

SECTION 6

Glass Storefront Doors:

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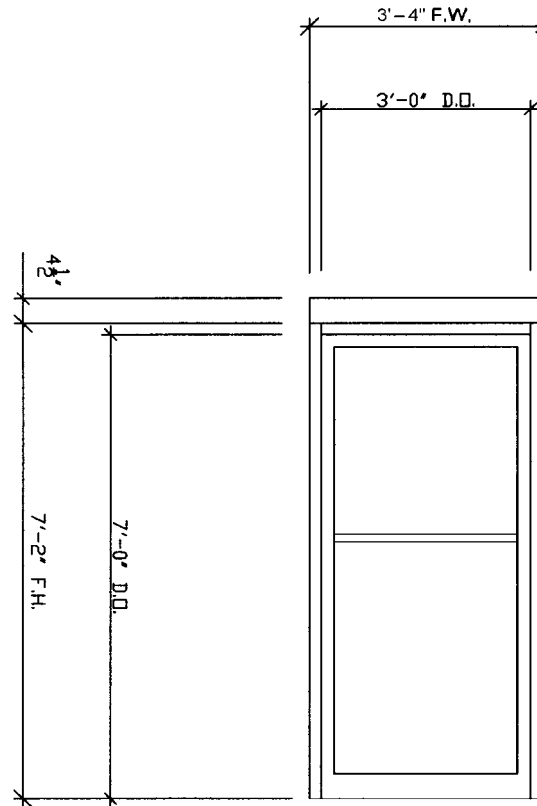
Closer

Concealed Vertical Rod Panic Device

Installation Instructions (with Subframe)

Specifications

**PDL Building Products
3070 Standard Pre-assembled Storefront System**



3070 Standard Pre-assembled Storefronts Include The Following Components:

Vistawall Parts Included:

- 212 Narrow Stile Door
- 3000 Series Frame 2" x 4 1/2"
- Adams Rite 1850-A-505 Lock
- CY-1 Cylinder
- PH-10 Pull Handle
- PH-11 Push Bar
- Standard Offset Pivot Assembly
- Standard 1/2" x 4" Threshold

PDL Assembly Included:

Glazing Options:

- Glass Shall Either be 1" Insulated or 1/4" Tempered
- Clear or Tinted Glass in Either Option is Available
- Glazing Stop Sections shall have a .050" Wall Thickness
- All Units shall be Dry Glazed with Extruded Pressure Fitting Aluminum Glazing Stops and Rubber Gasket

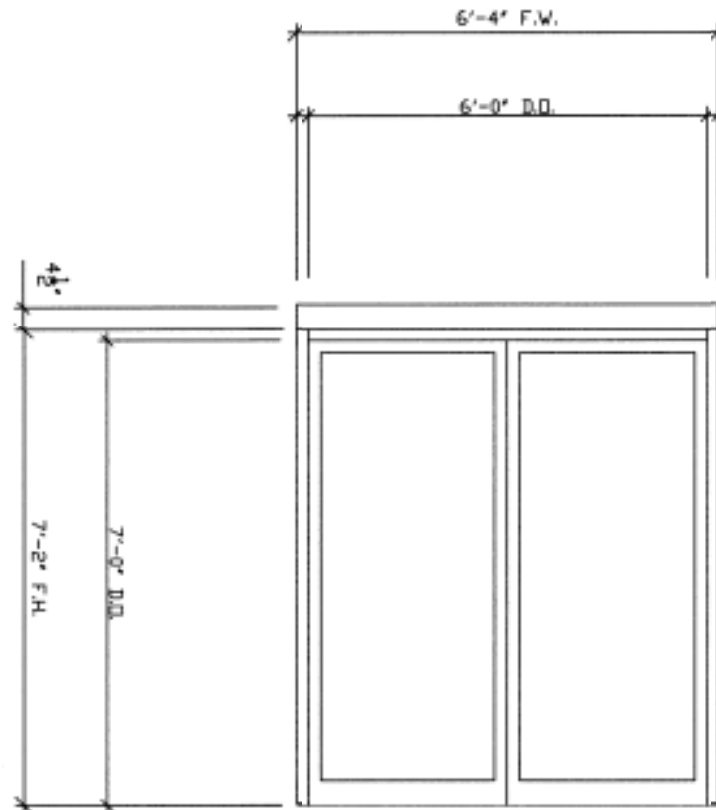
Hardware:

- Dorma 7400 Series Closer – Grade 1 with Standard Duty Parallel Arm
- Door Sweep with Drip Cap

Packaging:

- The Entire Door Order is Packaged in a Heavy Duty Wooden Crate that has been Adapted for Fork Lift Handling
- All Fasteners and Anchors Included for Complete Installation

**PDL Building Products
6070 Standard Pre-assembled Storefront System**



6070 Standard Pre-assembled Storefronts Include The Following Components:

Vistawall Parts Included:

- 212 Narrow Stile Door
- 3000 Series Frame 2" x 4 ½"
- Adams Rite 1850-A-505 Lock
- CY-1 Cylinder
- PH-10 Pull Handle
- PH-11 Push Bar
- Standard Offset Pivot Assembly
- Standard ½" x 4" Threshold

PDL Assembly Included:

Glazing Options:

- Glass Shall Either be 1" Insulated or ¼" Tempered
- Clear or Tinted Glass in Either Option is Available
- Glazing Stop Sections shall have a .050" Wall Thickness
- All Units shall be Dry Glazed with Extruded Pressure Fitting Aluminum Glazing Stops and Rubber Gasket

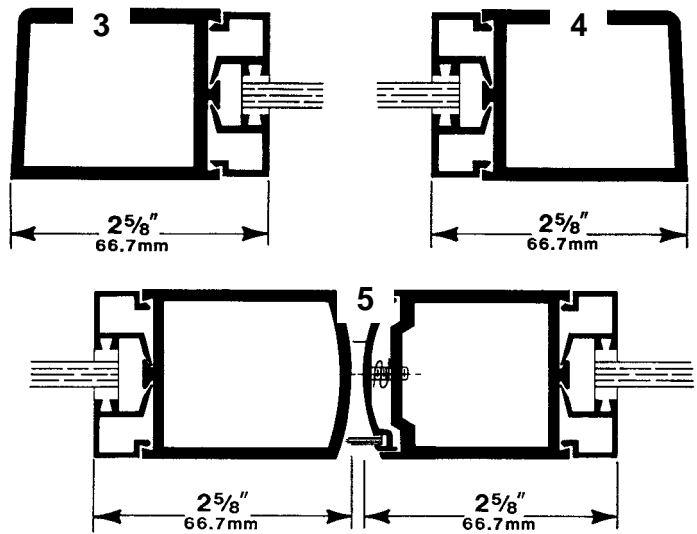
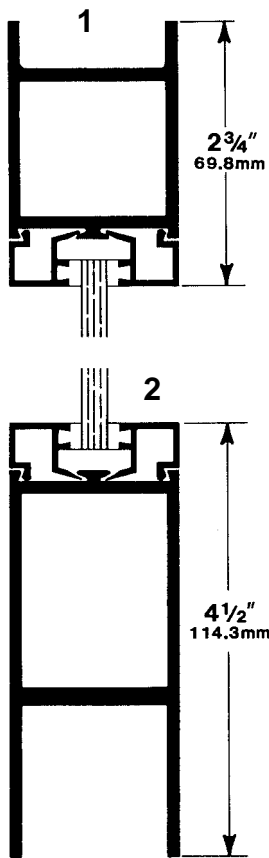
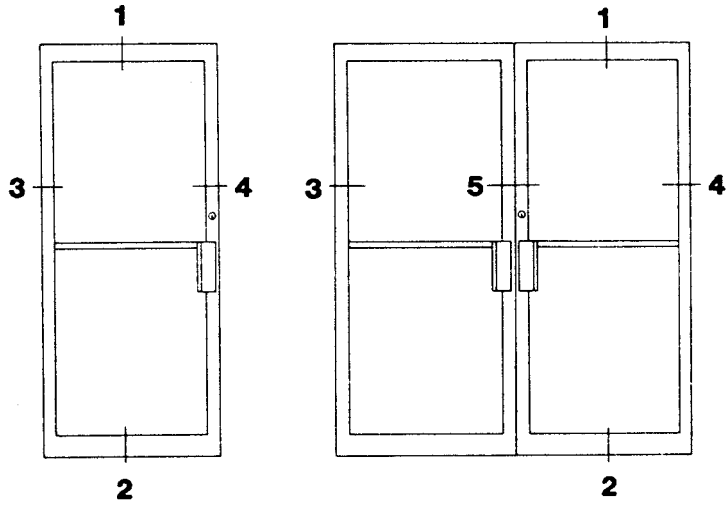
Hardware:

- (2) – Dorma 7400 Series Closers – Grade 1 with Standard Duty Parallel Arm
- (2) – Door Sweeps with Drip Cap

