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EXPI-DOOR® Systems Inc.

MEMBER OF THE BAY FAMILY OF COMPANIES

SERIES 400 WARRANTY

The Series 400™ door system by EXPI-DOOR® Systems, Inc. carries a two year warranty for defective product or workmanship, provided it is not a result of negligence, caused by damage while in transit, improper installation, or other damage caused by second parties. This warranty covers every component of the door system. No extended warranties from other manufacturers are offered for this door system.

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 given for disposition or defective products or material.

When returning product, documentation is required to identify the returned product with customer name, order number, purchase order number, job number or invoice number, etc. A copy of the original packing slip is the best document to send or refer to. 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(s) or will replace the component(s) 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 will void any warranty or possibility of warranty from EXPI-DOOR.

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's and receiver's 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 jobs progress, and EXPI-DOOR® Systems Inc. will do everything in its power to deliver new or replacement product ASAP but will need the receivers help to follow the above outline when freight comes in to their job site to allow it to go more smoothly.

SERIES 400 SPECIFICATIONS

A. INTRODUCTION:

- A.1.0 The following information pertains to EXPI-DOOR's SERIES 400™ Door System. We will discuss the specifics of both Pre-Assembled and Knock-Down Door Systems. We will also discuss all Door Hardware components.
- A.1.01 The Series 400 Door System, whether Pre-Assembled or Knock-Down shall contain the same door leaf and frame components.
- A.1.02 The Series 400 Door Series was created specifically to offer a cost-effective product for light-duty commercial applications. Physical performance: Level C according to ANSI A250.4.

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 The Series 400 Door System is not available with any non-standard upgrades or changes.
- B.1.02 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

- A. US26D NRP (Satin Chrome Plated)
- B. Made with two ball bearings and non-removable pin
- C. Steel with steel pin ANSI A8112
- D. Complies with NFPA80

D.1.02 Cylindrical Lever Lockset, Grade 2 Keyed Entrance function, thru-bolted

- A. ADA Compliant ANSI A117.1
- B. UL/cUL Listed 3 hours
- C. UL10 Positive pressure rated
- D. UL10B Neutral pressure rated
- E. Meets BHMA A156.2 test results
- F. Locksets are provided with conventional (non-IC) 6-pin Schlage "C" keyway and (2) cut keys.

D.1.03 Door Closer, Surface – Thru-Bolted, Parallel-Arm Type, (push side mounting)

- A. BHMA Certified ANSI A156.4, sizes 2-5 adjustable
- B. UL/cUL Listed for up to 3 hours
- C. UL10C Positive pressure rated
- D. UL10B Neutral pressure rated

D.1.04 Door Bottom Dual-Finger "U-Sweep"

- A. NGP 331 – Black, rigid polypropylene top with flexible TPV fins
- B. Certified by UL to CAN/ULC-S104 and ANSI/UL10B
- C. Positive pressure - certified by UL to ANSI/UL10C
- D. Smoke and draft control gasketing certified by UL to ANSI/UL10C and ANSI/UL1784 Category 'H'
- E. Air infiltration tested to ASTM E283

D.1.05 Perimeter Weather-Seal

- A. Certified by UL to CAN/ULC-S104 and ANSI/UL10B
- B. Air infiltration tested to ASTM E283
- C. Acoustical tested to ASTM E90
- D. Smoke and draft control gasketing certified by UL to ANSI/UL10C and ANSI/UL1784 Category 'H'

D.1.06 Aluminum Threshold

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

E. DOORS, FRAMES and SUBFRAME

E.1.01 Door Leaf, Referred to as Hollow Metal ASTM C518

- A. Physical performance: Level C ANSI A250.4
- B. Metal thickness: 20 gauge
- C. Steel: A40 Galvannealed
- D. Paint: EXPI-DOOR White or EXPI-DOOR Antique Bronze, baked-on, applied per ANSI A250.10
- E. Polystyrene Core
 - 1. U-Factor: 0.41 per ASTM C1363; 0.14 per ASTM C518
 - 2. R-Value: 2.44 per ASTM C1363; 7.03 per ASTM C518, conforming to ASTM C578 and a minimum R-value of 7.03
- F. Physical performance: Level C according to ANSI A250.4
 - 1. Top & bottom of door: minimum 16 gauge steel inverted bottom channel and top flush top channel, projection welded. Provide weep-hole openings in bottom of exterior doors to allow moisture to escape
 - 2. Bottom channel shall be left open to accept the provided U-sweep
 - 3. Square-edge galvannealed door (non-handed): full flush lock seam on edge construction not filled
 - 4. Cylindrical lockset reinforcement only offered. Back-set shall be 2-3/4" and is not adjustable. Mortise locks and mortise panic devices are not offered for this door system
 - 5. 4-1/2" reversible convertible hinge (0.134) regular shim plate. 10 gauge reinforcement
 - 6. ****OPTIONAL Offering**** Thru-bolted Rim Panic (Exit Device) Hardware can be used. Exit device uses current cylindrical lock preparation in door leaf

E.1.02 Door Frames, Referred to as Hollow Metal ("HM"):

