280X
**Dust Proof Strike**
Certification: Meets ANSI A156.16 for L04021
Face Plate: 1-7/16” x 2-29/32” x 1/8” depth (37 mm x 74 mm x 3 mm)
Barrel Diameter: 1” (25 mm)
Barrel Depth: 2-3/16” (56 mm)
Plunger Diameter: 3/4” (19 mm)
Materials: Brass
Fasteners: Two (2) #8 x 1” FPHWS, two (2) plastic anchors, and spanner wrench
Notes: Packed unassembled with plate, strike, fasteners, and spanner wrench
      May be used with carpet or threshold application by omitting face plate
      Designed for use with the bottom bolt of a flushbolt set
      Spring loaded plunger returns to floor or threshold level anytime flushbolt is
      retracted, eliminating the need to clean out the bottom strike

281D
**Slide Flush Bolt**
Certification: Meets ANSI A156.16 for L04201
Faceplate: 3/4” x 6” (19 mm x 153 mm)
Bolt Diameter: 1/2” (13 mm)
Bolt Throw: 1” (25 mm)
Bolt Backset: 7/16” (11 mm)
Strike: 7/8” x 1-3/4” (22 mm x 45 mm)
Materials: Brass, bronze faceplate with steel components
Fasteners: Four (4) #6 x 3/4” FPHWS
Notes: Double action spring design provides automatic holding of bolt in projected or
       retracted position

282D
**Manual Flush Bolt**
Certification: Fits ANSI A115 door and frame prep
      Meets ANSI A156.16 for L14251
Face Plate: 1” x 6-3/4” (25 mm x 172 mm)
Bolt Head: 1/2” (13 mm) square
Bolt Throw: 3/4” (19 mm)
Standard Rod Length: 12” (305 mm) (center of face to corner of door)
Bolt Backset: 3/4” (19 mm)
Mortise Strike: 15/16” x 2-1/4” (24 mm x 57 mm)
Materials: Brass faceplate with steel components
Fasteners: Eight (8) #8 x 3/4” combo screws; eight (8) #8 x 1-1/2” combo screws
Notes: For use on hollow metal/fire-rated doors
      Non-handed
      Bolt head rods are adjustable
      Sold in increments of two
      3 hour fire rating for metal doors up to 4 feet wide by 10 feet tall
      282S strike plate bag and 282P bolt head available
      Specify 282R for optional rod length of 18” (457 mm), 25” (635 mm),
      or 30” (762 mm) (bolt head not included)
283D
Manual Flush Bolt
Certification: Meets ANSI A156.16 for L14261
Face Plate: 1” x 6-25/32” (25 mm x 172 mm)
Bolt Head: 1/2” (13 mm) square
Bolt Throw: 3/4” (19 mm)
Bolt Backset: 3/4” (19 mm)
Mortise Strike: 15/16” x 2-1/4” (24 mm x 57 mm)
Materials: Brass faceplate with steel components
Fasteners: Eight (8) #8 x 3/4” combo screws
Notes:
  • For use on wood composite/ fire-rated doors
  • Non-handed
  • Bolt head rods are adjustable
  • 1-1/2 hour fire rating for wood doors up to 4 feet wide by 10 feet tall

291D
Automatic Flush Bolt Set for Wood Covered Composite Doors
Certification: B, C, D, and E Label
ANSI A156.3 Type #25
Face Plate: 1” x 8-1/2” (25 mm x 216 mm)
Bolt Head: 1/2” (13 mm) square
Bolt Throw: 3/4” (19 mm)
Bolt Backset: 3/4” (19 mm)
Mortise Strike: 15/16” x 2-1/4” (24 mm x 57 mm)
Materials: Stainless steel and brass with steel components
Fasteners: Six (6) #8 x 1” combo screws, three (3) #10 x 1” SMS, and two (2) plastic anchors
Notes:
  • Thermal lock automatically locks inactive door under high fire/heat conditions
  • 280X dust proof strikes are recommended for use with these sets
  • Used in pairs at top and bottom of inactive door
  • Fully automatic – bolts retract when active door is opened; bolts extend when active door is closed
  • Non-handed
  • Bolt head rods are adjustable
  • 1-1/2 hour fire rating for wood doors up to 4 feet wide by 9 feet tall
**292D**

**Automatic Flush Bolt Set for Metal Doors**

Certification: A, B, C, D, and E Label  
ANSI A156.3 Type #25

Face Plate: 1” x 6-3/4” (27 mm x 172 mm)  
Bolt Head: 1/2” (13 mm) square  
Bolt Throw: 3/4” (19 mm)  
Bolt Backset: 3/4” (19 mm)  
Mortise Strike: 15/16” x 2-1/4” (24 mm x 57 mm)  
Materials: Stainless steel and brass with steel components  
Fasteners: Ten (10) #8 x 1” combo screws  

