top bolt only on non-fire rated openings—18", 24" for fire rated doors with AHJ approval, 36" and 48" for non-fire rated doors

### Dimensions

| Body size<br>(Width x Length x Depth) | Guide size<br>(Width x Length x Height x Thickness) | Strike size<br>(Width x Length x Thickness) |
|---------------------------------------|---|---|
| 1" x 6 3/4" x 1 1/8"                  | 1" x 2" x 5/64"                                     | 15/16" x 2 1/4" x 5/64"                     |

### Finishes

| BHMA     | Description            | Substrate | Finish |
|----------|------------------------|-----------|--------|
| 605      | Bright Brass           | Brass     | US3    |
| 606      | Satin Brass            | Brass     | US4    |
| 609      | Satin Brass, Blackened | Brass     | US5    |
| 612      | Satin Bronze           | Brass     | US10   |
| 613      | Oil Rubbed Bronze      | Brass     | US10B  |
| 619      | Satin Nickel           | Brass     | US15   |
| 622      | Matte Black            | Brass     | BLK    |
| 625      | Bright Chrome          | Brass     | US26   |
| 626      | Satin Chrome           | Brass     | US26D  |
| 643e/716 | Aged Bronze            | Brass     | –      |

Custom finishes are available as engineering special, consult customer service.

### Additional accessories

- DP1 and DP2 dust proof strike, see page 167



## Flush bolts, strikes and coordinators

### Dust proof strikes

# DP1/DP2

#### Dust proof strike

- DP1 - round face plate
- DP2 - rectangular face plate
- Designed for use with the bottom bolt of all flush bolts
- Spring-loaded plunger returns to floor or threshold level anytime flush bolt is retracted, eliminating need to clean standard floor strikes
- Strike hole is  $\frac{3}{4}$ " diameter and  $1\frac{1}{8}$ " deep

#### Specifications

Mounting hardware 8-32 X 1" FPHMS

#### Dimensions

| DP1 face plate<br>(Diameter) | DP2 face plate<br>(Width x Length x Thickness)        | Body<br>(Diameter x Depth)           |
|------------------------------|---|--------------------------------------|
| $1\frac{7}{16}$ "            | $1\frac{5}{8}$ " x $3\frac{1}{2}$ " x $\frac{1}{8}$ " | $1\frac{3}{16}$ " x $1\frac{7}{8}$ " |

#### Finishes

| BHMA      | Description       | Substrate | Finish |
|-----------|-------------------|-----------|--------|
| 605       | Bright Brass      | Brass     | US3    |
| 606       | Satin Brass       | Brass     | US4    |
| 612       | Satin Bronze      | Brass     | US10   |
| 613       | Oil Rubbed Bronze | Brass     | US10B  |
| 619*      | Satin Nickel      | Brass     | US15   |
| 622*      | Matte Black       | Brass     | BLK    |
| 625       | Bright Chrome     | Brass     | US26   |
| 626       | Satin Chrome      | Brass     | US26D  |
| 643e/716* | Aged Bronze       | Brass     | -      |

\*Finishes only available with DP2

Custom finishes are available as engineering special, consult customer service.

#### Additional accessories

- Security pin screws



DP1



DP2

# How to order

| COR size | Finish | Filler bar | Device cutout | Active door size |
|----------|--------|------------|---------------|------------------|
| 1        | 2      | 3          | 4             | 5                |
| 32       | 626    | FL20       | N/A           | 4 x 16           |

## Detail

### 1 COR size

32  
42  
52  
60  
72

### 2 Finish

| BHMA | Description                    | Finish |
|------|--------------------------------|--------|
| 626  | Satin Chrome                   | US26D  |
| 628  | Satin Aluminum, Clear Anodized | US28   |
| 711  | Black Anodized                 | 315AN  |

### 3 Filler bar (if desired)

FL20  
FL32  
FL44

### 4 Vertical rod exit device cutout (if applicable)

A, B, C, D, E, F, G

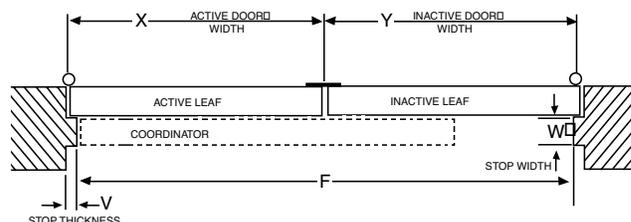
If other vertical rod exit device not listed on chart from page 167, then include information as shown on page 167.

### 5 Active door size

Required for all vertical rod exit device applications

### To determine the size COR you need:

- Start with the active door width (X)
- Next consider the overall frame opening between stops (F)
- Preferably, the coordinator would equal the active door width (X) + approximately 1/2 inactive door width (Y). The coordinator must be 6" longer than the active door width (X) and less than the overall frame opening between stop (F).



### Examples:

- Pair of 30" doors, 5/8" stops  
Active door size, X = 30"  
Overall frame opening between stops, F = 58-3/4"  
Recommended coordinator: COR42
- Pair of 36" doors, 5/8" stops  
Active door size, X = 36"  
Overall frame opening between stops, F = 70-3/4"  
Recommended coordinator: COR52
- 36" Active door, 18" Inactive door, 5/8" stops  
Active door size, X = 36"  
Overall frame opening between stops, F = 52-3/4"  
Recommended coordinator: COR42
- 48" Active door, 24" Inactive door, 5/8" stops  
Active door size, X = 48"  
Overall frame opening between stops, F = 94-3/4"  
Recommended coordinator: COR60

Introduction  
Table of contents  
Hinges and pivots  
Pulls, push bars and plates  
Flush bolts, strikes and coordinators  
Latches, catches and bolts  
Door stops, holders and silencers  
Exterior hardware  
Miscellaneous hardware

## Flush bolts, strikes and coordinators

### Coordinators, filler bars and mounting brackets

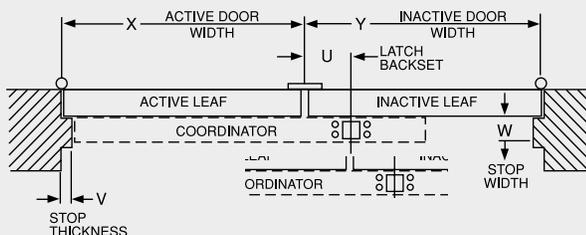
# Special factory preparation for use with vertical rod exit devices

Coordinators may need to be prepared at the factory for use with some surface or concealed vertical rod exit devices (see chart).

| Exit device manufacturer | Exit device number   | Device backset | Maximum active door      | Coordinator size needed  | Coordinator cutout type | Mounting bracket needed         |
|--------------------------|--|----------------|--------------------------|--------------------------|-------------------------|---------------------------------|
| Von Duprin               | 5547-F   | 2 3/8"         | 33"<br>43"<br>51"<br>63" | 42"<br>52"<br>60"<br>72" | Type A                  | None                            |
| Von Duprin               | 8827-F   | 2 3/4"         | 33"<br>43"<br>51"<br>63" | 42"<br>52"<br>60"<br>72" | Type B                  | MB1V, MB2V or MB3V see page 176 |
| Von Duprin               | 8847-F   | 2 3/8"         | 33"<br>43"<br>51"<br>63" | 42"<br>52"<br>60"<br>72" | Type C                  | None                            |
| Von Duprin               | 33/3547<br>33/3547-F<br>98/9947<br>98/9947-F   | 2 3/4"         | 33"<br>43"<br>51"<br>64" | 42"<br>52"<br>60"<br>72" | Type D                  | None                            |
| Von Duprin               | 33/3548<br>33/3548-F<br>98/9948<br>98/9948-F   | 2 3/4"         | 33"<br>43"<br>51"<br>64" | 42"<br>52"<br>60"<br>72" | Type D                  | None                            |
| Von Duprin               | 33/3547WDC<br>33/3547WDC-F<br>98/9947WDC<br>98/9947WDC-F   | 1 5/16"        | 33"<br>43"<br>51"<br>66" | 42"<br>52"<br>60"<br>72" | Type E                  | None                            |
| Falcon                   | 17-C<br>F-17-C<br>18-C<br>F-18-C<br>XX-C<br>F-XX-C<br>24-C<br>F-24-C<br>25-C<br>F-25-C   | 2 3/4"         | 33"<br>43"<br>51"<br>63" | 42"<br>52"<br>60"<br>72" | Type F                  | None                            |
| Falcon                   | 17-C -WDC<br>F-17-C -WDC<br>18-C -WDC<br>F-18-C -WDC<br>XX-C -WDC<br>F-XX-C -WDC<br>24-C -WDC<br>F-24-C -WDC<br>25-C -WDC<br>F-25-C -WDC | 2 13/16"       | 33"<br>43"<br>51"<br>63" | 42"<br>52"<br>60"<br>72" | Type G                  | None                            |

#### If the exit device is not listed the following information is needed:

- Exit device manufacturer and model number
- Active door size, "X"
- Inactive door size, "Y"
- Exit device backset, "U"
- Stop width, "W"
- Stop thickness if other than 5/8", "V"



# COR

## Bar coordinators

- The COR Series coordinators are designed for use on pairs of doors when one door needs to close before the other
- All COR units function easily; the active door lever, located nearest to the active stop, holds the active door open until the trigger mechanism is released by the closing of the inactive leaf
- All COR units do not function correctly with swing-clear hinges (consult factory when used with 3/4" offset pivots)
- All COR units are equipped with an adjustable override feature which allows the active door to close under extreme pressure
- All COR units are compatible with flush bolts
- For openings where doors are unequal size
  - The coordinator length should equal the active door width plus approximately half the inactive door width
  - The coordinator must be 6" longer than the active door width and shorter than the overall frame opening between stops
- The COR Series does not cover the entire length of the stop, so a FL filler bar can be provided to maintain architecturally clean lines

## Specifications

|                    |  |
|--------------------|--|
| Material substrate | Aluminum 6000 Series   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.3 Type 21A</li> <li>▪ UL Listed for installation on labeled frame</li> </ul> |

## Sizes (available in five sizes for variable door opening widths)

| Coordinator number | Length of channel | For opening widths | Common applications |
|--------------------|-------------------|--------------------|---------------------|
| COR32              | 32"               | 34" - 52"          | Pair of 2'0" doors  |
| COR42              | 42"               | 52" - 72"          | Pair of 2'6" doors  |
| COR52              | 52"               | 62" - 92"          | Pair of 3'0" doors  |
| COR60              | 60"               | 70" - 108"         | Pair of 3'6" doors  |
| COR72              | 72"               | 84" - 132"         | Pair of 4'0" doors  |

## Options

- Optional filler bars: FL20 - 20", FL32 - 32" and FL44 - 44", available to maintain clean line
- Security pin screws
- Special prep cut-outs: Required for certain vertical exit device applications (see page 169 for common examples)
  - If other vertical rod exit device not listed on chart is required, include required information as shown on page 169 (consult customer service for other applications)

## Finishes

| BHMA | Description              | Substrate | Finish |
|------|--------------------------|-----------|--------|
| 628  | Satin Aluminum, Anodized | Aluminum  | US28   |
| 711  | Black Anodized           | Aluminum  | 315AN  |
| 713  | Satin Chrome, Anodized   | Aluminum  | –      |

Custom finishes are available as engineering special, consult customer service.

## Available accessories

- Optional mounting brackets available: MB1, MB2, MB1F, MB2F, MB3F, MB1V, MB2V and MB3V for other stop applied hardware
- Security pin screws
- Replacement mounting package
- Replacement rub plate package



## Flush bolts, strikes and coordinators

### Coordinators, filler bars and mounting brackets

# FL

#### Filler bars

- The COR Series does not cover the entire length of the stop, so a FL filler bar can be provided to maintain architecturally clean lines
- The FL filler bars are available in three sizes for variable frame openings
- FL filler bars are field sized to frame opening

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Aluminum 6000 Series   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.3 Type 21A</li> <li>▪ UL Listed for installation on labeled frame</li> </ul> |

#### Sizes (available in five sizes for variable door opening widths)

| Filler Bar number | Length | Dimensions<br>(Width X Depth X Length) |
|-------------------|--------|--|
| FL20              | 20"    | 1 5/8" x 5/8" x 20"                    |
| FL32              | 32"    | 1 5/8" x 5/8" x 32"                    |
| FL44              | 44"    | 1 5/8" x 5/8" x 44"                    |

#### Finishes

| BHMA | Description              | Substrate | Finish |
|------|--------------------------|-----------|--------|
| 628  | Satin Aluminum, Anodized | Aluminum  | US28   |
| 711  | Black Anodized           | Aluminum  | 315AN  |
| 713  | Satin Chrome, Anodized   | Aluminum  | —      |

Custom finishes are available as engineering special, consult customer service.

#### Available accessories

- Security pin screws



# MB1/MB2

## Mounting brackets

- Allows stop mounted hardware to be properly installed without damaging the COR coordinator, such as a parallel arm closer or a non-fire-rated surface vertical rod strike
- Stop mounted hardware will need to be lowered to compensate for the height of the coordinator and mounting bracket



### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Aluminum A380                   |
| Certifications     | Meets ANSI/BHMA A156.3 Type 21A |

### Sizes

| Product | Jamb depth | Stop width   | Dimensions                 |
|---------|------------|--------------|----------------------------|
| MB1     | 4 3/4" Min | Over 2 1/2"  | 4" W x 3" D x 1 5/8" T     |
| MB2     | 4 3/4" Min | Up to 2 1/2" | 4" W x 3 1/4" D x 1 5/8" T |

### Finishes

| BHMA | Description        | Substrate | Finish |
|------|--------------------|-----------|--------|
| 600  | Primed for paint   | Aluminum  | USP    |
| -    | Flat Black Painted | Aluminum  | BLK    |
| 689  | Aluminum Painted   | Aluminum  | SP28   |

Custom finishes are available as engineering special, consult customer service.

# MB1F/MB2F/MB3F, MB1V/MB2V/MB3V

## Mounting brackets

- Allows for stop mounted hardware to be properly installed without damaging the COR coordinators, such as surface vertical rod exit device strikes
- Latch will need to be lowered to compensate for the height of the coordinator and mounting bracket
- MB-V are designed for Von Duprin 8827-F soffit latch



MB1V



MB2V



MB3V

### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Cold rolled steel               |
| Certifications     | Meets ANSI/BHMA A156.3 Type 21A |

### Sizes

| Product | Jamb depth | Stop width      | Dimensions             |
|---------|------------|-----------------|------------------------|
| MB1F    | 5"         | 1 1/2" - 2 1/4" | 4" W x 3" D x 1 5/8" T |
| MB1V    | 5"         | 1 1/2" - 2 1/4" | 4" W x 3" D x 1 5/8" T |
| MB2F    | 5 7/8"     | 2 3/8" - 3 1/4" | 4" W x 3" D x 1 5/8" T |
| MB2V    | 5 7/8"     | 2 3/8" - 3 1/4" | 4" W x 3" D x 1 5/8" T |
| MB3F    | 6 7/8"     | Over 3 3/8"     | 4" W x 3 1/2" D x 1" T |
| MB3V    | 6 7/8"     | Over 3 3/8"     | 4" W x 3 1/2" D x 1" T |

### Finishes

| BHMA | Description        | Substrate | Finish |
|------|--------------------|-----------|--------|
| 600  | Primed for paint   | Steel     | USP    |
| -    | Flat Black Painted | Steel     | BLK    |
| 689  | Aluminum Painted   | Steel     | SP28   |

Custom finishes are available as engineering special, consult customer service.

## Flush bolts, strikes and coordinators

### Coordinators, filler bars and mounting brackets

# COR7G/COR9G

## Gravity coordinators

- When active door is open, coordinator prevents active door from closing until inactive door bypasses
  - Closing of inactive door causes strike plate on top of door to contact cam and lift arm, allowing active door to close
  - As inactive door continues closing, roller rides over strike plate on to door bracket, holding arm above active door
- Non-handed
- Gravity action arm and door bracket are adjustable on the job for ease of installation (rubber roller provides quiet and efficient operation, and helps protect the astragal and doors from damage)
- Nylon roller on short arm glides smoothly over door bracket and strike, ensuring silent operation.

## Specifications

|                    |  |
|--------------------|--|
| Available sizes    | <ul style="list-style-type: none"> <li>COR7G 7" projection - for use on pairs of doors with astragal on active door up to 4' or with astragal on inactive door up to 3'4" or with astragal on both doors up to 2'10"</li> <li>COR9G 9" projection - for use on pairs of doors with astragal on active over 4' or with astragal on inactive door over 3'4" or with astragal on both doors over 2'10"</li> </ul> |
| Material substrate | Forged brass   |
| Mounting hardware  | 8-32 X 1" FPHMS  |
| Certifications     | <ul style="list-style-type: none"> <li>Meets ANSI/BHMA A156.3 Type 21B</li> <li>UL Listed for fire doors</li> </ul>  |

## Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

Custom finishes are available as engineering special, consult customer service.

## Available accessories

- Security pin screws
- Replacement mounting package
- Replacement roller and bolt package
- Replacement rubber roller and pin package
- Replacement rub plate package

# CBI

## Carry bar

- Used when it is possible for the inactive door to be opened before the active door
- Prevents damage to the doors and other hardware
- Nylon roller insures quiet and efficient operation
- Non-handed
- Standard through bolts for mounting

## Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | All-steel construction          |
| Certifications     | Meets ANSI/BHMA A156.3 Type 21A |

## Dimensions

| Door closed     | Door open       |
|-----------------|-----------------|
| 1 5/8" X 5 3/4" | 1 5/8" X 2 1/2" |

## Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 600  | Primed for paint  | Steel     | USP    |
| 632  | Bright Brass      | Steel     | US3    |
| 633  | Satin Brass       | Steel     | US4    |
| 639  | Satin Bronze      | Steel     | US10   |
| 640  | Dark Satin Bronze | Steel     | US10B  |
| 651  | Bright Chrome     | Steel     | US26   |
| 652  | Satin Chrome      | Steel     | US26D  |
| -    | Flat Black Coated | Steel     | BLK    |

Custom finishes are available as engineering special, consult customer service.

## Available accessories

- Security pin screws
- Replacement nylon roller and pin package



# Latches, catches and bolts

Ives has multiple roller latches and catches that assure a door will stay closed when not in use. These accessories will not keep a door secure and are not meant for security applications; they only help keep a door closed. Ives also offers a variety of surface bolts and door guards to provide an additional security level.



Introduction

Table of contents

Hinges and pivots

Pulls, push bars and plates

Flush bolts, strikes and coordinators

Latches, catches and bolts

Door stops, holders and silencers

Exterior hardware

Miscellaneous hardware

## Latches, catches and bolts

### Surface bolts

# SB360

#### Surface bolt

- Surface bolt has 1 1/4" throw for maximum security
- Jimmy-resistant design, bolt locks automatically when thrown, can be released only by pressing knob toward door while retracting
- Ideal for all types of doors
- Available in 12" length
- Unit locks in both the up and down position
- Accepts padlock (not furnished) with maximum 3/8" diameter shackle, minimum 1 3/4" shackle opening height
- Units packed with one-way wood screws for added security
  - Standard wood screws also supplied
- Units packed with a universal top strike (US)

#### Specifications

|                    |   |   |  |
|--------------------|---|---|--|
| Material substrate | Heavy duty steel  |   |  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.16</li> <li>▪ UL10C Listed (3 hour) fire doors up to 10'0"</li> <li>▪ Miami Dade County NOA listed</li> </ul> | <ul style="list-style-type: none"> <li>▪ Florida Building Commission listed</li> <li>▪ FEMA 361 and 320 listed</li> </ul> |  |

#### Dimensions

| Bar             | Overall width | Overall projection | Top strike                    | Available mortise strike     |
|-----------------|---------------|--------------------|-------------------------------|------------------------------|
| 3/4" W x 3/4" T | 2 1/32"       | 2 1/16"            | 1 1/2" W x 1 1/2" L x 3/16" T | 1 5/8" W x 3 1/2" L x 1/8" T |

#### Finish

| BHMA | Description | Substrate | Finish |
|------|-------------|-----------|--------|
| 604  | Clear Zinc  | Steel     | US2C   |

#### Available accessories

- Through bolt
- Mortise bottom strike (MS)

# SB453

#### Surface bolt

- Surface bolt has 1 3/16" throw for maximum security
- Strong tension springs prevent creep
- Ideal for all types of doors
- Available 8" and 12" lengths
- Units packed with standard wood screws and machine screws to meet most field conditions
- Units packed with both a universal top strike (US) and a mortise bottom strike (MS)

#### Specifications

|                    |  |  |  |
|--------------------|--|--|--|
| Material substrate | Heavy duty steel   |  |  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.16 L84161</li> <li>▪ UL10C Listed (3 hour) fire doors up to 10'0"</li> </ul> |  |  |

#### Dimensions

| Bar             | Overall width | Overall projection | Top strike                    | Bottom strike                |
|-----------------|---------------|--------------------|-------------------------------|------------------------------|
| 3/4" W x 3/4" T | 2 1/32"       | 1 5/16"            | 1 1/2" W x 1 1/2" L x 3/16" T | 1 5/8" W x 3 1/2" L x 1/8" T |

#### Finishes

| BHMA     | Description       | Substrate | Finish   |
|----------|-------------------|-----------|----------|
| 604      | Clear Zinc        | Steel     | US2C     |
| 631      | Matte Black       | Steel     | BLK      |
| 632*     | Bright Brass      | Steel     | US3      |
| 633*     | Satin Brass       | Steel     | US4      |
| 639      | Satin Bronze      | Steel     | US10     |
| 640      | Oil Rubbed Bronze | Steel     | US10B    |
| 643e/716 | Aged Bronze       | Steel     | 643e/716 |
| 646      | Satin Nickel      | Steel     | US15     |
| 652      | Satin Chrome      | Steel     | US26D    |

\* Only available in 8" bolt length. For other colors, consult factory.