- A. Physical performance: Level B according to ANSI A250.4
- B. Metal thickness: 18 gauge
- C. Steel: A40 Galvannealed
- D. Paint: EXPI-DOOR White or EXPI-DOOR Antique Bronze, baked-on, applied per ANSI A250.10
- E. Construction
 - 1. Corner Connection:
 - a. Pre-assembled frames shall have mitered corners lock together with miter reinforcement tab back welded
 - b. Knock-down frames shall have mitered corners with fastener connections on each jamb, at each corner. Once the header is joined to the top of each jamb, a fastener is driven in from the top of the header into the pre-tapped holes and tabs on the reverse-side of each face, on each corner of the frame. Fasteners provided by EXPI- DOOR
 - 2. 5-7/8" frame, equal rabbet, 2" face (standard offering)
 - a. Header
 - b. Strike jamb to have 4-7/8" standard A.S.A. preparation, 16 gauge strike reinforcement projection welded with dust cover
 - c. Hinge jamb with three 4-1/2" hinge reinforcement plates minimum of 10 gauge in profile projection welded
- F. Attachment of A.D.A. Threshold
 - 1. EXPI-DOOR pre-fastens our threshold on pre-assembled units. Fasteners are run through pre-drilled holes at the bottom of the jambs. Fasteners mate up with "flutes" milled into the base of the thresholds. Concrete sleeve anchors are provided for attachment to concrete floor. Anchors shall measure 1/4" diameter x 2" length
 - 2. For the Knock-Down system, threshold sent loose and fasteners provided to assemble threshold through pre-drilled holes at the bottom of the jambs. Fasteners mate up with "flutes" milled into the base of the thresholds. Concrete sleeve anchors are provided for attachment to concrete floor. Anchors shall measure 1/4" diameter x 2" length

E.1.03 Door System (Frame) Anchorage Options

- A. C-Channel Sub-Frame system for Girt-Wall installation
 - 1. Steel: A40 Galvannealed
 - 2. Sub-Frame gauge shall be 16 gauge
 - 3. Sub-Frame width (depth) required for each door
- B. Actual anchor points components
 - 1. Top Anchor Clips, or GIRT clips, shall be manufactured from 12 gauge galvannealed steel and shall include all necessary fasteners both to attach to sub-frames and for attachment to girt
 - 2. Bottom Anchor Clips, or BASE clips, shall be manufactured from 12 gauge galvannealed steel and shall include all necessary fasteners both to attach to sub-frames and for attachment to the concrete floor

C. Existing Opening Anchoring (framed opening by others - omit subframes)

1. Jambs are pressed with hole size 3/8" or 1/4" on the soffit at four locations per jamb
2. Hat-Jamb Anchor tac-welded to the throat of each jamb, behind each jamb press
3. This installation is typically for knock-down door system applications where C-channel sub-frames (framed openings) are not necessary, or the metal building manufacturer is supplying their own framed openings
4. EXPI-DOOR will provide the appropriate anchor or fastener for installation with this method
5. 4" header profiles not available for normal block wall applications

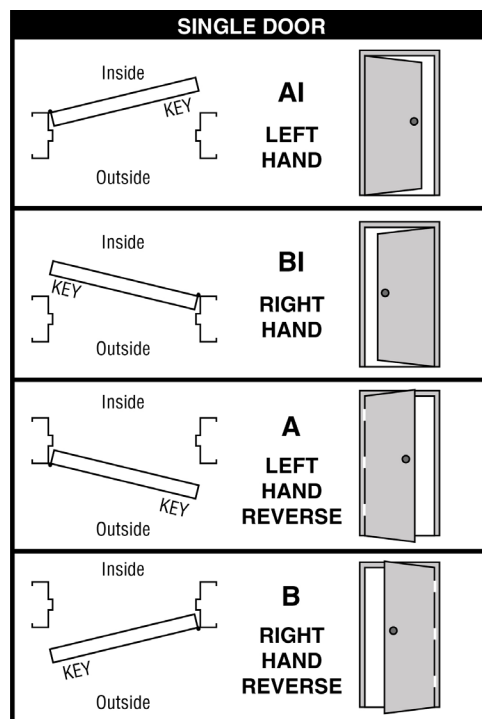
D. Universal Stud Anchoring

1. Four anchors per jamb, tac-welded at pre-determined increments by EXPI-DOOR
2. Flanges of anchor wrap around then fasten to wood stud, wood post or steel stud. Fasteners to attach to steel stud or wood stud supplied by others

F. DOOR SWING (HANDING) DESIGNATIONS:

F.101. EXPI-DOOR Swing [Handing] Chart:

A. Standard Out-Swing and Inward Swinging Door Identification



Description Key: Swing Types

Single Door "AI" Swing (LH) Exterior Door
 Single Door "AI" Swing (LH) Interior Door
 Single Door "A" Swing (LHR)