Notes:  
- Thermal lock automatically locks inactive door under high fire/heat conditions  
- 280X dust proof strikes are recommended for use with these sets  
- Used in pairs at top and bottom of inactive door  
- Fully automatic – bolts retract when active door is opened; bolts extend when active door is closed  
- Non-handed  
- Bolt head rods are adjustable  
- 3-hour fire rating for metal doors up to 4 feet wide by 9 feet tall

**293D**

**Constant-Latching Flush Bolt Set for Inactive Metal Doors**

Certification: A, B, C, D, and E Label  
ANSI A156.3 Type #27

Face Plate: 1” x 6-3/4” (25 mm x 172 mm)  
Bolt Head: 1/2” (13 mm) square  
Bolt Throw: 3/4” (19 mm)  
Bolt Backset: 3/4” (19 mm)  
T-Strike: 1-1/8” x 2-3/4” (28 mm x 70 mm)  
Materials: Stainless steel and brass with steel components  
Fasteners: Eight (8) #8 x 1” combo screws  

Notes:  
- Thermal lock automatically locks inactive door under high fire/heat conditions  
- 280X dust proof strikes are recommended for use with these sets  
- Consists of one 292S and one 293S for two point latching  
- Inactive door remains latched until the active door is opened, releasing the automatic bottom bolt - Top bolt can be manually released by pressing plunger - Inactive door will relatch automatically when closed  
- Non-handed  
- Bolt head rods are adjustable  
- 3-hour fire rating for metal doors up to 4 feet wide by 9 feet tall
294D
Constant-Latching Flush Bolt Set for Inactive Wood Covered Composite Doors

- Certification: B, C, D, and E Label
- ANSI A156.3 Type #27
- Face Plate: 1" x 8-1/2" (25 mm x 216 mm)
- Bolt Head: 1/2" (13 mm) square
- Bolt Throw: 3/4" (19 mm)
- Bolt Backset: 3/4" (19 mm)
- T-Strike: 1-1/8" x 2-3/4" (28 mm x 70 mm)
- Materials: Stainless steel and brass with steel components
- Fasteners: Four (4) #8 x 1" combo screws, three (3) #10 x 1" SMS, and two (2) plastic anchors
- Notes: Thermal lock automatically locks inactive door under high fire/heat conditions
- 280X dust proof strikes are recommended for use with these sets
- May be used on doors 4 ft. wide and 9 ft. high
- Consists of one 2915S and one 2945S for two point latching
- Inactive door remains latched until the active door is opened, releasing the automatic bottom bolt. Top bolt can be manually released. Inactive door will relatch automatically when closed.
- Non-handed
- Bolt head rods are adjustable
- 1-1/2 hour fire rating for wood doors up to 4 feet wide by 9 feet tall

295M
Automatic Flush Bolt Set with Fire Bolt for Metal Doors

- Certification: ANSI/BHMA A156.3 Type #25
- Face Plate: 1" x 6-3/4" (25 mm x 172 mm)
- Bolt Head: 1/2" (13 mm) square
- Bolt Throw: 3/4" (19 mm)
- Bolt Backset: 3/4" (19 mm)
- Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
- Materials: Stainless steel and brass with steel components
- Fasteners: Ten (10) #8 x 1" combo screws
- Notes: Fire bolt is activated at 230°F Fahrenheit projecting into active door locking leaves together. This combination eliminates the bottom flushbolt and eliminates floor preparation.
- Fully automatic – Bolt retracts when active door is opened. Bolt extends when active door is closed.
- Non-handed
- Bolt head rods are adjustable
- 3-hour fire rating for metal doors up to 4 feet wide by 9 feet tall
295W
Automatic Flush Bolt Set with Fire Bolt for Wood Doors
Certification: ANSI/BHMA 156.3 Type #25
Face Plate: 1" x 8-1/2" (25 mm x 216 mm)
Bolt Head: 1/2" (13 mm) square
Bolt Throw: 3/4" (19 mm)
Bolt Backset: 3/4" (19 mm)
Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
Materials: Stainless steel and brass with steel components
Fasteners: Six (6) #8 x 1" combo screws, three (3) #10 x 1" SMS, and two (2) plastic anchors
Notes:
• Fire bolt is activated at 230° Fahrenheit projecting into active door locking leaves together - This combination eliminates the bottom flushbolt and eliminates floor preparation
• Fully automatic – Bolt retracts when active door is opened - Bolt extends when active door is closed
• Non-handed
• Bolt head rods are adjustable
• 20-min fire rating for wood doors up to 4 feet wide by 9 feet tall