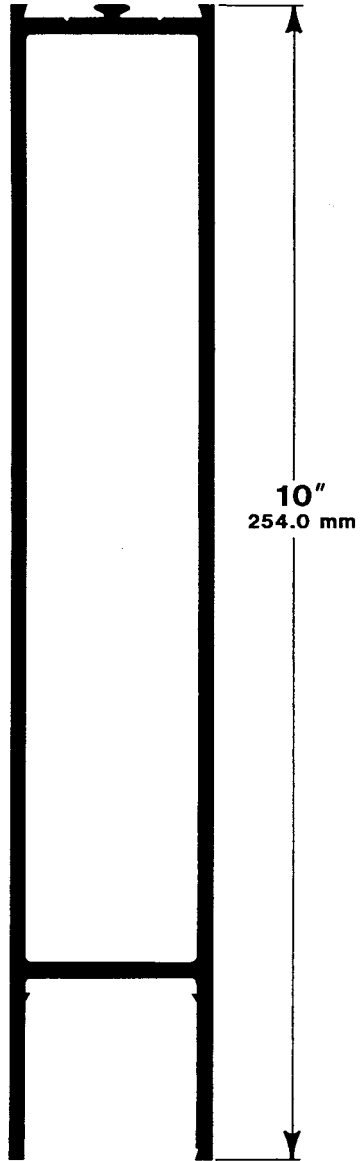
Packaging:

- The Entire Door Order is Packaged in a Heavy Duty Wooden Crate that has been Adapted for Fork Lift Handling
- All Fasteners and Anchors Included for Complete Installation

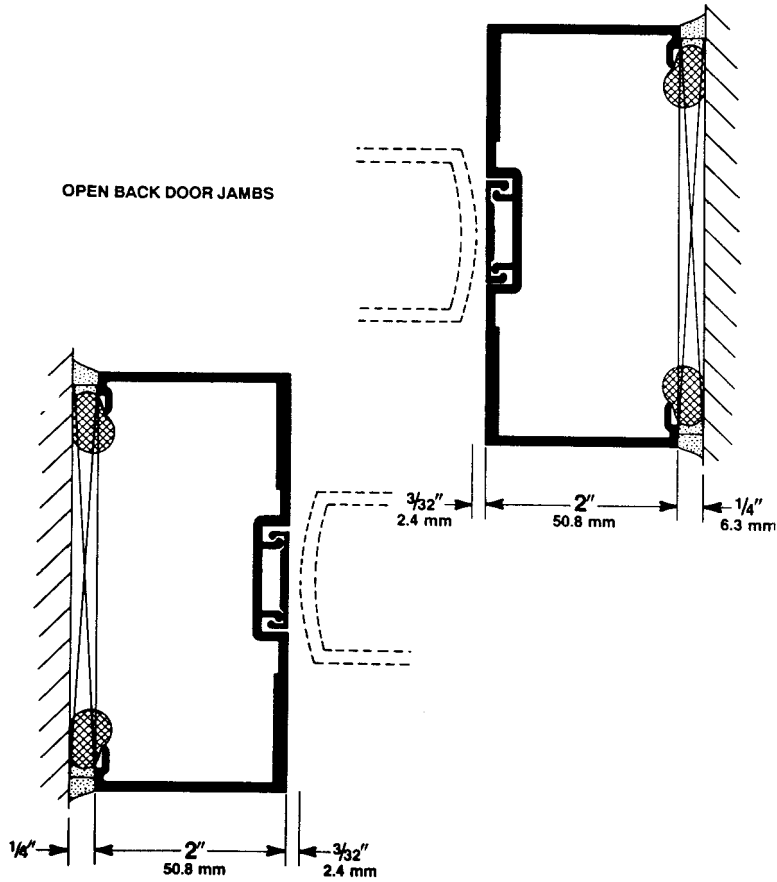
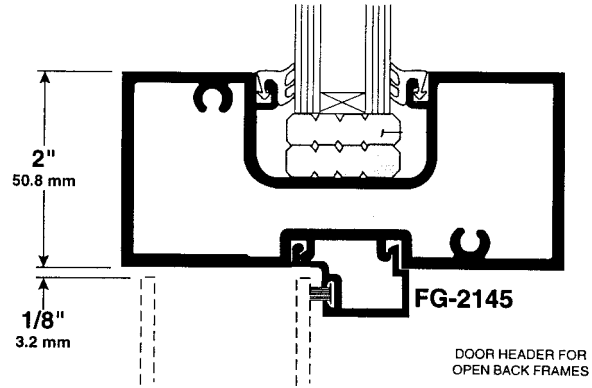
Storefront Leaf Details