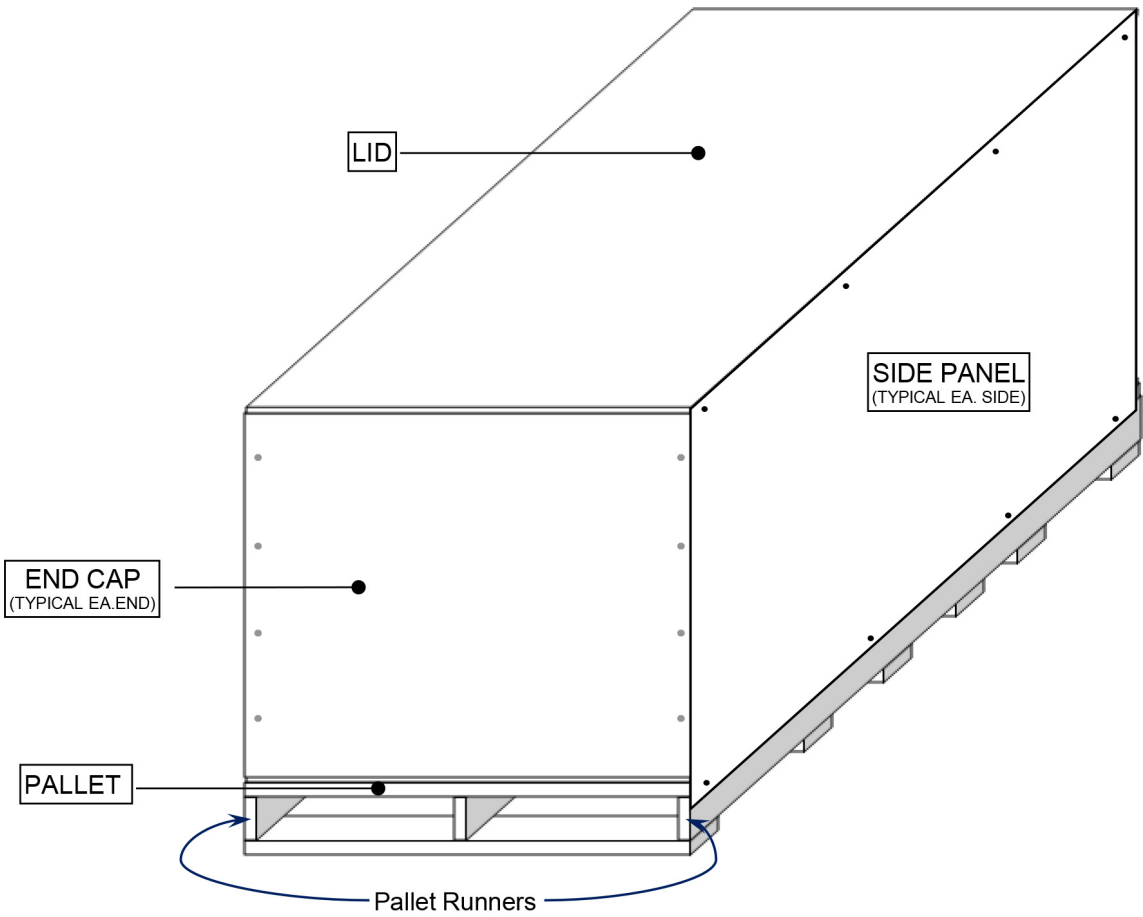
Single Door "BI" Swing (RH) Exterior Door
 Single Door "BI" Swing (RH) Interior Door
 Single Door "B" Swing (RHR)

Above noted "Interior door" will have threshold and weather-strip unless specified something different.

Above noted "Exterior door" will have spreader bar with bumper threshold (shipped loose), drip sweep, concealed sweep, stick on weather-strip and aluminum weather-strip.