#### Available accessories

- Through bolt
- Through bolts (machine screws with cap nuts) not intended for use as security screws



Available mortise strike



## Latches, catches and bolts

### Surface bolts

# SB1630/SB1640

#### Surface bolt

- Standard surface bolt has 1" throw for maximum security
- Ideal for all types of doors
- Fully concealed mounting prevents vandalism
- Units packed with wood and machine screws to meet most field conditions
- Comes end plug and end plug stud package
- Available in locking version, unit locks in both the up and down position
  - Locking bolts are furnished with 2 keys in 4 keying variations



Universal top strike



Flat bottom strike

#### Specifications

|                |  |
|----------------|--|
| Material       | <ul style="list-style-type: none"> <li>1630 Series is constructed of heavy duty steel substrate</li> <li>1640 Series is constructed of brass</li> </ul>                            |
| Certifications | <ul style="list-style-type: none"> <li>1630 Meets ANSI/BHMA A156.16 L84161 and UL10C Listed (3 hour) fire doors up to 8'0"</li> <li>1640 Meets ANSI/BHMA A156.16 L24161</li> </ul> |

#### Dimensions

| Body                   | Overall knob or lock housing projection | Top strike                   | Bottom strike        |
|------------------------|---|------------------------------|----------------------|
| 8" L x 7/8" W x 3/4" T | 1 1/2"                                  | 1 1/4" W x 7/8" L x 15/16" D | 3" L x 1" W x 1/8" T |

#### Strike options

- T** Top strike only
- B** Bottom strike only
- TB** Top and bottom strike\*
- TL** Locking bolt with top strike only
- BL** Locking bolt with bottom strike only
- TBL** Locking bolt with top and bottom strike\*

#### Key code

- 1289 Standard key code
- 1360
- 1390
- 1395

\* Available on SB1630 Only

#### SB1630 Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 603  | Clear Zinc        | Steel     | US2G   |
| 640  | Oil Rubbed Bronze | Steel     | US10B  |
| 652  | Satin Chrome      | Steel     | US26D  |

#### SB1640 Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

#### Available accessories

- Security pin screw
- Through bolts available
- End plug and end plug stud package
- Cylinder package
- Replacement strike packages

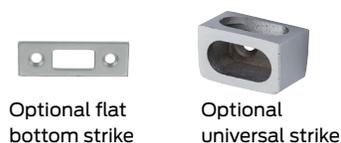
## Latches, catches and bolts

### Surface bolts

# SB1600M1/SB1600M2

#### Surface bolt

- Standard surface bolt has 3 1/2" throw for maximum security and for doors with larger undercuts
- Sleek handle design
- Ideal for all types of doors
- Fully concealed mounting prevents vandalism
- Available in locking version. Unit locks in both the up and down position
  - Locking bolts are furnished with 2 keys in 4 keying variations
- Units packed with wood and machine screws to meet most field conditions
- M1 version has Actuator tab pointing away from the door
- M2 version has Actuator tab pointing towards the door



#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Constructed of heavy duty steel  |
| Certifications     | Meets ANSI/BHMA A156.16 L84161 and UL10C Listed (3 hour) fire doors up to 8'0" |

#### Dimensions

| Bar  | Top strike                   | Bottom strike        |
|--|------------------------------|----------------------|
| 11" L x 3/4" W x 3/4" T,<br>locking version 1 1/2" thick | 1 1/4" W x 7/8" T x 15/16" D | 3" L x 1" W x 1/8" T |

#### Strike options

- **T** Top strike only
- **B** Bottom strike only
- **TL** Top locking strike only
- **BL** Bottom locking strike only

#### Key code

- 1289 Standard key code
- 1360
- 1390
- 1395

#### Finishes

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 631  | Matte Black         | Steel     | BLK    |
| 689  | Aluminum Painted    | Steel     | SP28   |
| 691  | Dull Bronze Painted | Steel     | SP10   |
| 695  | Dark Bronze Painted | Steel     | SP313  |
| 706  | Dull Brass Painted  | Steel     | SP4    |

For other colors, consult factory.

#### Available accessories

- Security pin screw
- Through bolts available
- End plug and end plug stud package
- Cylinder package
- Replacement strike packages

## Latches, catches and bolts

### Surface bolts

# 40

#### Surface bolt, decorative light duty

- Recommended for 1 3/8" and 1 3/4" hollow core doors or door partitions
- Concealed screw design enhances appearance and security
- Exceptional strength and durability provided by interlocking construction of heavy gauge track and rod
- Permanent stop prevents rod disengagement from track
- Tension spring holds bolt in desired position
- Track assures smooth operation and interlocks with side edges of rod to eliminate marring
- Decorative 5/8" diameter knob designed to facilitate bolt operation
- Available in 3", 4" and 6" lengths
- Units packed with wood screws
- Packed with both universal and mortise strikes

#### Specifications

|                    |                          |
|--------------------|--------------------------|
| Material substrate | Made from extruded brass |
| Certifications     | Meets ANSI/BHMA A156.16  |

#### Dimensions

| Throw   | Projection | Width   | Length       |
|---------|------------|---------|--------------|
| 1 1/16" | 3/4"       | 1 1/16" | 3", 4" or 6" |

#### Finishes

| BHMA     | Description       | Substrate | Finish   |
|----------|-------------------|-----------|----------|
| 605      | Bright Brass      | Brass     | B3       |
| 609      | Blackened Brass   | Brass     | B5       |
| 613      | Oil Rubbed Bronze | Brass     | B10B     |
| 619      | Satin Nickel      | Brass     | B15      |
| 622      | Matte Black       | Brass     | BLK      |
| 625      | Bright Chrome     | Brass     | B26      |
| 626      | Satin Chrome      | Brass     | B26D     |
| 643e/716 | Aged Bronze       | Brass     | 643e/716 |

For other colors, consult factory.



Universal strike



Mortise strike

# 253

#### Surface bolt, decorative heavy duty

- Recommended for 1 3/4" or larger doors
- Heavy duty, decorative bolt ideal where extra strength required
- Decorative 1 1/4" diameter knob fits well with any décor and designed to facilitate bolt operation
- Available in 8" and 12" lengths. Optional lengths available, consult factory.
- Units packed with wood screws
- Packed universal strike (US) and mortise strike (MS)

#### Specifications

|                    |                         |
|--------------------|-------------------------|
| Material substrate | Made from solid brass   |
| Certifications     | Meets ANSI/BHMA A156.16 |

#### Dimensions

| Throw  | Projection | Half round rod | Overall width | Length    |
|--------|------------|----------------|---------------|-----------|
| 1 1/8" | 1 5/16"    | 5/8"           | 1 5/8"        | 8" or 12" |

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | B3     |
| 613  | Oil Rubbed Bronze | Brass     | B10B   |
| 626  | Satin Chrome      | Brass     | B26D   |

For other colors, consult factory.



Universal strike



Mortise strike

## Latches, catches and bolts

### Dutch door and mortise door bolts

# 054

#### Dutch door bolt

- Practical, rugged, attractive bolt for application on Dutch doors as well as other areas
- Chamfered rod end draws the two leaves of door tightly together
- Sufficient tolerance provided in strike opening to allow for misalignment of door leaves and also prevents binding of bolt
- Decorative 1" diameter knob designed to facilitate bolt operation
- Units packed with wood screws
- Packed with Standard Strike (SS), Mortise Strike (MS) and Universal Strike (US)

#### Specifications

|                    |                         |
|--------------------|-------------------------|
| Material substrate | Made from solid brass   |
| Certifications     | Meets ANSI/BHMA A156.16 |

#### Dimensions

| Throw | Projection | Half round rod | Overall width | Rod length | Overall length                  |
|-------|------------|----------------|---------------|------------|---------------------------------|
| 5/8"  | 1 1/8"     | 5/8"           | 1 5/8"        | 4 1/4"     | Specify 4 3/8" (including knob) |

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | B3     |
| 606  | Satin Brass       | Brass     | B4     |
| 612  | Satin Bronze      | Brass     | B10    |
| 613  | Oil Rubbed Bronze | Brass     | B10B   |
| 619  | Satin Nickel      | Brass     | B15    |
| 625  | Bright Chrome     | Brass     | B26    |
| 626  | Satin Chrome      | Brass     | B26D   |

For other colors, consult factory.



Standard strike

Mortise strike

Universal strike

# S48

#### Mortise door bolt

- Brass oval turn knob and escutcheon
- Steel bolt for extra strength
- Rack is milled for precision fit with pinion
- Units packed with wood screws

#### Specifications

|                    |                           |
|--------------------|---------------------------|
| Material substrate | Made from brass and steel |
| Certifications     | Meets ANSI/BHMA A156.16   |

#### Dimensions

| Throw  | Projection | Half round rod | Overall width      | Rod length        |
|--------|------------|----------------|--------------------|-------------------|
| 1 3/4" | 1/2"       | 1/2"           | 2 1/2" L x 9/16" D | 1 3/4" H x 7/8" W |

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | B3     |
| 609  | Blackened Brass   | Brass     | B5     |
| 613  | Oil Rubbed Bronze | Brass     | B10B   |
| 619  | Satin Nickel      | Brass     | B15    |
| 625  | Bright Chrome     | Brass     | B26    |
| 626  | Satin Chrome      | Brass     | B26D   |

For other colors, consult factory.



## Latches, catches and bolts

### Door guards

# 481

#### Chain door guard

- Permits the door to be slightly opened to allow viewing
- Narrow chain holder maintains chain in stationary position when door guard is not in use, eliminating marring of door and frame caused by dangling chain
- Welded twist link steel chain finished to match door plate and chain holder
- Packed with sheet metal screws



#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from wrought brass or burnished wrought steel |
| Certifications     | Meets ANSI/BHMA A156.16                            |

#### Dimensions

| Door plate  | Chain holder                           | Chain length                    |
|---|--|---------------------------------|
| 3 <sup>3</sup> / <sub>8</sub> " L x 1 <sup>3</sup> / <sub>8</sub> " W | 2" H x <sup>3</sup> / <sub>4</sub> " W | 6 <sup>1</sup> / <sub>4</sub> " |

#### Finishes - brass and steel

| BHMA     | Description     | Substrate | Finish     |
|----------|-----------------|-----------|------------|
| 605      | Bright Brass    | Brass     | B3         |
| 626      | Satin Chrome    | Brass     | B26D       |
| 631      | Matte Black     | Steel     | F-BLK      |
| 632      | Bright Brass    | Steel     | F3         |
| 633      | Satin Brass     | Steel     | F4         |
| 638      | Blackened Brass | Steel     | F5         |
| 639      | Satin Bronze    | Steel     | F10        |
| 643e/716 | Aged Bronze     | Steel     | F-643e/716 |
| 646      | Satin Nickel    | Steel     | F15        |
| 651      | Bright Chrome   | Steel     | F26        |
| 652      | Satin Chrome    | Steel     | F26D       |

For other colors, consult factory.

## Latches, catches and bolts

## Door guards

## 482

## Solid bar door guard

- For use on doors that are flush with frames
- The solid bar, interlocking with the ball on the strike plate, permits the door to be slightly opened to allow viewing
- The hinged bar allows the door guard to be positioned 180° away from the door when not in use
- Edge protection plate, furnished with cast brass door guards only, minimizes the chance for marring the door or frame. Can be purchased as a separate item for Aluminum substrate
- Strike plate is designed to prevent the solid bar from marring the inside of the door when in use
- Packed with sheet metal screws



Cast brass



Cast zinc

## Specifications

|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from cast brass or cast zinc |
| Certifications     | Meets ANSI/BHMA A156.16           |

## Dimensions - cast brass

| Strike plate         | Holder               | Arm length | Edge guard           |
|----------------------|----------------------|------------|----------------------|
| 2 5/8" H x 1 1/32" W | 1 3/4" H x 1 1/16" W | 4 3/4"     | 1 1/8" H x 1 1/32" W |

## Dimensions - zinc

| Strike plate      | Holder              | Arm length |
|-------------------|---------------------|------------|
| 2 1/2" H x 7/8" W | 2 1/2" H x 15/16" W | 3 13/16"   |

## Finishes - brass

| BHMA     | Description       | Substrate | Finish     |
|----------|-------------------|-----------|------------|
| 605      | Bright Brass      | Brass     | B3         |
| 606      | Satin Brass       | Brass     | B4         |
| 612      | Satin Bronze      | Brass     | B10        |
| 613      | Oil Rubbed Bronze | Brass     | B10B       |
| 619      | Satin Nickel      | Brass     | B15        |
| 622      | Matte Black       | Brass     | B-BLK      |
| 625      | Bright Chrome     | Brass     | B26        |
| 626      | Satin Chrome      | Brass     | B26D       |
| 643e/716 | Aged Bronze       | Brass     | B-643e/716 |

## Finishes - zinc

| BHMA | Description     | Substrate | Finish |
|------|-----------------|-----------|--------|
| 677  | Bright Brass    | Zinc      | Z605E  |
| -    | Blackened Brass | Zinc      | Z609E  |
| 681  | Bright Chrome   | Zinc      | Z625E  |
| 682  | Satin Chrome    | Zinc      | Z626E  |

For other colors, consult factory.

## Latches, catches and bolts

### Door guards

# 484

#### Privacy door guard

- For use on interior corridor openings such as hotels, apartments, or dormitories
- Modern design in variety of finishes to suite with your opening hardware style
- Enables the door to open partially while maintaining privacy for the interior resident
- Padded latch design for quiet operation from the open to close position
- ADA compliant design for ease of operation
- Ideal for fire-rated doors and does not allow the door to be held open, complying with NFPA80 requirements
- Easy to install and retrofit on existing openings
- Comes standard with 3 #12 x 1 -1/4" Flat Head Sheet Metal Screws



#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Zinc                           |
| Certifications     | UL Listed for 3 hours to UL10C |

#### Dimensions

| Plate width | Plate height | Guard width | Opening Angle |
|-------------|--------------|-------------|---------------|
| 1 13/16"    | 2 5/8"       | 1 1/2"      | 90 degrees    |

#### Finishes - Zinc

| BHMA | Description   | Substrate | Finish     |
|------|---------------|-----------|------------|
| 677  | Bright Brass  | Zinc      | Z605       |
| 678  | Satin Brass   | Zinc      | Z606E      |
| -    | Satin Nickel  | Zinc      | Z619E      |
| 676  | Matte Black   | Zinc      | Z-BLK      |
| 681  | Bright Chrome | Zinc      | Z625E      |
| 682  | Satin Chrome  | Zinc      | Z626E      |
| 695  | Dark Bronze   | Zinc      | Z-695      |
| -    | Aged Bronze   | Zinc      | Z-643E/716 |

For other colors, consult factory.

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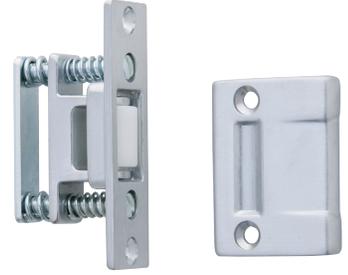
## Latches, catches and bolts

### Roller latches

# RL30/RL30A

#### Roller latch

- Recommended for higher traffic applications
- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed
- The projection of the roller is easily adjusted using adjusting screws on the face of the unit
- Maximum projection of the roller is  $\frac{3}{8}$ " allowing for variance in the door clearance
- Nylon roller standard
- Units packed with wood and machine screws to meet most field conditions
- RL30A model packed with ASA strike



#### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from forged brass          |
| Certifications     | Meets ANSI/BHMA A156.16, E19091 |

#### Dimensions

| Body  | Strike   | Optional ASA strike  |
|---|--|--|
| 1" W x 2 $\frac{3}{16}$ " H x 1 - $\frac{11}{16}$ " D | 1 $\frac{1}{8}$ " W x 2 $\frac{3}{4}$ " H x $\frac{3}{32}$ " T,<br>lip to center - 1 $\frac{1}{4}$ " | 1 $\frac{1}{4}$ " W x 4 $\frac{7}{8}$ " H x $\frac{3}{32}$ " T,<br>lip to center - 1 $\frac{1}{4}$ " |

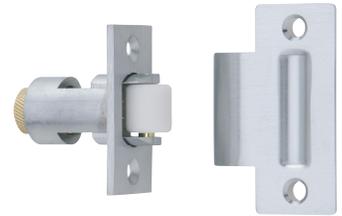
#### Available accessories

- Strike - ASA
- Security mounting screws
- Silencers

# RL32/RL32A

#### Roller latch

- Recommended light duty cabinet and closet applications
- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed
- The projection of the roller is easily adjusted by turning knurled knob on back of latch
- Maximum projection of the roller is  $\frac{1}{2}$ " allowing for variance in the door clearance
- Fits heavy-duty cylindrical lock cutout
- Nylon roller standard
- Non-handed
- Units packed with wood screws
- RL32A model packed with ASA strike



#### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from brass                 |
| Certifications     | Meets ANSI/BHMA A156.16, E19091 |

#### Dimensions

| Body  | Strike   | Optional ASA strike  |
|---|--|--|
| 1 $\frac{1}{8}$ " W x 3 $\frac{3}{8}$ " H x 2 $\frac{1}{4}$ " D | 1 $\frac{1}{8}$ " W x 2 $\frac{3}{4}$ " H x $\frac{3}{32}$ " T,<br>lip to center - 1 $\frac{1}{4}$ " | 1 $\frac{1}{4}$ " W x 4 $\frac{7}{8}$ " H x $\frac{3}{32}$ " T,<br>lip to center - 1 $\frac{1}{4}$ " |

#### Available accessories

- Strike - ASA

#### RL30/30A and RL32/32A Finishes

| BHMA     | Description       | Substrate | Finish   |
|----------|-------------------|-----------|----------|
| 605      | Bright Brass      | Brass     | US3      |
| 606      | Satin Brass       | Brass     | US4      |
| 612      | Satin Bronze      | Brass     | US10     |
| 613      | Oil Rubbed Bronze | Brass     | US10B    |
| 619      | Satin Nickel      | Brass     | US15     |
| 622      | Matte Black       | Brass     | BLK      |
| 625      | Bright Chrome     | Brass     | US26     |
| 626      | Satin Chrome      | Brass     | US26D    |
| 643e/716 | Aged Bronze       | Brass     | 643e/716 |

For other colors, consult factory.

## Latches, catches and bolts

## Roller latches

## RL36/RL36A

## Roller latch

- Recommended light duty cabinet and closet applications
- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed
- The projection of the roller is easily adjusted by turning slotted screw on back of latch
- Maximum projection of the roller is  $\frac{5}{16}$ " allowing for variance in the door clearance
- Fits cylindrical lock cutout
- Nylon roller
- Non-handed
- Units packed with wood screws
- RL36A model packed with ASA strike



## Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from stainless steel       |
| Certifications     | Meets ANSI/BHMA A156.16, E57082 |

## Dimensions

| Body                             | Strike  | Optional ASA strike   |
|----------------------------------|---|---|
| 1" W x $3\frac{3}{8}$ " H x 2" D | 1 $\frac{1}{8}$ " W x 2 $\frac{3}{4}$ " H x $\frac{3}{32}$ " T, lip to center - 1 $\frac{1}{4}$ " | 1 $\frac{1}{4}$ " W x 4 $\frac{7}{8}$ " H x $\frac{3}{32}$ " T, lip to center - 1 $\frac{1}{4}$ " |

## Finish

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

For other colors, consult factory.

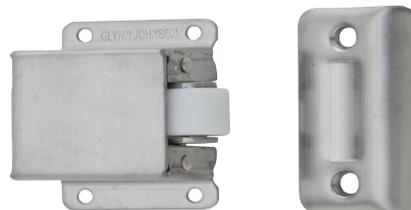
## Available accessories

- Strike - ASA

## RL38

## Roller latch

- Rim style roller latch
- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed
- The projection of the roller is easily adjusted by turning slotted screw
- Maximum projection of the roller is  $\frac{3}{8}$ " allowing for variance in the door clearance
- Nylon roller
- Non-handed
- Units packed with wood screws



## Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from stainless steel       |
| Certifications     | Meets ANSI/BHMA A156.16, L27092 |

## Dimensions

| Body   | Strike   |
|--|--|
| 1 $\frac{3}{8}$ " W x 2" H x $\frac{7}{8}$ " D | 1" W x 2 $\frac{1}{8}$ " H x $\frac{3}{8}$ " D |

## Finish

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

For other colors, consult factory.

## Latches, catches and bolts

### Roller latches

# RL1152

#### Roller latch

- Recommended for higher traffic applications
- Combination of RL30 roller latch and angle stop
- Actuation is simple, closing of the door causes the roller to fall in the depression of the strike, thereby holding the door closed
- The projection of the roller is easily adjustable using adjusting screws on the face of the unit
- Maximum projection of the roller is  $\frac{3}{8}$ " allowing for variance in the door clearance
- Nylon roller standard
- Forged brass construction
- Units packed with wood screws



#### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from forged brass          |
| Certifications     | Meets ANSI/BHMA A156.16, E19111 |

#### Dimensions

| Body   | Strike   |
|--|--|
| 1 $\frac{3}{8}$ " W x 2" H x $\frac{7}{8}$ " D | 1" W x 2 $\frac{1}{8}$ " H x $\frac{3}{8}$ " D |

#### Finishes

| BHMA     | Description       | Substrate | Finish   |
|----------|-------------------|-----------|----------|
| 605      | Bright Brass      | Brass     | US3      |
| 606      | Satin Brass       | Brass     | US4      |
| 612      | Satin Bronze      | Brass     | US10     |
| 613      | Oil Rubbed Bronze | Brass     | US10B    |
| 619      | Satin Nickel      | Brass     | US15     |
| 622      | Matte Black       | Brass     | BLK      |
| 625      | Bright Chrome     | Brass     | US26     |
| 626      | Satin Chrome      | Brass     | US26D    |
| 643e/716 | Aged Bronze       | Brass     | 643e/716 |

For other colors, consult factory.