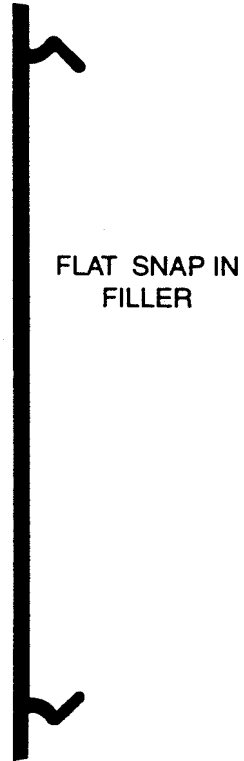
Optional 10" Bottom Rail



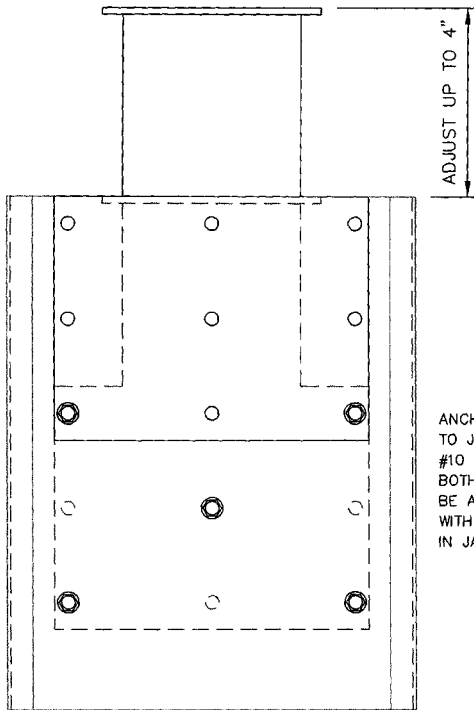
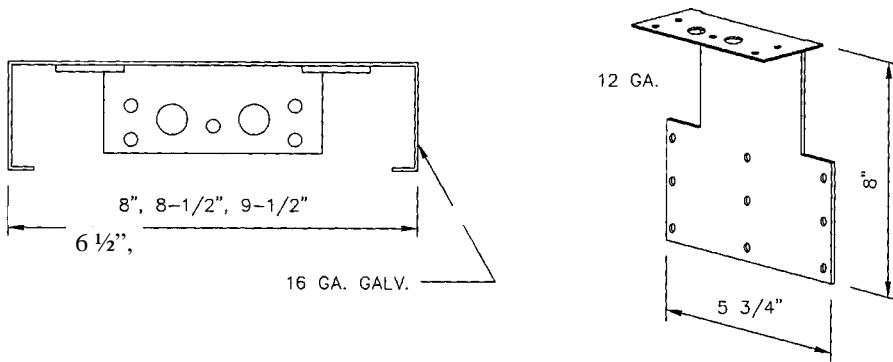
Storefront Frame Detail



Optional Open Back Filler



Subjamb (Framed Opening) Detail



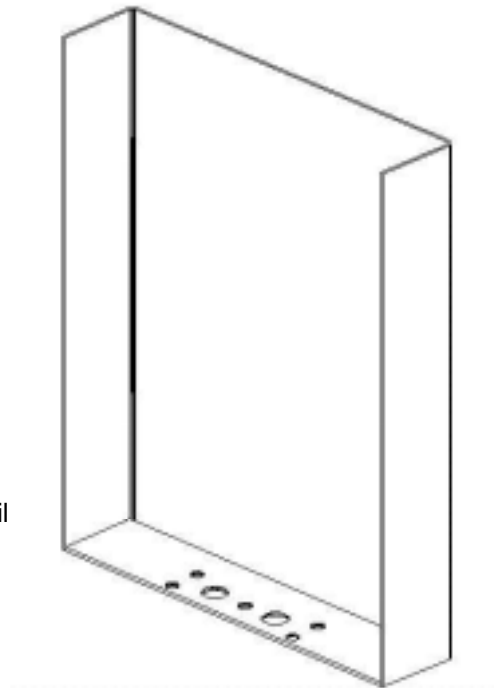
ANCHORS SCREWED
TO JAMB WITH
#10 1-1/4" TEK SCREWS.
BOTH ANCHORS SHOULD
BE ATTACHED FLUSH
WITH ENDS AND CENTERED
IN JAMB PRIOR TO SHIPPING.