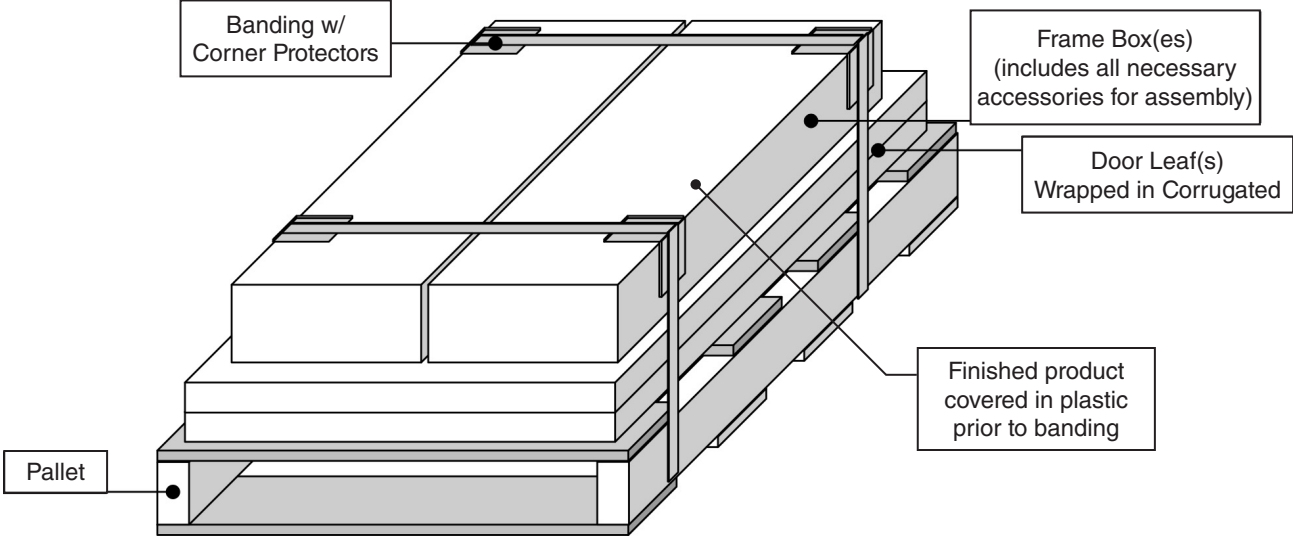
PACKAGING DETAILS - PRE-ASSEMBLED DOORS

Single door loaded on a 4'x8' pallet, and fastened down through C-channel sub-frame to 1-3/4" outer runner of pallet. Each door is then stacked and fastened to the door below through C-channel sub-frame with self drill 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".

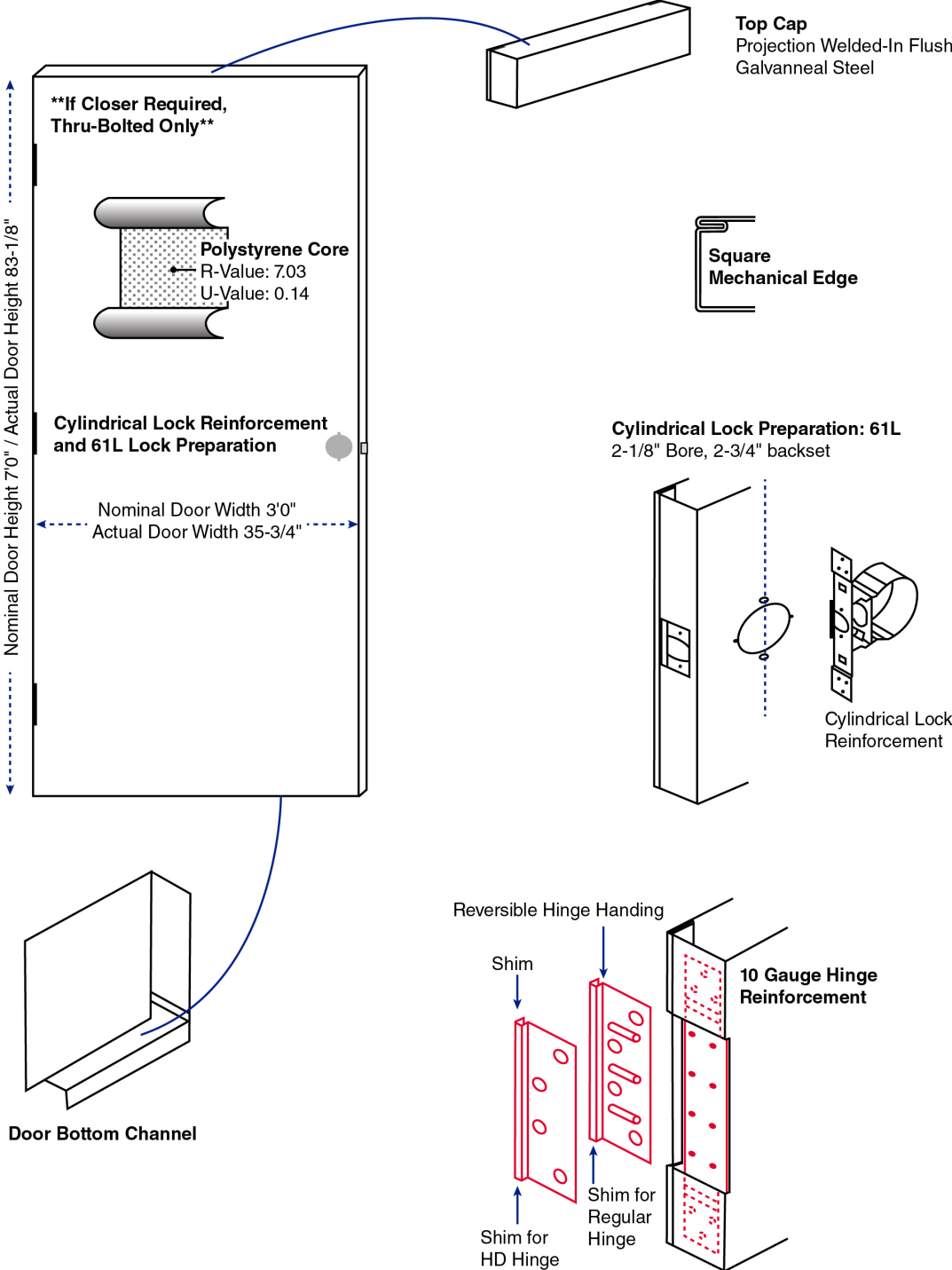


Doors that do not receive subframes, such as Masonry Anchor Doors or Stud Wall Anchor Doors, shall be set on appropriate blocking between each door to create appropriate space between lockset and door leaf of the door above. Sides, ends, and top are all covered with OSB or plywood for a completely boxed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

