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# **EXPI-DOOR® Systems Inc.**

MEMBER OF THE BAY FAMILY OF COMPANIES

## **DB SERIES WARRANTY**

The DB Series door system by EXPI-DOOR® Systems Inc. carries a **two year warranty** for defective product or workmanship on door leaf and frame, provided it is not a result of negligence, caused by damage while in transit, improper installation, or other damage caused by second parties, The two years will commence from the date of original shipment from EXPI-DOOR®. Defective or damaged products must be returned to EXPI-DOOR® to receive credit or replacement unless otherwise instructed. If a product is not returned as required, no credit or replacement will be issued, except when special instructions are given for disposition of defective products or material.

See the following Tech Data pages for individual warranty information for each specific hardware item.

When returning product, documentation is required to identify the returned product with customer name, order number, or our invoice number, etc. A copy of the original packing slip is the best document to send. No credit or replacement can be issued if proper documentation cannot be completed.

EXPI-DOOR® will issue an invoice for the price of the replacement component or will replace the component at no charge, depending upon the agreement between EXPI-DOOR® and the purchaser of the product. It is imperative that an EXPI-DOOR® representative and the purchaser together agree on the best course of action before this determination has been made. Do not replace the product with another from a different provider as this may cause the warranty to not be applicable.

Steps to take in the event of a Warranty claim:

1. Contact EXPI-DOOR®. Provide a brief description of the problem and documentation of product purchase available.
2. Agree on a course of action with the EXPI-DOOR® representative – either product replacement or credit
3. Return defective product to EXPI-DOOR® per EXPI-DOOR's instructions.
4. After receiving the product and undergoing a thorough review to confirm defect, EXPI-DOOR® will issue credit.
5. In the event that a replacement product is required prior to being able to return the defective product, EXPI-DOOR® will send out a replacement and bill the customer. Once the old product has been confirmed defective, EXPI-DOOR® will credit the full amount for the new replacement product.
6. In the event the product is not considered defective, customer will be contacted and a course of remedy will be agreed upon.

## **FREIGHT CLAIMS**

1. Freight claims are not considered a part of the warranty process.
  - a. Once product leaves the EXPI-DOOR® Systems Inc. dock, it becomes the freight carrier and receivers responsibility
  - b. When the receiver signs the delivery receipt from the driver, the material then becomes the receiver's responsibility.
2. Examine freight before driver leaves and note ANY damage on delivery receipt no matter how small.
  - a. If there is damage noted please contact EXPI-DOOR® Systems Inc. right away at 920-393-4028. We will work at getting you what you need ASAP.
  - b. If damage is extensive, please refuse freight due to damage contact EXPI-DOOR® Systems Inc. ASAP and replacements will be worked on ASAP.
3. If damages or shortages are noticed any point after the driver departs from the delivery point, the receiver is then solely responsible for replacements.
  - a. If you notice damage after the diver has left you have five days to reach out to EXPI-DOOR® Systems Inc. with pictures to get a hidden freight claim filed.
  - b. The receiver will be responsible for the cost of the replacement, but EXPI-DOOR® Systems Inc. will file a hidden freight claim and will credit that chargeable PO if the carrier honors the hidden freight claim.

We understand how damage can affect your job's progress and EXPI-DOOR® Systems Inc. will do everything in its power to deliver new or replacement product ASAP, but will need the receiver's help to follow the above outline when freight arrives at their job site to allow it to go more smoothly.

# DB SERIES SPECIFICATIONS

## A. INTRODUCTION:

- A.1.0 The following information pertains to EXPI-DOOR's current DB Series door offering. We will discuss the specifics of preassembled door systems, as well as knock-down door systems. We will also discuss all hardware components of each system, as well as the creation or grouping of these items.
- A.1.01 All door systems provided by EXPI-DOOR are considered as "medium to heavy-duty commercial" type.
- A.1.02 Our DB Series offering was created specifically to offer a cost-effective product for light- to medium-duty environments. It should also be noted that this product line is similar, but superior to our competitor's standard offering of door systems.

## B. SUBMITTALS:

- B.1.0 For standard orders, where no special, non-stock conditions exist, our clients are encouraged to use the product data included here-in and in the following pages. This includes door and frame gauges, hardware grades, designs and finishes, and any other associated components that apply to the final design and assembly of the product.
- B.1.01 For non-standard orders, and where EXPI-DOOR provided a "specialized product" type quote for non-stock materials, it is required that our client contact the person responsible for that quotation and request a detailed submittal. This will be done at no cost to our client.
- B1.02 Submittals must be approved by a signature from the architect or end-user prior to ordering from EXPI-DOOR. EXPI-DOOR reserves the right to hold any order until the submittal is positively approved by the appropriate entity.

## C. QUALITY ASSURANCE

- C.1.01 EXPI-DOOR products pass through a minimum of three stations. First is a preparation and fabrication station. The second is the assembly station. The third is the final examination and packaging station. After installation of hardware items, each is tested to ensure proper alignment and function. Upon completion, product is inspected by a third-party for final quality appearance.

## D. PRODUCTS and COMPONENTS

- D.1.01 Hinges – All hinges are ANSI 156.1

- A. Ives 5BB1 4.5" x 4.5" NRP 652 (satin chrome plated), standard option.

1. Made with two ball bearing assemblies. Non-removable pin.
2. Certified to ANSI/BHMA A156.1 for performance standards.
3. Meets ANSI/BHMA 156.7 for template hinge dimensions.
4. Steel with steel pin ANSI A8112.
5. UL Classified for windstorm rated assemblies - R37965.
6. UL Listed, 3 hour fire doors.

- B. Hager ECBB1101 4.5" x 4.5" NRP US32D (stainless steel), optional.

1. Made with two ball bearing assemblies. Non-removable pin with button tip and plug.
2. Stainless steel with stainless steel pin ANSI A5112.
3. Complies with NFPA80

- C. Hager BB1191 4.5"X4.5" NRP US26D (satin chrome plated), optional.

1. Made with two ball bearing assemblies. Non-removable pin with button tip and plug.
2. Brass with stainless steel pin ANSI A2112.

- D. Hager BB1199 4.5" X 4.5" NRP US32D heavy-weight hinge (stainless steel), optional.
  - 1. Made with four ball bearing assemblies. Non-removable pin with button tip and plug.
  - 2. Stainless steel with stainless steel pin ANSI A5111.
  - 3. Complies with NFPA80.
- E. Hager continuous hinge 83" 780-157FFUL-83" (Aluminum 6063-TG), 4070 standard option.
  - 1. Option: UL Listed, 1-1/2 hr. metal doors.
  - 2. Option: UL Listed, 3 hr. metal doors. Stainless steel studs (4) required. (Extended lead time.)
- D.1.02 Cylindrical Lockset. Order keyed alike unless specified. Master keying available option. ADA compliant.
  - A. Falcon GR2 W Series Dane 626 Entry
    - 1. Lever standard: Levers are pressure cast zinc (solid levers no inserts) material finished to match mating parts.
    - 2. Rose: Roses are heavy wrought brass or bronze, installed over steel rose inserts which are through-bolted.
    - 3. 6-pin conventional "C" keyway (standard).
    - 4. Small format interchangeable core (S.F.I.C. Optional). (Extended lead time.)
    - 5. Function Options: W511 Entry - ANSI F109, W581 - Storeroom ANSI F86, (lead time), W561 - Classroom ANSI F84, (lead time), W101- Passage ANSI F75, (lead time), W301 - Privacy - ANSI F76, (lead time),
    - 6. ANSI/BHMA: Certified A156.2, Series 4000, Grade 2.
    - 7. UL/cUL: Listed for 3-hour fire door, A label.
    - 8. CA Fire Code: All levers with a return to door of 1/2" (64 mm) or less comply.
    - 9. Federal: BAA listed.
  - B. Falcon GR1 T Series Dane 626 Entry.
    - 1. Lever Standard: Levers are pressure cast zinc (solid levers no inserts) material finished to match mating parts.
    - 2. Rose: Roses are heavy wrought brass or bronze, installed over steel rose inserts which are through-bolted.
    - 3. 6-pin conventional "C" keyway (standard).
    - 4. Small format interchangeable core (S.F.I.C. Optional). (Extended lead time.)
    - 5. Function Options: T511 Entry - ANSI F109 (standard), T581- Storeroom ANSI F86, (lead time), T561- Classroom ANSI F84, (lead time), T101- Passage ANSI F75, (lead time), T301 - Privacy - ANSI F76, (lead time),
    - 6. ANSI/BHMA: Meets or exceeds A156.2, Series 4000, Grade 1 strength and operational requirements.
    - 7. UL/cUL: Listed for 3-hour fire door, A label.
    - 8. CA Fire Code: All levers with a return to door of 1/2" (64 mm) or less comply.
    - 9. Federal: BAA listed.

D.1.03 Mortise locks. Order keyed alike unless specified. Master keying available option. ADA compliant.

A. Falcon GR1 Mortise MA Series Dane 626.

1. Dead bolt: 1" throw, stainless steel with two 3/16" diameter hardened steel, free-turning, saw-resistant roller.
2. Faceplates: (armored front) 1 1/4" x 8" brass or stainless steel adjustable for door bevel. Reinforced by heavy gauge steel with stabilizing ribs.
3. Strike: Brass or stainless steel. Meets ANSI A115.1 for frame preparation. Strike is non-handed
4. 6-pin conventional "C" keyway (standard).
5. Small format interchangeable core (S.F.I.C. Optional).
6. Function Options: MA571 Dormitory -ANSI: F13 (Standard), MA581 Storeroom ANSI: F07 (lead time). MA561 - Classroom ANSI F05, (lead time).
7. ANSI/BHMA: L/LV9000: ANSI/BHMA A156.13-2017 Series 1000, Grade 1.
8. UL/cUL locksets comply with UL10B - neutral pressure and UL10C/UBC 7-2 - positive pressure testing requirements. All locks shall be UL listed for 3 hour fire door.
9. CA Fire Code: All levers with a return to door of 1/2" (64 mm) or less comply.
10. FL Building Code: Miami-Dade NOA and Florida Building Commission listings.
11. Federal: BAA compliant, all functions.

D.1.04 Exit devices (panic bar).

A. Hager 4701 Rim 36" Alum: Exterior cylinder escutcheon lever trim covers stock hollow metal doors with 161 cutouts if needed.

1. ANSI A156.3, Grade 1, Exit device for single doors and double doors with mullion, UL listed exit device hardware option. Hex key dogging standard for non-fire rated doors. Order keyed alike unless specified. Master keying available option.
  - a. UL305 listed for panic hardware.
  - b. UL/cUL listed for up to 3 hours for "A" labeled doors.
  - c. UL10C positive pressure rated.
  - d. UL10B neutral pressure rated.
  - e. Warnock Hersey listed for up to 3 hours with fire rated removable mullion.
  - f. Complies with ANSI 117.1 for accessible buildings and facilities.

B. 47CE ALM Cylinder Escutcheon Lever Trim: Entrance Grade 1: steel body and zinc handle. Order keyed alike unless specified. Master keying available option. ADA compliant.

1. Certifications: Complies with ANSI A117.1 for accessible buildings and facilities (levers only).
3. 6-pin conventional "C" keyway (standard).
4. Small format interchangeable core (S.F.I.C. optional.) (Extended lead time.)
5. Function 08: Key-in-lever entrance by trim (key locks or unlocks trim)
  - a. Certifications: Complies with ANSI A117.1 for accessible buildings and facilities (levers only).
  - b. E.O. = Exit only - no exterior trim.
6. Door leaf 161 lock preparation does not have reinforcement for exit device tail (hinge side), therefore it is recommend using thru-bolt to hold tail of device into place if this prep is used for exit device hardware.