#### Available accessories

- Security mounting screws
- Brass roller
- Silencers

# STK685/STK685L

#### Optional strikes

##### STK685 strike

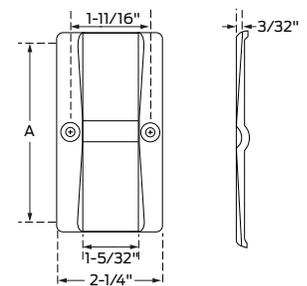
- Dimple of strike centered on strike

##### STK685L strike

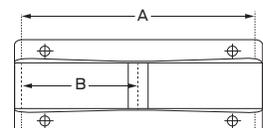
- Location of strike dimple is variable
- Please specify location of dimple from edge of frame to centerline of the dimple - B  
Dimple will be located B +  $\frac{3}{16}$ " to accommodate lip

##### Both strikes:

- Custom make strike for doors that swing both directions
- For use with roller latches
- Specify frame depth - A. Overall strike length will be A +  $\frac{3}{8}$ " to accommodate  $\frac{3}{16}$ " lip on each side
- Units packed with wood and machine screws to meet most field conditions



STK685



STK685L

#### Specifications

|                    |                                  |
|--------------------|----------------------------------|
| Material substrate | Made from $\frac{3}{32}$ " brass |
|--------------------|----------------------------------|

#### Dimensions

| Strike width      | Strike length                           |
|-------------------|---|
| 2 $\frac{1}{4}$ " | Specified frame width + $\frac{3}{8}$ " |

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

## Latches, catches and bolts

## Angle stops

## AS895

## Angle stop

- Surface applied stop for single doors
- Large rubber bumper to ensure quiet operation
- Units packed with wood and machine screws to meet most field conditions

## Specifications

Material substrate Made from 1/8" brass

## Dimensions

1 1/2" wide x 1" angle x 2 1/2" long

## Available accessories

- Security pin screws

## Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.



## AS18

## Angle stop

- Surface applied stop for single and double doors
- Includes SR64 door silencers to ensure quiet operation
- SR64 silencers are replaceable
- Units packed with wood and machine screws to meet most field conditions

## Specifications

Material substrate Made from 3/16" brass

## Dimensions

1 1/2" wide x 3/4" angle x 3 1/2" long

## Available accessories

- Security pin screws

## Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.



## Latches, catches and bolts

### Invisible latches

# CL11

## Invisible latch

- Invisible latch is ideal for installations where no visible latch or strike is desired
- Unit can be installed at the top, bottom or side of the door
- Can be mortised into the stop or surface mounted to the stop
- Recommended for use on small panels, cabinet doors or lightweight doors
- Not recommended for use on hollow lightweight doors with single point access to area
- Operation is simple, latching is accomplished by a slight push
- To unlatch the door, a harder push releases the door and pushes the door out
- Brass and plastic construction
- Applies 13 pounds to open the door
- Units packed with wood screws



### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from brass and plastic    |
| Certifications     | Meets ANSI/BHMA A156.9, B03272 |

### Dimensions

|                               |  |
|-------------------------------|--|
| <b>Body</b>                   | <b>Strike</b>                          |
| 1 1/4" W x 1 7/8" H x 7/16" T | 9/16" W x 1 5/16" H x 9/16" Projection |

### Available accessories

- Security pin screws

# CL12

## Invisible latch

- Invisible latch is ideal for installations where no visible latch is desired
- Unit can be installed at the top, bottom or side of the door
- Can be mortised into the stop or surface mounted to the stop
- Recommended for use on larger panels, cabinet doors or lightweight doors
- Not recommended for use on hollow lightweight doors with single point access to area
- Operation is simple, latching is accomplished by a slight push
- To unlatch the door, a harder push releases the door and pushes the door out
- Brass and plastic construction
- Applies 27 pounds to open the door
- Units packed with wood screws



### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from brass and plastic    |
| Certifications     | Meets ANSI/BHMA A156.9, B03272 |

### Dimensions

|                               |  |
|-------------------------------|--|
| <b>Body</b>                   | <b>Strike</b>                          |
| 1 1/4" W x 2 1/4" H x 9/16" T | 5/8" W x 1 13/16" H x 9/16" Projection |

### Available accessories

- Security pin screws

# CL14

## Invisible latch, auxiliary pusher

- Aid in the operation of the CL11 and CL12 where hinges or surrounding conditions prevent smooth operation of doors
- Provides 1 1/16" throw
- Nylon pusher
- Applies 10 pounds to open the door
- Units packed with wood screws



### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from brass                |
| Certifications     | Meets ANSI/BHMA A156.9, B13282 |

### Dimensions

|                                  |
|----------------------------------|
| <b>Body</b>                      |
| 2 15/16" L x 1 11/16" W x 5/8" D |

### Available accessories

- Security pin screws

### CL11, CL12 and CL14 Finishes

| BHMA | Description  | Substrate | Finish |
|------|--------------|-----------|--------|
| 605  | Bright Brass | Brass     | US3    |
| 606  | Satin Brass  | Brass     | US4    |
| 612  | Satin Bronze | Brass     | US10   |
| 626  | Satin Chrome | Brass     | US26D  |

For other colors, consult factory.

## Latches, catches and bolts

### Magnetic catches

# 325

#### Magnetic catch

- Double pole
- Self aligning magnet ensures maximum pull
- Case design allows easy magnet adjustment on cabinet or small door applications
- Packed with sheet metal screws
- 5 lbs. load capacity

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Case made from aluminum        |
| Certifications     | Meets ANSI/BHMA A156.9, B43171 |

#### Dimensions

|                               |
|-------------------------------|
| <b>Case</b>                   |
| 1 1/8" W x 2 1/16" L x 5/8" T |

#### Finishes

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |

For other colors, consult factory.



# 326

#### Magnetic catch, dual double pole

- Dual double pole
- Self-aligning magnets ensure maximum pull
- Can be surface mounted or mortised
- Packed with sheet metal screws, 2 short strikes and 1 long strike
- 9 lbs. load capacity

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Case made from aluminum        |
| Certifications     | Meets ANSI/BHMA A156.9, B43161 |

#### Dimensions

|                           |
|---------------------------|
| <b>Case</b>               |
| 1" W x 3 1/8" L x 9/16" T |

#### Finishes

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |

For other colors, consult factory.



# 327

#### Magnetic catch, dual triple pole

- Dual triple pole
- Self-aligning magnets insure maximum pull
- Can be surface mounted or mortised
- Packed with sheet metal screws, 2 short strikes and 1 long strike
- 14 lbs. load capacity

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Case made from aluminum        |
| Certifications     | Meets ANSI/BHMA A156.9, B43161 |

#### Dimensions

|                          |
|--------------------------|
| <b>Case</b>              |
| 1" W x 3 1/8" L x 3/4" T |

#### Finishes

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |

For other colors, consult factory.



## Latches, catches and bolts

### Roller catches

# 330

#### Roller catch

- Most economical solution recommended for low frequency opening applications
- Independent rollers allow positive action and self-alignment
- Cushioned rollers absorb shock and noise, hold door away from cabinet
- Application allows for easy adjustment
- Packed with screws and brads



#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Case made from aluminum        |
| Certifications     | Meets ANSI/BHMA A156.9, B83071 |

#### Dimensions

| Case                 | Strike            |
|----------------------|-------------------|
| 1 1/4" H x 1 1/16" W | 1 1/4" H x 3/8" W |

#### Finishes

| BHMA | Description | Substrate | Finish |
|------|-------------|-----------|--------|
| 604  | Clear Zinc  | Steel     | F2C    |

For other colors, consult factory.

# 335

#### Roller catch

- Recommended for higher frequency opening applications
- Smooth, positive latching action insured by powerful conical spring
- Durable nylon roller insures quiet operation
- Adjustable tension. Adjustments can be varied from 4 to 17 lbs. of holding power making possible a wide range of door performance
- Easily installed on thin doors
- Full lip style strike designed for simplified mortising
- Packed with sheet metal screws



#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from wrought brass                   |
| Certifications     | Meets ANSI/BHMA A156.16, L27081 for brass |

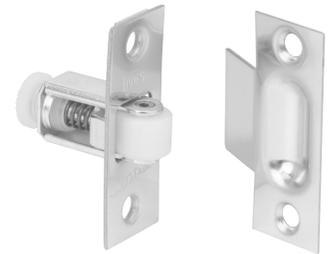
#### Dimensions

| Face plate        | Bore                  | Strike                                       |
|-------------------|-----------------------|--|
| 7/8" W x 2 1/4" H | 1 3/4" D x 13/16" DIA | 1 5/8" W x 2 1/4" H, lip to center - 1 3/16" |

# 336

#### Roller catch

- Recommended for higher frequency opening applications
- Smooth, positive latching action insured by powerful conical spring
- Durable nylon roller insures quiet operation
- Adjustable tension; adjustments can be varied from 4 to 17 lbs of holding power making possible a wide range of door performance
- Easily installed on thin doors
- Standard box type strike designed for neat appearance
- Packed with sheet metal screws



#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from wrought brass                   |
| Certifications     | Meets ANSI/BHMA A156.16, L27081 for brass |

#### Dimensions

| Face plate        | Bore                  | Strike                                       |
|-------------------|-----------------------|--|
| 7/8" W x 2 1/4" H | 1 3/4" D x 13/16" DIA | 1 5/8" W x 2 1/4" H, lip to center - 1 3/16" |

#### 335 and 336 Finishes

| BHMA     | Description       | Substrate | Finish   |
|----------|-------------------|-----------|----------|
| 605      | Bright brass      | Brass     | B3       |
| 606      | Satin brass       | Brass     | B4       |
| 609      | Blackened brass   | Brass     | B5       |
| 612      | Satin bronze      | Brass     | B10      |
| 613      | Oil rubbed bronze | Brass     | B10B     |
| 619      | Satin nickel      | Brass     | B15      |
| 625      | Bright chrome     | Brass     | B26      |
| 626      | Satin chrome      | Brass     | B26D     |
| 643e/716 | Aged bronze       | Brass     | 643e/716 |
| 622      | Matte black       | Brass     | BLK      |

For other colors, consult factory.

## Latches, catches and bolts

### Ball catches

# CL21

#### Ball catch

- Four-way catch with hexagon stud
- Ideal for holding medium duty doors
- The strike slides between two stainless steel balls that are under spring tension; as the strike engages, the door is held tightly shut
- Strike can enter body from any direction
- Spring tension is easily adjusted to suit field conditions
- Body can be surface applied or mortised
- Units packed with wood screws

#### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA A156.9 |

#### Dimensions

| Body   | Strike                                      |
|--|---|
| $\frac{3}{4}$ " W x 3" H x $\frac{3}{4}$ " D | $\frac{3}{4}$ " W hex x 1 $\frac{1}{2}$ " H |

#### Finish

| BHMA | Description | Substrate | Finish |
|------|-------------|-----------|--------|
| 604  | Clear Zinc  | Steel     | F2C    |

For other colors, consult factory.



#### Available accessories

- Security pin screws

# CL21A

#### Ball catch

- Four-way catch with plate type strike
- Ideal for closet doors, access doors, hinged openings and numerous other applications
- The strike slides between two stainless steel balls that are under spring tension; As the strike engages, the door is held tightly shut
- Strike can enter body from any direction
- Spring tension is easily adjusted to suit field conditions
- Body can be surface applied or mortised
- Units packed with wood screws

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from brass                |
| Certifications     | Meets ANSI/BHMA A156.9, B13292 |

#### Dimensions

| Body   | Strike   |
|--|--|
| $\frac{3}{4}$ " W x 3" H x $\frac{3}{4}$ " D | $\frac{7}{16}$ " W x 1 $\frac{3}{4}$ " H x $\frac{7}{8}$ " D |



#### Available accessories

- Security pin screws

# CL22

#### Ball catch

- Three-way catch with plate type strike
- Ideal for smaller cabinet doors or panels
- The strike slides between two stainless steel balls that are under spring tension; as the strike engages, the door is held tightly shut
- Strike can enter body from either side or front
- Spring tension is easily adjusted to suit field conditions
- Body can be surface applied or mortised
- Units packed with wood screws

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from brass                |
| Certifications     | Meets ANSI/BHMA A156.9, B13292 |

#### Dimensions

| Body   | Strike   |
|--|--|
| $\frac{3}{4}$ " W x 3" H x $\frac{3}{4}$ " D | $\frac{7}{16}$ " W x 1 $\frac{3}{4}$ " H x $\frac{7}{8}$ " D |



#### Available accessories

- Security pin screws

#### CL21A and CL22 Finishes

| BHMA | Description   | Substrate | Finish |
|------|---------------|-----------|--------|
| 605  | Bright brass  | Brass     | US3    |
| 606  | Satin brass   | Brass     | US4    |
| 612  | Satin bronze  | Brass     | US10   |
| 625  | Bright chrome | Brass     | US26   |
| 626  | Satin chrome  | Brass     | US26D  |

For other colors, consult factory.

## Latches, catches and bolts

### Ball catches

# 345

#### Ball catch, adjustable

- Recommended for lower frequency opening applications
- Ideal for cabinets and small interior doors
- Free rolling ball insures smooth, positive and trouble-free action
- Adjustable threaded barrel compensates for various door clearances
- Adjustable spring tension
- Units packed with wood screws



#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from wrought brass        |
| Certifications     | Meets ANSI/BHMA A156.9, B23013 |

#### Dimensions

| Face plate                             | Bore                        | Strike  |
|--|-----------------------------|---|
| $\frac{3}{4}$ " W x $1\frac{1}{2}$ " H | 1" D x $\frac{9}{16}$ " DIA | $\frac{25}{32}$ " W x $1\frac{1}{2}$ " H, lip to center - $\frac{13}{32}$ " |

#### Finishes

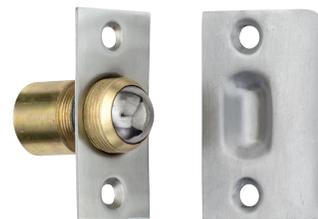
| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 609  | Blackened Brass   | Brass     | US5    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

# 347

#### Ball catch, dual adjustable - square corners

- Recommended for lower frequency opening applications
- Ideal for cabinets and small interior doors
- Free rolling ball insures smooth, positive and trouble-free action
- Adjustable threaded barrel compensates for various door clearances
- Adjustable spring tension
- Rounded corners on strike lip for safety
- Units packed with wood screws



#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from wrought brass        |
| Certifications     | Meets ANSI/BHMA A156.9, B23013 |

#### Dimensions

| Face plate                | Bore                                     | Strike   |
|---------------------------|--|--|
| 1" W x $2\frac{1}{8}$ " H | $\frac{7}{8}$ " DIA x $1\frac{3}{8}$ " D | $1\frac{3}{8}$ " W x $2\frac{1}{8}$ " H, lip to center - $\frac{7}{8}$ " |

#### Finishes

| BHMA     | Description       | Substrate | Finish   |
|----------|-------------------|-----------|----------|
| 605      | Bright Brass      | Brass     | US3      |
| 606      | Satin Brass       | Brass     | US3      |
| 609      | Blackened Brass   | Brass     | US5      |
| 612      | Satin Bronze      | Brass     | US10     |
| 613      | Oil Rubbed Bronze | Brass     | US10B    |
| 619      | Satin Nickel      | Brass     | US15     |
| 625      | Bright Chrome     | Brass     | US26     |
| 626      | Satin Chrome      | Brass     | US26D    |
| 643e/716 | Aged Bronze       | Brass     | 643e/716 |
| 622      | Matte Black       | Brass     | BLK      |

For other colors, consult factory.

## Latches, catches and bolts

### Ball catches

# 349

#### Ball catch, dual adjustable - rounded corners

- Recommended for lower frequency opening applications
- For catch in door installations
- Radiused corners allow easy installation with a router
- Dual adjustment for door clearance and holding strength
- Lip strike is designed for use where strike is mounted in jamb
- Free rolling ball insures smooth, positive and trouble-free action
- Adjustable threaded barrel compensates for various door clearances
- Adjustable spring tension
- Rounded corners on strike lip for safety
- Units packed with wood screws



#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from wrought brass        |
| Certifications     | Meets ANSI/BHMA A156.9, B23013 |

#### Dimensions

| Face plate      | Bore                | Strike                                    |
|-----------------|---------------------|---|
| 1" W x 2 1/8" H | 7/8" DIA x 1 3/8" D | 1 3/8" W x 2 1/8" H, lip to center - 7/8" |

#### Finishes

| BHMA     | Description       | Substrate | Finish   |
|----------|-------------------|-----------|----------|
| 605      | Bright Brass      | Brass     | US3      |
| 606      | Satin Brass       | Brass     | US3      |
| 609      | Blackened Brass   | Brass     | US5      |
| 612      | Satin Bronze      | Brass     | US10     |
| 613      | Oil Rubbed Bronze | Brass     | US10B    |
| 619      | Satin Nickel      | Brass     | US15     |
| 625      | Bright Chrome     | Brass     | US26     |
| 626      | Satin Chrome      | Brass     | US26D    |
| 643e/716 | Aged Bronze       | Brass     | 643e/716 |
| 622      | Matte Black       | Brass     | BLK      |

For other colors, consult factory.

## 2

#### Elbow catch

- Ideal for use on the inactive leaf of a pair of cabinet doors
- Surface applied, making installation simple
- Spring loaded function - surface applied, making installation simple
- Made from cast aluminum

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from wrought brass        |
| Certifications     | Meets ANSI/BHMA A156.9, B33023 |

#### Dimensions

| Plate             | Strike             |
|-------------------|--------------------|
| 1 3/8" H x 5/8" W | 1 3/16" H x 5/8" W |

#### Finish - aluminum

| Ives number | A3  | A5 | A14 | A15 | A92 | A716 |
|-------------|-----|----|-----|-----|-----|------|
| BHMA        | 666 |    | 669 | 670 | 673 |      |



# Door stops, holders and silencers

With a full line of wall bumpers, wall holders, kick down holders and hinge pin stops for commercial and residential applications, Ives products are designed to ensure that doors will not slam into the wall. These accessories provide an economical alternative for doors without a closer and overhead stop or holder.



## Door stops, holders and silencers

### Floor stops and holders

# FS13

#### Dome stop

- Standard FS13 for use where no threshold is used
- Heavy-duty cast dome stops constructed of brass
- Unique riser design of R14 (below) allows easy conversion to threshold application
- Units are packed with fasteners sufficient for mounting in all types of floor construction, including concrete
- Replaceable - grey rubber bumper

#### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from cast brass            |
| Certifications     | Meets ANSI/BHMA A156.16, L12141 |

#### Dimensions

| Overall height | Base height      | Base diameter           |
|----------------|------------------|-------------------------|
| 1"             | $\frac{3}{16}$ " | 1 $\frac{3}{4}$ " round |

#### Available accessories

- Security pin screws
- Grey rubber bumper



# R14

#### Dome stop rise

- Adapts the FS13 Dome stop to threshold use

#### Specifications

|                    |                      |
|--------------------|----------------------|
| Material substrate | Made from cast brass |
|--------------------|----------------------|

#### Dimensions

| Riser height     | Base diameter           |
|------------------|-------------------------|
| $\frac{5}{16}$ " | 1 $\frac{3}{4}$ " round |



# FS17

#### Dome stop

- One piece dome stop for use with thresholds
- Heavy-duty cast dome stops constructed of brass
- Units are packed with fasteners sufficient for mounting in all types of floor construction, including concrete
- Grey rubber bumper

#### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from cast brass            |
| Certifications     | Meets ANSI/BHMA A156.16, L12161 |

#### Dimensions

| Overall height      | Base height     | Base diameter           |
|---------------------|-----------------|-------------------------|
| 1 $\frac{11}{32}$ " | $\frac{1}{2}$ " | 1 $\frac{3}{4}$ " round |

#### Available accessories

- Security pin screws
- Grey rubber bumper



#### FS13, R14 and FS17 Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

# FS436 / FS438

## Dome stop

- FS436 for doors without threshold
- FS438 for doors with threshold or undercut doors
- Heavy-duty cast dome stops
- Packed with fasteners for light duty masonry and wood applications
- Grey rubber bumper

## Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass or aluminum   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ FS436 Meets ANSI/BHMA A156.16, L12141 for brass and L32141 for aluminum</li> <li>▪ FS438 Meets ANSI/BHMA A156.16, L12161 for brass and L32161 for aluminum</li> </ul> |

## Dimensions - FS436

| Overall height | Base height      | Base diameter              |
|----------------|------------------|----------------------------|
| 1"             | $\frac{3}{16}$ " | 1 $\frac{3}{4}$ "x 2" oval |

## Dimensions - FS438

| Overall height    | Base height      | Base diameter              |
|-------------------|------------------|----------------------------|
| 1 $\frac{3}{8}$ " | $\frac{9}{16}$ " | 1 $\frac{3}{4}$ "x 2" oval |

## Finishes - brass

| BHMA | Description       | Substrate | Finish   |
|------|-------------------|-----------|----------|
| 605  | Bright Brass      | Brass     | US3      |
| 606  | Satin Brass       | Brass     | US4      |
| 609  | Blackened Brass   | Brass     | US5      |
| 612  | Satin Bronze      | Brass     | US10     |
| 613  | Oil Rubbed Bronze | Brass     | US10B    |
| 619  | Satin Nickel      | Brass     | US15     |
| 622  | Matte Black       | Brass     | BLK      |
| 625  | Bright Chrome     | Brass     | US26     |
| 626  | Satin Chrome      | Brass     | US26D    |
| -    | Aged Bronze       | Brass     | 643e/716 |

## Finish - aluminum

| BHMA | Description    | Substrate | Finish |
|------|----------------|-----------|--------|
| 628  | Satin Aluminum | Aluminum  | US28   |

For other colors, consult factory.