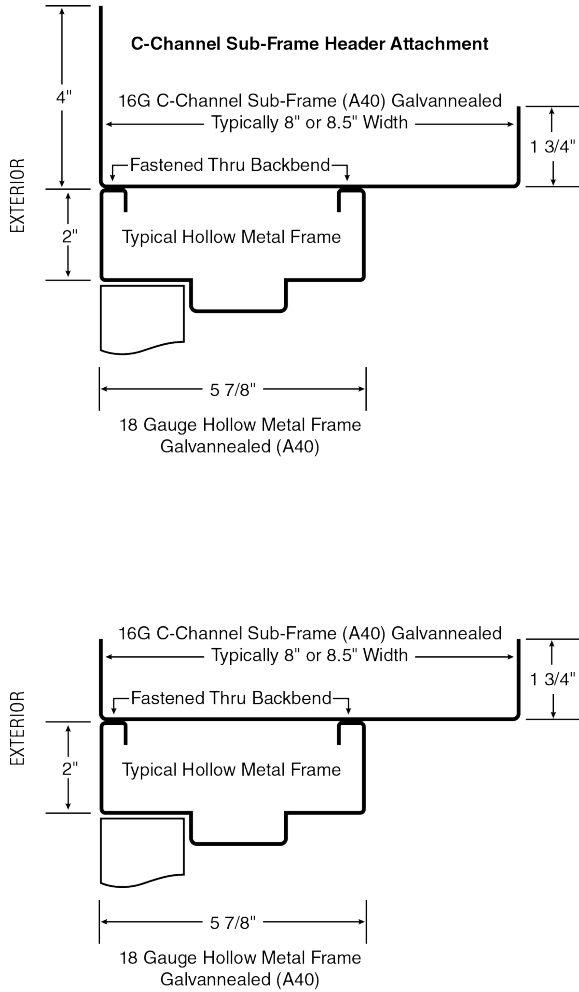
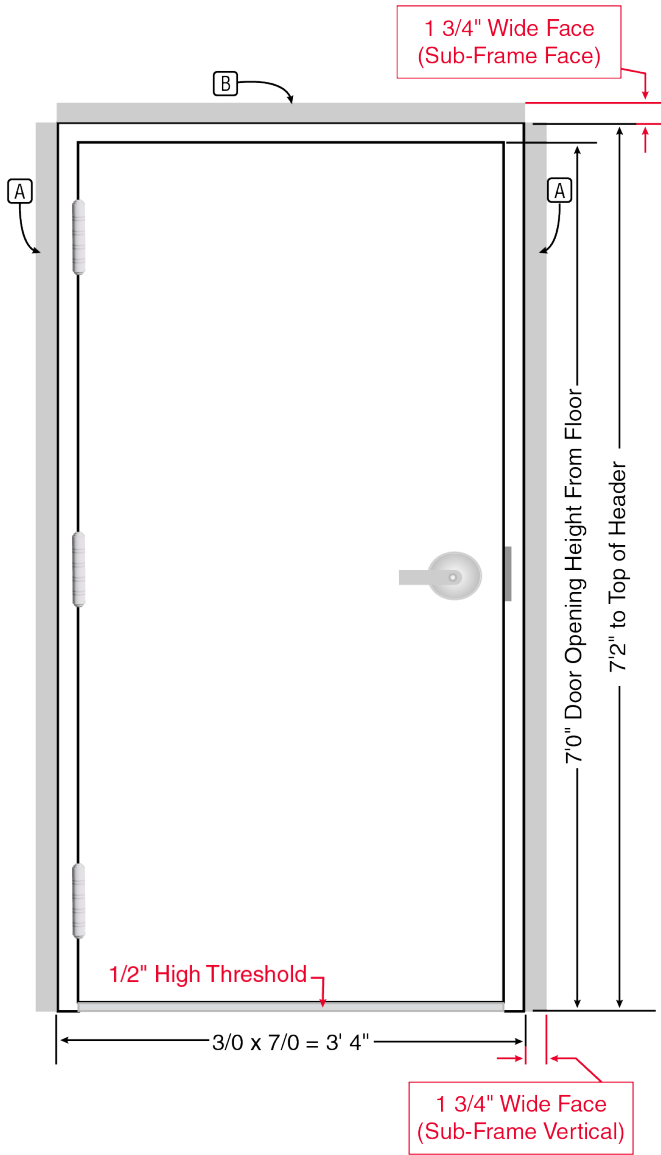
PACKAGING DETAILS - KNOCK-DOWN DOORS