## D.1.05 Closers – surface-mounted – ANSI A156.4 – Grade 1.

- A. Hager 5400.
  - 1. Medium-duty applications.
  - 2. Adjustable spring size 2-5.
  - 3. Double heat-treated, steel tempered springs.
  - 4. UL10C and UBC 7-2 (1997).
- B. Hager 5200.
  - 1. Heavy-duty application.
  - 2. Adjustable spring size 1-6.
  - 3. One-piece seamless steel spring tube.
  - 4. Double heat-treated, steel tempered springs.
  - 4. Precision-machined, heat-treated steel piston.
  - 5. UL10C and UBC 7-2 (1997).
- C. Falcon SC71.
  - 1. Busy commercial and institutional applications.
  - 2. Adjustable spring size 1-6.
  - 3. 1 1/2" diameter heat treated steel piston.
  - 4. Double heat-treated pinion.
  - 5. UL10C and UBC 7-2 (1997).

## D.1.06 Keyways / Cylinders.

- A. Standard: Round, 6-pin type – when two or more doors are present per order, keyways shall be keyed alike by EXPI-DOOR.
- B. Formatted (optional): Figure-8 type, small format interchangeable or full-size interchangeable type (please choose). Each core, or keyway shall be provided with (1) change, and (1) operating key. Change keys are only for the removal/insertion of the core. Operating keys are only for locking and unlocking the keyway.

## D.1.07 Accessories.

- A. Latch guards.
  - 1. Cylindrical or rose trim.
    - a. Non-handed.
    - b. 3" x 11" (76mm x 279mm).
    - c. For use on 1-3/4" (45mm) doors.
    - d. For use with cylindrical locksets with 2-3/4" (70mm) backset & exit device rose trims.
    - e. 12GA stainless steel (US32D).
    - f. Two (2) 5/16"-18 x 1-1/2" carriage bolts with 5/16"-18 x 3/4" sex nuts.

2. Mortise (18 ga. only) or escutcheon trim.
  - a. Non-handed.
  - b. 3" x 11" (76mm x 279mm).
  - c. For use on 1-3/4" (45mm) doors.
  - d. For use with mortise locksets with 2-3/4" (70mm) backset & exit device with escutcheon trim.
  - e. 12GA stainless steel (US32D).
  - f. Two (2) 5/16"-18 x 1-1/2" carriage bolts with 5/16"-18 x 3/4" sex nuts.
- B. Crash chain - certifications: Meets ANSI A156.16 for L02231. Tear resistant grey EDPM rubber with UV protection cover.
  1. 440 pound load strength.
  2. Designed for full size exterior doors.
  3. Base Plate: 1-1/2" x 1-1/2" (38 x 38 mm).
  4. Materials: Chrome plated zinc alloy base with welded galvanized steel chain.
  5. Finish: US26D.
  6. Fasteners: Ten (10) #8 x 1" FPHSMS.
  7. Length: 30 1/2" (775 mm).
- C. Kick plate - Certification: Meets ANSI A156.6 for J101 metal armor plate, J102 metal kick plate.
  1. UL listed (must specify if UL stamp is needed). Labeling shall not be required where top of protection plate is not more than 16" above the bottom of the door (NFPA 80).
  2. Gauge: 0.050" (1 mm).
  3. Material: Stainless steel.
  4. Finishes: US32D.
  5. Bevel: - 4 edges.
  6. Furnish item #, height, width, and finish (i.e., 190S - 8" x \_\_, US32D).
- D.1.08 Sweeps.
  - A. NGP 331 Door bottom sweep.
    1. Designed for hollow metal doors with inverted bottom channel.
    2. Rigid black polypropylene with flexible TPV fins.
    3. Installs at center line of door leaf.
  - B. NGP 101V Door Bottom Sweep (Optional) - Mill Aluminum Finish. Gray Vinyl. Screw holes slotted for adjustment. Exterior Doors inward swing application.
    1. Certified by UL to CAN/ULC-S104 and ANSI/UL10B.
    2. Positive Pressure - Certified by UL to ANSI/UL10C.
    3. Air Infiltration Tested to ASTM E283.

## D.1.09 Weatherstripping.

- A. NGP 5050C Charcoal weatherseal, standard - self-adhesive silicone fire and smoke seal.
  - 1. Certified by UL to CAN/ULC-S104 and ANSI/UL10B.
  - 2. Positive pressure - certified by UL to ANSI/UL10C.
  - 3. Air Infiltration Tested to ASTM E283.
  - 4. Acoustical tested to ASTM E90.
  - 5. Smoke & draft control gasketing.
    - a. Certified by UL to ANSI/UL10C and ANSI/UL1784 Category 'H'.
- B. NGP 155V Gray vinyl weatherseal, optional - mill aluminum finish. Gray vinyl. Screw holes slotted for adjustment. Exterior doors inward swing application.
  - 1. Certified by UL to CAN/ULC-S104 and ANSI/UL10B.
  - 2. Positive pressure - certified by UL to ANSI/UL10C.
  - 3. Air infiltration tested to ASTM E283.

## D.1.10 Thresholds &amp; spreader bars.

- A. EXPI-DOOR® Systems 5-3/4" depth to match door jambs, saddle type.
  - 1. Comes notched and attached to jambs with #8 x 3/4" fastener.
  - 2. Anchored with 1/4" x 2" flat head Sleeve Anchor.
  - 3. ADA compliant. Barrier-free thresholds meet the requirements of the ADA Standard for Accessible Design and ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.
- B. Spreader bar, optional.
  - 1. Used on preassembled door systems when standard threshold is not required or when alternate thresholds are used. Tack welded, non door side, base of jamb.
  - 2. Taken off prior to threshold installation by knocking off with hammer. Tack weld may need to be filed/ground down before threshold installation.
- C. NGP 896V Threshold, optional.
  - 1. 5" Wide, 1/2" tall, 0.105 wall thickness and need to notch to fit jamb. Comes in mill finish; vinyl bumper seal is gray.
  - 2. Anchored with 1/4" x 2" flat head sleeve anchor.
  - 3. Used for exterior door applications that door swings into building.
  - 4. ADA compliant. Barrier-free thresholds meet the requirements of the ADA Standard for Accessible Design and ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.

## D.1.11 Lite kit

- A. Certified by UL to CAN/ULC-S104 and ANSI/UL10B, complies with NFPA 80 and NFPA 252 for application to hollow metal fire doors rated up to 3 hrs.
- B. Positive pressure - Certified by UL to ANSI/UL10C. Complies with IBC, NFPA 80 and NFPA 252 for application to hollow metal fire doors rated up to 3 hrs.
- C. Location option: Non-ADA height unless specified.
- D. Standard kit glass thickness: 1/4" non-insulated glass or 1" insulated glass.
- E. 18 gauge. A60 Galvanneal steel. Mitered and welded corners. Welded reinforcing clips at corners. Counter-sunk mounting screw-holes. #8 Phillips head SMS.

- F. Color option: Gray Primer, White or Bronze.
- G. Designed for 1-3/4" thick doors manufactured within door industry tolerance of +/- 1/16" Minimum 18G galv. "U" Channel tack welded inside door leaf prior to lite kit installation for all fire-rated doors.
- H. Kit sizes (stock sizes below only - custom sizes available by request).
1. 10" x 10" x 1/4" with UL mark. (Actual Kit: 9.75" x 9.75" x 1/4"). Exposed glass: 7-3/4" x 7-3/4"
  2. 9" x 30" x 1/4" with UL mark. (Actual Kit: 8.75" x 29.75" x 1/4"). Exposed glass: 6-3/4" x 27-3/4"
  3. 24" x 30" x 1/4" with UL mark. (Actual Kit: 23.75" x 29.75" x 1/4"). Exposed glass: 21-3/4" x 27-3/4"
  4. 9" x 30" x 1" with UL mark. (Actual Kit: 8.75" x 29.75" x 1"). Exposed glass: 6-3/4" x 27-3/4"
  5. 24" x 30" x 1" with UL mark. (Actual Kit: 23.75" x 29.75" x 1"). Exposed glass: 21-3/4" x 27-3/4"
- I. Glazing tape: Medium density closed-cell polyvinyl chloride foam, coated both sides with an aggressive pressure-sensitive adhesive.
1. Absorbs shocks, cushions, deadens sound and eliminates excess vibration. Insulates against temperature. Effectively functions as a thermal break and insulator. Maintains a seal in high movement joints.
  2. Black color standard.
- J. Caulk.
1. Non-rated doors: Solar Seal clear caulk, standard - exterior door side of lite kit.
  2. Fire-rated doors: Dap 100% Silicone clear caulk, standard - exterior door side of lite kit.
- K. Glass types & sizes (stock material below only - other glass types available by request).
1. 1/4" clear tempered safety glass.
    - a. 9" x 30" x 1/4" (Actual glass: 7-11/16" x 28-11/16" x 1/4").
    - b. 24" x 30" x 1/4" (Actual glass: 22-11/16" x 28-11/16" x 1/4").
  2. 1" insulated clear tempered safety glass (comes with breather tube).
    - c. 9" x 30" x 1" (Actual glass: 7-11/16" x 28-11/16" x 1").
    - d. 24" x 30" x 1" (Actual glass: 22-11/16" x 28-11/16" x 1").
  3. 1/4" wire non-tempered glass, standard - fire-rated options. (Wire glass is not safety glass). Authority Having Jurisdiction (AHJ) approval for wire glass recommended for all projects.
    - a. 10" x 10" x 1/4" with UL watermark (90 minute rated).
    - b. 9" x 30" x 1/4" with UL watermark (45 minute rated).
    - c. 24" x 30" x 1/4" with UL watermark (45 minute rated).

#### D.1.12 Warranty

A. Door & Frame Assembly (before hardware)	2 Years
B. Falcon SC71 Closers	10 Years
C. Hager 5400 Closers	5 Years
D. Hager 5200 Closers	Lifetime
E. Standard EXPI Hinges	1 Year
F. Hager Exit Devices	5 Years
G. Falcon Mortise Locks	10 Years
H. Falcon Cylindrical Locks & Deadbolts	Grade 1: 5 Years Grade 2: 2 Years

## E. DOORS, FRAMES and SUBFRAME

## E.1.01 Door leaves, referred to as "HM" [Hollow Metal]:

- A. Gauge: 18 standard (20 gauge available).
- B. Steel: A60 galvanized quality carbon steel.
- C. Paint: White or bronze, baked-on primer paint, applied per ANSI A250.10.
  - 1. Salt Spray Test, 120 Hours, ASTM B117.
  - 2. Condensation, 240 Hours, ASTM D4585-1992.
  - 3. Impact Test, Gardner Direct 20 in. lbs. w/ ½" ball.
  - 4. Adhesion, ASTM D3359.
- D. Core
  - 1. Polystyrene: R-Value Per ASTM = 7.14. U-Value Per ASTM = 0.14.
  - 2. Polyurethane, optional: R-Value Per ASTM = 11.11. U-Value Per ASTM = 0.09.
- E. Construction per ANSI A250.8, 1998, hardware reinforcements per ANSI 250.6-1997, and hardware locations per ANSI/DHI A115.
  - 1. Flush, welded-in top channel (rail) shall be 14 gauge.
  - 2. Inverted, welded-in bottom channel (rail) shall be 14 gauge.
  - 3. Closer reinforcement "tube" of 14 gauge shall be inserted prior to insertion of core and prior to final joining of face sheets.
  - 4. Prepared @ lock stile for mortise lock, Gov. 86, ANSI A115.1
  - 5. Prepared @ lock stile for cylindrical lock, Gov. 161, ANSI 115.2
  - 6. Reinforced only @ lock & hinge stile for rim or mortise exit device w/ 14 gauge "tube" prior to insertion of core and prior to final joining of face sheets.
  - 7. 7 Gauge, prepared @ hinge edge for 1 ½ pair standard weight 4.5" high mortised hinges. Shall be provided with one of two kinds of handing plates dependent on standard or heavy-weight hinges.