FS436



FS438

# R435 / R437

## Dome stop riser

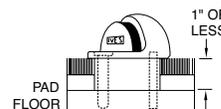
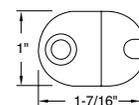
- R435 for conversion of FS436 Dome stop to carpet installation
- R437 For conversion of FS438 Dome stop to carpet installation
- Packed with fasteners for heavy duty masonry and wood applications

## Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from aluminum, mill finish |
|--------------------|---------------------------------|

## Dimensions

| Base diameter                | Heights available   |
|------------------------------|---|
| 1" x 1 $\frac{7}{16}$ " oval | $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " $\frac{5}{8}$ ", $\frac{3}{4}$ " and 1" heights |



## Door stops, holders and silencers

### Floor stops and holders

# FS439

#### Universal dome floor stop

- High or low-rise mount
- Spring-loaded rubber contact
- Packed with fasteners for light duty masonry and wood applications
- Grey rubber bumper

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast zinc or stainless steel |
| Certifications     | Meets ANSI/BHMA A156.16                |

#### Dimensions

| Overall height | Pad height | Base height | Base diameter |
|----------------|------------|-------------|---------------|
| 1 1/2"         | 1 1/8"     | 1/4"        | 1 7/8"        |

#### Finishes - zinc

| BHMA | Description       | Substrate | Finish   |
|------|-------------------|-----------|----------|
| 676  | Matte Black       | Zinc      | BLK      |
| 677  | Bright Brass      | Zinc      | US3      |
| 678  | Satin Brass       | Zinc      | US4      |
| 704  | Oil Rubbed Bronze | Zinc      | US10B    |
| –    | Satin Nickel      | Zinc      | US15     |
| 681  | Bright Chrome     | Zinc      | US26     |
| 682  | Satin Chrome      | Zinc      | US26D    |
| –    | Aged Bronze       | Zinc      | 643e/716 |

#### Finish - stainless steel

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

For other colors, consult factory.



# FS410

#### Decorative floor stop

- Non-directional
- Packed with fasteners for light duty masonry and wood applications.
- Black rubber ring

#### Specifications

|                    |                         |
|--------------------|-------------------------|
| Material substrate | Made from cast brass    |
| Certifications     | Meets ANSI/BHMA A156.16 |

#### Dimensions

| Overall height | Base height | Base diameter |
|----------------|-------------|---------------|
| 1 1/2"         | 1/4"        | 1 1/4"        |

#### Finishes - zinc

| BHMA | Description   | Substrate | Finish   |
|------|---------------|-----------|----------|
| 605  | Bright Brass  | Brass     | US3      |
| 619  | Satin Nickel  | Brass     | US15     |
| 622  | Matte Black   | Brass     | BLK      |
| 625  | Bright Chrome | Brass     | US26     |
| 626  | Satin Chrome  | Brass     | US26D    |
| –    | Aged Bronze   | Brass     | 643e/716 |



## Door stops, holders and silencers

### Floor stops and holders

# FS18S/FS18L

#### Floor stop

- FS18S - 1 1/2", FS18L - 3 1/2"
- Security door stops designed for use in high vandalism areas
- Molded from black flame resistant, resilient material around a heavy-duty stud
- Once grouted in concrete, leaves no exposed fasteners to be tampered with or removed
- Ideal for jail or security cell areas where floor mounted stops are required
- FS18L also ideal for concrete wall applications

#### Specifications

Material substrate Made from rubber

#### Finishes

- Black rubber

#### Dimensions - FS18S

| Height | Diameter | Stud length |
|--------|----------|-------------|
| 1 1/2" | 2"       | 2 1/2"      |

#### Dimensions - FS18L

| Height | Diameter | Stud length |
|--------|----------|-------------|
| 3 1/2" | 2"       | 2 1/2"      |



FS18S

FS18L

# FS434

#### Floor stop

- For undercut doors up to 1 1/2"
- Packed with fasteners for light duty masonry and wood applications
- Soft, resilient black rubber

#### Specifications

Material substrate Made from wrought steel

#### Dimensions

| Overall height | Base size           |
|----------------|---------------------|
| 2 5/8"         | 1 1/2" W x 2 3/4" L |

#### Finish

| BHMA | Description | Substrate | Finish |
|------|-------------|-----------|--------|
| 604  | Zinc Plated | Steel     | US2C   |

#### Available accessories

- Replaceable soft, resilient black rubber



# 430

#### Floor door stop

- For undercut doors up to 1 1/2"
- Welded wood screws for wood applications
- White rubber tip

#### Specifications

Material substrate Made from cast brass and aluminum

#### Dimensions

| Overall height | Base size           |
|----------------|---------------------|
| 2 5/8"         | 1 1/2" W x 2 3/4" L |

#### Finishes - brass

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 609  | Blackened Brass   | Brass     | US5    |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| -    | Blackened Brass     | Aluminum  | A5     |
| 669  | Bright Nickel       | Aluminum  | A14    |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |

For other colors, consult factory.

#### Available accessories

- Replaceable white or black rubber tips



## Door stops, holders and silencers

### Floor stops and holders

# FS441

#### Floor stop

- Accommodates door undercut up to 1 1/2"
- Designed to blend well with all types of construction and provide a minimum of hindrance to cleaning efforts
- Grey non-marring rubber bumper
- Packed with fasteners for heavy duty masonry and wood applications



#### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from cast brass            |
| Certifications     | Meets ANSI/BHMA A156.16, L12131 |

#### Dimensions

| Overall height | Overall length | Base depth |
|----------------|----------------|------------|
| 2 1/8"         | 2 7/8"         | 1 5/8"     |

#### Finishes - brass

| BHMA | Description       | Substrate | Finish   |
|------|-------------------|-----------|----------|
| 605  | Bright Brass      | Brass     | US3      |
| 606  | Satin Brass       | Brass     | US4      |
| 609  | Blackened Brass   | Brass     | US5      |
| 612  | Satin Bronze      | Brass     | US10     |
| 613  | Oil Rubbed Bronze | Brass     | US10B    |
| 619  | Satin Nickel      | Brass     | US15     |
| 622  | Matte Black       | Brass     | BLK      |
| 625  | Bright Chrome     | Brass     | US26     |
| 626  | Satin Chrome      | Brass     | US26D    |
| -    | Aged Bronze       | Brass     | 643e/716 |

For other colors, consult factory.

#### Available accessories

- Replaceable grey non-marring rubber bumper

# FS444/FS448

#### Masonry and drywall/wood floor stops

- Ideal for interior or exterior use
- Accommodates door undercut up to 2 1/2"
- Replaceable black non-marring rubber tip
- FS444 is packed with fasteners for heavy duty masonry applications
- FS448 is packed with fasteners for drywall/wood applications

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass and aluminum  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ FS444 Meets ANSI/BHMA 156.16, L12131 for brass</li> <li>▪ FS448 Meets ANSI/BHMA 156.16, L12121 for brass and L32121 for aluminum</li> </ul> |

#### Dimensions

| Overall height | Base diameter |
|----------------|---------------|
| 3"             | 2 1/2" round  |

#### Finishes - brass

| BHMA | Description       | Substrate | Finish   |
|------|-------------------|-----------|----------|
| 605  | Bright Brass      | Brass     | US3      |
| 606  | Satin Brass       | Brass     | US4      |
| 609* | Blackened Brass   | Brass     | US5      |
| 612  | Satin Bronze      | Brass     | US10     |
| 613  | Oil Rubbed Bronze | Brass     | US10B    |
| 619  | Satin Nickel      | Brass     | US15     |
| 622  | Matte Black       | Brass     | BLK      |
| 625  | Bright Chrome     | Brass     | US26     |
| 626  | Satin Chrome      | Brass     | US26D    |
| -    | Aged Bronze       | Brass     | 643e/716 |

#### Finish - aluminum

| BHMA | Description    | Substrate | Finish |
|------|----------------|-----------|--------|
| 628* | Satin Aluminum | Aluminum  | US28   |

\*Not available on FS444. For other colors, consult factory.

#### Available accessories

- Replaceable grey non-marring rubber bumper



FS444

## Door stops, holders and silencers

### Floor stops and holders

# FS9

## Floor stop and semi-automatic holder

- Semi-automatic floor-mounted holders accommodates with door to floor clearance of 1 1/2" or less
- Activate holder by flipping the engagement tongue forward. When door is opened, the hook (mounted on door) engages the tongue (to release, push firmly on door to disengage tongue)
- Packed with fasteners for extra-heavy duty masonry and wood applications



### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from cast brass            |
| Certifications     | Meets ANSI/BHMA A156.16, L11241 |

### Dimensions

|                       |                        |
|-----------------------|------------------------|
| <b>Overall height</b> | <b>Base dimensions</b> |
| 3 1/2"                | 2" W x 3 1/2" L        |

### Finishes - brass

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

### Available accessories

- Security pin screws
- Replaceable hook package

# FS40, FS41, FS42 and FS43

## Floor stop and automatic holders

- Automatic door holders ideal for heavy-traffic situations that require a simple, fool-proof, hold-open device
- Unit is activated automatically when door is opened. A firm pull on door releases the mechanism
- Strikes accommodate different door to floor clearances
- Model numbers are determined by strike/door-to-floor clearances
- Holder position on door is adjustable
- Packed with fasteners for heavy duty masonry and wood applications



### Specifications

|                    |                                 |
|--------------------|---------------------------------|
| Material substrate | Made from forged brass          |
| Certifications     | Meets ANSI/BHMA A156.16, L11301 |

### Dimensions

| Door to floor clearance |                          | Holder dimensions       |
|-------------------------|--------------------------|-------------------------|
| ▪ FS40 1/2" or less     | ▪ FS42 1 1/8" to 1 9/16" | 3" wide x 3 11/16" high |
| ▪ FS41 9/16" to 1 1/16" | ▪ FS43 1 5/8" to 2 1/16" |                         |

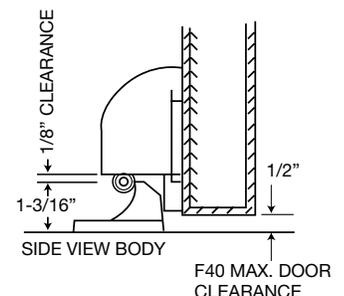
### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

### Available accessories

- Strike packages



Introduction  
Table of contents  
Hinges and pivots  
Pulls, push bars and plates  
Flush bolts, strikes and coordinators  
Latches, catches and bolts  
Door stops, holders and silencers  
Exterior hardware  
Miscellaneous hardware

## Door stops, holders and silencers

### Floor stops and holders

# FS446/FS450

## Floor stop and manual door holder

- Manual type floor holder ideal for interior or exterior use
- Accommodates door undercut up to 2 1/2"
- Replaceable black non-marring rubber tip
- Unit functions as a stop but serves as a hold-open device when hook is manually engaged in strike. Unit requires manual disengagement to release hold-open
- FS446 is packed with fasteners for heavy duty masonry applications
- FS450 is packed with fasteners for drywall/wood applications

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass and aluminum  |
| Certifications     | <ul style="list-style-type: none"> <li>FS446 Meets ANSI/BHMA 156.16, L11371 for brass and L31371 for aluminum</li> <li>FS450 Meets ANSI/BHMA 156.16, L11361 for brass and L31361 for aluminum</li> </ul> |

### Dimensions

| Overall height | Height from floor to stop center line | Stop diameter | Base diameter |
|----------------|---------------------------------------|---------------|---------------|
| 3 3/4"         | 2 5/8"                                | 1 1/16"       | 2 1/12"       |

### Finishes - brass

| BHMA | Description       | Substrate | Finish   |
|------|-------------------|-----------|----------|
| 605  | Bright Brass      | Brass     | US3      |
| 606  | Satin Brass       | Brass     | US4      |
| 612  | Satin Bronze      | Brass     | US10     |
| 613  | Oil Rubbed Bronze | Brass     | US10B    |
| 619  | Satin Nickel      | Brass     | US15     |
| 622  | Matte Black       | Brass     | BLK      |
| 625  | Bright Chrome     | Brass     | US26     |
| 626  | Satin Chrome      | Brass     | US26D    |
| -    | Aged Bronze       | Brass     | 643e/716 |

### Finish - aluminum

| BHMA | Description    | Substrate | Finish |
|------|----------------|-----------|--------|
| 628  | Satin Aluminum | Aluminum  | US28   |

For other colors, consult factory.

### Available accessories

- Replaceable black non-marring rubber bumper

# FS495/FS496/FS497

## Stops and semi-automatic holders

- FS495 wall stop, FS496 floor stop - 3/8" max clearance, FS497 floor stop - 1" max clearance (all with automatic holders)
- Automatic door holders ideal for heavy-traffic situations that require a simple, hold-open device
- Recommended installation is holder on door and strike on wall
- Holder position on door is adjustable
- Holder is tapered to prevent "child riding"
- Packed with fasteners for heavy duty masonry and drywall/wood applications

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass   |
| Certifications     | <ul style="list-style-type: none"> <li>FS495 Meets ANSI/BHMA 156.16, L11291 for brass</li> <li>FS496 Meets ANSI/BHMA 156.16, L11301 for brass</li> <li>FS497 Meets ANSI/BHMA 156.16, L11301 for brass</li> </ul> |

### Dimensions

- FS495 Holds door 3 3/4" from wall
- FS496 Door to floor clearances 3/8" max
- FS497 Door to floor clearances 1" max

### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright brass      | Brass     | US3    |
| 606* | Satin brass       | Brass     | US4    |
| 612  | Satin bronze      | Brass     | US10   |
| 613  | Oil rubbed bronze | Brass     | US10B  |
| 625  | Bright chrome     | Brass     | US26   |
| 626  | Satin chrome      | Brass     | US26D  |

\*Not available on FS496 and FS497. For other colors, consult factory.



FS446



FS495

# WS401/WS402CVX, WS401/WS402CCV

## Wall bumpers (convex and concave models)

- Constructed in heavy-duty cast brass
- Special retainer ring makes rubber tamper resistant
- Grey rubber bumper
- WS401/402CVX – convex rubber bumper, packed with fasteners for drywall/wood applications
- WS401/402CCV – concave rubber bumper which avoids damage to locks with projecting buttons, packed with fasteners for drywall/wood applications



WS401/WS402CCV

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ WS401/402CVX Meets ANSI/BHMA 156.16, L12101</li> <li>▪ WS401/402CCV Meets ANSI/BHMA 156.16, L12251</li> </ul> |

### Dimensions

| Base diameter | Base thickness | Overall projection |
|---------------|----------------|--------------------|
| 2 1/2"        | 3/8"           | 1"                 |

### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

Note: WS401/402 is the full part number. 401 and 402 are not different products.

# WS404CVX

## Wall stop (convex)

- Compact size
- Constructed in cast brass
- Totally concealed mounting discourages vandalism or tampering
- Unit furnished with grey convex rubber bumper
- Packed with fasteners for drywall/wood applications



### Specifications

|                    |                      |
|--------------------|----------------------|
| Material substrate | Made from cast brass |
|--------------------|----------------------|

### Dimensions

| Base diameter | Overall projection |
|---------------|--------------------|
| 1"            | 17/32"             |

### Finishes - brass

| BHMA | Description       | Substrate | Finish   |
|------|-------------------|-----------|----------|
| 605  | Bright Brass      | Brass     | US3      |
| 606  | Satin Brass       | Brass     | US4      |
| 609  | Blackened Brass   | Brass     | US5      |
| 612  | Satin Bronze      | Brass     | US10     |
| 613  | Oil Rubbed Bronze | Brass     | US10B    |
| 619  | Satin Nickel      | Brass     | US15     |
| 622  | Matte Black       | Brass     | BLK      |
| 625  | Bright Chrome     | Brass     | US26     |
| 626  | Satin Chrome      | Brass     | US26D    |
| –    | Aged Bronze       | Brass     | 643e/716 |

For other colors, consult factory.

## Door stops, holders and silencers

### Wall bumpers and stops

# WS406/WS407CVX, WS406/WS407CCV

#### Wall stops (convex and concave models)

- Constructed in sturdy yet economical wrought base of brass or stainless steel construction
- Feature concealed tamper-proof mounting
- Shipped factory preassembled backplate to reduce installation cost
- Easy installation by inserting screwdriver through small hole in rubber
- WS406/407CVX – convex rubber bumper, packed with fasteners for drywall/wood applications
- WS406/407CCV – concave rubber bumper which avoids damage to locks with projecting buttons, packed with fasteners for drywall/wood applications



WS406/WS407CVX

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from brass and stainless steel  |
| Certifications     | <ul style="list-style-type: none"> <li>WS406/407CVX Meets ANSI/BHMA 156.16, L22201 for brass and L52201 for stainless steel</li> <li>WS406/407CCV Meets ANSI/BHMA 156.16, L22251 for brass and L52251 for stainless steel</li> </ul> |

#### Dimensions

| Base diameter | Base thickness | Overall projection |
|---------------|----------------|--------------------|
| 2 1/2"        | 3/8"           | 1"                 |

#### Finishes

| BHMA | Description       | Substrate       | Finish   |
|------|-------------------|-----------------|----------|
| 605  | Bright Brass      | Brass           | US3      |
| 606  | Satin Brass       | Brass           | US4      |
| 609  | Blackened Brass   | Brass           | US5      |
| 612  | Satin Bronze      | Brass           | US10     |
| 613  | Oil Rubbed Bronze | Brass           | US10B    |
| 619  | Satin Nickel      | Brass           | US15     |
| 622  | Matte Black       | Brass           | BLK      |
| 625  | Bright Chrome     | Brass           | US26     |
| 626  | Satin Chrome      | Brass           | US26D    |
| –    | Aged Bronze       | Brass           | 643e/716 |
| 630  | Stainless Steel   | Stainless steel | US32D    |

For other colors, consult factory.

Note: WS406/407 is the full part number. 406 and 407 are not different products.

# 411R-W

#### Wall bumper - adhesive

- Adhesive-backed wall door stop for use on clean, smooth, flat surfaces only
- Non-marring white rubber
- Concave design permits knob to strike stop without damaging or engaging lock mechanism



#### Specifications

|                    |                  |
|--------------------|------------------|
| Material substrate | Made from rubber |
|--------------------|------------------|

#### Dimensions

| Base diameter | Base thickness | Overall projection |
|---------------|----------------|--------------------|
| 1 7/8"        | 3/8"           | 1 1/16"            |

#### Finish

| BHMA | Description | Substrate | Finish |
|------|-------------|-----------|--------|
| –    | White       | Rubber    | R-W    |

## Door stops, holders and silencers

### Wall stops and holders

# WS11/WS11X

#### Wall stops

- Hexagon section on unit aids in fastening unit when expansion shield is used
- Replaceable black rubber bumpers features off-set shoulder and threaded shank that screws into body of unit
- WS11 is packed with fasteners for drywall/wood applications
- WS11X is packed with fasteners for heavy duty masonry applications



WS11

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass   |
| Certifications     | <ul style="list-style-type: none"><li>▪ WS11 Meets ANSI/BHMA 156.16, L12011</li><li>▪ WS11X Meets ANSI/BHMA 156.16, L12021</li></ul> |

#### Dimensions

|                      |                           |
|----------------------|---------------------------|
| <b>Base diameter</b> | <b>Overall projection</b> |
| 2"                   | 3 3/4"                    |

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

#### Available accessories

- Security pin screws
- Replaceable black non-marring rubber bumper

# WS20/WS20X

#### Manual wall holders

- Hexagon section on unit aids in fastening unit when expansion shield is used
- Replaceable black rubber bumpers feature off-set shoulder and threaded shank that screws into body of holder
- Hinged strike furnished matches body material and finish
- WS20 is packed with fasteners for drywall/wood applications
- WS20X is packed with fasteners for heavy duty masonry applications



WS20

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass or aluminum   |
| Certifications     | <ul style="list-style-type: none"><li>▪ WS20 Meets ANSI/BHMA 156.16, L11341 for brass and L31341 for aluminum</li><li>▪ WS20X Meets ANSI/BHMA 156.16, L11351 for brass and L31351 for aluminum</li></ul> |

#### Dimensions

|                      |                           |                      |                     |
|----------------------|---------------------------|----------------------|---------------------|
| <b>Base diameter</b> | <b>Overall projection</b> | <b>Strike height</b> | <b>Strike width</b> |
| 2 3/8"               | 4"                        | 2"                   | 1"                  |

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |
| 628  | Satin Aluminum    | Aluminum  | US28   |

For other colors, consult factory.

#### Available accessories

- Security pin screws
- Replaceable black non-marring rubber bumper

## Door stops, holders and silencers

### Wall stops and holders

# WS33/WS33X

#### Wall stops

- Replaceable rubber bumper with offset shoulder screws into cavity on body to prevent loss or theft
- Sloping design discourages vandalism
- WS33 is packed with fasteners for drywall/wood applications.
- WS33X is packed with fasteners for heavy duty masonry applications

#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ WS33 Meets ANSI/BHMA 156.16, L12011</li> <li>▪ WS33X Meets ANSI/BHMA 156.16, L12021</li> </ul> |

#### Dimensions

|                      |                           |
|----------------------|---------------------------|
| <b>Base diameter</b> | <b>Overall projection</b> |
| 2 1/4" W x 3" H      | 3 3/4"                    |

#### Finish

| BHMA | Description  | Substrate | Finish |
|------|--------------|-----------|--------|
| 626  | Satin Chrome | Brass     | US26D  |

For other colors, consult factory.