Adjustable "L" Bracket
Anchor Detail
(Located at Top of
Subjamb)

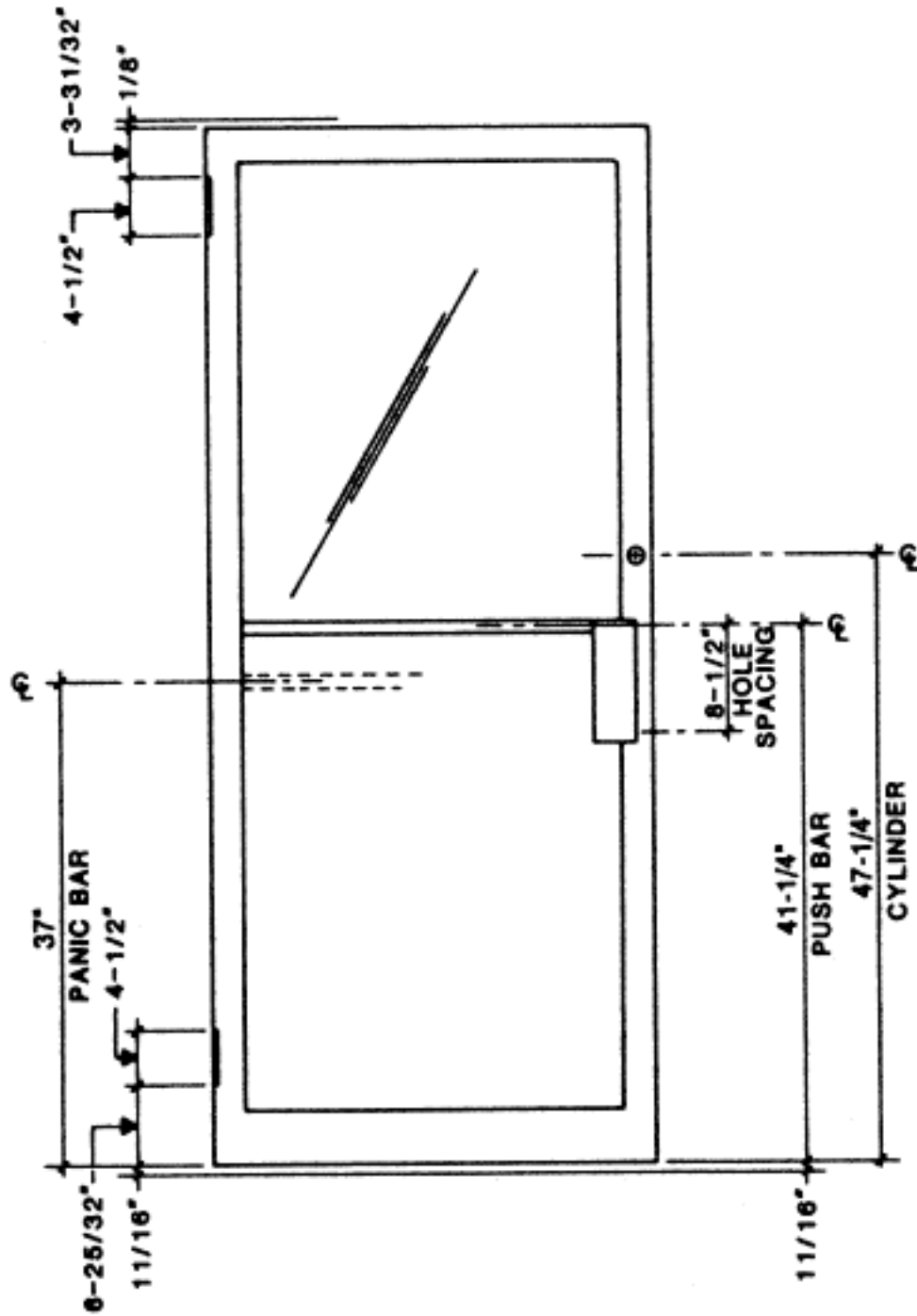
16 Gauge Galvanized Subjamb

Standard Sizes
(To Match Girt Depth)
6-1/2", 8", 8-1/2", 9-1/2"

Bottom Anchor Detail
(Part of Subjamb)