296W
Automatic Flush Bolt Set for Wood Doors
Certification: ANSI/BHMA 156.3 Type #25
Face Plate: 1-1/8" x 2-1/4" (29 mm x 57 mm)
Bolt Head: 1/2" (13 mm) diameter
Bolt Throw: 3/4" (19 mm)
Bolt Backset: 1-1/2" (39 mm)
Materials: Stainless steel and brass with steel components
Fasteners: Four (4) #8 x 1" SMS, two (2) #8 x 3/4" combo screws, two (2) plastic anchors
Strike: 1-1/8" x 2-1/4" (29 mm x 57 mm)
Notes:
• Non-handed
• ADA compliant
• Ideal for wood veneer doors
• Only two (2) 1-1/8" diameter holes needed for easier door preparation
• Opening active door retracts top and bottom bolts
• Smaller profile adds stability to the door
• 1-1/2 hour fire rating for doors up to 4 feet wide by 9 feet tall
297C
Carry Bar
Certification: ANSI/BHMA A156.3 Type #27
Projection: 25/32" (20 mm)
Base: 1-3/4" x 2-1/4" (45 mm x 57 mm)
Materials: Brass and stainless steel
Fasteners: Two (2) 12-24 x 3/4" PPHMS w/ hex nuts
Notes: • Used when it is possible for the inactive door to be opened before the active door
• For use on pairs of doors with astragals
• For use in conjunction with a 297D or 298D coordinator
• Prevents damage to the doors and other hardware
• Carry bar is not required when the inactive door is equipped with automatic or self-latching flushbolts
• Non-handed

297D
Coordinating Device
Certification: ANSI/BHMA A156.3 Type #21A
Base:
Maximum Astragal Overlap: 1-5/8" x 5/8" (41 mm x 16 mm)
Stop Height:
Materials: Steel
Finishes: Black Prime Coat
Fasteners: Seven (7) 12-24 x 1-1/4" TPHMS and four (4) #8 x 1" FPH combo screws
Notes: • For use with overall frame widths 60" (1524 mm), 72" (1829 mm), or 96" (2438 mm), consult Hager Customer Service if overall frame width is different than our stock sizes
• Coordinating device is 52" (1321 mm) long for all stock sizes 60" (1524 mm), 72" (1829 mm), or 96" (2438 mm)
• Filler bar is cut to length by factory to match customers overall frame width
• Non-handed
• Designed for use on pairs of doors when one door needs to close before the other
• 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
• Coordinator may not span the entire length of stop, 297F filler bar may be needed to fill up the extra space
• Compatible with flushbolts
• Optional mounting brackets 297M and 297N may be used when mounting other soffit applied hardware
• For use with active door widths 30" (762 mm) - 48" (1219 mm)
• If active and inactive doors are unequal in length, consult Hager Customer Service for proper sizing
• Do not use spring hinges with coordinating device
297F
Filler Bar
Stop Height: 5/8” (16 mm)
Material: Steel
Finishes: Black prime coat
Length: 18-5/8” (473 mm) (for jamb opening widths 52” – 72”);
42-5/8” (1082 mm) (for jamb opening widths 73” – 96”)
Notes: For use with 297D coordinator

297M
Mounting Bracket
Jamb Depth: 4-3/4” (121 mm)
Stop Height: 5/8” (16 mm)
Material: Aluminum
Finishes: Black prime coat
Fasteners: Four (4) 12-24 x 2” FPHMS and four (4) 1/4-20 x 1/2” FPHMS
Notes: For use with 297D coordinator
For soffit width 1-3/8” (35 mm) - 2-3/8” (60 mm)
- Allows soffit mounted hardware to be properly installed without
  damaging the coordinator, such as a parallel arm closer or a non-
  fire-rated surface vertical rod strike

297N
Mounting Bracket
Stop Height: 5/8” (16 mm)
Material: Aluminum
Finishes: Black prime coat
Fasteners: Four (4) 12-24 x 2” FPHMS and four (4) 1/4-20 x 1/2” FPHMS
Notes: For use with 297D coordinator
For soffit width 3” (76 mm) or greater
- Allows soffit mounted hardware to be properly installed without
  damaging the coordinator, such as a parallel arm closer or a non-
  fire-rated surface vertical rod strike

298D
Gravity Coordinator
Certification: ANSI A156.3 Type #21B
Base: 5-1/2” x 1-1/8” (140 mm x 29 mm)
Projection: 7” (178 mm)
Rail Height: 2-1/2” (64 mm) min
Materials: Cast brass with rubber roller and nylon cam roller
Fasteners: Two (2) #12 x 1” OPHWS, two (2) #6 x 3/4” FPHWS, two (2) #8 x
3/4” TPHWS, and one (1) #6 x 3/4” FPHWS
Notes: Non-handed
- Recommended for use with flush top metal doors only
- Use automatic flush bolts only
- Use 297D if using self latching flush bolts
- Gravity arm and door bracket are adjustable on the job for ease of
  installation
- For use on pairs of doors with astragal on active door up to 4’
  (1219 mm) wide or with astragal on inactive door up to 3’-4”
  (1016 mm) wide or with astragal on both doors up to 2’-10”
  (864 mm) wide
- Maximum astragal overlap - 7/8” (22 mm)
- Do not use spring hinges with coordinating device

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