#### Available accessories

- Security pin screws
- Replaceable black non-marring rubber bumper



# WS65

#### Wall stop

- Replaceable non-marring white rubber bumper
- Packed with fasteners for wood applications

#### Specifications

|                    |                         |
|--------------------|-------------------------|
| Material substrate | Made from cast aluminum |
|--------------------|-------------------------|

#### Dimensions

|                      |                           |
|----------------------|---------------------------|
| <b>Base diameter</b> | <b>Overall projection</b> |
| 1 5/8"               | 3 3/4"                    |

#### Finishes

| BHMA | Description          | Substrate | Finish |
|------|----------------------|-----------|--------|
| 666  | Bright Brass         | Aluminum  | US3    |
| 668  | Satin Bronze         | Aluminum  | US10   |
| 703  | Oil Rubbed Bronze    | Aluminum  | US10B  |
| –    | Clear Satin Aluminum | Aluminum  | US27   |

For other colors, consult factory.

#### Available accessories

- Replaceable white non-marring rubber bumper
- Replaceable black non-marring rubber bumper



## Door stops, holders and silencers

### Wall stops and holders

# WS443/WS447

#### Wall stops

- Ideal for interior or exterior use
- Replaceable black non-marring rubber tip
- WS443 is packed with fasteners for heavy duty masonry applications
- WS447 is packed with fasteners for drywall/wood applications



WS443

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ WS443 Meets ANSI/BHMA 156.16, L12021 for brass and L32021 for aluminum</li> <li>▪ WS447 Meets ANSI/BHMA 156.16, L12011 for brass and L32011 for aluminum</li> </ul> |

#### Dimensions

|                      |                           |
|----------------------|---------------------------|
| <b>Base diameter</b> | <b>Overall projection</b> |
| 2 1/4"               | 3 11/16"                  |

#### Available accessories

- Replaceable black non-marring rubber bumper

# WS445/WS449

#### Manual wall holders

- Unit functions as a stop but serves as a hold-open device when hook is manually engaged in strike
- Unit requires manual disengagement to release hold-open
- Replaceable black non-marring rubber tip
- WS445 is packed with fasteners for heavy duty masonry applications
- WS449 is packed with fasteners for drywall/wood applications



WS445

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass or aluminum   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ WS445 Meets ANSI/BHMA 156.16, L11351 for brass</li> <li>▪ WS449 Meets ANSI/BHMA 156.16, L11341 for brass and L31341 for aluminum</li> </ul> |

#### Dimensions

|                      |                           |                           |
|----------------------|---------------------------|---------------------------|
| <b>Base diameter</b> | <b>Overall projection</b> | <b>Engaged projection</b> |
| 2 1/4"               | 3 11/16"                  | 5 3/4"                    |
| <b>Strike height</b> | <b>Strike width</b>       | <b>Strike projection</b>  |
| 1 1/2"               | 13/16"                    | 13/16"                    |

#### Available accessories

- Replaceable black non-marring rubber bumper

#### WS443, WS445, WS447 and WS449 Finishes

| BHMA | Description       | Substrate | Finish   |
|------|-------------------|-----------|----------|
| 605  | Bright Brass      | Brass     | US3      |
| 606  | Satin Brass       | Brass     | US4      |
| 612  | Satin Bronze      | Brass     | US10     |
| 613  | Oil Rubbed Bronze | Brass     | US10B    |
| 619* | Satin Nickel      | Brass     | US15     |
| 622* | Matte Black       | Brass     | BLK      |
| 625  | Bright Chrome     | Brass     | US26     |
| 626  | Satin Chrome      | Brass     | US26D    |
| 628* | Satin Aluminum    | Aluminum  | US28     |
| -    | Aged Bronze       | Brass     | 643e/716 |

\*Not available on WS443, WS445 or WS447. For other colors, consult factory.

## Door stops, holders and silencers

### Wall stops and holders

# WS40

#### Automatic wall holder

- Holder is mounted on wall and strike is mounted on door
- Roller on holder rides up seats itself on strike, with a heavy duty bumper pad deadening the sound and shock
- Packed with fasteners for light duty masonry and drywall/wood applications

#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass or aluminum                                  |
| Certifications     | Meets ANSI/BHMA 156.16, L11291 for brass, and L31291 for aluminum |

#### Dimensions

| Base height | Base width | Base projection | Engaged projection | Strike height | Strike width | Strike projection |
|-------------|------------|-----------------|--------------------|---------------|--------------|-------------------|
| 2"          | 2 1/2"     | 2 1/4"          | 3 1/2"             | 2 1/16"       | 3/4"         | 2"                |

#### Available accessories

- Security pin screw
- Hook package



# WS45/WS45X

#### Automatic wall holder

- Spring loaded roller rides up the face of the strike, seating itself on the strike, holding the door firmly in the open position
- A heavy rubber pad cushions the shock and absorbs the sound
- With unit mounted on door and the strike on wall, vertical adjustment is available on body
- The strike is adjustable 45 degrees left or right, both adjustments easily accomplished at time of installation or at a later date
- WS45 is packed with fasteners for drywall/wood applications
- WS45X is packed with fasteners for heavy duty masonry applications

#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass or aluminum                                      |
| Certifications     | Both meet ANSI/BHMA 156.16, L11291 for brass, and L31291 for aluminum |

#### Dimensions

| Base height | Base width | Base projection | Engaged projection | Strike diameter | Strike projection |
|-------------|------------|-----------------|--------------------|-----------------|-------------------|
| 3 1/16"     | 3"         | 2"              | 3 7/16"            | 2 3/8"          | 3"                |

#### Available accessories

- Security pin screw
- Hook package



#### WS40, WS45 and WS45X Finishes

| BHMA | Description       | Substrate | Finish   |
|------|-------------------|-----------|----------|
| 605  | Bright Brass      | Brass     | US3      |
| 606  | Satin Brass       | Brass     | US4      |
| 612  | Satin Bronze      | Brass     | US10     |
| 613  | Oil Rubbed Bronze | Brass     | US10B    |
| 619* | Satin Nickel      | Brass     | US15     |
| 622* | Matte Black       | Brass     | BLK      |
| 625  | Bright Chrome     | Brass     | US26     |
| 626  | Satin Chrome      | Brass     | US26D    |
| 628  | Satin Aluminum    | Aluminum  | US28     |
| -*   | Aged Bronze       | Brass     | 643e/716 |

\*Not available on WS40. For other colors, consult factory.

## Door stops, holders and silencers

### Wall stops and holders

# FS452

#### Kick down holder

- Units provide simple hold and release, activated with a touch of the foot
- Stainless steel spring
- Replaceable black non-marring rubber shoes have corrugated bottoms to provide secure grip
  - Rubber shoe is securely fastened with screw
- Shoes are easily replaced when worn
- Packed with fasteners for wood applications
- FS452-4 has a door-to-floor clearance of 2" or less
- FS452-5 has a door-to-floor clearance up to 3"



#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass or aluminum                                  |
| Certifications     | Meets ANSI/BHMA 156.16, L11383 for brass, and L31383 for aluminum |

#### Dimensions

| Door to floor clearance | Plate height      | Plate width   |
|-------------------------|-------------------|---------------|
| ▪ FS452-4: 2" or less   | ▪ FS452-4: 2 1/8" | ▪ FS452-4: 1" |
| ▪ FS452-5: up to 3"     | ▪ FS452-5: 2 1/8" | ▪ FS452-5: 1" |

#### Available accessories

- Replaceable black non-marring rubber shoes

# FS455

#### 4" Kick down holder

- Units provide simple hold and release, activated with a touch of the foot
- Stainless steel spring
- Replaceable black non-marring rubber shoes have corrugated bottoms to provide secure grip
  - Rubber shoe is securely fastened with screw
- Shoes are easily replaced when worn
- Packed with fasteners for wood applications
- Door-to-floor clearances of 2" or less



#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from cast brass or aluminum                                  |
| Certifications     | Meets ANSI/BHMA 156.16, L11382 for brass, and L31382 for aluminum |

#### Dimensions

| Door to floor clearance | Plate height | Plate width |
|-------------------------|--------------|-------------|
| 2" or less              | 1 3/4"       | 1 3/4"      |

#### Available accessories

- Replaceable black non-marring rubber shoes

#### FS452 and FS455 Finishes

| BHMA | Description          | Substrate | Finish   |
|------|----------------------|-----------|----------|
| 605  | Bright Brass         | Brass     | US3      |
| 606  | Satin Brass          | Brass     | US4      |
| 612  | Satin Bronze         | Brass     | US10     |
| 613  | Oil Rubbed Bronze    | Brass     | US10B    |
| 619  | Satin Nickel         | Brass     | US15     |
| 622  | Matte Black          | Brass     | BLK      |
| 625  | Bright Chrome        | Brass     | US26     |
| 626  | Satin Chrome         | Brass     | US26D    |
| –    | Aged Bronze          | Brass     | 643e/716 |
| 628  | Satin Aluminum       | Aluminum  | US28     |
| 666* | Bright Brass         | Aluminum  | US3AL    |
| –*   | Blackened Brass      | Aluminum  | US5AL    |
| 668* | Satin Bronze         | Aluminum  | US10AL   |
| –*   | Clear Satin Aluminum | Aluminum  | US27     |

\* Not available on FS452. For other colors, consult factory.

## Door stops, holders and silencers

### Wall stops and holders

# FS544/FS555

#### Kick down holders

- FS544 - 4", FS555 - 5"
- Units provide an economical method to hold open doors
- Stainless steel spring
- Replaceable grey non-marring rubber shoes have corrugated bottoms to provide secure grip
  - Rubber shoe is securely fastened with screw
- Shoes are easily replaced when worn
- Packed with fasteners for wood applications
- FS544 for door-to-floor clearances of 2" or less
- FS555 for door-to-floor clearances up to 3"



FS544

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast iron  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ FS544 Meets ANSI/BHMA 156.16, L11381</li> <li>▪ FS555 Meets ANSI/BHMA 156.16, L11391</li> </ul> |

#### Dimensions

| Door to floor clearance  | Plate height   | Plate width  |
|--|--|--|
| <ul style="list-style-type: none"> <li>▪ FS544: 2" or less</li> <li>▪ FS555: up to 3"</li> </ul> | <ul style="list-style-type: none"> <li>▪ FS544: 2 1/4"</li> <li>▪ FS555: 2 1/4"</li> </ul> | <ul style="list-style-type: none"> <li>▪ FS544: 1 7/16"</li> <li>▪ FS555: 1 7/16"</li> </ul> |

#### Finishes

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 689  | Aluminum Painted    | Iron      | SP28   |
| 691  | Bronze Painted      | Iron      | SP10   |
| 695  | Dark Bronze Painted | Iron      | SP313  |
| 706  | Brass Painted       | Iron      | SP4    |
| –    | Matte Black         | Iron      | BLK    |

For other colors, consult factory.

#### Available accessories

- Replaceable grey non-marring rubber shoes

# FS1153

## Plunger type door holder

- Provides a contemporary yet economical method of positive hold-open
- Spring operated plunger activates with minimal pressure, releasing instantly with a light tap on the platform lever
- Provides a 1 5/8" throw for all types of doors
- Ribbed grey non-marring rubber shoe is securely fastened to unit with a screw and is easily replaced when worn
- Packed with fasteners for wood applications



### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from cast aluminum        |
| Certifications     | Meets ANSI/BHMA 156.16, L11401 |

### Dimensions

| Height | Width | Depth  |
|--------|-------|--------|
| 5 1/2" | 2"    | 1 1/4" |

### FS452 and FS455 Finish - aluminum

| BHMA | Description    | Substrate | Finish |
|------|----------------|-----------|--------|
| 628  | Satin Aluminum | Aluminum  | US28   |

For other colors, consult factory.

### Available accessories

- Replaceable grey non-marring rubber shoes

# FS1154

## Plunger type door holder

- Plunger and internal parts are plated steel and provides a 1 1/4" throw for all types of doors
- Plunger is easily activated with minimal pressure, releasing instantly with a light tap on the platform lever
- Round non-marring rubber shoe is securely fastened with a screw in flanged cup to prevent movement or loss (when worn, shoes are easily replaced)
- Packed with fasteners for wood applications



### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from cast brass           |
| Certifications     | Meets ANSI/BHMA 156.16, L31401 |

### Dimensions

| Height | Width  | Depth   |
|--------|--------|---------|
| 6 1/4" | 1 1/2" | 1 7/16" |

### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 606  | Satin Brass       | Brass     | US4    |
| 612  | Satin Bronze      | Brass     | US10   |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

### Available accessories

- Replaceable grey non-marring rubber shoes

## Door stops, holders and silencers

### Roller bumpers

# RB470 / RB471 / RB472

#### Roller bumpers (straight and offset models)

- RB470 Offset roller bumper - Used where two doors open against each other to prevent damage to the doors or hardware
- RB471 (4 1/2") and RB472 (6") Straight roller bumpers - Ideal for use in situations where doors meet each other at approximate right angles (back to back)
- Grey rubber roller
- Packed with fasteners for wood applications

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass   |
| Certifications     | <ul style="list-style-type: none"> <li>▪ RB470 Meets ANSI/BHMA 156.16, L12212</li> <li>▪ RB471 Meets ANSI/BHMA 156.16, L12192</li> <li>▪ RB472 Meets ANSI/BHMA 156.16, L12202</li> </ul> |

#### Dimensions

| Base size/diameter   | Length  | Arm offset  |
|--|---|---|
| <ul style="list-style-type: none"> <li>▪ RB470 size: 1 1/16" x 2 1/4"</li> <li>▪ RB471 diameter: 2"</li> <li>▪ RB472 diameter: 2"</li> </ul> | <ul style="list-style-type: none"> <li>▪ RB470: 5"</li> <li>▪ RB471: 4 1/2"</li> <li>▪ RB472: 6"</li> </ul> | <ul style="list-style-type: none"> <li>▪ RB470: 2 3/4"</li> </ul> |

#### Finishes

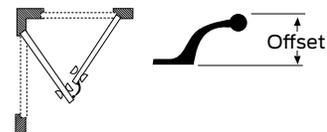
| BHMA             | Description       | Substrate | Finish |
|------------------|-------------------|-----------|--------|
| 605              | Bright Brass      | Brass     | US3    |
| 606 <sup>2</sup> | Satin Brass       | Brass     | US4    |
| 612 <sup>1</sup> | Satin Bronze      | Brass     | US10   |
| 613 <sup>1</sup> | Oil Rubbed Bronze | Brass     | US10B  |
| 619 <sup>1</sup> | Satin Nickel      | Brass     | US15   |
| 625              | Bright Chrome     | Brass     | US26   |
| 626              | Satin chrome      | Brass     | US26D  |

For other colors, consult factory.

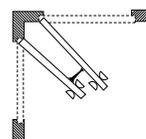
1. Only available on RB472.
2. Only available on RB471 and RB472.

#### Available accessories

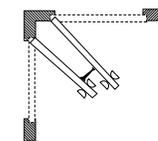
- Replaceable grey non-marring rubber shoes



RB470



RB471



RB472

## Door stops, holders and silencers

### Residential door stops

# 060/061

#### Flexible door stops

- 060 - 3", 061 - 4"
- Utilizes heavy gauge spring to maintain rigid protections
- Simple to install - only a screwdriver required
- Packed disassembled for quick installation
- White rubber tip
- Packed with fasteners for wood applications



#### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from steel        |
| Certifications     | Meets ANSI/BHMA 156.16 |

#### Dimensions

| Base diameter | Tip diameter | Projection  |
|---------------|--------------|---|
| 1"            | 1 9/16"      | <ul style="list-style-type: none"><li>▪ 060: 3"</li><li>▪ 061: 4"</li></ul> |

#### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 631  | Matte Black       | Steel     | F-BLK      |
| 632  | Bright Brass      | Steel     | F3         |
| 638  | Blackened Brass   | Steel     | F5         |
| 639  | Satin Bronze      | Steel     | F10        |
| 640  | Oil Rubbed Bronze | Steel     | F10B       |
| 645  | Bright Nickel     | Steel     | F14        |
| -    | Aged Bronze       | Steel     | F-643E/716 |
| 646  | Satin Nickel      | Steel     | F15        |
| 651  | Bright Chrome     | Steel     | F26        |
| 652  | Satin Chrome      | Steel     | F26D       |
| -*   | White             | Steel     | F-W        |

\* Only available on 061. For other colors, consult factory.

#### Available accessories

- Replaceable white rubber tip

## Door stops, holders and silencers

### Residential door stops

# 60/61

#### Base door stops

- 60 - 3 <sup>3</sup>/<sub>4</sub>" , 61 - 3 <sup>1</sup>/<sub>8</sub>"
- Simple to install - only a screwdriver required
- Packed disassembled for quick installation
- Available in three sizes to accommodate varying areas of installation and door trim dimensions
- White rubber tip
- Welded fastener for wood applications

Note: 61A - 643e/716 ships with black rubber tips

#### Specifications

Material substrate      Made from brass, aluminum or zinc

#### Dimensions

| Base diameter                                      | Tip diameter                                       | Projection   |
|--|--|--|
| ▪ 60: 1"   | ▪ 60: <sup>5</sup> / <sub>8</sub> "                | ▪ 60: 3 <sup>3</sup> / <sub>4</sub> "                |
| ▪ 61 Brass/aluminum: <sup>7</sup> / <sub>8</sub> " | ▪ 61 Brass/aluminum: <sup>5</sup> / <sub>8</sub> " | ▪ 61 Brass/aluminum: 3 <sup>1</sup> / <sub>8</sub> " |
| ▪ 61 Zinc: 1"                                      | ▪ 61 Zinc: <sup>5</sup> / <sub>8</sub> "           | ▪ 6 Zinc: 2 <sup>7</sup> / <sub>8</sub> "            |

#### Finishes - brass

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 609  | Blackened Brass   | Brass     | B5         |
| 612  | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 620* | Blackened Nickel  | Brass     | B15A       |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| -    | Aged Bronze       | Brass     | B-643e/716 |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 666  | Bright Brass        | Aluminum  | A3         |
| -*   | Blackened Brass     | Aluminum  | A5         |
| 668* | Satin Bronze        | Aluminum  | A10        |
| 703  | Oil Rubbed Bronze   | Aluminum  | A10B       |
| 669  | Bright Nickel       | Aluminum  | A14        |
| 670  | Satin Nickel        | Aluminum  | A15        |
| 672  | Bright Chrome       | Aluminum  | A26        |
| 702  | Satin Chrome        | Aluminum  | A26D       |
| 673  | Aluminum Clear Coat | Aluminum  | A92        |
| -    | Aged Bronze         | Aluminum  | A-643e/716 |
| -    | Matte Black         | Aluminum  | A-BLK      |
| -*   | White               | Aluminum  | A-W        |

#### Finishes - zinc

| BHMA | Description  | Substrate | Finish     |
|------|--------------|-----------|------------|
| -*   | Satin Nickel | Zinc      | Z619       |
| -*   | Aged Bronze  | Zinc      | Z-643e/716 |

\*Only available on 61. For other colors, consult factory.

#### Available accessories

- Replaceable white rubber tip
- Replaceable black rubber tip



Aluminum and brass substrate



Zinc substrate

# 63

## Flexible door stop

- Utilizes heavy gauge spring to maintain rigid protections
- Simple to install - only a screwdriver required
- Packed disassembled for quick installation
- White rubber tip
- Packaged with fastener for wood applications



### Specifications

Material substrate Made from wrought steel

### Dimensions

| Base diameter | Tip diameter | Projection |
|---------------|--------------|------------|
| 1"            | 9/16"        | 3"         |

### Finishes

| BHMA | Description     | Substrate | Finish     |
|------|-----------------|-----------|------------|
| 631  | Matte Black     | Steel     | F-BLK      |
| 632  | Bright Brass    | Steel     | F3         |
| 638  | Blackened Brass | Steel     | F5         |
| -    | Aged Bronze     | Steel     | F-643E/716 |
| 646  | Satin Nickel    | Steel     | F15        |
| 651  | Bright Chrome   | Steel     | F26        |
| 652  | Satin Chrome    | Steel     | F26D       |
| -    | White           | Steel     | F-W        |

For other colors, consult factory.

