FLUSH BOLTS & COORDINATING DEVICES

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
Finishes:	US3, US4, US9, US10, US10B, US15, US15A, US19, US26, US26D
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
Finishes:	US3, US4, US5, US10, US10B, US15, US15A, US19, US26, US26D
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
Finishes:	US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
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)

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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
Finishes:	US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
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
Finishes:	US3, US4, US10, US10B, US15, US32, US32D
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
Finishes:	US3, US4, US10, US10B, US15, US32, US32D
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
Finishes:	US3, US4, US10, US10B, US15, US32, US32D
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
Finishes:	US3, US4, US10, US10B, US15, US32, US32D
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 291S and one 294S 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 156.3 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
Finishes:	US3, US4, US10, US10B, US15, US32, US32D
Fasteners:	Ten (10) #8 x 1" combo screws
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
	• 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
Finishes:	US3, US4, US10, US10B, US15, US32, US32D
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
Finishes:	US3, US4, US10, US10B, US15, US32, US32D
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
Finishes:	USP, US3, US10, US10B, US15, US32, US32D
Fasteners:	Two (2) 12-24 x 3/4" PPHMS w/ sex 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

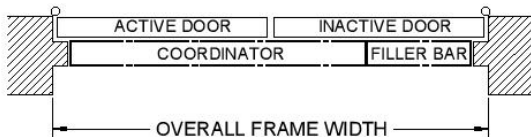|	
Certification:	ANSI/BHMA A156.3 Type #21A
Base:	1-5/8" x 5/8" (41 mm x 16 mm)
Maximum Astragal Overlap:	1" (25 mm)
Stop Height:	5/8" (16 mm)
Materials:	Steel
Finishes:	Black Prime Coat
Fasteners:	Seven (7) 12-24 x 1-1/4" TPHMS and four (4) #8 x 1" FPH combo screws

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

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ACTIVE DOOR	INACTIVE DOOR
COORDINATOR	FILLER BAR

OVERALL FRAME WIDTH

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
Finishes:	US3, US10, US10B, US26D
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