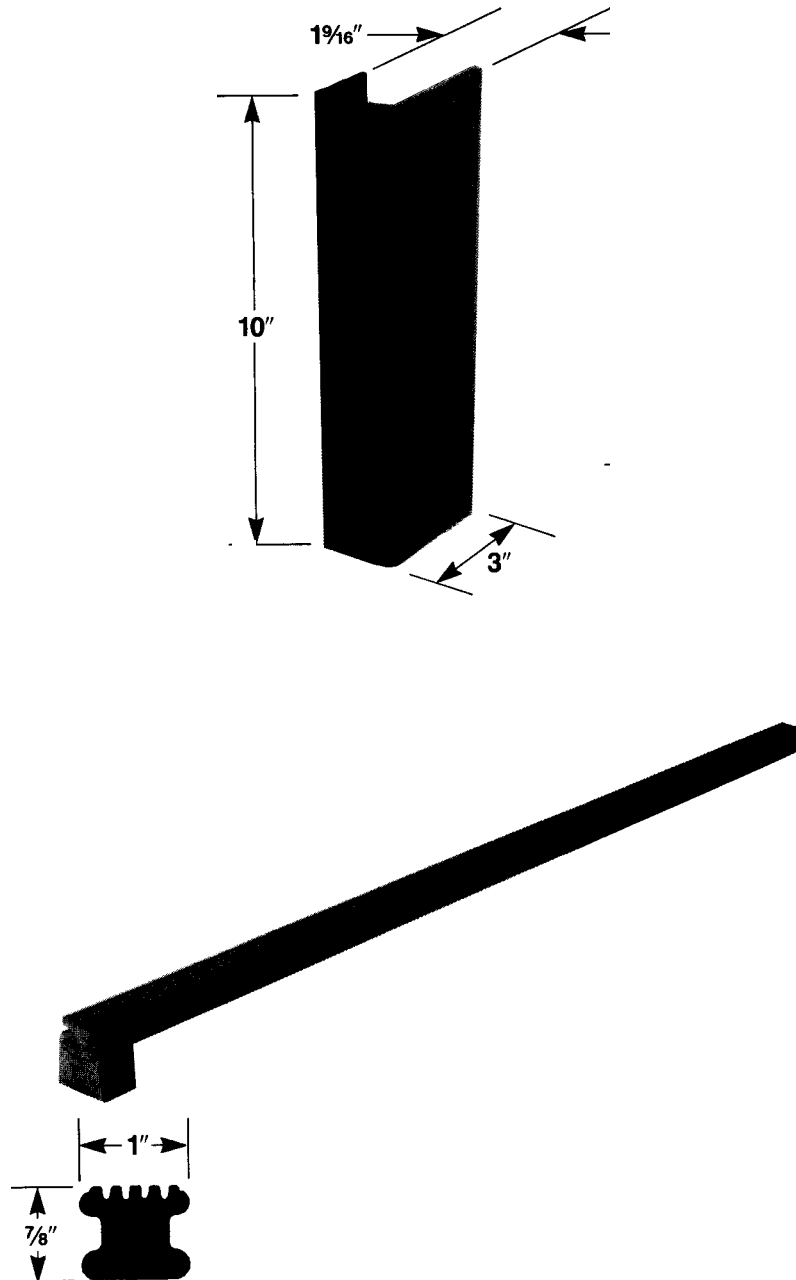


Standard Hardware Locations

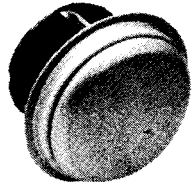


Storefront Push/Pull Hardware

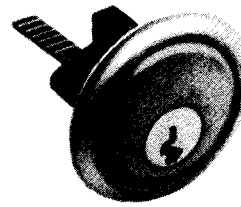
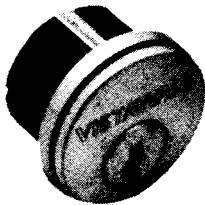
Material: extruded aluminum



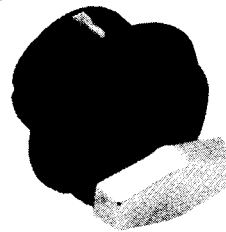
Storefront Cylinders



Standard Cylinder



Optional Thumbturn Cylinder



Storefront Pivot Hinges

The bottom door portion, produced from cast aluminum, uses steel ball bearing hinges with bronze bushing that rotates on steel machined stud. The top portion secures the door in place with a spring loaded steel pin which projects into a bronze bushing.



Storefront Weatherseal

Characteristics: Extruded aluminum, surface applied



Dorma 7400 Series Closer – Grade 1 Heavy Duty

Certification: Listed by U.L. and C.U.L. under their reinspection programs. Meets the requirements for UL10C and UBC 7.2 (1997) for positive pressure.

Specification: All heavy-duty closers shall be hydraulic surface applied rack and pinion closers. The closer has two independent valves to separately control sweep and latch closing speeds and provide constant speeds when temperatures change. Standard with backcheck to provide cushioning effect in opening.

Standard placement allows opening to 110°, closer allows maximum opening to 180°. When ordering, must specify degree of opening if other than to a maximum of 110°.

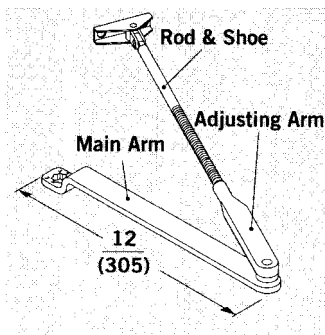
Finish: Sprayed aluminum (689)/AL

Warranty: 25 years



Standard Duty Arm Features:

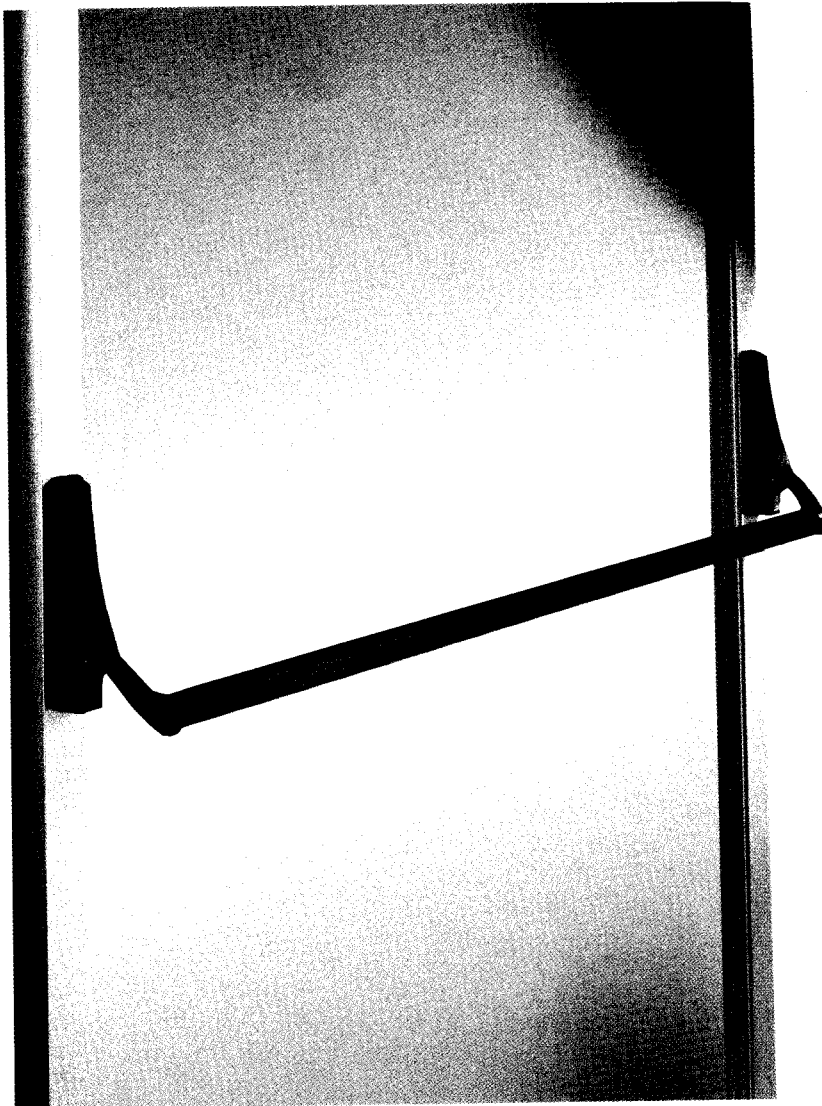
Parallel arm, backcheck



Storefront Concealed Vertical Rod Panic

Features:

Concealed mounting screws, U.L. Listed 305, exterior cylinder dogging, interior silencers for quiet operation



Hex Bottom Rod



RL Bottom Latch



Pullman Bottom Latch



Top Latch



PRE-ASSEMBLED GLASS STORE-FRONT DOOR INSTALLATION GUIDE

General Pre-Installation Note

DO NOT UNLOCK the door until the unit is completely installed. The locked door panel will help aid in keeping the door/frame square during the installation process. Unlocking the door prior to completion of the installation may result in operation problems of the door.

KEYS, ANCHORS, FASTENERS & INSTRUCTIONS for this door are located in the envelope that is attached to the door frame or closer.

FOR A 6070 please install the additional mounting clip to the head of the frame prior to setting the unit in place. To install, align the smaller surface of the clip with the pilot holes that are located on top of the frame head and attach with the fasteners provided. This will provide additional support for the frame head. FAILURE TO INSTALL THIS MOUNTING CLIP may cause the frame head to sag and lead to operational problems of the unit.

Installation Steps

1. After uncrating the door, position it under the girt with the outside edge of the subframing flush with the outside edge of the girt.
2. PLUMB AND SQUARE DOOR UNIT. Check the gap between the top of the door panel and header. There MUST be an even reveal.
3. When the door is plumb, back out the screws holding the top jamb clips and slide clips up against the bottom of the wall girt. Attach clips to wall girt using the self-drilling screws provided. Reattach the clips to the subframe (framed opening).
4. Anchor the base clips to the floor with the (4) anchor bolts provided.
5. Remove the screws holding the door leaf shut and check for proper operation.
6. Anchor threshold to floor with the (3) anchors provided. Caulk or grout under the threshold.

PRE-ASSEMBLED GLASS STORE-FRONT DOOR SPECIFICATIONS

Door & Frame Material

All aluminum components shall be extruded and are a 6063-T5 alloy and temper. All exposed fasteners shall be either aluminum or stainless steel. Major portions of the door sections shall have a .125" wall thickness. Door stiles shall be no less than 2 1/8" wide (not including glass stops). Door stiles and rails shall have hairline joints at corners. Heavy concealed reinforcement brackets shall be secured with screws and shall be deep penetration and fillet welded.

All doors shall have an adjusting mechanism in the top rail to provide for minor clearance adjustments. Weatherstripping shall be wool pile and shall be installed in one stile of pairs of doors and in jamb stiles of center pivoted doors. Doorstops shall include wool pile weatherstripping.

Glazing

The glass shall either be 1" insulated tempered or 1/4" tempered monolithic.

Glazing stop sections shall have a .050" wall thickness. All units shall be dry glazed with extruded pressure fitting aluminum glazing stops and rubber gasket.

Anodized Finish

All exposed areas shall be finished with a Class 1 electrolytically deposited color either in clear anodized or dark bronze anodized.

Subframing

The SUBFRAMING creates a framed opening and consists of two galvanized steel, 16 gauge C-channels that matches the girt depth for the building. They are factory installed and can be prepared to meet most any application (curbs, wainscot).

Standard Hardware & Components

The THRESHOLD is factory installed, is 4" wide and is extruded aluminum. It is saddle shaped and does not exceed 1/2" in height which meets ADA requirements. The finish is mill.

The HINGES are a pair of "offset pivots" and are composed of cast aluminum. There is an oilite bronze bushing in the top frame portion. The spring-loaded pin in the top door



portion is case hardened. The bottom door portion utilizes a full race ball bearing. There is a case hardened stud in the floor/jamb portion that has a 1/8" vertical adjustment. This is a handed pivot set. The finish is either baked satin aluminum paint or baked storefront bronze paint.

The MORTISE LOCK CYLINDER is 1-5/32" in diameter and has five pins. It is furnished with a standard 3/16" cylinder ring and comes with a standard MS type cam. The standard cylinder is key operated from the outside. The cylinder face is in either anodized satin aluminum or bronze. The core face and key have a US26D finish.

The PUSH/PULL set is factory installed. The pull handle is 10" high x 3" wide and projects 1-9/16" from the face of the door. The push bar is 33" wide and 1" wide and projects 1" from the face of the door. The handle set is secured to the door with hex bolts and thru bolts. Fasteners are concealed, where possible. The finish is clear or bronze anodize.

The CLOSER is surface mounted and is a grade 1. It has adjustments for the closing and latch speeds as well as an adjustment for the backcheck. It comes in a dark duranodic bronze sprayed finish.

A standard pair of doors (6070) will include a top and bottom FLUSH BOLT in the inactive door leaf. This will provide two-point locking for that leaf in addition to the active leaf, which also locks into the inactive leaf. This flush bolt utilizes a positive U-joint actuator with a 5/8" throw. The top of the bolt has a square nylon tip with beveled corners that fits into a 1/2" square hole. The finish is either baked satin aluminum paint or baked storefront bronze paint.

All of the FASTENERS required for the installation of the pre-assembled door are included. The fasteners included are (4) 1/2" x 2 1/4" hex head sleeve anchors, (3) 1/4" x 2" flat head sleeve anchors and (18) #10 x 1" hex head tek screws.

Packaging

The entire door system is packaged in a heavy-duty wooden crate that has been adapted for forklift handling. A bubble packet on the door includes keys for the mortise lock cylinder, all fasteners required for installation and information on the closer.

Conformance Standards

With the door closed and locked, the unit has been tested in accordance with ASTM E 283 at a static air pressure difference of 1.57 psf. Air infiltration shall not exceed .50 cfm per foot of perimeter crack length for single doors.