### Available accessories

- Replaceable white rubber tip
- Replaceable black rubber tip

# 64

## Base door stops

- Base door stop features deluxe one-piece styling
- Easily screws into base
- Designed with hexagonal head to accommodate wrench or pliers when installing
- White rubber tip
- Packaged with fastener for wood applications



### Specifications

Material substrate Made from solid brass or aluminum

### Dimensions

| Base diameter | Tip diameter | Projection |
|---------------|--------------|------------|
| 1"            | 9/16"        | 3 1/4"     |

### Finishes

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 605  | Bright Brass        | Brass     | B3         |
| 606  | Satin Brass         | Brass     | B4         |
| 609  | Blackened Brass     | Brass     | B5         |
| 612  | Satin Bronze        | Brass     | B10        |
| 613  | Oil Rubbed Bronze   | Brass     | B10B       |
| 619  | Satin Nickel        | Brass     | B15        |
| 622  | Matte Black         | Brass     | B-BLK      |
| 625  | Bright Chrome       | Brass     | B26        |
| 626  | Satin Chrome        | Brass     | B26D       |
| -    | Aged Bronze         | Brass     | B-643e/716 |
| 666  | Bright brass        | Aluminum  | A3         |
| 673  | Aluminum clear coat | Aluminum  | A92        |
| 703  | Oil rubbed bronze   | Aluminum  | A10B       |

### Available accessories

- Replaceable white rubber tip
- Replaceable black rubber tip

## Door stops, holders and silencers

### Residential door stops

# 69

#### Hinge pin door stop

- Economical solution for use on low frequency, lightweight, residential 3 1/2" or 4" hinged doors where the installation of a standard door stop or overhead is not desirable
- Adjustable for 70° to 100° door openings
- Positive slip proof adjustment
- White non-marring rubber tips
- Removable bushings accommodate 1/4" to 5/16" diameter hinge pins
- Easy installation—only a screwdriver required



#### Specifications

|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from burnished wrought steel |
|--------------------|-----------------------------------|

#### Dimensions

| Base diameter | Tip diameter | Projection |
|---------------|--------------|------------|
| 1"            | 9/16"        | 3 1/4"     |

#### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 631  | Matte black       | Steel     | F-BLK      |
| 632  | Bright brass      | Steel     | F3         |
| 638  | Blackened brass   | Steel     | F5         |
| 639  | Satin bronze      | Steel     | F10        |
| 640  | Oil rubbed bronze | Steel     | F10B       |
| 645  | Bright nickel     | Steel     | F14        |
| —    | Aged bronze       | Steel     | F-643e/716 |
| 646  | Satin nickel      | Steel     | F15        |
| 647  | Bright nickel     | Steel     | F15A       |
| 651  | Bright chrome     | Steel     | F26        |
| 652  | Satin chrome      | Steel     | F26D       |

For other colors, consult factory.

#### Available accessories

- Replaceable white rubber tip

# 70

## Hinge pin door stop

- Economical solution for use on low frequency, lightweight, residential 3 1/2" or 4" hinged doors where the installation of a standard door stop or overhead is not desirable
- Designed for narrow trim installation
- High quality rubber bumpers - shoulder on stud supports rubber through entire body for engineered cushioning
- Removable bushings accommodate 1/4" diameter hinge pins
- Easy installation
- White rubber and nylon tips

Note: 70A - 716 ships with black rubber tips

### Specifications

Material substrate      Made from brass, aluminum or zinc

#### Finishes - brass

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 609  | Blackened Brass   | Brass     | B5         |
| 612  | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| -    | Aged Bronze       | Brass     | B-643e/716 |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 666  | Bright Brass        | Aluminum  | A3         |
| 667  | Satin Brass         | Aluminum  | A4         |
| -    | Blackened Brass     | Aluminum  | A5         |
| 668  | Satin Bronze        | Aluminum  | A10        |
| 703  | Oil Rubbed Bronze   | Aluminum  | A10B       |
| 669  | Bright Nickel       | Aluminum  | A14        |
| 670  | Satin Nickel        | Aluminum  | A15        |
| 672  | Bright Chrome       | Aluminum  | A26        |
| 702  | Satin Chrome        | Aluminum  | A26D       |
| 673  | Aluminum Clear Coat | Aluminum  | A92        |
| -    | Aged Bronze         | Aluminum  | A-643e/716 |
| -    | Matte Black         | Aluminum  | A-BLK      |
| -    | White               | Aluminum  | A-W        |

#### Finishes - zinc

| BHMA | Description | Substrate | Finish     |
|------|-------------|-----------|------------|
| -    | Dark Bronze | Zinc      | Z406E      |
| -    | Aged Bronze | Zinc      | Z-643e/716 |

For other colors, consult factory.

### Available accessories

- Replaceable white rubber tip



Aluminum substrate



Brass and zinc substrate

## Door stops, holders and silencers

### Residential door stops

# 72

#### Hinge pin door stop

- Economical solution for use on low frequency, lightweight, residential 3 1/2" or 4" hinged doors where the installation of a standard door stop or overhead is not desirable
- 85° to 125° Door opening adjustments
- Designed for narrow trim installation
- White rubber bumpers - shoulder on stud supports rubber through entire body for engineered cushioning
- Removable bushings accommodate 1/4" to 5/16" diameter hinge pins
- Easy installation



#### Specifications

|                    |                     |
|--------------------|---------------------|
| Material substrate | Made from cast zinc |
|--------------------|---------------------|

#### Dimensions

|             |        |
|-------------|--------|
| Post length | 1 7/8" |
|-------------|--------|

#### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 676  | Matte Black       | Zinc      | Z-BLK      |
| 677  | Bright Brass      | Zinc      | Z-605E     |
| -    | Blackened Brass   | Zinc      | Z-609E     |
| 704  | Oil Rubbed Bronze | Zinc      | Z-613E     |
| -    | Satin Nickel      | Zinc      | Z-619E     |
| 681  | Bright Chrome     | Zinc      | Z-625E     |
| 682  | Satin Chrome      | Zinc      | Z-626E     |
| -    | Aged Bronze       | Zinc      | Z-643e/716 |
| -    | White             | Zinc      | Z-W        |

For other colors, consult factory.

#### Available accessories

- Replaceable white rubber tip

# 73

#### Hinge pin door stop

- Economical solution for use on low frequency, 4 1/2" hinges or above hinged doors where the installation of a standard door stop or overhead is not desirable
- 85° to 125° Door opening adjustments
- Designed for narrow trim installation
- White rubber bumpers - shoulder on stud supports rubber through entire body for engineered cushioning
- Removable bushings accommodate 1/4" to 5/16" diameter hinge pins



#### Specifications

|                    |                     |
|--------------------|---------------------|
| Material substrate | Made from cast zinc |
|--------------------|---------------------|

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 677  | Bright Brass      | Zinc      | Z-605E |
| 704  | Oil Rubbed Bronze | Zinc      | Z-613E |
| -    | Satin Nickel      | Zinc      | Z-619E |
| 681  | Bright Chrome     | Zinc      | Z-625E |

For other colors, consult factory.

#### Available accessories

- Replaceable white rubber tip

# 74

## Hinge pin door stop

- Economical solution, hinge mounted to fit all doors
- Design reduces damage to doors and trim
- Adjustable for 40° to 180° door openings
- Removable bushings accommodate 1/4" to 5/16" diameter hinge pins (74 Series)
- Removable bushings accommodate 5/16" to 3/8" diameter hinge pins (75 Series)
- Easy installation—no tools required



### Specifications

Material substrate      Carbon steel

#### Finishes

| BHMA | Description       | Substrate    | Finish |
|------|-------------------|--------------|--------|
| 632  | Bright Brass      | Carbon Steel | US3    |
| 640  | Oil Rubbed Bronze | Carbon Steel | US10B  |
| 646  | Satin Nickel      | Carbon Steel | US15   |
| 651  | Chrome            | Carbon Steel | US26   |
| 631  | Black             | Carbon Steel | US19   |
| 635  | Antique Brass     | Carbon Steel | US5    |

# 75

## Hinge pin door stop

- Economical solution, hinge mounted to fit all doors
- Design reduces damage to doors and trim
- Adjustable for 40° to 180° door openings
- Removable bushings accommodate 1/4" to 5/16" diameter hinge pins (74 Series)
- Removable bushings accommodate 5/16" to 3/8" diameter hinge pins (75 Series)
- Easy installation—no tools required



### Specifications

Material substrate      Carbon steel

#### Finishes

| BHMA | Description       | Substrate    | Finish |
|------|-------------------|--------------|--------|
| 640  | Oil Rubbed Bronze | Carbon Steel | US10B  |
| 646  | Satin Nickel      | Carbon Steel | US15   |
| 651  | Chrome            | Carbon Steel | US26   |

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## Door stops, holders and silencers

### Door silencers

# SR64

#### Door silencer - metal

- For use on metal frames featuring pneumatic design that, once installed, forms an air pocket to absorb shock and reduce noise of door closing
- Tamper-proof once installed on the frame
- Proper installation also eliminates door rattle and provides constant tension for door latches or locks
- Packed in bags of 100
- Grey also available in bulk pack of 2500
- Each bag has an installation tool included



#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from 60 Durometer styrene butadiene rubber |
| Certifications     | Meets ANSI/BHMA 156.16, L03011                  |

#### Dimensions

| Diameter | Projection |
|----------|------------|
| 1/2"     | 1/8"       |

# SR65

#### Door silencer - wood

- For use on wood frames, also feature pneumatic design to cushion shock and absorb noise
- To prevent removal, a small brad should be driven into stop strip and through stem of silencer, as shown in the detail
- Packed in bags of 100



#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from 60 Durometer styrene butadiene rubber |
| Certifications     | Meets ANSI/BHMA 156.16, L03021                  |

#### Dimensions

| Diameter | Width | Projection |
|----------|-------|------------|
| 3/4"     | 3/8"  | 1/8"       |

# SR66

#### Door silencer - adhesive

- Self adhesive rubber silencers
- Economical installation requires no drilling of frames
- Packed two sheets of 50 (100 minimum)



#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from 60 Durometer styrene butadiene rubber |
| Certifications     | Meets ANSI/BHMA 156.16, L03021                  |

#### Dimensions

| Diameter | Projection |
|----------|------------|
| 1/2"     | 1/8"       |

#### SR64, SR65 and SR66 Finishes

| BHMA | Description | Substrate | Finish |
|------|-------------|-----------|--------|
| —*   | Brown       | Rubber    | BRN    |
| —    | Grey        | Rubber    | GRY    |
| —*   | White       | Rubber    | WHT    |

\*Only available on SR66. For other colors, consult factory.

## Door stops, holders and silencers

### Crash stop

# CS115



#### Crash stop

- Specially designed for full-size exterior doors
- Tear resistant, grey vinyl cover
- Heavy duty compression spring assembled to both ends of chain and end brackets
- Packed with sheet metal screw.
- Cast brass brackets with solid, welded steel chain
- Optional sex bolt mounting available in US26D (626) only

#### Specifications

|                   |   |
|-------------------|---|
| Available lengths | <ul style="list-style-type: none"> <li>▪ 20 1/2" - Recommended for 30" door width (product no. CS115-20)</li> <li>▪ 25 1/2" - Recommended for 36" door width (product no. CS115-25)</li> <li>▪ 30 1/2" - Recommended for 42" door width (product no. CS115-30)</li> </ul> |
|-------------------|---|

#### Dimensions

|                     |                   |
|---------------------|-------------------|
| <b>Bracket size</b> | 1 9/16" x 1 9/16" |
|---------------------|-------------------|

#### Finishes

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 613  | Oil Rubbed Bronze | Brass     | B10B   |
| 626  | Satin Chrome      | Brass     | B26D   |

#### Available accessories

- Through bolt mounting available in US26D (626) only
- Through bolt with cap nut mounting available in US26D (626) only

## Exterior hardware

Lock guards, viewers, knockers and mail slots

# Lock guards, viewers, knockers and mail slots

Ives provides exterior hardware designed to handle any weather and has a solution for any application needs. Ives offers a line of lock guards, all designed to fit specific door styles, lock types and trim types. Many designs of viewers, knockers, and mail slots are offered for front doors.



## Exterior hardware

### Lock guards

# LG1/LG7

#### Lock guard (with and without security pin)

- LG1 incorporates security frame pin to prevent separation of the door and frame  
LG7 does not incorporate the security frame pin
- Ideal for use with mortise or cylindrical locks
- Unit covers the latch bolt area of the door and lock, thereby providing added protection from burglars, vandals or normal abuse
- Non-handed
- Easy installation
- Through bolted with carriage bolts and nuts

#### Specifications

|                    |   |
|--------------------|---|
| Material substrate | Made from 13 gauge stainless steel, 12 gauge steel (LG1 only) or brass (LG1 only) |
| Certifications     | UL10C Listed (3 hour)   |

#### Dimensions

| W x H        | Bolt center to center |
|--------------|-----------------------|
| 3" x 11 1/2" | 10 1/2"               |

#### Finishes

| BHMA | Description         | Substrate       | Finish |
|------|---------------------|-----------------|--------|
| 600* | Primed for paint    | Steel           | USP    |
| 603* | Zinc plated         | Steel           | US2G   |
| 695* | Dark bronze painted | Steel           | SP313  |
| 606* | Satin brass         | Brass           | US4    |
| 612* | Satin bronze        | Brass           | US10   |
| 630  | Satin stainless     | Stainless steel | US32D  |

\*Not available on LG7. For other colors, consult factory.



# LG10

#### Lock guard

- Ideally suited for use with rose or escutcheon 2 3/4" wide or less
- For use with type 86 mortise and type 161 cylindrical locks (ANSI/BHMA 156.13 Series 1000 and ANSI/BHMA 156.2 Series 4000)
- Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point
- Non-handed
- 2 welded mounting studs. No exposed fasteners on face of unit

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 13 gauge stainless steel, 12 gauge steel |
| Certifications     | UL10C Listed (3 hour)                              |

#### Dimensions

| W x H           | Stud center to center |
|-----------------|-----------------------|
| 2 1/2" x 9 1/2" | 8 1/2"                |

#### Finishes

| BHMA | Description      | Substrate       | Finish |
|------|------------------|-----------------|--------|
| 600  | Primed for Paint | Steel           | USP    |
| 630  | Satin Stainless  | Stainless steel | US32D  |

For other colors, consult factory.

#### Available accessories

- Security pin fasteners



## Exterior hardware

### Lock guards

# LG11

#### Lock guard - aluminum doors

- Designed for use on aluminum doors with latch-type locks or doors equipped with electric strikes
- Unique design provides maximum security, virtually eliminating the opening between door and frame at latch point
- Unit is handed - Specify left or right hand when ordering (order RH for LHR door, and LH for RHR door)
- 2 welded mounting studs (no exposed fasteners on face of unit)

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 13 gauge stainless steel, 12 gauge steel |
| Certifications     | UL10C Listed (3 hour)                              |

#### Dimensions

|              |                              |
|--------------|------------------------------|
| <b>W x H</b> | <b>Stud center to center</b> |
| 3" x 9 1/2"  | 8 1/2"                       |

#### Finishes

| BHMA | Description         | Substrate       | Finish |
|------|---------------------|-----------------|--------|
| 630  | Satin Stainless     | Stainless steel | US32D  |
| 695  | Dark Bronze Painted | Steel           | SP313  |

For other colors, consult factory.

#### Available accessories

- Security pin fasteners



RH (LHR) shown

# LG12

#### Lock guard - narrow

- Narrow design unit for use on rose or escutcheon 3 1/2" or less
- For use with type 86 mortise and type 161 cylinder locks (ANSI/BHMA 156.13 Series 1000 and ANSI/BHMA 156.2 Series 4000)
- Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point
- Non-handed
- 2 welded mounting studs (no exposed fasteners on face of unit)

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 13 gauge stainless steel, 12 gauge steel |
| Certifications     | UL10C Listed (3 hour)                              |

#### Dimensions

|                 |                              |
|-----------------|------------------------------|
| <b>W x H</b>    | <b>Stud center to center</b> |
| 2 1/2" x 9 1/2" | 8 1/2"                       |

#### Finishes

| BHMA | Description      | Substrate       | Finish |
|------|------------------|-----------------|--------|
| 600  | Primed for Paint | Steel           | USP    |
| 630  | Satin Stainless  | Stainless steel | US32D  |

For other colors, consult factory.

#### Available accessories

- Security pin fasteners



## Exterior hardware

### Lock guards

# LG13

#### Lock guard

- Designed for use on all type 161 cylindrical locks (ANSI/BHMA 156.2 Series 2000) Monolock and Unilock
- Unique design provides maximum security, virtually eliminating the opening between door and frame at latch point
- Non-handed
- 2 welded mounting studs (no exposed fasteners on face of unit)

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from 13 gauge stainless steel, 12 gauge steel |
| Certifications     | UL10C Listed (3 hour)                              |

#### Dimensions

|              |                              |
|--------------|------------------------------|
| <b>W x H</b> | <b>Stud center to center</b> |
| 1 1/2" x 7"  | 4 1/2"                       |



#### Finishes

| BHMA | Description      | Substrate       | Finish |
|------|------------------|-----------------|--------|
| 600  | Primed for Paint | Steel           | USP    |
| 630  | Satin Stainless  | Stainless steel | US32D  |

For other colors, consult factory.

#### Available accessories

- Security pin fasteners

# LG14

#### Lock guard - with electric strike

- Narrow design unit for use on rose or escutcheon 3 1/2" or less
- For use with Von Duprin 6210 and 6211 electric strike
- No exposed fasteners on face of unit
- Unique design provides maximum security, virtually eliminating the opening between door and frame at latch point
- Non-handed
- 4 welded mounting studs. No exposed fasteners on face of unit

#### Specifications

|                    |                                    |
|--------------------|------------------------------------|
| Material substrate | Made from 13 gauge stainless steel |
| Certifications     | UL10C Listed (3 hour)              |

#### Dimensions

|                  |                              |
|------------------|------------------------------|
| <b>W x H</b>     | <b>Stud center to center</b> |
| 2 9/16" x 9 1/2" | 4 1/2" and 6 3/4"            |



#### Finish

| BHMA | Description     | Substrate       | Finish |
|------|-----------------|-----------------|--------|
| 630  | Satin Stainless | Stainless steel | US32D  |

For other colors, consult factory.

#### Available accessories

- Security pin fasteners

## Exterior hardware

### Viewers

# U696

#### One-way viewer - UL

- 150° angle of view
- For doors 1 3/8" to 2 1/16" thick
- Secure, tamper-resistant one-way thread installation
- Simple installation — only a 1/2" hole required
- Suggested installation height: 60" from floor



#### Specifications

|                |  |
|----------------|--|
| Certifications | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.16, L23222</li> <li>▪ UL10C Listed (90 min)</li> </ul> |
|----------------|--|

#### Dimensions

|                          |      |
|--------------------------|------|
| <b>External diameter</b> | 3/4" |
|--------------------------|------|

#### Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 606  | Satin Brass       | Brass     | B4         |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |

For other colors, consult factory.

#### Available accessories

- Trim washer available, 3/4" x .032" thick
- Extensions available for thicker doors
- Privacy viewer covers to prevent viewing from outside the room
- See available accessories details in the viewer covers/extensions section

# 698/U698

#### One-way wide angle viewer (UL and non UL models)

- 190° angle of view
- 4 optical glass lenses
- For doors 1 3/8" to 2 1/8" thick
- Simple installation — only a 9/16" hole required
- Suggested installation height: 60" from floor



#### Specifications

|                |  |
|----------------|--|
| Certifications | <ul style="list-style-type: none"> <li>▪ Meets ANSI/BHMA A156.16, L23222</li> <li>▪ U698 is UL10C Listed (90 min)</li> </ul> |
|----------------|--|

#### Dimensions

|                          |                        |
|--------------------------|------------------------|
| <b>External diameter</b> | <b>Lens projection</b> |
| 1"                       | 1/4" from face of door |

#### Finishes

| BHMA | Description   | Substrate | Finish     |
|------|---------------|-----------|------------|
| 605  | Bright brass  | Brass     | B3         |
| 619* | Satin nickel  | Brass     | B15        |
| 622* | Matte black   | Brass     | B-BLK      |
| 625* | Bright chrome | Brass     | B26        |
| 626  | Satin chrome  | Brass     | B26D       |
| —    | Aged bronze   | Brass     | B-643e/716 |

\*Not available on 698. For other colors, consult factory.

#### Available accessories

- Extensions available for thicker doors
- Privacy viewer covers to prevent viewing from outside the room
- See available accessories details in the viewer covers/extensions section

## Exterior hardware

### Viewers

# 700/U700

## One-way narrow viewer (UL and non-UL models)

- 120° angle of view
- For doors 1 <sup>3</sup>/<sub>8</sub>" to 2 <sup>1</sup>/<sub>16</sub>" thick
- Secure, tamper-resistant one-way thread installation
- Simple installation—only a <sup>1</sup>/<sub>2</sub>" hole required
- Suggested installation height: 60" from floor

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from brass, glass lens  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ 700 meets ANSI/BHMA A156.16, L23173</li> <li>▪ U700 meets ANSI/BHMA A156.16, L23223</li> <li>▪ U700 is UL10C Listed (90 min)</li> </ul> |

### Dimensions

|                   |                               |
|-------------------|-------------------------------|
| External diameter | <sup>5</sup> / <sub>8</sub> " |
|-------------------|-------------------------------|



### Available accessories

- Trim washer available, <sup>3</sup>/<sub>4</sub>" x .032" thick
- Extensions available for thicker doors
- Privacy viewer covers to prevent viewing from outside the room
- See viewer covers/extensions in this section
- See available accessories details in the viewer covers/extensions section

# 701/U701

## One-way narrow wide angle viewer (UL and non UL models)

- 120° angle of view
- For doors 2 <sup>1</sup>/<sub>8</sub>" to 2 <sup>5</sup>/<sub>8</sub>" thick
- Secure, tamper-resistant one-way thread installation
- Simple installation—only a <sup>1</sup>/<sub>2</sub>" hole required
- Suggested installation height: 60" from floor

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from brass, glass lens  |
| Certifications     | <ul style="list-style-type: none"> <li>▪ 701 meets ANSI/BHMA A156.16, L23173</li> <li>▪ U701 meets ANSI/BHMA A156.16, L23223</li> <li>▪ U701 is UL10C Listed (90 min)</li> </ul> |

### Dimensions

|                   |                               |
|-------------------|-------------------------------|
| External diameter | <sup>5</sup> / <sub>8</sub> " |
|-------------------|-------------------------------|



### Available accessories

- Trim washer available, <sup>3</sup>/<sub>4</sub>" x .032" thick
- Extensions available for thicker doors
- Privacy viewer covers to prevent viewing from outside the room
- See available accessories details in the viewer covers/extensions section

### 700/701 and U700/U701 Finishes

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 606  | Satin Brass       | Brass     | B4         |
| 613* | Oil Rubbed Bronze | Brass     | B10B       |
| 619* | Satin Nickel      | Brass     | B15        |
| 622* | Matte Black       | Brass     | B-BLK      |
| 625* | Bright Chrome     | Brass     | B26        |
| 626* | Satin Chrome      | Brass     | B26D       |
| —    | Aged Bronze       | Brass     | B-643e/716 |

\*Not available on 700. For other colors, consult factory.