## E.1.02 Door frames, referred to as "HM" [Hollow Metal].

- A. Material: Shall be of high quality carbon steel, A60 galvanized, 16 gauge.
- B. Frame finishes shall consist of baked-on tinted primer per ANSI A250.10 in either white or bronze. Primer shall also consist of zinc-based, rust-inhibitive properties. This finish can be painted over in the field by others.
- C. Reinforcements and preparations.
  - 1. Strike prep shall be 4 7/8" high, ASA. Strike prep shall be filled, or covered with a filler plate in the rim panic (exit) device applications.
  - 2. Hinge preparations shall be of 7 gauge steel. Frames shall consist of 1 ½ pair, fully-mortised, 4.5" high, set-up for standard-weight hinges, with optional heavy-weight hinge set-up.
- D. Attachment of threshold: EXPI-DOOR will attach the standard threshold to the frames to create a fully preassembled unit. This is accomplished by inserting (2) self-drilling, self-tapping TEK hex head screws into the reverse of each jamb, and into the fluted channels on the under-side of the threshold. All "special" thresholds do not have this capability and will be shipped loose assembly.
- E. Corner connections.
  - 1. **\*\*Standard\*\***: Mitered each end of header and top of each jamb. Slot-and-tab connection then back-welded by EXPI-DOOR before final assembly. Covers fire-rated applications.

## F. ANCHORAGE

## F.1.01 C-Channel.

- A. Subframes: 7", 8", 8.5", 10" or 11.5" galvanized 16 gauge (14 gauge for heavier doors) subframes w/ 12 gauge galvanized girt & base clip anchors. Includes all TEK fasteners and zinc plated concrete sleeve anchors. When jamb extensions are required to allow the door subframes to reach an additional or higher than usual first girt, extensions are provided and made of same material. Each extension channel will reach to a recommended maximum height of 12'-0" AFF. The width or depth of these extension pieces shall be ¼" less than the over-all subframe, or girt, depth (over-all width).
- B. Full height masonry, including (8) wire anchors, 1/8" diameter wire, zinc plated. For use in new block wall type.
- C. Partial height masonry, including subframe w/ 12 gauge galv. girt & base clip anchors from top of stem wall (wainscot) to girt. bottom shall be equipped with either wire anchors, or existing masonry application anchors (jamb drilled & dimpled w/ "hat-spacers" welded in).
- D. Existing opening application, including dimpled jambs (4 per jamb) on top of stops, and preferred anchor to attach to existing wall type. Choose one of the following.
  1. Self-drilling, self-tapping, ¼" diameter, zinc plated, 4" length, #4 Phillips driver.
  2. Expandable concrete sleeve anchor, zinc plated – prime painted Phillips head, 3/8" diameter, 5" length, #4 Phillips driver.
  3. Wood screw, ¼" diameter, 4" length, zinc plated, #4 Phillips Driver.
  4. Threaded-rod, 3/8" diameter, 4" length, zinc plated – prime painted Phillips head, w/ star washer and lock-nut, #4 Phillips driver.
  5. Fully-threaded hanger bolt x 4-1/2" length, zinc plated – prime painted Phillips head, #4 Phillips Driver (for existing wood stud applications).

## F.1.02 Jamb insulation.

- A. \*\*All jambs shall be filled full with "batt" or fiberglass insulation.

G. SWING TYPE

G.101. Customer is to choose from the below chart at time of order confirmation or prior to submitting a purchase order to EXPI-DOOR.

SINGLE DOOR		DOUBLE DOOR	
<p><b>AI</b> <b>LEFT HAND</b></p>		<p><b>CI</b> <b>LEFT HAND ACTIVE</b></p>	
<p><b>BI</b> <b>RIGHT HAND</b></p>		<p><b>DI</b> <b>RIGHT HAND ACTIVE</b></p>	
<p><b>A</b> <b>LEFT HAND REVERSE</b></p>		<p><b>C</b> <b>LEFT HAND REVERSE ACTIVE</b></p>	
<p><b>B</b> <b>RIGHT HAND REVERSE</b></p>		<p><b>D</b> <b>RIGHT HAND REVERSE ACTIVE</b></p>	

**Description Key:**

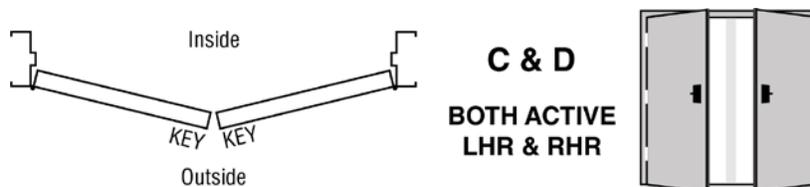
Single Door "AI" Swing (LH) Exterior door  
 Single Door "AI" Swing (LH) Interior door  
 Single Door "A" Swing (LHR)  
 Single Door "BI" Swing (RH) Exterior door  
 Single Door "BI" Swing (RH) Interior door  
 Single Door "B" Swing (RHR)

Double Door "CI" Swing (LH active, RH inactive) Exterior door  
 Double Door "CI" Swing (LH active, RH inactive) Interior door  
 Double Door "C" Swing (LHR active, RHR inactive)  
 Double Door "DI" Swing (RH active, LH inactive) Exterior door  
 Double Door "DI" Swing (RH active, LH inactive) Interior door  
 Double Door "D" Swing (RHR active, LHR inactive)

Double doors with one active door and one inactive door have "Z" astragal on inactive door standard.

Above noted interior (inward and outward swinging) and exterior (outward swinging) doors will have threshold and weatherstrip unless specified something different.

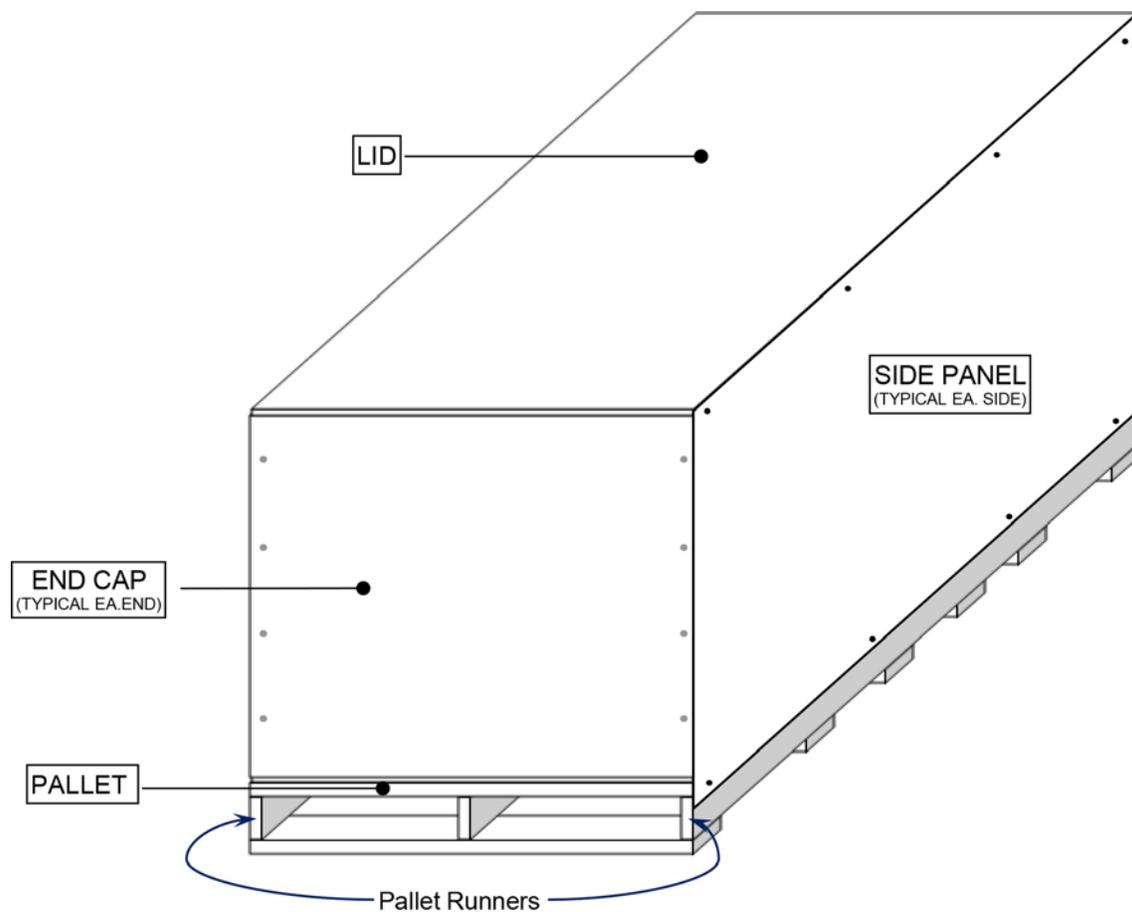
Above noted exterior (inward swinging) doors will have spreader bar with bumper threshold (shipped loose), drip sweep, concealed sweep, stick on weatherstrip and aluminum weatherstrip.



Double door C & D both active with mullion: Standard with (2) exit device with lever exterior lock trim or optional exit only (no exterior lock trim).

## PACKAGING DETAILS - PREASSEMBLED DOORS

Single door loaded on a 4'x8' pallet, and fastened down through C-channel subframe to 1-3/4" outer runner of pallet. Each door is then stacked and fastened to the door below through C-channel subframe with self driller fastener. Up to 4 doors per pallet can be stacked. A lid is created from 2x4's and OSB and set on top of top door. End caps are then fastened to each girt and base clip and into the ends of the 2x4's of the lid. Side panels are attached to pallet runners at the bottom and to the runners of the "lid".

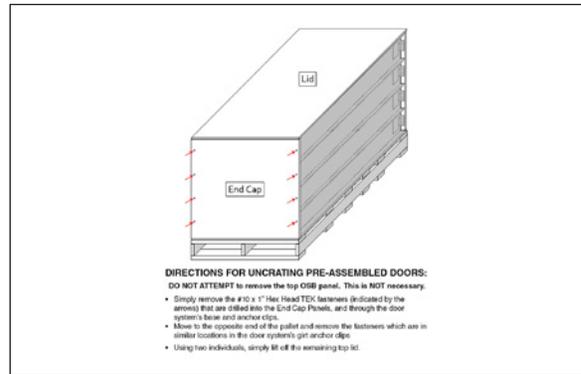


Doors that do not receive subframes, such as Masonry Anchor Doors or Stud Wall Anchor Doors, shall be set on appropriate blocking between each door to create appropriate space between lockset and door leaf of the door above. Sides, ends, and top are all covered with OSB or plywood for a completely boxed product.

# DOOR PACKAGE LABELS

**Attention**

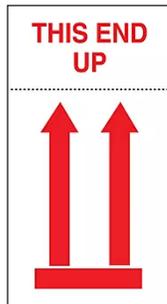
Upon receiving doors please inspect pallet and contents for damage; prior to carrier departing. Note any damage on Bill of Lading. Damage not noted on Bill of Lading, will not be accepted under freight claim.



**DO NOT STACK**

**DO NOT TOP LOAD OTHER FREIGHT**  
 NO PONGA OTRAS COSAS ENCIMA DE ESTA CAJA

**FRAGILE**  
 GLASS HANDLE WITH CARE



**SCAN FOR INSTALLATION INSTRUCTIONS**  
 ESCANEAR PARA OBTENER INSTRUCCIONES DE INSTALACIÓN

**EXPI-DOOR® Systems Inc.**  
 MEMBER OF THE BAY FAMILY OF COMPANIES  
[www.EXPIDOOR.com](http://www.EXPIDOOR.com)

**EXPI-DOOR® Systems Inc.**  
 MEMBER OF THE BAY FAMILY OF COMPANIES

**SERIES DB**

**WIND-RATED**  
**KNOCK DOWN 140 MPH PREASSEMBLED**

☐ ☐ ☐

3146 Yeager Drive • Green Bay, WI 54311 [www.expidoor.com](http://www.expidoor.com) Phone: 920-393-4029 • Fax: 920-393-4452

**DO NOT TOP LOAD OTHER FREIGHT**

**WARNING! USE LONG FORKS ON ENDS ONLY**

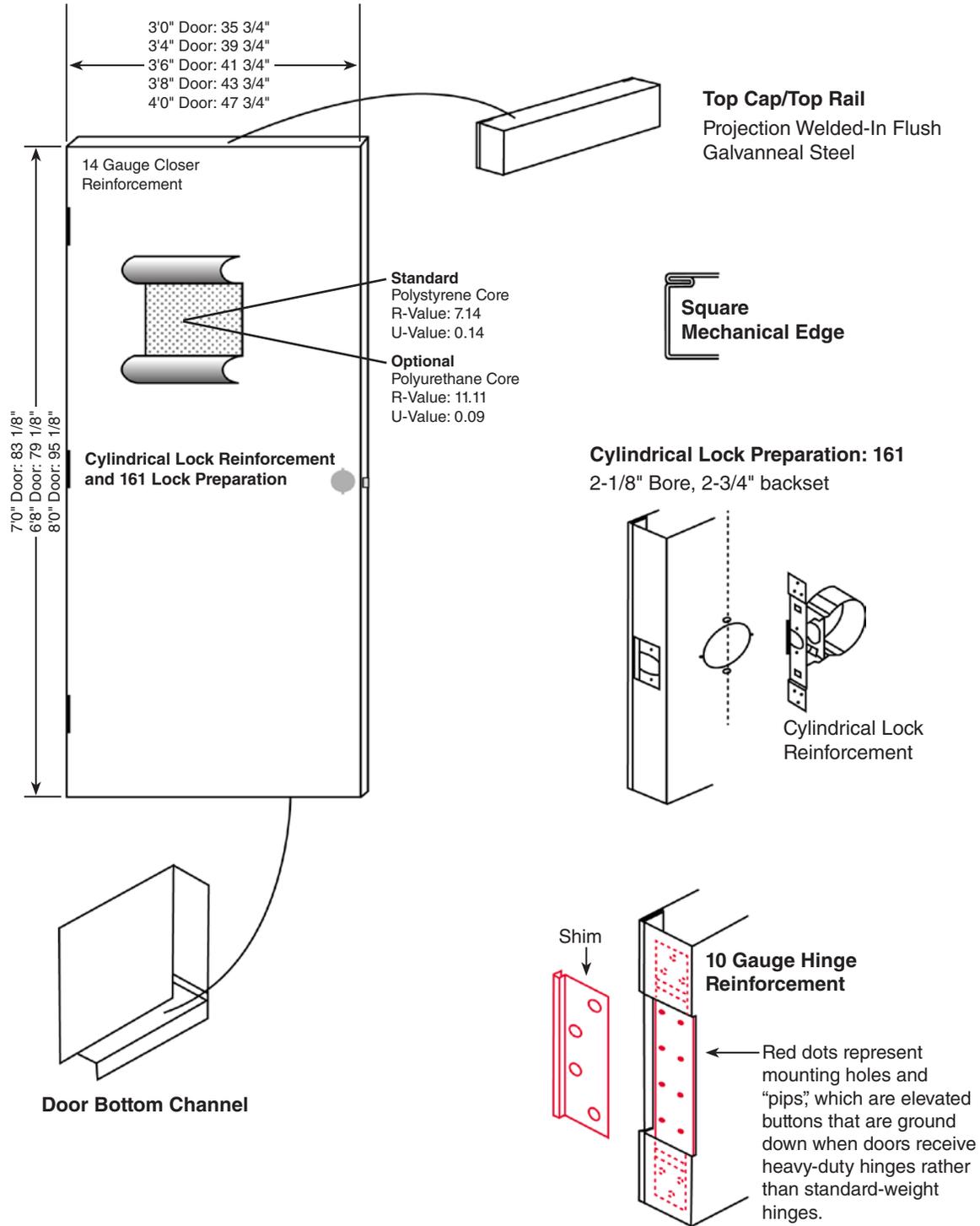
**PRIME PAINTED DOOR AND FRAME PRODUCTS - JOBSITE HANDLING AND STORAGE**

HANDLING	STORAGE
Handle with caution to prevent doors from being damaged or exposed to harmful elements such as chemicals and weather.	Plastic coverings must be removed immediately to avoid creating a humidity chamber.
Care must be taken to avoid dragging the product along floors or making contact with other surfaces that could scratch or mar the finish.	Remove doors from shipping pallets and store upright in a dry and well ventilated shelter. Keep shelter at a normal and constant temperature.
Do not lay prime painted doors or frames flat on the ground or other surfaces.	Store doors on a wooden pallet / runner with bottom of doors sitting 4" above the floor to avoid moisture and maring the lower surfaces and edges.

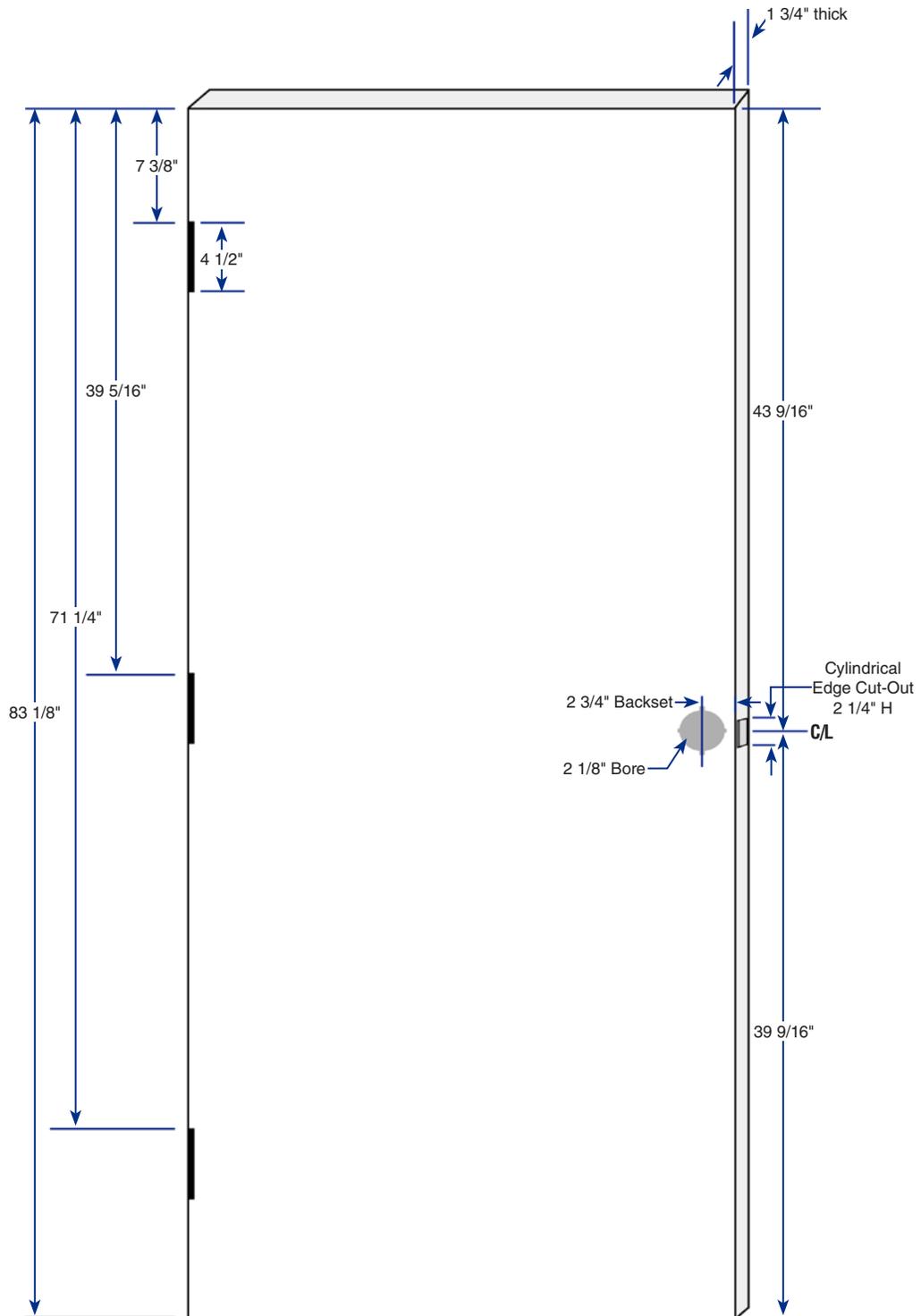
**EXPI-DOOR® Systems Inc.**  
 MEMBER OF THE BAY FAMILY OF COMPANIES

3146 Yeager Drive  
 Green Bay, WI 54311  
 Phone: 920-393-4029  
 Fax: 920-393-4452  
 9F10306-02/2011 8x10(2)

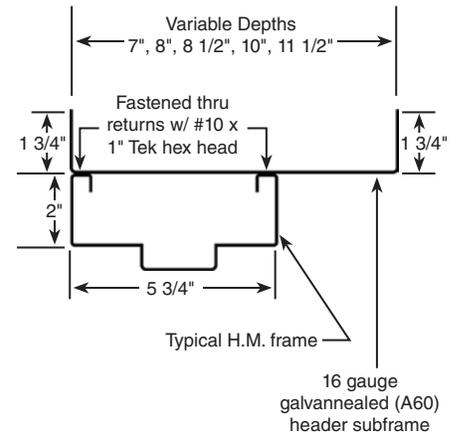
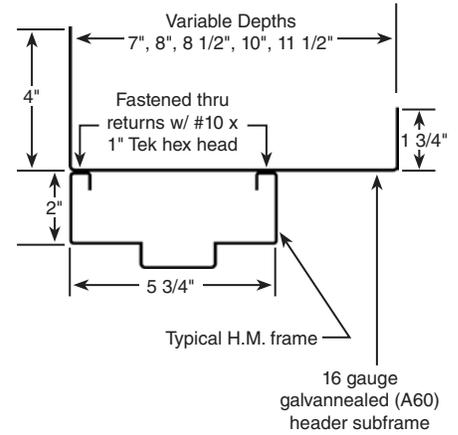
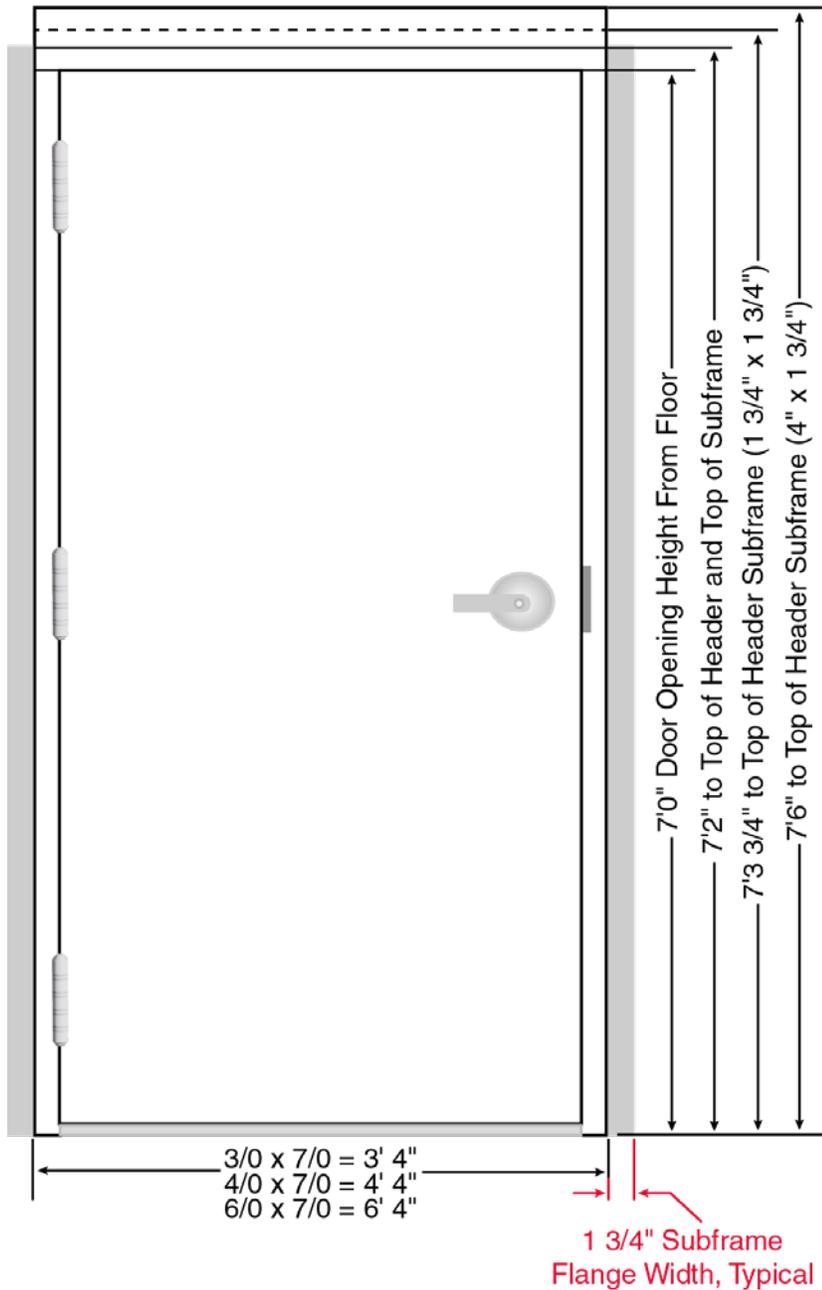
# DOOR LEAF DETAILS - CORE & PREPS



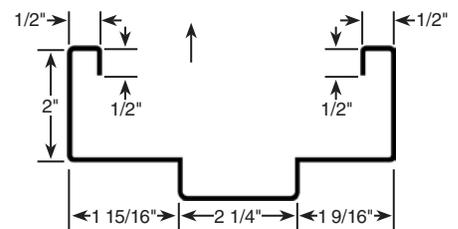
# DOOR LEAF DETAILS - HARDWARE LOCATIONS



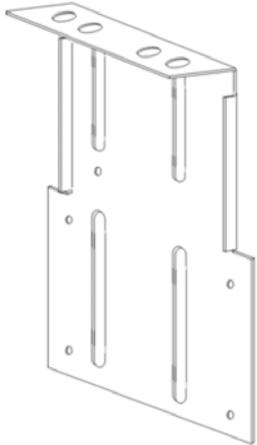
# STANDARD DOOR FRAME DETAILS WITH FLUSH SUBFRAME



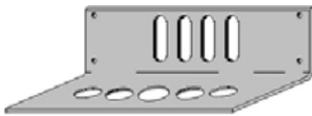
### Typical Jamb Header, Strike & Hinge



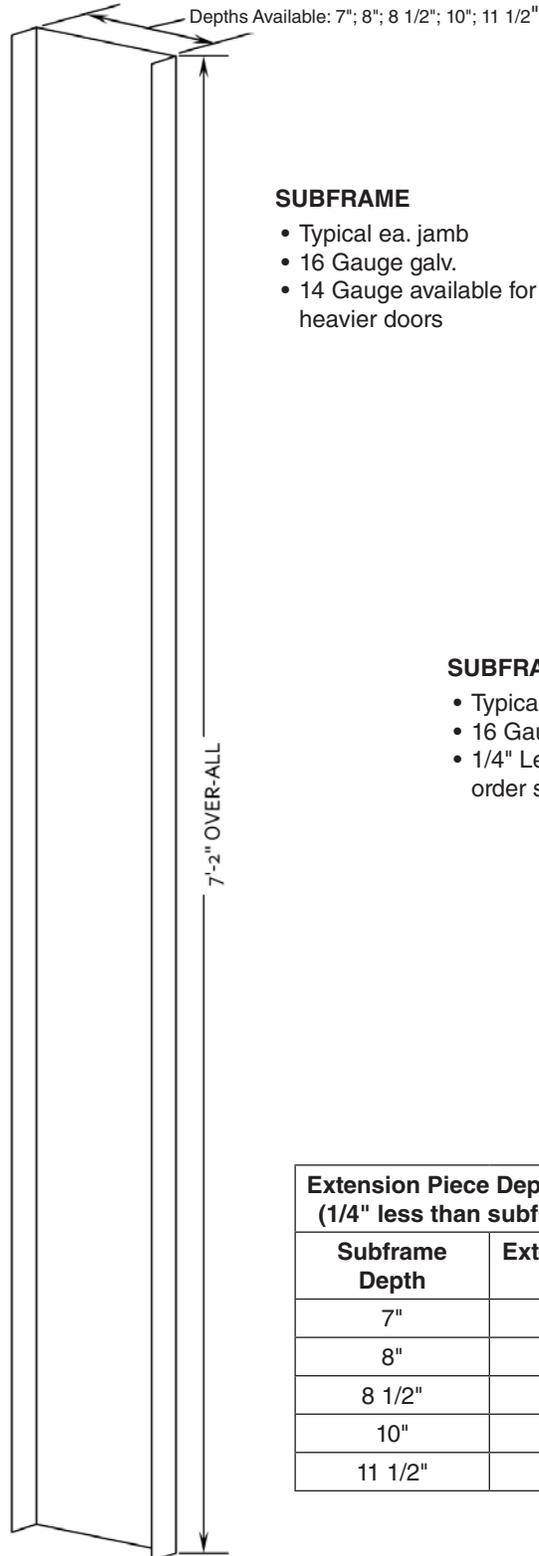
# STANDARD DOOR SUBFRAME DETAILS



**GIRT ANCHOR (L-CLIP)**  
 12 Gauge galvanized  
 5 3/4" wide x 9 1/2" long



**BASE ANCHOR (L-CLIP)**  
 12 Gauge galvanized  
 5 3/4" wide x 2" high

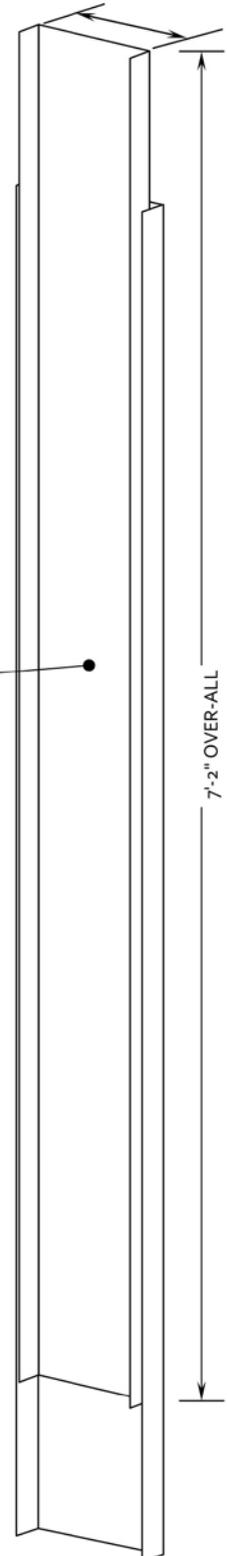


**SUBFRAME**

- Typical ea. jamb
- 16 Gauge galv.
- 14 Gauge available for heavier doors

**SUBFRAME EXTENSION**

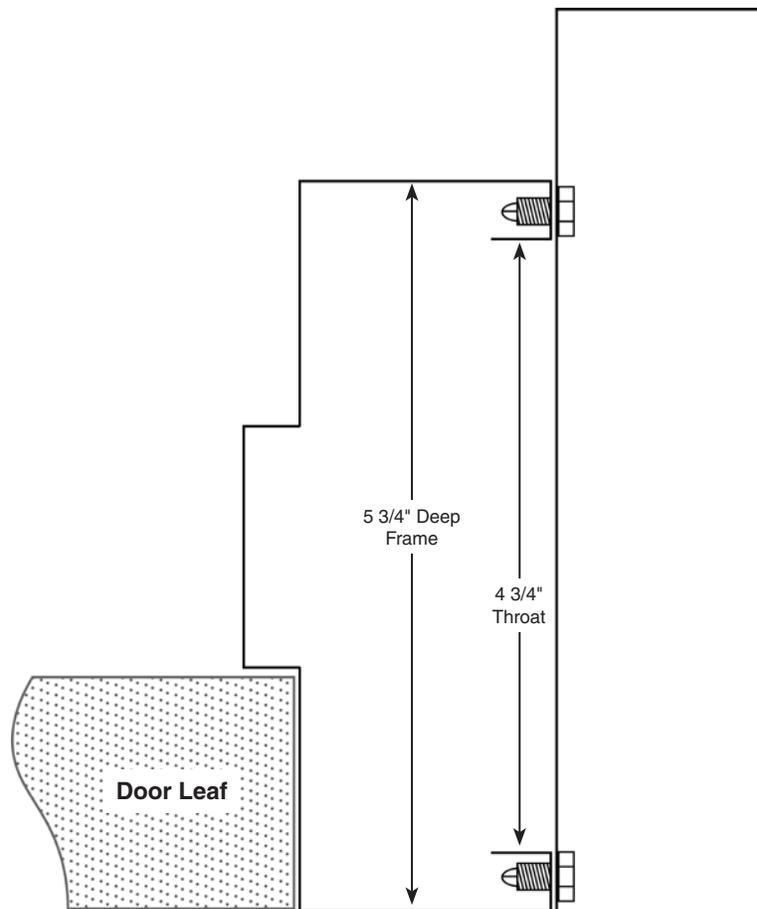
- Typical ea. jamb
- 16 Gauge galv.
- 1/4" Less than subframe order size



Extension Piece Depths Available (1/4" less than subframe depth)	
Subframe Depth	Extension Piece Depth
7"	6 3/4"
8"	7 3/4"
8 1/2"	8 1/4"
10"	9 3/4"
11 1/2"	11 1/4"

## FLUSH SUBFRAME ATTACHMENT DETAILS

### Flush-Mount Subframe Attachment Typical @ Header and Jambs

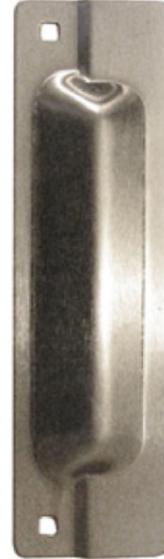


## LATCHGUARD DETAILS

**Stainless Steel Latchguard**  
**Included in Standard EXPI-DOOR Package**



**LATCHGUARD FOR  
CYLINDRICAL (BORED)  
LOCKSETS**



**LATCHGUARD FOR  
MORTISE LOCKSETS**

**SPECIALTY CARRIAGE SEX NUT/BOLT  
W/ ALLEN DRIVERS**



## CLOSER OPTIONS

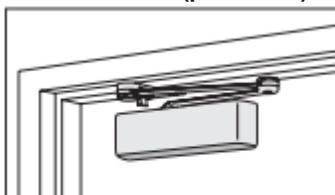
**Grade 1 - ANSI A156.4.**

**All standard options have 689 Aluminum Finish.**

**Meets the American Disabilities Act (ADA). UL10C and UBC 7-2 (1997).**

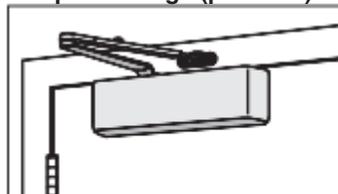
**Optional finishes available upon request.**

**Standard: Parallel Arm (push side) Mounting**



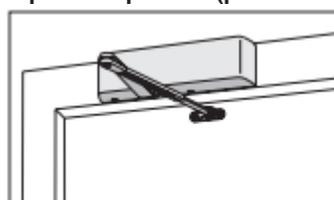
**Parallel arm (push side)**

**Option: Hinge (pull side)**



**Hinge (pull side)**

**Option: Top Jamb (push side)**



**Top jamb (push side)**

**Hager 5400:** Grade 2 Medium-duty parallel arm surface door closer. Adjustable spring sizes 2-5. Non-Handed. Double heat-treated, steel tempered springs. Sweep and latching valves; all valves staked. Ideal for medium-duty commercial applications.

**Warranty:** 5 years

**Hager 5200:** Grade 1 Heavy-duty parallel arm surface door closer. Adjustable spring sizes 1-6. Non-Handed. One-piece seamless steel spring tube. Double heat-treated, steel tempered springs. Precision-machined, heat-treated steel piston. Adjustable backcheck sweep, and latching valves; all valves staked. Ideal for schools, hospitals, and other high-use environments.

**Warranty:** Lifetime

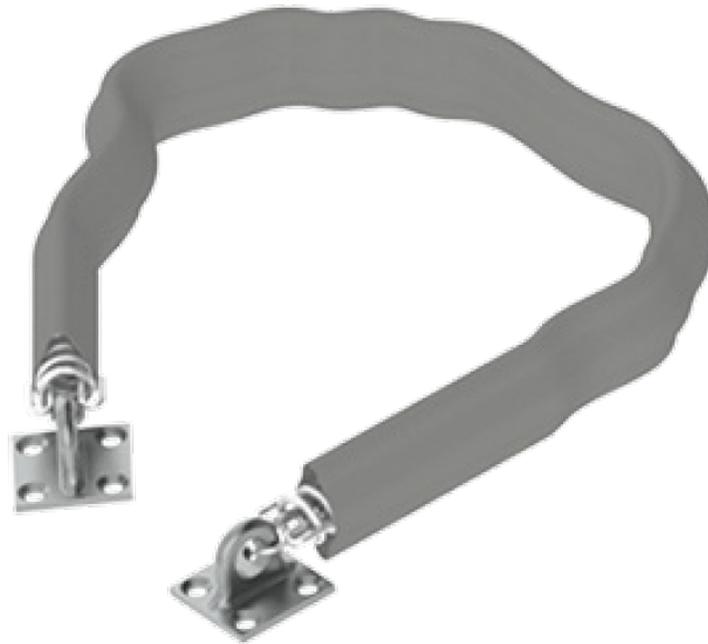
**Falcon SC71:** The SC71 Single piece cast aluminum cylinder assembly is built for busy commercial and institutional applications that require reliability and easy maintenance. With a variety of mounting options, arm types and installation accessories available, the SC70A Series is suitable for a variety of applications, including interior or exterior doors in schools, retail shops, restaurants, offices and apartment complexes.

1 1/2" diameter heat treated steel piston. Double heat-treated pinion. Adjustable spring size 1-6.

**Warranty:** 10 years

## CRASH CHAIN DETAILS

### Hager 300D



Use alone or in conjunction with any surface-mount closer.

#### Features:

- Specially designed for full-size exterior doors
- Tear-resistant, grey EPDM rubber cover with UV protection
- Heavy-duty compression spring assembled to both ends of chain and end brackets
- Packed with sheet metal screws
- Chrome plated zinc alloy brackets with solid, welded steel chain
- 440 lb. load strength

#### Attachment:

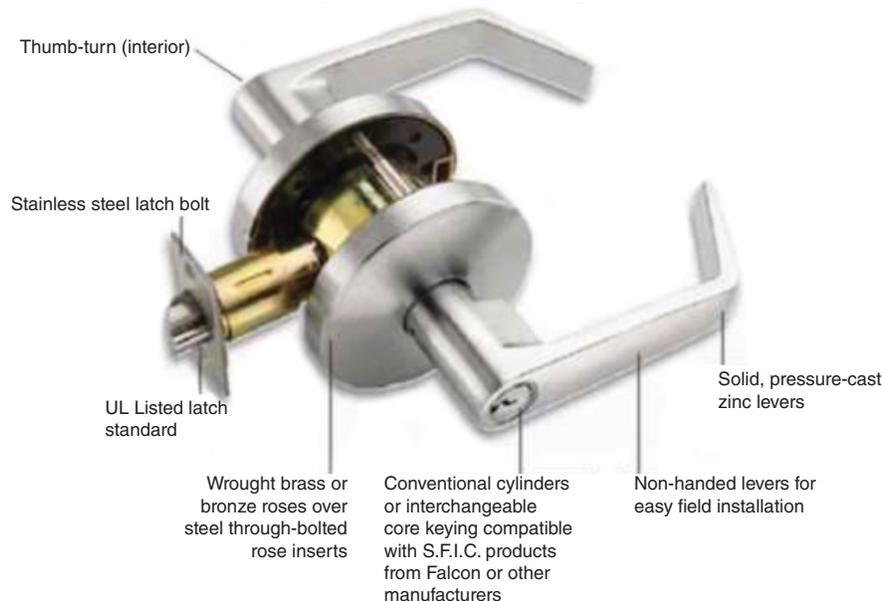
Pre-measured and installed w/ #18 x 1" #2 Phillips head screws

Mounts to door stop (soffit) surface of door frame and to the door leaf, by connecting through the internal closer reinforcement

## STANDARD LOCK DETAILS - GRADE 2

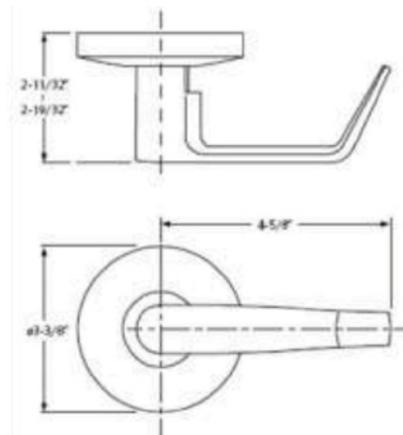
### Grade 2 Entry Lever

#### Included in Standard EXPI-DOOR Package



### SPECIFICATIONS

- Falcon Grade 2 entry lever, keyed
- Bored/Cylindrical
- 2 3/4" Back-set
- Brushed Chromium (US26D) finish
- Stainless steel latchbolt w/ 1/2" throw, deadlocking
- Steel lock chassis, zinc dichromated for corrosion resistance
- Fits standard Gov. 161, or 61L prep w/thru-bolting thru door
- Solid cast levers
- Independent lever return springs
- Strike 1 1/4" x 4 7/8" ANSI
- Schlage "C" keyway 6-pin cylinder
- Meets ANSI A117.1 Accessibility (ADA) Code
- Meets ANSI A156.2 Series 4000, Grade 2
- UL Listed up to "A" Label (3-Hour) single swing doors
- 2-Year Limited Warranty



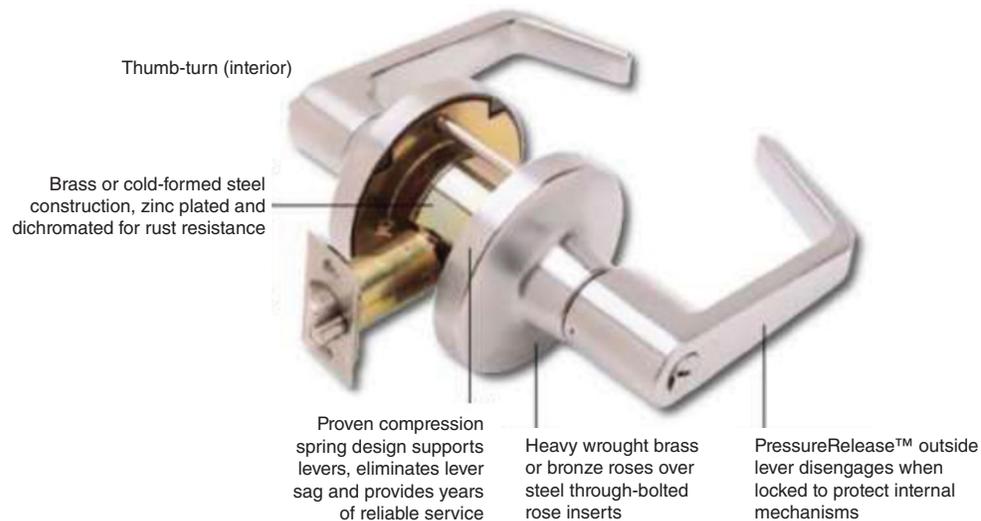
#### Optional Keyway:

Small Format  
Interchangeable Core  
To accept BEST brand primarily



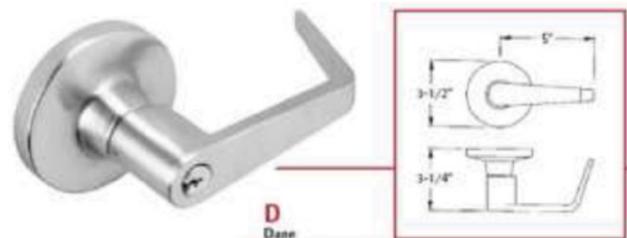
## STANDARD LOCK DETAILS - GRADE 1

### Grade 1 Entry Lever



### SPECIFICATIONS

- Falcon Grade 1 Entry Lever, keyed
- Bored/Cylindrical
- 2 3/4" Back-set
- Brushed Chromium (US26D) finish
- Stainless steel latchbolt w/ 1/2" throw, deadlocking
- Steel lock chassis, zinc dichromated for corrosion resistance
- Fits standard Gov. 161, or 61L prep w/thru-bolting thru door
- Solid cast levers
- Independent lever return springs
- Strike 1 1/4" x 4 7/8" ANSI
- Schlage "C" keyway 6-pin cylinder
- Meets ANSI A117.1 Accessibility (ADA) Code
- Meets ANSI A156.2 Series 4000, Grade 1
- UL Listed up to "A" Label (3-Hour) single swing doors
- 5-Year Limited Warranty



#### Optional Keyway:

Small Format Interchangeable Core (S.F.I.C.)

To accept BEST brand primarily



## DEFAULT GRADE 1 STANDARD-DUTY EXIT DEVICE DETAILS

### Exit Device (Panic) with Key-In-Lever Trim Hager 4701-ALM x 47CE-ALM



Available from stock for 2'-5" door size up to 3'0" door size.  
**Panic Devices for 4'0" doors are special order.**

#### STANDARD OFFERING

Lever on escutcheon trim and keyed mortise cylinder with Schlage \*Conventional Core 6-Pin C

- Default lock function: ANSI "08", key locks, unlocks trim
- Escutcheon: 2 5/8" x 8"
- Finish: "ALM" (Powder-coated aluminum flat bar & lever trim ANSI US28 / BHMA 689)
- Requires mortise cylinder (included)
- Projection: 2 3/4"

*\*Available from stock, OPTIONAL mortise cylinder with S.F.I.C. (Small Format Interchangeable Core) BEST Access brand compatible. One (1) control key per order and two (2) operating cut keys per door. Keyed alike by default.*



#### OPTIONAL (extended leadtimes)

Key-in-lever exterior trim with 6-pin conventional Schlage C keyway

*All locks, per order, shall be keyed alike by EXPI-DOOR prior to shipping.\*\**

*\*\*All locks on one order shall be keyed alike by EXPI-DOOR, unless we are instructed otherwise at time of order processing to do one of the following:*

1. Key all locks differently but with 2 master keys per order
2. Key differently or alike in specific groups, at which point a keying schedule must be provided to EXPI-DOOR.

#### CERTIFICATIONS

- ANSI A156.3-2001, Grade 1 standard-duty commercial
- UL/cUL Listed for up to 3 hours for "A" label single doors
- UL10C/UBC 7-2 (1997) positive pressure rated
- UL10B neutral pressure rated
- Hex dogging feature standard on non-fire-rated doors
- Warnock-Hersey listed
- ANSI A117.1 for accessible buildings and facilities (handicap)
- UL305 listed for panic hardware
- Member BHMA
- 5-Year Warranty

## FORMATTED, INTERCHANGEABLE CORE (S.F.I.C.) INFORMATION

Mortise or rim cylinder housing with Figure-8 S.F.I.C. Cylinder Core in Falcon "A" Keyway (comparable to BEST's most common keyway) - Used for mortise/rim locks, mortise exit devices, cylindrical dogging for any exit device (add option), and most auxiliary hardware.

Provided with:

- One (1) control key for core removal from lockset.
- Two (2) operating keys to lock/unlock the lever or device.

Permanent cores provided by the manufacturer only and sold directly to the end-user.

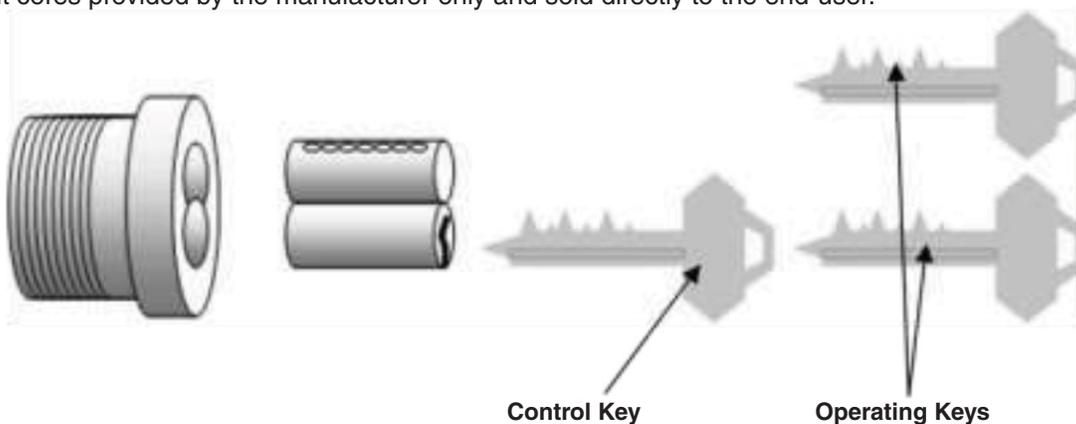
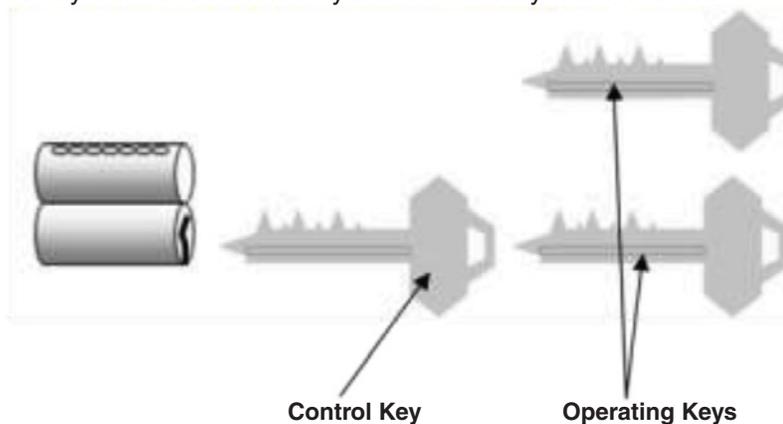


Figure-8 S.F.I.C. Cylinder Core in Falcon "A" keyway (comparable to BEST's most common keyway) - Used for cylindrical locks and key-in-lever exit device trim.

Provided with:

- One (1) control key for core removal from lockset
- Two (2) operating keys to lock/unlock the lever or device

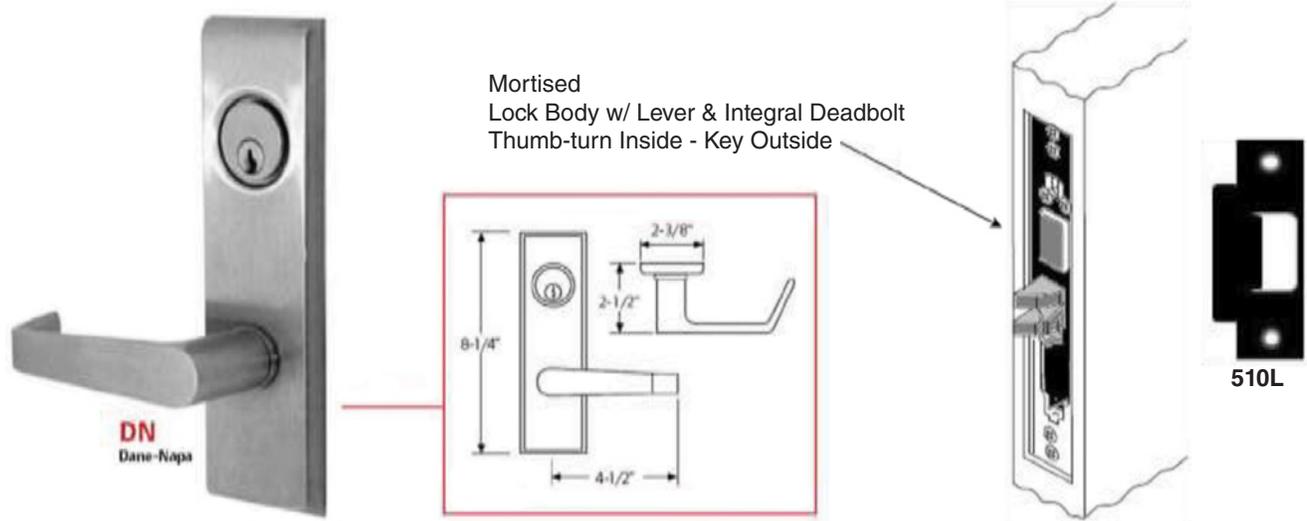
Permanent cores provided by the manufacturer only and sold directly to the end-user.



Housings and I.C. keyways by Schlage or Falcon. Must specify when ordering if "small format" or "full size" cores are needed.

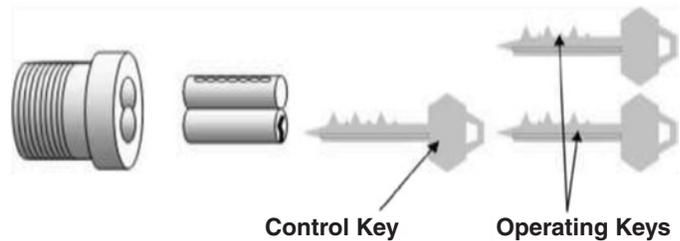
# MORTISE LEVER LOCK DETAILS

## Grade 1 Mortise Entry Lever - 18 Gauge Only



Catalog Number	Function	Description	ANSI No. & Grade
M571		<b>Dormitory Lock</b> Latch bolt by knobs/levers except when outside knob/lever is locked by projecting deadbolt. Key outside retracts deadbolt and unlocks outside knob/lever. Rotating inside knob/lever retracts both bolts.	F13-1 F13-2

- ANSI A156.13 Series 2000, Grade 1
- UL Listed for "A" Label (3-Hour) fire doors
- 2 3/4" Back-set / field reversible lock-body
- Brushed Chromium (US26D) finish
- Brass / anti-friction constructed deadbolt w/ 1" throw
- Lever retracts deadbolt from thumb-turn side for life-safety compliance
- Fits Standard Gov. 86 & 86E prep w/ thru-bolting thru door
- Cases are cold-rolled formed steel 0.090 thick - zinc
- Solid forged brass handles and escutcheons
- Strike 1 1/4" x 4 7/8" ANSI
- Standard Keyway: Schlage "C" keyway 6-pin cylinder / S.F.I.C. is OPTION only
- 10-Year Warranty



### Optional Keyway

Mortise cylinder housing with Figure-8 S.F.I.C. cylinder core in Falcon "A" keyway (comparable to BEST's most common keyway).

Provided with:

- (1) control key for core removal from lockset
- (2) operating keys to lock / unlock the lever or device

To accept BEST brand primarily

## HINGE DETAILS

### Standard Hinges

1 1/2 Pair Per Single Door

3 Pair Per Double Door



- Satin Chromium Finish over steel (BHMA 652)
- 4.5" x 4.5" (114 mm x 114 mm)
- 0.134" Gauge standard weight
- Non-removable pin
- 5-Knuckle w/ button tip & plug
- Ball bearings
- ANSI A8112

Heavy-weight hinges available upon request



#### OPTIONAL

- ANSI A156.1
- Stainless steel material and US32D finish
- 4.5" x 4.5" (114mm x 114mm)
- 0.134" Gauge standard weight
- Non-removable pin
- ANSI A5112



#### OPTIONAL

#### HAGER HINGE CO.

##### Model # BB1191

- ANSI A156.1
- Brass leaf & SS pin
- 4.5" x 4.5" (114mm x 114mm)
- 0.134" Gauge standard weight
- Non-removable pin
- ANSI A2112



#### OPTIONAL

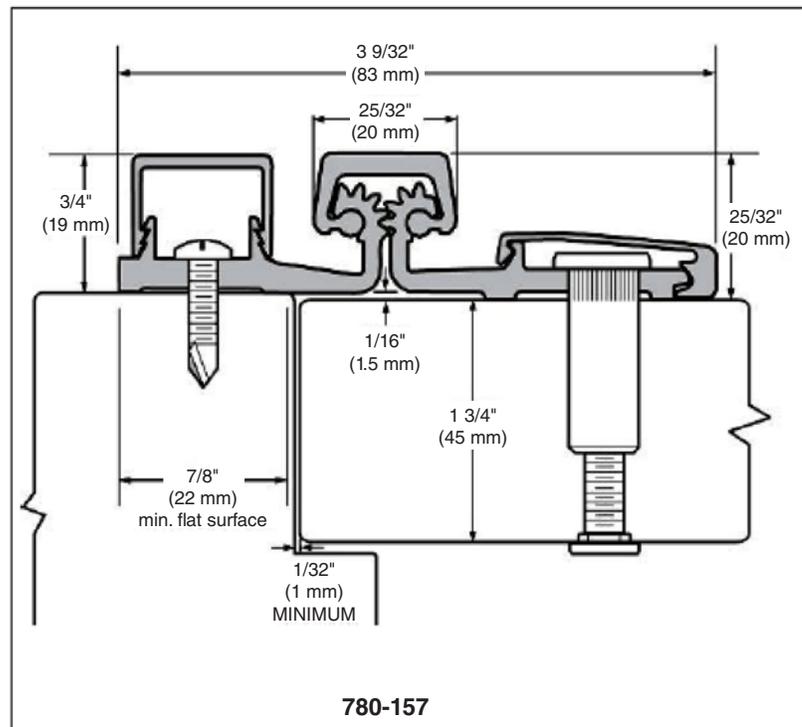
#### HAGER HINGE CO.

##### Model # BB1199

- ANSI A156.1-2000
- Stainless steel leaf & SS pin
- 4.5" x 4.5" (114mm x 114mm)
- 0.180" Gauge heavy weight
- Non-removable pin
- ANSI A5111

## STANDARD FULL-SURFACE CONTINUOUS HINGE

Optional for all doors, but **DEFAULT** for DB Series 4/0 x 7/0 Door Systems



### Product Specifications

#### Fasteners:

- Standard #12-24 x 11/16" self-drilling pan head machine screw.
- 1/4" - 20 thru bolts for 1-3/4" doors.

#### Length Options:

- Length to be ordered should be one inch LDH (Less Door Height).

#### Door Reinforcement:

- None required.

#### Frame Reinforcement:

- None required to 200 lbs. Heavier weight use 16-gauge reinforcing channel welded-in behind face.

#### Fire-Rating:

- Up to 3 hour metal and 90 minute wood composite (with fire-studs).
- When ordering, must specify if UL stamp is required.

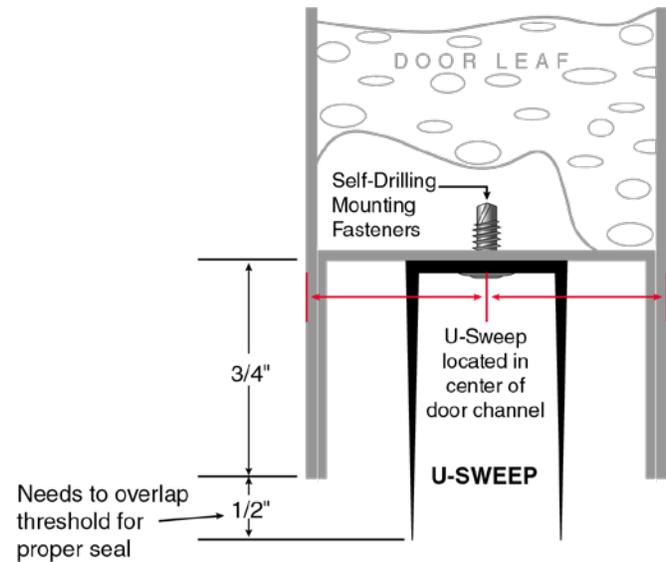
#### Warranty:

- All Roton products have a lifetime warranty. Electronic transfer hinges shall carry a one-year warranty.

#### Material:

- Aluminum 6063T6.

## STANDARD U-SWEEP

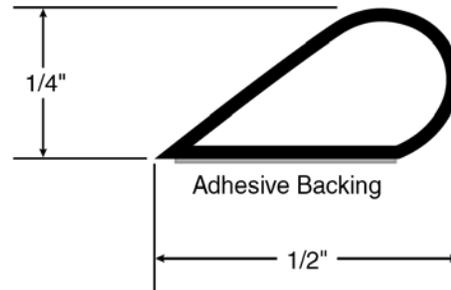


### DESCRIPTION:

- Dual-finger door shoe, NGP #331 (or equal)
- Rigid black polypropylene top with flexible TPV fins
- Designed for hollow metal doors with inverted bottom channel
- Installs at center-line of door leaf (as pictured)

## PERIMETER WEATHERSTRIPPING

### Self-Adhesive Silicone Fire and Smoke Seal



#### DESCRIPTION:

- Synthetic rubber polymer: Siloxane
- Self-adhesive "C" Charcoal (Black) material
- Flame resistant
- Excellent flexibility and memory
- Excellent resistance to ozone, UV, and aging

#### CERTIFICATIONS:

- ANSI/UL10C, ANSI/UL 1784 Category 'H': Smoke & draft control
- ASTM E283: Air Infiltration/Leakage
- NFPA 80 & 252 positive pressure
- CAN/ULC-S104 and ANSI/UL10B: 90 minute fire resistant
- ANSI/BHMA A156.22 gasketing and edge seal systems
- End use temperature range of adhesive, long term exposure -30°F up to 250°F
- Modified acrylic pressure-sensitive adhesive protected by release liner
- BHMA certified to ANSI/BHMA A156.22 performance tests for heat, cold and air filtration.
- Resistant to aging, weathering, UV radiation, moisture, detergent

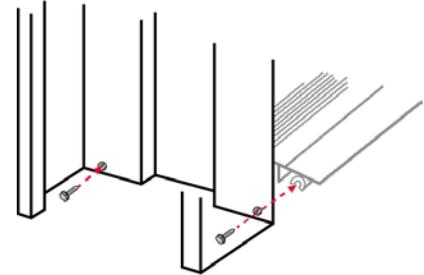
## STANDARD A.D.A COMPLIANT THRESHOLD

All thresholds shall be fastened to the base of each jamb on the interior door side rabbet and the exterior door side rabbet directly into threshold “flutes” located on the underside of the threshold. These flutes run the entire length of each threshold. Thresholds shall be 5-3/4" wide and U-notched.

 **ADA COMPLIANT.** Barrier-free thresholds meet the requirements of the ADA Standard for Accessible Design and ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.

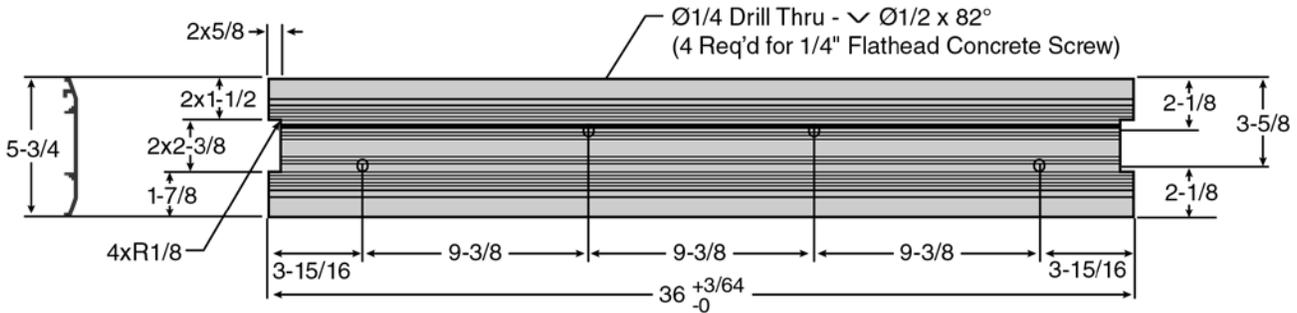


Fasteners for attachment of threshold to frame:  
#8 x 3/4" Zinc Self-Drilling



### Top & End View - 36" Threshold:

Number of Anchor Holes for 3' Threshold shall be (4)



For anchorage to the concrete floor, thresholds shall be produced with pre-punched, countersunk holes to accept 1/4" diameter concrete sleeve anchors (provided by EXPI-DOOR). Three-foot single door system thresholds shall consist of four (4) countersunk bores, and shall be “staggered” across the length of the Threshold.

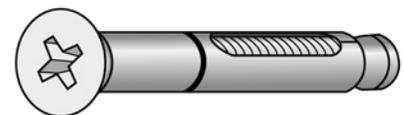
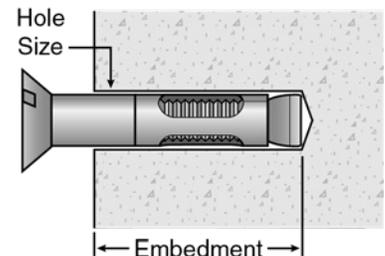
Fastening the threshold to the frame in the factory is a bonus advantage for several reasons.

1. EXPI-DOOR’s threshold is pre-notched at each end to fit around the door jamb’s soffit portion of the frame.
2. EXPI-DOOR’s threshold is pre-attached to each jamb, thus ensuring proper alignment of door w/in frame.
3. EXPI-DOOR’s threshold, because it is attached at the factory, assures strong reinforcement at the base of the frame, as opposed to older methods of securing the frame at the base temporarily.

Our pre-attachment process is far superior to the common process in place for some of our competitors, as well as being the standard for many years for “knock-down” door systems.

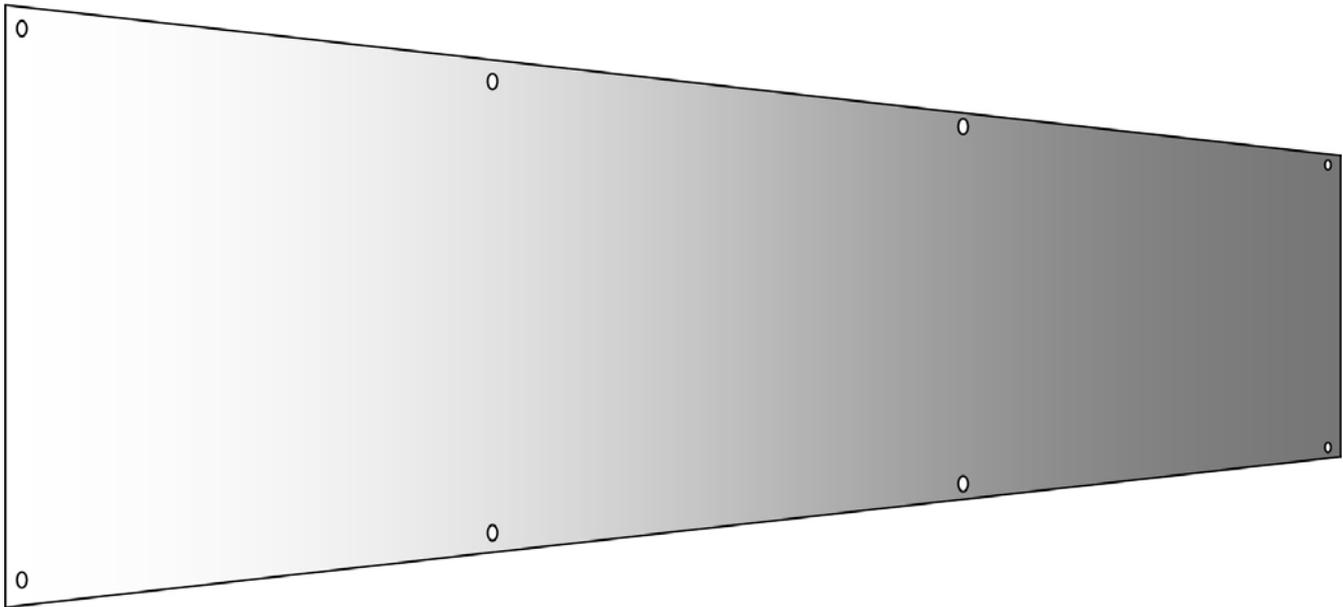
### Floor Anchors

1/4" Hole Size x 1-1/2" Embedment  
Actual Anchor: 1/4" x 2"



## KICK PLATE DETAILS

8" High x 2" Less Door Width (LDW) x 0.050" Thick  
Stainless Steel w/TEK Fasteners for Attachment

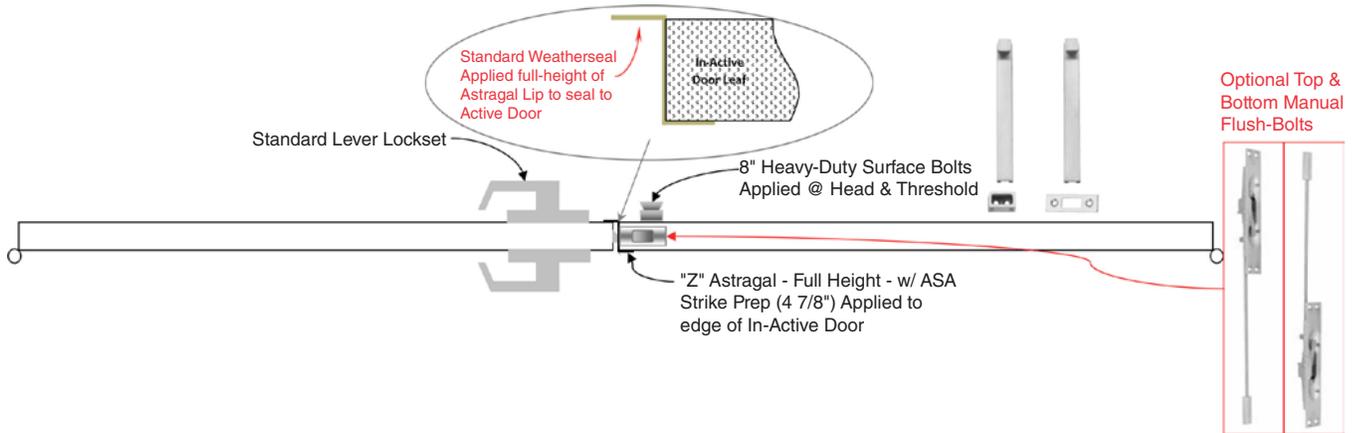


- ANSI A156.6
- Stainless steel material and US32D finish
- 0.050" Thick, 18 gauge

## DOUBLE DOOR DETAILS

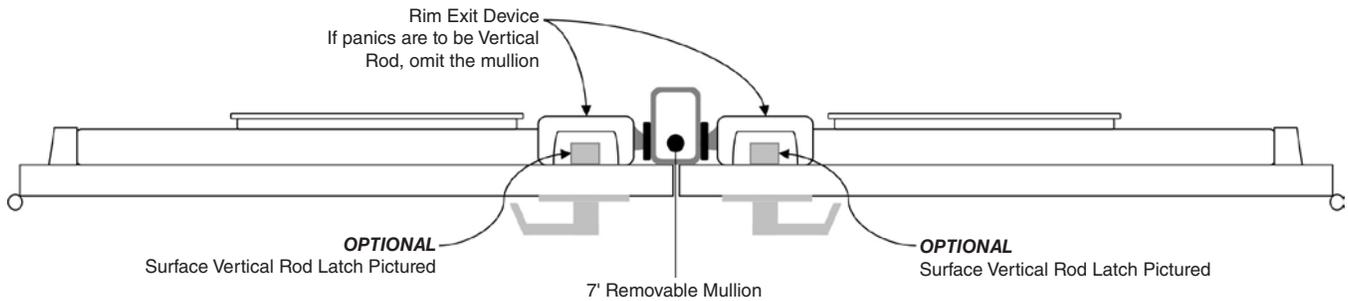
### Single Active Door System

- W/ surface bolts - EXPI Designation: 6070-1
- W/ flush bolts - EXPI Designation: 6070-1FB (extended leadtimes)



### Double Active Door System

EXPI Designation: 6070-2



### Seal Type @ Pairs w/ Rim Panics & Mullion