DOOR LEAF DETAILS - CORE & PREPS



STANDARD DOOR FRAME DETAILS AND SUB-FRAME ATTACHMENT

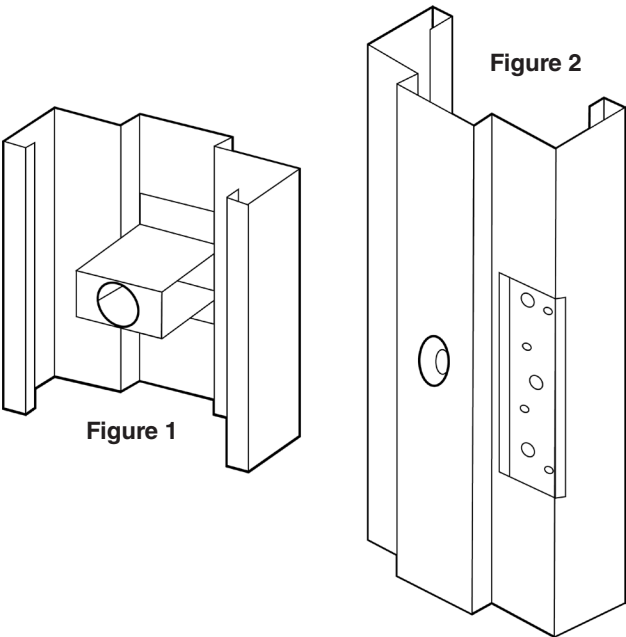


Brief Description:
 A. Vertical C-Channel Sub-Frame System QTY 2
 B. Header C-Channel Sub-Frame System QTY 1

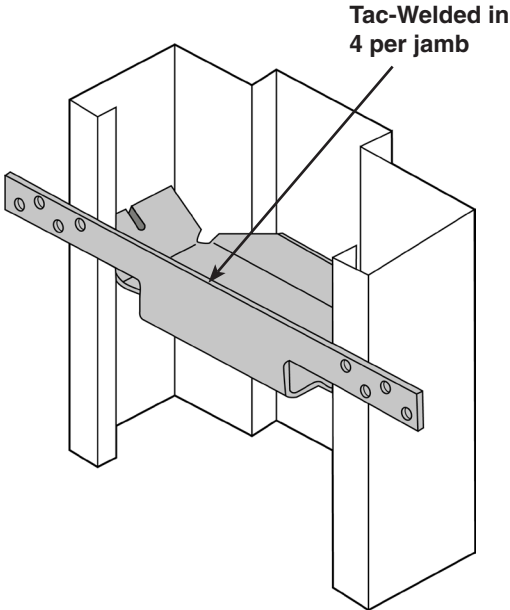
ADDITIONAL ANCHORING OPTIONS

Existing Opening Application (EOA)

- “Hat Spacer” welded into Throat (figure 1)
- Pierce & Dimple Jamb Soffit face (figure 2)



Stud Wall Application (unfinished wall)



Universal Stud Anchor



Hanger Bolt

(for new or existing steel framed opening install)



Wood Anchor Screw

(for new or existing wood post or stud framed opening install)



Self-Drilling/Tapping Anchor Screw

(for new or existing steel C-channel or steel stud framed opening install)



Expandable Concrete Sleeve Anchor

(for new or existing poured or block concrete opening install)

- For use in NEW Stud Wall with Sheet-Rock application
- Anchors provided welded-in; three anchors per jamb.
- Flanges wrap stud, then fasten to studs (wood or steel)
- Sheetrock slips in behind jamb, between stud and back-bends of jambs.

(Consult SDI Installation Details or inquire with EXPI-DOOR)

STANDARD CYLINDRICAL LEVER-LOCK DETAILS - GRADE 2

Grade 2 Entry Lever

Included in Standard EXPI-DOOR Package



DESCRIPTION:

- US26D Satin Chromium finish
- 1/2" throw, stainless steel deadlocking latchbolt
- Heavy gauge steel, zinc dichromated for corrosion resistance
- Non-clutching Levers
- Entry function standard (other functions available, special-order)

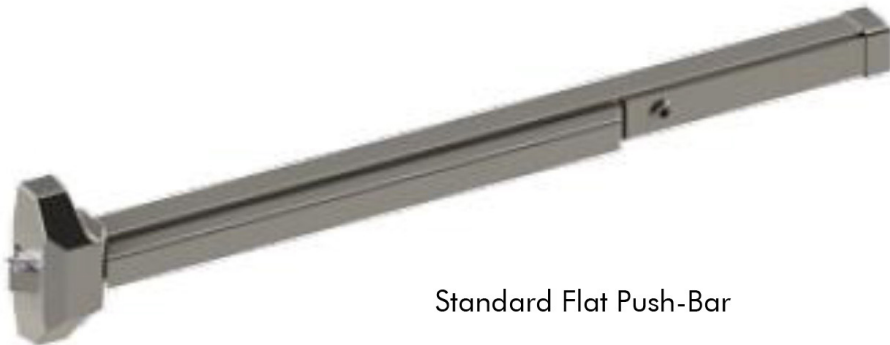
CERTIFICATIONS:

- Meets BHMA A156.2 test standards
- Life-Safety rated for quick egress in emergency
- UL10B & UL10C fire-rated
- ADA Compliant, ANSI A117.1 Accessibility Code

5 Year Limited Warranty

EXIT DEVICE (PANIC HARDWARE) DETAILS

Grade 1 Exit Device (Panic Hardware) with Key-In-Lever Trim



Standard Flat Push-Bar



Standard Key-In-Lever
Cylindrical Type Trim
US28 Finish (689)
Hager's ALM Finish



DESCRIPTION:

- Standard-duty commercial application, Grade 1
- Push-Bar and Lever both required to be thru-bolted
- 5/8" (16mm) throw, pullman type with automatic dead-latching, stainless steel
- Stainless steel roller-strike, surface-applied to jamb soffit - adjustable
- Hex key dogging standard
- "ALM" (Aluminum) powder-coat finish

LEVER DESCRIPTION:

- Standard-duty commercial application, Grade 1
- 6-Pin Schlage "C" Keyway Standard with (2) brass cut keys
- Meets ADA, Life-Safety, Fire and Windstorm requirements

CERTIFICATIONS:

- Meets ANSI A156.3 Grade 1 Requirements
- UL305 Listed for panic hardware
- UL/cUL Listed for up to 3 hours for "A" labeled doors
- UL10C Positive pressure rated
- UL10B Neutral pressure rated
- Warnock Hersey listed for up to 3 hours with fire-rated removable mullion
- Complies with ADA ANSI 117.1 for accessible buildings and facilities

5 Year Warranty from Manufacturer

LATCHGUARD DETAILS

Stainless Steel Latchguard 3" x 11"

Installed on Door Thru-Bolted

12 gauge steel, stainless steel US32D
Non-handed

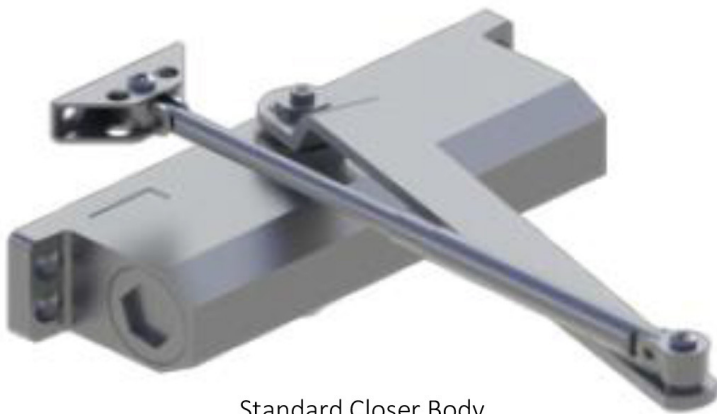


LATCHGUARD FOR
CYLINDRICAL (BORED)
LOCKSETS



SPECIALTY CARRIAGE
SEX NUT/BOLT W/ ALLEN
DRIVERS

GRADE 2 DOOR CONTROL - CLOSER



Standard Closer Body
with Standard Arm



Standard Parallel-Arm
Soffit Bracket



DESCRIPTION:

- ANSI/BHMA 689 Aluminum powder coated finish
- Ideal for light-duty commercial applications
- Thru-bolted to door leaf
- Adjustable latching and sweep speeds
- Staked valves (prevents closer from leaking fluid)
- Aluminum alloy construction
- Precision machined, heat treated steel piston

CERTIFICATIONS:

- BHMA Certified ANSI A156.4, sizes 2-5 adjustable
- UL/cUL Listed for up to 3 hours
- UL10C Positive pressure rated
- UL10B Neutral pressure rated

5 Year Manufacturer Warranty

STANDARD HINGE DETAILS

Hager ECBB1100

1 1/2 pair (3 total) per door

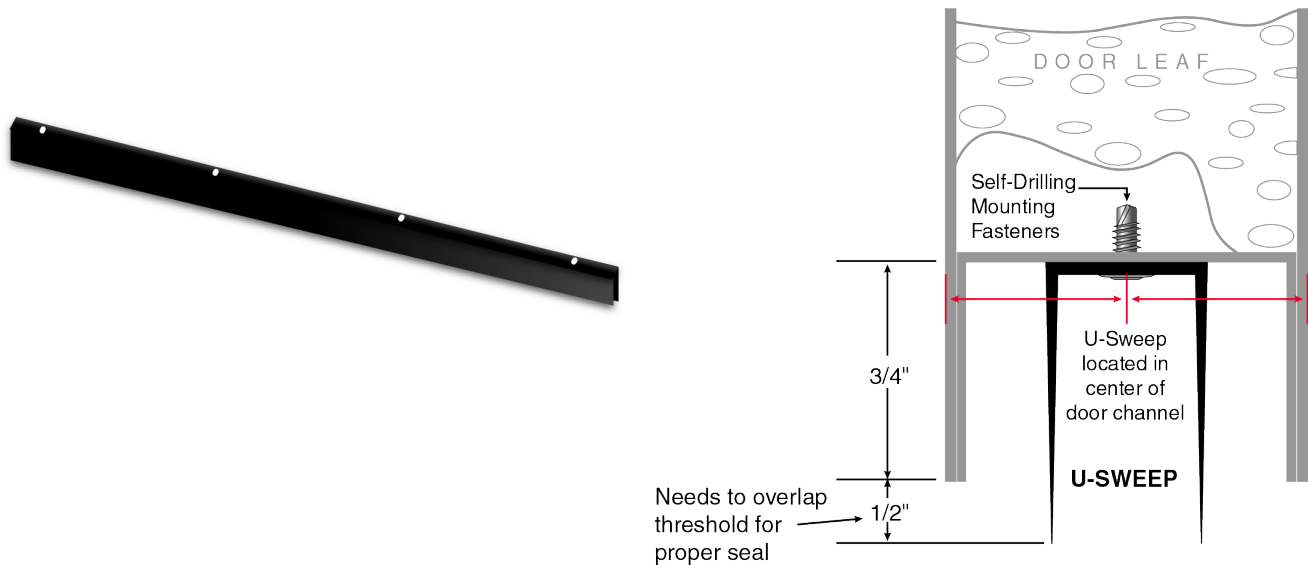


Hager Hinge Co. Model# ECBB1100

- ANSI A8112
- US26D
- Steel with steel pin
- (4) matching fasteners for frame, (4) for door leaf
- Complies with NFPA80 fire-rating for doors
- 4-1/2" x 4-1/2" (114mm x 114mm)
- Full mortise, 5-knuckle, ball bearing, standard weight
- Non-rising removable pin
- Two ball bearings

2 Year Limited Warranty

STANDARD U-SWEEP



DESCRIPTION:

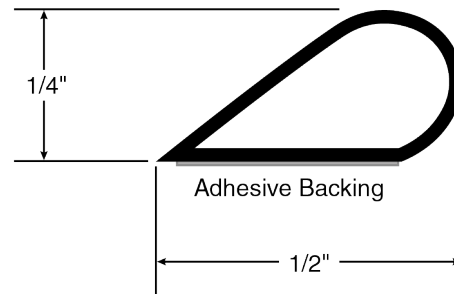
- DUAL-FINGER Door Shoe, NGP #331 (or equal)
- Rigid black polypropylene top with flexible TPV fins
- Designed for hollow metal doors with inverted bottom channel
- Installs at center-line of door leaf (as pictured)

CERTIFICATIONS:

- Certified by UL to CAN/ULC-S104 and ANSI/UL10B
- Positive pressure certified by UL to ANSI/UL10C
- NFPA 80 & 252 positive pressure
- CAN/ULC-S104 and ANSI/UL10B: 90 minute fire resistant
- ANSI/BHMA A156.22 Gasketing and Edge Seal Systems

PERIMETER WEATHER STRIPPING

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

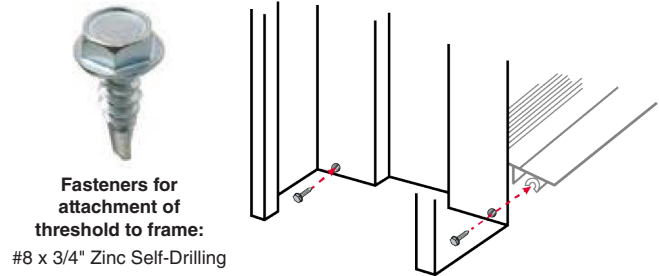
CERTIFICATIONS:

- 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

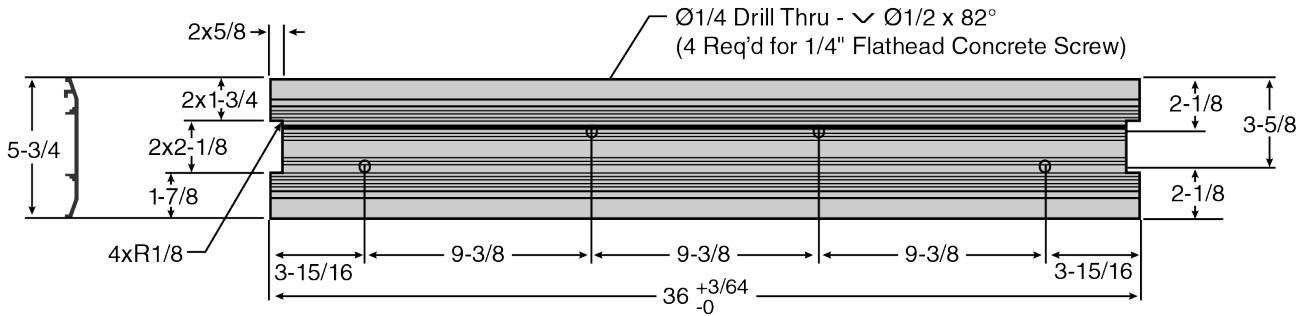
All thresholds shall be fastened to the base of each jamb on the interior door side rabbet and the exterior door side rabbet directly into threshold “flutes” located on the underside of the threshold. These flutes run the entire length of each threshold. Thresholds shall be 5-3/4" wide and U-notched.

 **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"