## Exterior hardware

### Viewer covers/viewer extensions

# 890311/890312

#### Viewer covers

- Covers viewer opening, preventing viewing through either end of the viewer
- Easily rotates out of the way to provide viewing access
- Easily slides over body of new or existing viewers during installation
- Available in two models sold separately
  - 890312 - Used for U696/696, U700/700, and U701/701 viewers
  - 890311 - Used for U698/698 viewers

#### Finishes

| BHMA | Description   | Substrate | Finish   |
|------|---------------|-----------|----------|
| 605* | Bright Brass  | Brass     | B3       |
| 606  | Satin Nickel  | Brass     | B15      |
| 622  | Matte Black   | Brass     | B-BLK    |
| 625  | Bright Chrome | Brass     | B26      |
| 626  | Satin Chrome  | Brass     | B26D     |
| 716  | Aged Bronze   | Brass     | 643e/716 |

\*Available on 698 only

# 890314/890313

#### Viewer extensions

- Each extension provides 3/8" of length to standard viewer.
- Easily threads onto new or existing viewers during installation.
- Adding one extension to a viewer adds 11/16" to the minimum and 9/16" to the maximum door thickness for that viewer
- Available in two models sold separately
  - 890314 - U696/696, U700/700, and U701/701 series viewers
  - 890313 - Used for U698/698 viewers

#### Finish

| BHMA | Description  | Substrate | Finish |
|------|--------------|-----------|--------|
| 626  | Satin Chrome | Brass     | B26D   |

## Exterior hardware

### Door knockers and mail slots

# 02-3125, 02-31251/02-31251U, 02-31252/02-31252U

#### Door knocker (models with and without viewers)

- 02-3125 Knocker only
- 02-31251 with 700 viewer, 02-31251U with U700 viewer, 02-31252 with 701 viewer, 02-31252U with U701 viewer
- 02-31251 and 02-31251U for door thickness  $\frac{7}{8}$ " –  $1\frac{9}{16}$ "
- 02-31252 and 02-31252U for door thickness  $1\frac{5}{8}$ " –  $2\frac{1}{8}$ "
- Bolts through door

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from forged brass         |
| Certifications     | Meets ANSI/BHMA 156.16, L23161 |

#### Dimensions

| Length             | Width | Projection        | Mounting hole center to center |
|--------------------|-------|-------------------|--------------------------------|
| $5\frac{15}{16}$ " | 3"    | $1\frac{1}{16}$ " | $3\frac{15}{16}$ "             |

#### Finishes

| BHMA | Description     | Substrate | Finish     |
|------|-----------------|-----------|------------|
| 605  | Bright Brass    | Brass     | B3         |
| 609* | Blackened Brass | Brass     | B5         |
| 619  | Satin Nickel    | Brass     | B15        |
| 622  | Matte Black     | Brass     | B-BLK      |
| 625  | Bright Chrome   | Brass     | B26        |
| 626  | Satin Chrome    | Brass     | B26D       |
| –    | Aged Bronze     | Brass     | B-643e/716 |

\*B5 knockers are not available with viewer. B3 is furnished with B4 (606) viewer, 716 is furnished with B10B viewer, B15 (619) is furnished with a 626 viewer. For other colors, consult factory.

## 620

#### Magazine size letter box plate with standard (open) back plate

- Spring-loaded front plate
- Through bolt mounting available, order separately 09-355 – finish.
- Packed with fasteners for wood applications

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from brass or aluminum    |
| Certifications     | Meets ANSI/BHMA 156.16, L26031 |

#### Dimensions

| Overall size                | Plate opening |
|-----------------------------|---------------|
| 13" W x $3\frac{9}{16}$ " H | 11" x 2" high |

#### Finishes

| BHMA | Description             | Substrate | Finish     |
|------|-------------------------|-----------|------------|
| 605  | Bright Brass            | Brass     | B3         |
| 609  | Blackened Brass         | Brass     | B5         |
| 619  | Satin Nickel            | Brass     | B15        |
| 622  | Matte Black             | Brass     | B-BLK      |
| 625  | Bright Chrome           | Brass     | B26        |
| 626  | Satin Chrome            | Brass     | B26D       |
| –    | Aged Bronze             | Brass     | B-643e/716 |
| 628  | Clear Aluminum Anodized | Aluminum  | PA28       |

For other colors, consult factory.

## 601

#### Sleeve for use with letter box plate

- For use on  $1\frac{3}{4}$ " hollow core doors
- Prevents items falling into door
- $\frac{1}{4}$ " Wide strengthening rib for added durability
- Can be stacked thicker doors

#### Specifications

|                    |                           |
|--------------------|---------------------------|
| Material substrate | Made from stainless steel |
|--------------------|---------------------------|

#### Dimensions

| Overall size   |
|--|
| $11\frac{7}{16}$ " W x $2\frac{11}{16}$ " H x $1\frac{3}{4}$ " D |



# Notes

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# Brackets, hooks and sockets

Ives offers hooks, handrail brackets, and sockets to handle a wide range of applications. These accessories provide the finishing touch in any job. Available in brass, aluminum, and zinc substrates and in multiple finishes. Choose from various hook styles that complete any office, resident or personal interior door for hanging coats and hats. Ives has a great selection of handrail brackets to hold various handrails.



# 059

## Hand rail bracket

- Large faceplate for secure attachment to wall
- Features solid construction for increased strength
- Packaged with fasteners for wood applications

### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from solid brass, cast aluminum, or zinc                    |
| Certifications     | Meets ANSI/BHMA 156.16, L13061 for brass and L33061 for aluminum |

### Dimensions

|                     |                   |
|---------------------|-------------------|
| <b>Bracket size</b> | 1 9/16" x 1 9/16" |
|---------------------|-------------------|

### Finishes - brass

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 609  | Blackened Brass   | Brass     | B5         |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 620  | Blackened Nickel  | Brass     | B15A       |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| -    | Aged Bronze       | Brass     | B-643e/716 |

### Finishes - aluminum

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 666  | Bright Brass        | Aluminum  | A3         |
| -    | Blackened Brass     | Aluminum  | A5         |
| 668  | Satin Bronze        | Aluminum  | A10        |
| 703  | Oil Rubbed Bronze   | Aluminum  | A10B       |
| 669  | Bright Nickel       | Aluminum  | A14        |
| 670  | Satin Nickel        | Aluminum  | A15        |
| 672  | Bright Chrome       | Aluminum  | A26        |
| 702  | Satin Chrome        | Aluminum  | A26D       |
| 673  | Aluminum Clear Coat | Aluminum  | A92        |
| -    | Aged Bronze         | Aluminum  | A-643e/716 |
| -    | Matte Black         | Aluminum  | A-BLK      |
| -    | White               | Aluminum  | A-W        |

### Finishes - zinc

| BHMA | Description  | Substrate | Finish |
|------|--------------|-----------|--------|
| -    | Satin Nickel | Zinc      | Z619E  |

For other colors, consult factory.



Brass substrate



Aluminum substrate

## Miscellaneous hardware

### Brackets, hooks and sockets

# 59

#### Hand rail bracket

- Large faceplate for secure attachment to wall
- Features solid construction for increased strength
- Packaged with fasteners for wood applications

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass or cast aluminum                            |
| Certifications     | Meets ANSI/BHMA 156.16, L13061 for brass and L33061 for aluminum |

#### Dimensions

| Aluminum base  | Brass base  | Base to center of rail          |
|--|---|---------------------------------|
| 2 <sup>13</sup> / <sub>16</sub> " H x 1 <sup>7</sup> / <sub>16</sub> " W | 2 <sup>15</sup> / <sub>16</sub> " H x 1 <sup>1</sup> / <sub>2</sub> " W | 2 <sup>3</sup> / <sub>4</sub> " |

#### Finishes - brass

| BHMA | Description     | Substrate | Finish     |
|------|-----------------|-----------|------------|
| 605  | Bright Brass    | Brass     | B3         |
| 609  | Blackened Brass | Brass     | B5         |
| 619  | Satin Nickel    | Brass     | B15        |
| 625  | Bright Chrome   | Brass     | B26        |
| 626  | Satin Chrome    | Brass     | B26D       |
| –    | Aged Bronze     | Brass     | B-643e/716 |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 666  | Bright Brass        | Aluminum  | A3         |
| –    | Blackened Brass     | Aluminum  | A5         |
| 703  | Oil Rubbed Bronze   | Aluminum  | A10B       |
| 669  | Bright Nickel       | Aluminum  | A14        |
| 670  | Satin Nickel        | Aluminum  | A15        |
| 673  | Aluminum Clear Coat | Aluminum  | A92        |
| –    | Aged Bronze         | Aluminum  | A-643e/716 |

For other colors, consult factory.



Brass substrate



Aluminum substrate

# 159

#### Hand rail bracket

- For use on commercial applications
- Exceeds OSHA and BHMA strength test requirements
- Packed with fasteners for masonry and wood applications

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from cast aluminum        |
| Certifications     | Meets ANSI/BHMA 156.16, L33081 |

#### Dimensions

| Base diameter                   | Base to center of rail          |
|---------------------------------|---------------------------------|
| 3 <sup>1</sup> / <sub>8</sub> " | 3 <sup>1</sup> / <sub>8</sub> " |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright brass        | Aluminum  | US3AL  |
| 673  | Aluminum clear coat | Aluminum  | US27   |

For other colors, consult factory.



## Miscellaneous hardware

### Brackets, hooks and sockets

# 405

#### Coat and hat hook

- Wide body design is ideal for public buildings, schools, dormitories, etc., where hook must withstand unusual stress and strain

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from cast aluminum        |
| Certifications     | Meets ANSI/BHMA 156.16, L33113 |

#### Dimensions

|                |                   |
|----------------|-------------------|
| <b>Base</b>    | <b>Projection</b> |
| 1½" H x 7⁄8" W | 2½"               |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| 667  | Satin Brass         | Aluminum  | A4     |
| –    | Blackened Brass     | Aluminum  | A5     |
| 668  | Satin Bronze        | Aluminum  | A10    |
| 669  | Bright Nickel       | Aluminum  | A14    |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |
| 703  | Oil Rubbed Bronze   | Aluminum  | A10B   |

For other colors, consult factory.



# 571

#### Coat and hat hook

- All-purpose hook in traditional design
- Packaged with fasteners for wood applications

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass and cast aluminum                           |
| Certifications     | Meets ANSI/BHMA 156.16, L13113 for brass and L33113 for aluminum |

#### Dimensions

|                  |                   |
|------------------|-------------------|
| <b>Base</b>      | <b>Projection</b> |
| 1¾" H x 1³⁄₁₆" W | 3"                |

#### Finishes - brass

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 609  | Blackened Brass   | Brass     | B5         |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| –    | Aged Bronze       | Brass     | B-643e/716 |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 666  | Bright Brass        | Aluminum  | A3         |
| –    | Blackened Brass     | Aluminum  | A5         |
| 668  | Satin Bronze        | Aluminum  | A10        |
| 669  | Bright Nickel       | Aluminum  | A14        |
| 670  | Satin Nickel        | Aluminum  | A15        |
| 672  | Bright Chrome       | Aluminum  | A26        |
| 673  | Aluminum Clear Coat | Aluminum  | A92        |
| 702  | Satin Chrome        | Aluminum  | A26D       |
| –    | Aged Bronze         | Aluminum  | A-643e/716 |
| –    | Matte Black         | Aluminum  | A-BLK      |
| –    | White               | Aluminum  | A-W        |

#### Finish - zinc

| BHMA | Description  | Substrate | Finish |
|------|--------------|-----------|--------|
| –    | Satin Nickel | Zinc      | Z619E  |

For other colors, consult factory.



Brass substrate



Aluminum substrate

## Miscellaneous hardware

### Brackets, hooks and sockets

# 572

#### Coat and hat hook

- All-purpose hook in traditional design
- Packaged with fasteners for wood applications

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass and cast aluminum                           |
| Certifications     | Meets ANSI/BHMA 156.16, L13113 for brass and L33113 for aluminum |

#### Dimensions

| Base                | Projection |
|---------------------|------------|
| 1 1/2" H x 1 1/4" W | 3 1/8"     |

#### Finishes - brass

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | B3     |
| 606  | Satin Brass       | Brass     | B4     |
| 609  | Blackened Brass   | Brass     | B5     |
| 612  | Satin Bronze      | Brass     | B10    |
| 613  | Oil Rubbed Bronze | Brass     | B10B   |
| 619  | Satin Nickel      | Brass     | B15    |
| 625  | Bright Chrome     | Brass     | B26    |
| 626  | Satin Chrome      | Brass     | B26D   |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| -    | Blackened Brass     | Aluminum  | A5     |
| 668  | Satin Bronze        | Aluminum  | A10    |
| 703  | Oil Rubbed Bronze   | Aluminum  | A10B   |
| 669  | Bright Nickel       | Aluminum  | A14    |
| 670  | Satin Nickel        | Aluminum  | A15    |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |

For other colors, consult factory.

# 574

#### Coat and hat hook

- Decorative design is ideal for commercial and residential installations
- Packaged with fasteners for wood applications

#### Specifications

|                    |  |
|--------------------|--|
| Material substrate | Made from cast brass and cast aluminum                           |
| Certifications     | Meets ANSI/BHMA 156.16, L13113 for brass and L33113 for aluminum |

#### Dimensions

| Base                | Projection | Brass overall height | Aluminum overall height |
|---------------------|------------|----------------------|-------------------------|
| 1 5/8" H x 1 3/4" W | 3 3/4"     | 4 3/4"               | 5"                      |

#### Finishes - brass

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | B3     |
| 606  | Satin Brass       | Brass     | B4     |
| 612  | Satin Bronze      | Brass     | B10    |
| 613  | Oil Rubbed Bronze | Brass     | B10B   |
| 619  | Satin Nickel      | Brass     | B15    |
| 625  | Bright Chrome     | Brass     | B26    |
| 626  | Satin Chrome      | Brass     | B26D   |

#### Finishes - Aluminum

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| 627  | Bright Chrome       | Aluminum  | A26    |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |

For other colors, consult factory.



Brass substrate



Aluminum substrate



## Miscellaneous hardware

### Brackets, hooks and sockets

# 575

#### Coat and hat hook

- Especially designed to accommodate large hats
- Packaged with fasteners for wood applications

#### Specifications

|                    |                                |
|--------------------|--------------------------------|
| Material substrate | Made from cast aluminum        |
| Certifications     | Meets ANSI/BHMA 156.16, L33121 |

#### Dimensions

| Base                | Projection | Overall height |
|---------------------|------------|----------------|
| 2 1/4" H x 1 3/8" W | 3 5/8"     | 5 3/4"         |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| 703  | Oil Rubbed Bronze   | Aluminum  | A10B   |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |

For other colors, consult factory.



# 580

#### Ceiling hook

- Ideal for use in closets, attached to underside of shelves, or in storage lockers
- Packaged with fasteners for wood applications

#### Specifications

|                    |                         |
|--------------------|-------------------------|
| Material substrate | Made from cast aluminum |
|--------------------|-------------------------|

#### Dimensions

| Base            | Projection |
|-----------------|------------|
| 1" H x 1 7/8" W | 2 1/4"     |

#### Finishes - Aluminum

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 666  | Bright brass        | Aluminum  | A3         |
| -    | Blackened brass     | Aluminum  | A5         |
| 668  | Satin bronze        | Aluminum  | A10        |
| 669  | Bright nickel       | Aluminum  | A14        |
| 670  | Satin nickel        | Aluminum  | A15        |
| 672  | Bright chrome       | Aluminum  | A26        |
| 702  | Satin chrome        | Aluminum  | A26D       |
| 673  | Aluminum clear coat | Aluminum  | A92        |
| -    | Aged bronze         | Aluminum  | A-643e/716 |
| -    | Matte black         | Aluminum  | A-BLK      |

For other colors, consult factory.



## Miscellaneous hardware

### Brackets, hooks and sockets

# 581

## Wardrobe hook

- Compact hook is perfect where space is limited, such as behind doors where low profile is needed
- Packaged with fasteners for wood applications

### Specifications

Material substrate Made from cast brass, cast aluminum or zinc

### Dimensions

| Brass/aluminum base | Zinc base         | Brass projection | Aluminum/zinc projection |
|---------------------|-------------------|------------------|--------------------------|
| 1 1/4" H x 1 1/4" W | 1 1/2" H x 3/4" W | 1 1/16"          | 1 5/8"                   |



# 582

## Double wardrobe hook

- Compact double hook is perfect where space is limited, such as behind doors where low profile is needed
- Packaged with fasteners for wood applications

### Specifications

Material substrate Made from cast brass, cast aluminum or zinc

### Dimensions

| Brass base          | Aluminum base         | Zinc base         | Brass projection | Aluminum/zinc projection |
|---------------------|-----------------------|-------------------|------------------|--------------------------|
| 1 1/8" H x 1 1/4" W | 1 1/16" H x 1 3/16" W | 1 5/8" H x 7/8" W | 1"               | 1 3/32"                  |



### 581 and 582 Finishes - brass

| BHMA | Description       | Substrate | Finish     |
|------|-------------------|-----------|------------|
| 605  | Bright Brass      | Brass     | B3         |
| 606  | Satin Brass       | Brass     | B4         |
| 609  | Blackened Brass   | Brass     | B5         |
| 612* | Satin Bronze      | Brass     | B10        |
| 613  | Oil Rubbed Bronze | Brass     | B10B       |
| 619  | Satin Nickel      | Brass     | B15        |
| 622  | Matte Black       | Brass     | B-BLK      |
| 625  | Bright Chrome     | Brass     | B26        |
| 626  | Satin Chrome      | Brass     | B26D       |
| -    | Aged Bronze       | Brass     | B-643e/716 |

### 581 and 582 Finishes - aluminum

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 666  | Bright Brass        | Aluminum  | A3         |
| -    | Blackened Brass     | Aluminum  | A5         |
| 668* | Satin Bronze        | Aluminum  | A10        |
| 669  | Bright Nickel       | Aluminum  | A14        |
| 670  | Satin Nickel        | Aluminum  | A15        |
| 672  | Bright Chrome       | Aluminum  | A26        |
| 702  | Satin Chrome        | Aluminum  | A26D       |
| 673  | Aluminum Clear Coat | Aluminum  | A92        |
| -    | Aged Bronze         | Aluminum  | A-643e/716 |
| -    | Matte Black         | Aluminum  | A-BLK      |
| -    | White               | Aluminum  | A-W        |

### 581 and 582 Finishes - zinc

| BHMA | Description  | Substrate | Finish |
|------|--------------|-----------|--------|
| -    | Satin Nickel | Zinc      | Z619E  |

\*Not available on 581. For other colors, consult factory.

# SP585

## Closet pole sockets

- Flange design prevents accidental knock out of pole
- Accommodates pole or pipe with outside diameter of 1 3/8"
- Packed in pairs
- Packaged with fasteners for wood applications



### Specifications

Material substrate Made from wrought steel

#### Finish

| BHMA | Description  | Substrate | Finish |
|------|--------------|-----------|--------|
| 632  | Bright brass | Steel     | F3     |

# SP586

## Closet pole sockets

- Single screw mounting
- Accommodates pole or pipe with outside diameter of 1 3/8"
- Packed in pairs
- Packaged with fasteners for wood applications



### Specifications

Material substrate Made from a heavy duty plastic for long life and extra strength

#### Finish

| BHMA | Description | Substrate | Finish |
|------|-------------|-----------|--------|
| -*   | White       | Plastic   | P      |

\*Only available in Slim-Pak of 25.

## Miscellaneous hardware

## Decorative hooks

## 506

## Plymouth coat and hat hook

- Decorative design is ideal for all installations
- Design complements Plymouth Series pulls and levers
- Surface mount
- Packaged with fasteners for wood/drywall applications

## Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA 156.16 |

## Dimensions

| Base            | Projection | Overall height | Overall width |
|-----------------|------------|----------------|---------------|
| 2" H x 1 1/2" W | 2"         | 5 1/4"         | 4 3/4"        |



## Finish availability

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 622  | Matte Black       | Brass     | US19   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

## 507

## Rhodes coat and hat hook

- Decorative design is ideal for all installations
- Design complements Rhodes Series pulls and levers
- Surface mount
- Packaged with fasteners for wood applications

## Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA 156.16 |

## Dimensions

| Base               | Projection | Overall height |
|--------------------|------------|----------------|
| 2 5/16" H x 1/2" W | 3 1/2"     | 4 1/2"         |

## Finish availability

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 622  | Matte Black       | Brass     | US19   |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.



## 507B

## Rhodes wardrobe hook

- Decorative design is ideal for all installations
- Design complements Rhodes Series pulls and levers
- Surface mount
- Packaged with fasteners for wood applications

## Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA 156.16 |

## Dimensions

| Base               | Projection |
|--------------------|------------|
| 2 5/16" H x 1/2" W | 1 15/16"   |

## Finish availability

| BHMA | Description   | Substrate | Finish |
|------|---------------|-----------|--------|
| 605  | Bright Brass  | Brass     | US3    |
| 619  | Satin Nickel  | Brass     | US15   |
| 622  | Matte Black   | Brass     | US19   |
| 625  | Bright Chrome | Brass     | US26   |
| 626  | Satin Chrome  | Brass     | US26D  |

For other colors, consult factory.



## Miscellaneous hardware

### Decorative hooks

# 508

## Greenwich coat and hat hook

- Decorative design is ideal for all installations
- Design complements Greenwich Series pulls and levers
- Surface mount
- Packaged with fasteners for wood/drywall applications

### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA 156.16 |

### Dimensions

|                 |                   |                       |
|-----------------|-------------------|-----------------------|
| <b>Base</b>     | <b>Projection</b> | <b>Overall height</b> |
| 2" H x 1 1/2" W | 3 5/16"           | 5 1/2"                |

### Finish availability

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.



# 508C

## Greenwich coat and hat hook

- Concealed mount
- Decorative design is ideal for all installations
- Design complements Greenwich Series pulls and levers
- Concealed mount - packaged with set screw
- Packaged with fasteners for wood/drywall applications

### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA 156.16 |

### Dimensions

|                 |                   |                       |
|-----------------|-------------------|-----------------------|
| <b>Base</b>     | <b>Projection</b> | <b>Overall height</b> |
| 2" H x 1 1/2" W | 3 11/16"          | 5 1/2"                |

### Finish availability

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 622  | Matte Black       | Brass     | US19   |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.



## Miscellaneous hardware

## Decorative hooks

## 509C

## Tubular coat and hat hook

- Concealed mount
- Decorative design is ideal for all installations
- Design complements Tubular Series pulls and levers
- Concealed mount - packaged with set screw and Allen wrench
- Packaged with fasteners for wood/drywall applications



## Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA 156.16 |

## Dimensions

| Base                                       | Projection                      | Overall height                    |
|--|---------------------------------|-----------------------------------|
| 1 <sup>15</sup> / <sub>16</sub> " diameter | 3 <sup>1</sup> / <sub>4</sub> " | 5 <sup>11</sup> / <sub>16</sub> " |

## Finish availability

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

## 510C

## Latitude coat and hat hook

- Concealed mount
- Decorative design is ideal for all installations
- Design complements Latitude Series pulls and levers
- Concealed mount - packaged with set screw and Allen wrench
- Packaged with fasteners for wood/drywall applications



## Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA 156.16 |

## Dimensions

| Base                                       | Projection                      | Overall height                    |
|--|---------------------------------|-----------------------------------|
| 1 <sup>15</sup> / <sub>16</sub> " diameter | 3 <sup>3</sup> / <sub>4</sub> " | 5 <sup>11</sup> / <sub>16</sub> " |

## Finish availability

| BHMA | Description   | Substrate | Finish |
|------|---------------|-----------|--------|
| 605  | Bright Brass  | Brass     | US3    |
| 619  | Satin Nickel  | Brass     | US15   |
| 622  | Matte Black   | Brass     | US19   |
| 625  | Bright Chrome | Brass     | US26   |
| 626  | Satin Chrome  | Brass     | US26D  |

For other colors, consult factory.

## Miscellaneous hardware

### Decorative hooks

# 510BC

#### Latitude wardrobe hook

- Concealed mount
- Decorative design is ideal for all installations
- Design complements Latitude Series pulls and levers
- Concealed mount - packaged with set screw and Allen wrench
- Packaged with fasteners for wood/drywall applications



#### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA 156.16 |

#### Dimensions

|  |                                 |
|--|---------------------------------|
| <b>Base</b>                                | <b>Projection</b>               |
| 1 <sup>15</sup> / <sub>16</sub> " diameter | 3 <sup>1</sup> / <sub>4</sub> " |

#### Finish availability

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 622  | Matte Black       | Brass     | BLK    |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

# 511BC

#### Century wardrobe hook

- Concealed mount
- Decorative design is ideal for all installations
- Design complements Century Series Pulls and Levers
- Concealed mount
- Pre-installed fastener for wood applications



#### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from brass        |
| Certifications     | Meets ANSI/BHMA 156.16 |

#### Dimensions

|               |                   |
|---------------|-------------------|
| <b>Base</b>   | <b>Projection</b> |
| 1" H x 3/4" W | 1 1/2"            |

#### Finish availability

| BHMA | Description       | Substrate | Finish |
|------|-------------------|-----------|--------|
| 605  | Bright Brass      | Brass     | US3    |
| 613  | Oil Rubbed Bronze | Brass     | US10B  |
| 619  | Satin Nickel      | Brass     | US15   |
| 625  | Bright Chrome     | Brass     | US26   |
| 626  | Satin Chrome      | Brass     | US26D  |

For other colors, consult factory.

## Miscellaneous hardware

## Decorative hooks

## 543

## Camelot coat and hat hook

- Decorative design is ideal for all installations
- Design complements Camelot Series pulls and levers
- Surface mount
- Packaged with fasteners for wood applications

## Specifications

|                    |                           |
|--------------------|---------------------------|
| Material substrate | Made from stainless steel |
| Certifications     | Meets ANSI/BHMA 156.16    |

## Dimensions

| Base                                      | Projection | Overall height |
|---|------------|----------------|
| 2" H x 1 <sup>3</sup> / <sub>16</sub> " W | 2 1/2"     | 5 1/2"         |

## Finish availability

| BHMA | Description      | Substrate       | Finish |
|------|------------------|-----------------|--------|
| 629  | Bright Stainless | Stainless Steel | US32   |
| 630  | Satin Stainless  | Stainless Steel | US32D  |

For other colors, consult factory.



## 543B

## Camelot wardrobe hook

- Decorative design is ideal for all installations
- Design complements Camelot Series pulls and levers
- Surface mount
- Packaged with fasteners for wood applications

## Specifications

|                    |                           |
|--------------------|---------------------------|
| Material substrate | Made from stainless steel |
| Certifications     | Meets ANSI/BHMA 156.16    |

## Dimensions

| Base                                      | Projection |
|---|------------|
| 2" H x 1 <sup>3</sup> / <sub>16</sub> " W | 1 1/16"    |

## Finish availability

| BHMA | Description      | Substrate       | Finish |
|------|------------------|-----------------|--------|
| 629  | Bright Stainless | Stainless Steel | US32   |
| 630  | Satin Stainless  | Stainless Steel | US32D  |

For other colors, consult factory.



## Miscellaneous hardware

### Decorative hooks

# 554

#### Century coat and hat hook

- Decorative design is ideal for all installations
- Design complements Century Series pulls and levers
- Surface mount
- Packaged with fasteners for wood/drywall applications



#### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from cast brass   |
| Certifications     | Meets ANSI/BHMA 156.16 |

#### Dimensions

|             |                   |                       |
|-------------|-------------------|-----------------------|
| <b>Base</b> | <b>Projection</b> | <b>Overall height</b> |
| 2" diameter | 4 1/4"            | 4 7/8"                |

#### Finishes

| BHMA | Description   | Substrate | Finish |
|------|---------------|-----------|--------|
| 605  | Bright Brass  | Brass     | US3    |
| 625  | Bright Chrome | Brass     | US26   |
| 626  | Satin Chrome  | Brass     | US26D  |

For other colors, consult factory.

# 558B

#### Orbit wardrobe hook

- Decorative design is ideal for all installations
- Design complements Orbit Series pulls and levers
- Concealed mount - packaged with set screw
- Packaged with fasteners for wood/drywall applications



#### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from cast brass   |
| Certifications     | Meets ANSI/BHMA 156.16 |

#### Dimensions

|                   |                   |
|-------------------|-------------------|
| <b>Base</b>       | <b>Projection</b> |
| 3 5/8" H x 3/4" W | 2 7/8"            |

#### Finish availability

| BHMA | Description   | Substrate | Finish |
|------|---------------|-----------|--------|
| 625  | Bright Chrome | Brass     | US26   |
| 626  | Satin Chrome  | Brass     | US26D  |

For other colors, consult factory.

# 559B

#### Tubular wardrobe hook

- Decorative design is ideal for all installations
- Design complements Tubular Series pulls and levers
- Surface mount
- Packaged with fasteners for wood/drywall applications



#### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from cast brass   |
| Certifications     | Meets ANSI/BHMA 156.16 |

#### Dimensions

|             |                   |
|-------------|-------------------|
| <b>Base</b> | <b>Projection</b> |
| 2" diameter | 1 5/16"           |

#### Finish availability

| BHMA | Description   | Substrate | Finish |
|------|---------------|-----------|--------|
| 625  | Bright Chrome | Brass     | US26   |
| 626  | Satin Chrome  | Brass     | US26D  |

For other colors, consult factory.

# Window hardware

Ives offers a variety of window hardware lifts, locks, casement fasteners, and adjusters designed to secure windows and prevent rattle. Choose from a wide array of finishes and designs for your unique application.



## Miscellaneous hardware

### Window hardware

# 07

#### Window lock

- Designed low to the sash for superior strength and greater resistance to breakage
- Vertical and horizontal camming action for snug, non-rattling fit
- Heavy gauge springs provide long-wearing action
- Packaged with fasteners for wood applications



#### Specifications

|                    |                                  |
|--------------------|----------------------------------|
| Material substrate | Made from cast brass or aluminum |
| Certifications     | Meets ANSI/BHMA 156.16, L33121   |

#### Dimensions

|  |  |
|--|--|
| <b>Base</b>                              | <b>Strike</b>                          |
| $1\frac{5}{16}'' \times 2\frac{9}{16}''$ | $\frac{5}{8}'' \times 2\frac{9}{16}''$ |

#### Finishes - brass

| BHMA | Description   | Substrate | Finish     |
|------|---------------|-----------|------------|
| 605  | Bright brass  | Brass     | B3         |
| 619  | Satin nickel  | Brass     | B15        |
| 622  | Matte black   | Brass     | B-BLK      |
| 625  | Bright chrome | Brass     | B26        |
| 626  | Satin chrome  | Brass     | B26D       |
| –    | Aged bronze   | Brass     | B-643e/716 |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 666  | Bright brass        | Aluminum  | A3         |
| –*   | Blackened brass     | Aluminum  | A5         |
| 703  | Oil rubbed bronze   | Aluminum  | A10B       |
| 669  | Bright nickel       | Aluminum  | A14        |
| 670  | Satin nickel        | Aluminum  | A15        |
| 672  | Bright chrome       | Aluminum  | A26        |
| 702  | Satin chrome        | Aluminum  | A26D       |
| 673  | Aluminum clear coat | Aluminum  | A92        |
| –    | Aged bronze         | Aluminum  | A-643e/716 |
| –    | Matte black         | Aluminum  | A-BLK      |
| –    | White               | Aluminum  | A-W        |

\*Only available in Slim-Pak of 25. For other colors, consult factory.

# 90

#### Side window lock

- May be used singularly for small windows or in pairs for large windows
- Cam action eliminates rattles and holds window firmly in desired position
- Packaged with fasteners for wood applications



#### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from aluminum     |
| Certifications     | Meets ANSI/BHMA 156.16 |

#### Dimensions

|  |
|--|
| $1\frac{3}{4}'' \text{ H} \times 1\frac{1}{8}'' \text{ W}$ |
|--|

#### Finish - Aluminum

| BHMA | Description  | Substrate | Finish |
|------|--------------|-----------|--------|
| 666  | Bright brass | Aluminum  | A3     |

For other colors, consult factory.

## Miscellaneous hardware

## Window hardware

## 026

## Bar window lift

- Facilitates opening of window in a safe manner
- Can also be used as a drawer or utility pull
- Packaged with fasteners for wood applications

## Specifications

|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from solid brass or aluminum |
| Certifications     | Meets ANSI/BHMA 156.16            |

## Dimensions

|               |                   |
|---------------|-------------------|
| <b>Base</b>   | <b>Projection</b> |
| 1 1/8" H x 4" | 1 1/16"           |

## Finishes - brass

| BHMA | Description     | Substrate | Finish     |
|------|-----------------|-----------|------------|
| 605  | Bright Brass    | Brass     | B3         |
| 609  | Blackened Brass | Brass     | B5         |
| 619  | Satin Nickel    | Brass     | B15        |
| 622  | Matte Black     | Brass     | B-BLK      |
| 625  | Bright Chrome   | Brass     | B26        |
| 626  | Satin Chrome    | Brass     | B26D       |
| -    | Aged Bronze     | Brass     | B-643e/716 |

## Finishes - aluminum

| BHMA | Description         | Substrate | Finish     |
|------|---------------------|-----------|------------|
| 666  | Bright Brass        | Aluminum  | A3         |
| -    | Blackened Brass     | Aluminum  | A5         |
| 669  | Bright Nickel       | Aluminum  | A14        |
| 670  | Satin Nickel        | Aluminum  | A15        |
| 672  | Bright Chrome       | Aluminum  | A26        |
| 702  | Satin Chrome        | Aluminum  | A26D       |
| 673  | Aluminum Clear Coat | Aluminum  | A92        |
| -    | Aged Bronze         | Aluminum  | A-643e/716 |
| -    | Matte Black         | Aluminum  | A-BLK      |
| -    | White               | Aluminum  | A-W        |

For other colors, consult factory.



## 066

## Casement fastener

- For use on windows to provide weather-tight fastening and security
- Also ideal for securing louvered doors and small doors
- Packaged with three strikes: Surface Strike (SS), Rim Strike (RS), Mortise Strike (MS)
- Packaged with fasteners for wood applications

## Specifications

|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from solid brass or aluminum |
| Certifications     | Meets ANSI/BHMA 156.16            |

## Dimensions

|                 |                   |
|-----------------|-------------------|
| <b>Base</b>     | <b>Projection</b> |
| 1 5/8" H x 7/8" | 1 3/8"            |

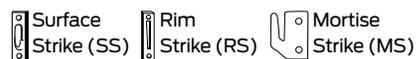
## Finishes - Brass

| BHMA | Description     | Substrate | Finish |
|------|-----------------|-----------|--------|
| 605  | Bright Brass    | Brass     | B3     |
| 609  | Blackened Brass | Brass     | B5     |
| 619  | Satin Nickel    | Brass     | B15    |
| 625  | Bright Chrome   | Brass     | B26    |
| 626  | Satin Chrome    | Brass     | B26D   |

## Finishes - Aluminum

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright brass        | Aluminum  | A3     |
| -    | Blackened brass     | Aluminum  | A5     |
| 703  | Oil rubbed bronze   | Aluminum  | A10B   |
| 669  | Bright nickel       | Aluminum  | A14    |
| 673  | Aluminum clear coat | Aluminum  | A92    |

For other colors, consult factory.



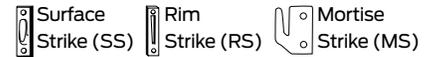
## Miscellaneous hardware

### Window hardware

# 66

#### Casement fastener

- For use on windows to provide weather-tight fastening and security
- Also ideal for securing louvered doors and small doors
- Packaged with three strikes: Surface Strike (SS), Rim Strike (RS), or Mortise Strike (MS)
- Packaged with fasteners for wood applications



#### Specifications

|                    |                                   |
|--------------------|-----------------------------------|
| Material substrate | Made from solid brass or aluminum |
| Certifications     | Meets ANSI/BHMA 156.16            |

#### Dimensions

| Base                | Projection |
|---------------------|------------|
| 2 1/16" H x 1 1/16" | 1 7/8"     |

#### Finishes - brass

| BHMA | Description     | Substrate | Finish     |
|------|-----------------|-----------|------------|
| 605  | Bright Brass    | Brass     | B3         |
| 609  | Blackened Brass | Brass     | B5         |
| 619  | Satin Nickel    | Brass     | B15        |
| 625  | Bright Chrome   | Brass     | B26        |
| 626  | Satin Chrome    | Brass     | B26D       |
| -    | Aged Bronze     | Brass     | B-643e/716 |

#### Finishes - aluminum

| BHMA | Description         | Substrate | Finish |
|------|---------------------|-----------|--------|
| 666  | Bright Brass        | Aluminum  | A3     |
| -    | Blackened Brass     | Aluminum  | A5     |
| 669  | Bright Nickel       | Aluminum  | A14    |
| 673  | Aluminum Clear Coat | Aluminum  | A92    |

For other colors, consult factory.

# 71

#### Casement adjuster

- Securely holds casement window in any position
- Can also be used to hold cabinet lids and drafting table tops in various positions
- Available in 10" and 12" lengths
- Packaged with fasteners for wood applications



#### Specifications

|                    |                        |
|--------------------|------------------------|
| Material substrate | Made from solid brass  |
| Certifications     | Meets ANSI/BHMA 156.16 |

#### Dimensions

| Tube        | Projection | Sash plate   | Sill plate           |
|-------------|------------|--|----------------------|
| 3/8" x 5/8" | 1"         | <ul style="list-style-type: none"> <li>Brass: 1 5/8" high x 5/8" wide</li> <li>Steel: 2 x 5/8" wide</li> </ul> | 2 1/4" x 15/16" wide |

#### Finishes

| BHMA | Description   | Substrate | Finish |
|------|---------------|-----------|--------|
| 605  | Bright Brass  | Brass     | B3     |
| 625  | Bright Chrome | Brass     | B26    |

Introduction  
Table of contents  
Hinges and pivots  
Pulls, push bars and plates  
Flush bolts, strikes and coordinators  
Latches, catches and bolts  
Door stops, holders and silencers  
Exterior hardware  
Miscellaneous hardware

# Rescue hardware

Ives also offers rescue hardware designed to address a blocked doorway caused by an incapacitated patient, which is a problem often encountered by healthcare professionals. Used in conjunction with center hung pivots, rescue hardware allows a bi-directional door swing in emergency situations.



## Miscellaneous hardware

### Rescue hardware

Used in conjunction with center hung pivots, rescue hardware allows a bi-directional door swing in emergency situations. When a patient becomes trapped behind an inward swinging door, the center tong of the emergency stop depresses allowing the door to swing in the opposite direction without causing damage to the frame.

# 299AL / 299AB / 299AS, 299RB / 299RS

### Emergency stops and rescue strikes

- 299AL Emergency stop; 299AB Emergency stop assembly - offset, 299AS Emergency stop assembly - center
- 299RB Rescue strike - offset, 299RS Rescue strike - center
- Center or offset mounting styles
- 7 model fits 5 3/4" frame and -8 model fits 6 3/4" frames
- Fits 1 3/4" door thickness (custom sizes available, consult factory)
- Must be used with center hung pivots such as Ives models: 7253, 7255, 7255J, 7256, and 7259
- Cannot be used with deadbolt applications
- Cannot be used with mortise locks that have deadlocking auxiliary latches
- Packed with 8-32 x 1/2" fasteners for hollow metal applications

### Specifications

|                    |                           |
|--------------------|---------------------------|
| Material substrate | Made from stainless steel |
| Certifications     | Meets ANSI/BHMA A1882     |

### Dimensions

| 7 model                | 8 model                | Emergency stop only |
|------------------------|------------------------|---------------------|
| 6 3/4" x 2 3/4"        | 7 3/4" x 2 3/4"        | 1 10/16" x 4 1/2"   |
| Used with 5 3/4" frame | Used with 6 3/4" frame |                     |

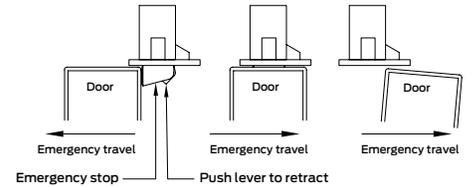
### Finish

| BHMA | Description     | Substrate | Finish |
|------|-----------------|-----------|--------|
| 630  | Stainless steel | Stainless | 630    |

For other colors, consult factory.



### How it works



### Things to consider when ordering

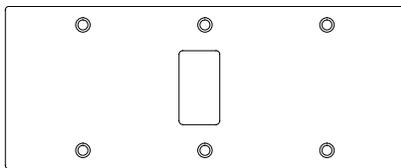
Rescue hardware must consist of two components: a stop and a strike. The components can be ordered as two separate items (with one component mounted above the other on the frame), or as one assembly with integrated components.

### Separate components

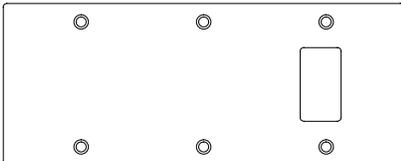
#### Rescue strike only

(available in -7 or -8 model)

#### Center 299RS

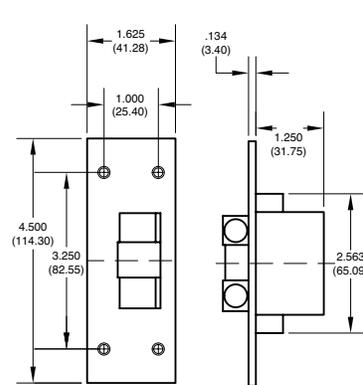


#### Offset 299RB



#### Emergency stop only

299AL (required to complete assembly)



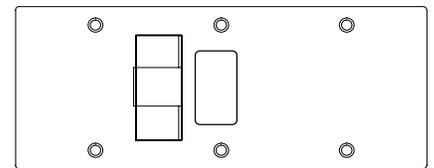
Note: Refer to templates for dimensional details.

### Integrated components

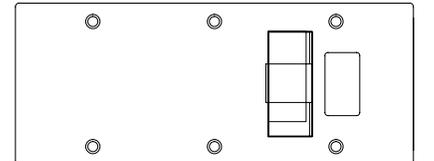
#### Emergency stop assemblies

(available in -7 or -8 model)

#### Center 299AS



#### Offset 299AB



# Notes

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Introduction

Table  
of contents

Hinges  
and pivots

Pulls, push bars  
and plates

Flush bolts, strikes  
and coordinators

Latches, catches  
and bolts

Door stops, holders  
and silencers

Exterior  
hardware

Miscellaneous  
hardware

## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions.

For more, visit [www.allegion.com](http://www.allegion.com)

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN