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GENERAL INFORMATION

INTRODUCTION

This Technical Data Manual is designed as a support and informational tool for Mesker Door™ Products used by Architects, Distributors, Specification Consultants / Writers and Engineers.

Mesker Door™ is the oldest hollow metal door and frame manufacturer in America. In fact, we invented the hollow metal door over 145 years ago. Visit <http://www.oldestmetaldoor.com> for more information and a detailed timeline on our company history.

If you want superior quality and great value, you've come to the right place. At Mesker Door™, our uncompromising dedication to value is backed by an international network of distributors and exceptional customer service that makes us the choice of contractors and architects throughout the world.

With the best in class fit and finish, our doors and frames are the most rugged and durable in the commercial construction industry. We frequently exceed architectural design specifications as well as the specifications of the Steel Door Institute (SDI), of which we're the oldest member.

Our mantra is simple. We cut metal, not corners. We bend steel, not rules. And we shine as the oldest hollow metal door and frame fabricator in America.

LITERATURE

Standards referenced in this Technical Manual can be obtained directly from the publisher of that literature. Refer to the organization listed below to obtain more information on the standards published.

ANSI	American National Standards Institute	www.ansi.org
ASTM	American Society for Testing and Materials	www.astm.org
CSI	Construction Specifications Institute	www.csinet.org
DHI	Door and Hardware Institute	www.dhi.org
NFPA	National Fire Protection Association	www.nfpa.org
SDI	Steel Door Institute	www.steeldoor.org
UL	Underwriters Laboratories, Inc.	www.ul.com
WH	Warnock Hersey (Intertek)	www.intertek.com
FM	FM Global	www.fmglobal.com

ERRORS AND OMISSIONS

Every effort has been made to ensure the completeness and accuracy of the Mesker Door™ Technical Manual. The data sheets will be updated whenever it is deemed necessary, as new products are introduced, new tests are completed and new technologies are developed. For these reasons and because of the nature and scope of the subject, Mesker Door™ and its employees can assume no responsibility or liability for the absolute accuracy of the material contained herein or its use. The information in this Technical Manual is subject to change without notice.

Please contact the Mesker Door™ Customer Service Department at www.meskerdoor.com if you identify any errors or omissions.

GENERAL INFORMATION

DOOR LEVELS AND MODELS

Standard steel doors are classified in four levels: Level 1—1 3/4" standard duty, Level 2 1 3/4" heavy duty, Level 3—1 3/4" extra heavy duty and Level 4—1 3/4" maximum duty.

Each of the four levels noted above offer a range of construction models and designs to meet architectural requirements for preference and appearance. The standard steel door construction models are full flush or full flush with seamless edge.

Recommended minimum gauge requirements for the various levels and models of standard steel doors are indicated in the table below.

Selection of standard steel doors for general usage is made by analyzing criteria such as frequency of use, including subjection to and degree of possible abuse. Other criteria to be considered in door selection are: conformance to local building codes and fire code regulations; sound attenuation and/or insulation requirements; and architectural design and appearance.

The suggested door levels and model chart below is a reference aid matching standard duty, heavy duty and maximum duty doors with general usage requirements within the classification of buildings. Where optional door levels and models are indicated, further analysis on an individual job basis is recommended.

Level		Model	Full Flush or Seamless			Construction	Mesker Series
			MSG No.	IP in	SI mm		
1	Standard Duty	1	20	0.032	0.8	Full Flush	N Series
		2				Seamless	NVS Series
2	Heavy Duty	1	18	0.042	1	Full Flush	N Series
		2				Seamless	NVS Series
3	Extra Heavy Duty	1	16	0.053	1.3	Full Flush	N Series
		2				Seamless	NVS Series
4	Maximum Duty	1	14	0.067	1.6	Full Flush	N Series
		2				Seamless	NVS Series

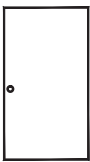
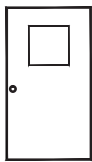
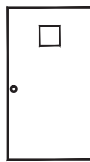
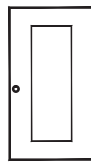
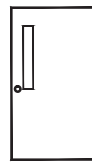
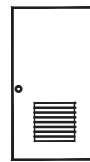
This chart and chart on page G-3 taken from SDI-108, Recommended selection and usage guide for standard steel doors.



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SUGGESTED USAGE GUIDE

Building Types	Standard Steel Door Levels				Door Design Nomenclature					
	Level 1 Standard Duty 1-3/4"	Level 2 Heavy Duty 1-3/4"	Level 3 Extra Heavy Duty 1-3/4"	Level 4 Maximum Duty 1-3/4"						
Apartment										
Main Entrance		X	X		X	X		X	X	
Unit Entrance	X	X	X		X					
Bedroom	X				X					
Bathroom	X				X					X
Closet	X				X					X
Stairwell		X	X				X		X	
Dormitory										
Main Entrance		X	X	X		X		X	X	
Unit Entrance	X	X			X					
Bedroom	X	X			X					
Bathroom	X	X			X					X
Closet	X	X			X					X
Stairwell		X	X				X		X	
Hotel - Motel										
Main Entrance	X	X			X					
Bathroom	X				X					
Closet	X				X					X
Stairwell		X	X				X		X	
Storage/Utility		X	X		X					X
Hospital - Nursing Home										
Main Entrance			X			X		X	X	
Patient Room		X			X					
Stairwell		X	X				X		X	
Operating/Exam		X	X		X					
Bathroom		X	X		X					X
Closet	X	X			X					X
Recreation		X			X		X			
Kitchen		X	X				X			
Industrial										
Entrance/Exit			X	X		X		X	X	
Office	X	X			X	X				
Production			X			X				
Toilet		X	X		X					X
Tool			X	X	X					
Trucking			X	X		X				
Monorail			X	X	X	X				
Office										
Entrance	X		X			X		X	X	
Individual Office	X				X	X				
Closet					X					X
Toilet		X	X		X					
Stairwell		X	X				X		X	
Equipment		X	X		X					
Boiler		X	X		X					X
School										
Entrance/Exit			X	X		X		X	X	
Classroom		X				X			X	
Toilet		X	X		X					X
Gymnasium			X	X	X	X	X			
Cafeteria		X	X			X				
Stairwell		X	X				X		X	
Closet	X	X	X	X	X					X

Note: This is only a guide.

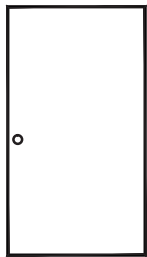
Compliance with the local and national codes is the responsibility of the specifier.



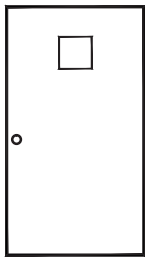
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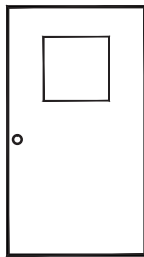
DOOR STYLES



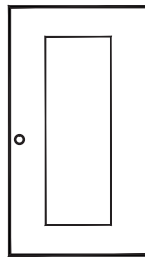
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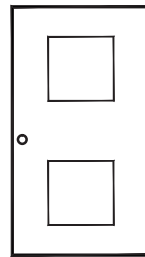
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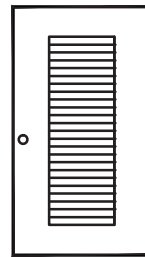
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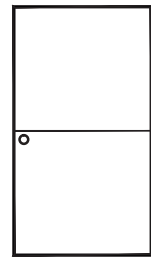
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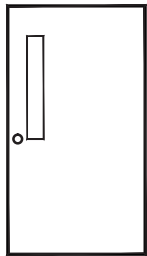
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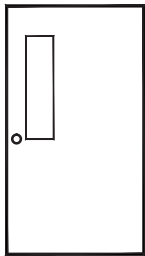
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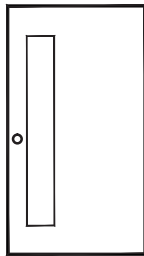
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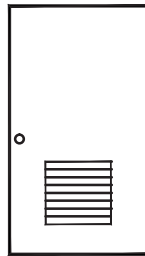
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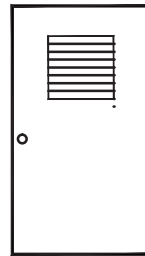
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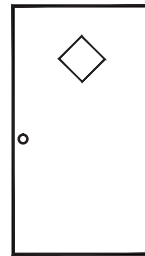
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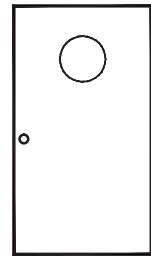
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M



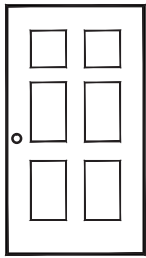
R

NOMENCLATURE FOR DOOR STYLES

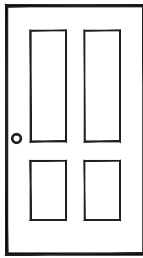
F	FLUSH	N6	5"x60" EXPOSED GLASS
V	VISION LITE	L	LOUVERED
G	HALF GLASS	LT	LOUVERED TOP
FG	FULL GLASS	M	DIAMOND LITE
G2	TWO EQUAL LITES	R	ROUND LITE
FL	FULL LOUVER		
D	DUTCH		
N1	3"x33" EXPOSED GLASS		
N3	5"x20" EXPOSED GLASS		



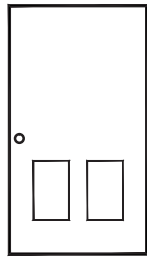
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GENERAL INFORMATION**DOOR STYLES**

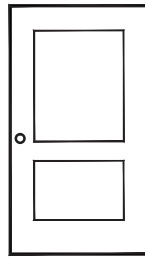
SP SERIES



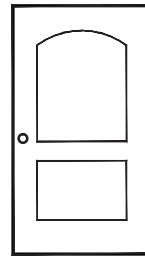
P4 SERIES



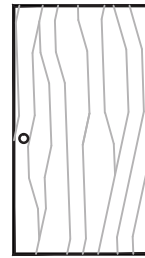
P2B SERIES



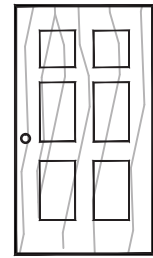
P2S SERIES



P2A SERIES



NW SERIES



SPW SERIES

NOMENCLATURE FOR DOOR STYLES

SP	6 PANEL
P4	4 PANEL W/LONG TOP
P2B	2 PANEL BOTTOM
P2S	2 PANEL W/ SQUARE TOP
P2A	2 PANEL W/ARCH TOP
NW	FLUSH WOOD GRAIN
SPW	6 PANEL WOOD GRAIN

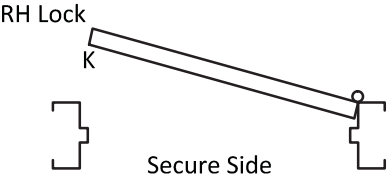
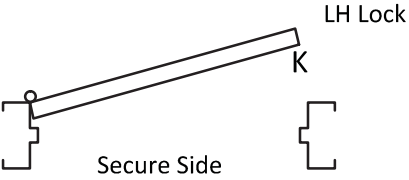
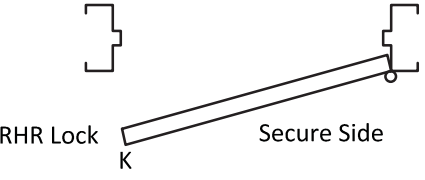
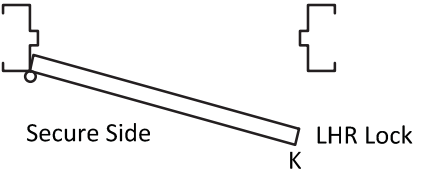
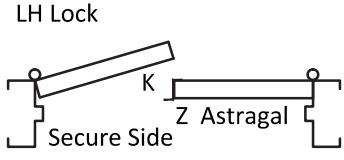
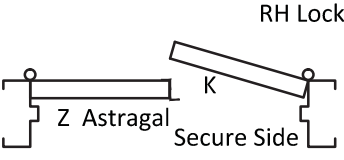
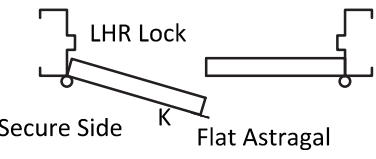
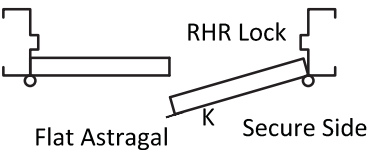
* Other panel options available for orders of 100 doors or more.
Please consult with the factory for details.

GENERAL INFORMATION

HANDING

To determine the hand of a door, view the door from the Secure Side (the side the hinges are on is the hand of the door).

- If the door swings away from the viewer, the hand is regular hand, i.e., right or left hand.
- If the door swings to the viewer, the door is reverse swing, i.e., right hand reverse swing or left hand reverse swing.

<p>Right Hand Door (swing in) Right Hand Frame</p> 	<p>Left Hand Door (swing in) Left Hand Frame</p> 
<p>Right Hand Reverse Door (swing out) Left Hand Frame</p> 	<p>Left Hand Reverse Door (swing out) Right Hand Frame</p> 
<p>Pair of Doors - LH Active (swing in) Double Door Frame - LH Active</p> 	<p>Pair of Doors - RH Active (swing in) Double Door Frame - RH Active</p> 
<p>Pair of Doors - LHR Active (swing out) Double Door Frame - RH Active</p> 	<p>Pair of Doors - RHR Active (swing out) Double Door Frame - LH Active</p> 



GENERAL INFORMATION**METAL GAUGES**

This document is for reference to the common gauges of steel frequently used in the Steel Door Industry.

Manufacturers no longer order sheet and coil to a specific gauge, but rather to a minimum decimal thickness. This thickness is the lowest of the range for a specific gauge. The steel supplier is therefore permitted to exceed, but not be less than the specific decimal thickness. These minimum values meet the stringent requirements of both Underwriters Laboratories Inc. and ITS / Warnock Hersey. Examples of minimum allowable steel thickness are listed below.

For zinc coated (galvannealed) steel sheets, the coating thickness only slightly increases steel thickness. One ounce of zinc per square foot corresponds to an average thickness of 0.0017" (total of both sides). A60 material has an average coating thickness of 1 mil (0.001") or .0005" per side which is 50% greater protection than A40 coating.

Gauge, Minimum - Uncoated Flat Rolled Steel

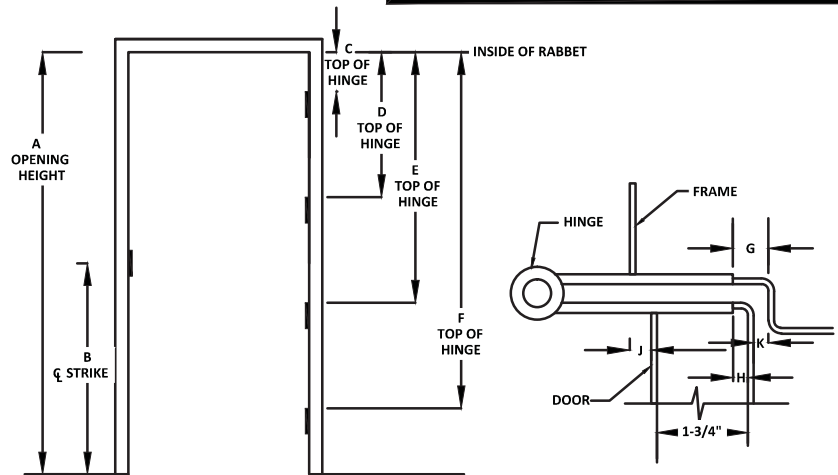
Level	Model	Minimum Thickness		MSG No. ⁽¹⁾
		Inches	mm	
1	1	0.032	0.8	20
	2	0.032	0.8	20
2	1	0.042	1.0	18
	2	0.042	1.0	18
3	1	0.053	1.3	16
	2	0.053	1.3	16
	3			16
4	1	0.067	1.7	14
	2	0.067	1.7	14

This chart is taken from SDI – A250.8.



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GENERAL INFORMATION

COMPARISON FOR FRAMES
4-1/2" HINGE

Manufacturer	A	B	C	D	E	F	G	H	J	K
	Height	Strike	1st Hinge	2nd Hinge	3rd Hinge	4th Hinge				
AMWELD	6'-8"	40-5/16"	7-1/2"	37-7/16"	67-3/8"	X	5/16"	3/16"	1/16"	1/8"
	7'-0"			39-7/16"	71-3/8"	X				
	7'-2"			39-7/16"	71-3/8"	X				
	7'-10"			32-13/16"	58-1/8"	83-7/16"				
	8'-0"			32-13/16"	58-1/8"	83-7/16"				

BENCHMARK	6'-8"	40-5/16"	5"	35-1/4"	65-1/2"	X	11/32"	1/4"	1/8"	3/32"
	7'-0"			37-1/4"	69-1/2"	X				
	7'-2"			37-1/4"	69-1/2"	X				
	7'-10"			29-1/8"	53-1/4"	77-3/8"				
	8'-0"			30-1/2"	56"	81-1/2"				

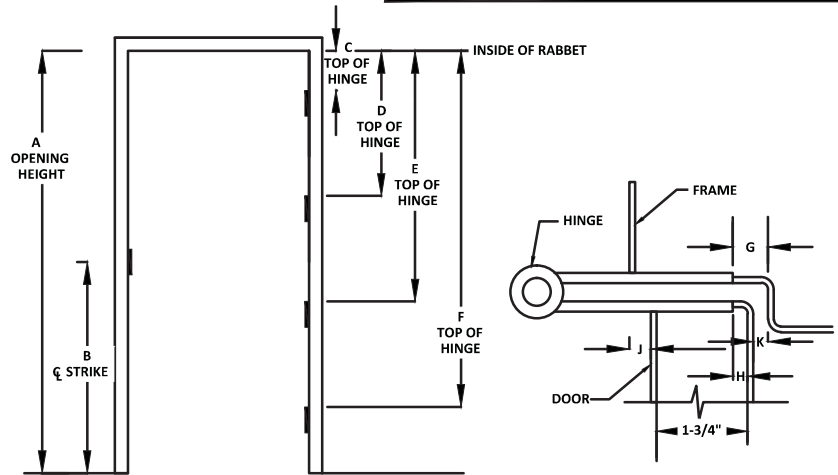
CECO	6'-8"	41-13/16"	6-3/4"	37-3/4"	68-3/4"	X	5/16"	1/4"	1/8"	1/16"
	7'-0"			39-3/4"	72-3/4"	X				
	7'-2"			40-3/4"	74-3/4"	X				
	7'-10"			32-5/64"	57-27/64"	82-3/4"				
	8'-0"			32-3/4"	58-3/4"	84-3/4"				

CURRIES	6'-8"	40"	5"	35-1/4"	65-1/2"	X	5/16"	1/4"	1/8"	1/16"
	7'-0"			37-1/4"	69-1/2"	X				
	7'-2"			38-1/4"	71-1/2"	X				
	7'-10"			29-7/8"	54-3/4"	82-3/4"				
	8'-0"			30-1/2"	56"	84-3/4"				

MESKER	6'-8"	40-5/16"	5"	35-1/4"	65-1/2"	X	5/16"	1/4"	1/8"	1/16"
	7'-0"			37-1/4"	69-1/2"	X				
	7'-2"			38-1/4"	71-1/2"	X				
	7'-10"			30-1/2"	56"	81-1/2"				
	8'-0"			30-1/2"	56"	81-1/2"				



GENERAL INFORMATION

COMPARISON FOR FRAMES
4-1/2" HINGE

Manufacturer	A Height	B Strike	C 1st Hinge	D 2nd Hinge	E 3rd Hinge	F 4th Hinge	G	H	J	K
PIONEER	6'-8"	38"	5"	35-1/4"	65-1/2"	X	3/32"	5/16"	7/32"	3/32"
	7'-0"			37-1/4"	69-1/2"	X				
	7'-2"			38-1/4"	71-1/2"	X				
	7'-10"			29-13/16"	54-5/8"	79-7/16"				
	8'-0"			30-1/2"	56"	81-1/2"				

REPUBLIC	6'-8"	40-5/16"	7-1/2"	37-7/16"	67-3/8"	X	1/16"	5/16"	1/4"	1/8"
	7'-0"		9-1/2"	39-7/16"	69-3/8"	X				
	7'-2"		9-1/2"	40-7/16"	71-3/8"	X				
	7'-10"		5"	29-7/8"	54-3/4"	79-5/8"				
	8'-0"		5"	30-1/2"	56"	81-1/2"				

STEELCRAFT	6'-8"	40-5/16"	7-1/2"	37-7/16"	67-3/8"	X	1/16"	5/16"	1/4"	1/8"
	7'-0"			39-7/16"	71-3/8"	X				
	7'-2"			40-7/16"	73-3/8"	X				
	7'-10"			32-1/8"	56-3/4"	81-3/8"				
	8'-0"			32-51/64"	58-5/64"	83-3/8"				



GENERAL INFORMATION

SURFACE PREPARATION AND PAINTING

Mesker Door's™ recommended guidelines for preparation and painting of doors and frames.

Maintenance of Steel Doors and Frames should be done in accordance with SDI 124-98 "Maintenance of Standard Steel Doors and Frames.

Priming and painting of steel doors and frames should be done in accordance with SDI A250.8, sections 2.1.3, 2.1.4, and 2.1.5. We also recommend following ANSI A250 recommendations, including but not limited to A250.8 4.1 -4.6, and appendix "B" listed below

A250.8-2003 "Recommended Specifications for Standard Steel Doors and Frames"

Appendix B, General Considerations, Aesthetics

"The production of steel doors and frames relies on a variety of manufacturing processes including spot welding, projection welding, arc welding ground smooth, grinding, filling, etc. These processes may result in a show-through after application of finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects.

The show-through characteristics increase as the paint gloss increases. This standard recommends a maximum paint gloss rating of 20% reflectance, measured using a 60° gloss meter, which should be suitable for most applications. Translucent paints may emphasize show-through characteristics and their use is not recommended."

Mesker Door™ does not recommend the use of gloss paints. Sprayed on gloss paints are particularly difficult to use. If gloss paints are used, a considerable amount of cleaning, sanding and painting will be required and may still emphasize show through characteristics. Mesker Door™ does not recommend using black or dark colored paint on exterior doors, without allowing for additional expansion and contraction.

Mesker Door™ does not recommend the use of water based paints as final top coats. If water based paints are used as a finish coat, you should first prime the door or frame with a primer with rust inhibitors recommended by the paint manufacturer for bare steel. If the door is not primed in this way, all scratches and nicks that expose bare steel will develop rust. It is also extremely important to clean any and all metal particles that may be on the prime coat prior to painting. These may include small metal shavings from sanding or other jobsite operations and will cling to the door or frame with static electricity. These particles will show rust through the finish paint but are not rust of the actual frame or door.



MESKER™
The newest innovations in hollow metal from the
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GENERAL INFORMATION**PRODUCT COMPLIANCE PER ANSI / ASTM TEST METHODS**

ANSI/DHI A115	Hardware Preparation in Steel Doors and Steel Frames
ANSI/DHI A115.IG	Installation Guide for Doors and Hardware
ANSI A250.10	Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames
ANSI A250.11	Recommended Erection Instructions for Steel Frames
ANSI A250.13	Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies
ANSI A250.3	Test Procedure and Acceptance Criteria for Factory Applied Finish Painted Steel Surfaces for Steel Doors and Frames
ANSI A250.4	Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcing
ANSI A250.6	Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames
ANSI A250.7	Nomenclature for Standard Steel Doors and Steel Frames
ANSI A250.8	Recommended Specifications for Standard Steel Doors and Frames (SDI-100)
ANSI/BHMA A156.1	Butts and Hinges
ANSI/BHMA A156.3	Exit Devices
ANSI/BHMA A156.4	Door Controls – Closers
ANSI/BHMA A156.7	Template Hinge Dimensions
ANSI/NFPA 105	Standard for the Installation of Smoke Door Assemblies
ANSI/NFPA 252	Standard Methods of Fire Tests for Door Assemblies
ANSI/NFPA 257	Standard on Fire Test for Window and Glass Block Assemblies
ANSI/NFPA 80	Standard for Fire Doors and Windows
ANSI/UL 10B	Standard for Fire Tests of Door Assemblies (neutral pressure)
ANSI/UL 10C	Standard for Fire Tests of Door Assemblies (positive pressure)
ANSI/UL 1784	Air Leakage Test of Door Assemblies
ANSI/UL 9	Fire Test of Window Assemblies



GENERAL INFORMATION**PRODUCT COMPLIANCE PER ANSI / ASTM TEST METHODS**

ASTM A366/A366M	Standard Specification for Commercial Steel (CS) Sheet, Carbon (0.15 Maximum Percent) Cold-Rolled
ASTM A653/A653M	Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-coated (Galvannealed) by the Hot-Dip Process
ASTM A1008	Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
ASTM A1011	Standard Specification for Steel Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability
ASTM A568	Standard Specification for Steel Sheet, Carbon, High-Strength Low-Alloy, Hot-rolled and Cold-rolled
ASTM A591	Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot Dip Process
ASTM A924	Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process
ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM C578	Specification for Rigid, Cellular Polystyrene Thermal Insulation
ASTM D1654	Standard Test Method for Evaluation of Painted or Coated Specimens
ASTM D2794	Standard Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
ASTM D3359	Standard Test Methods for Measuring Adhesion by Tape Test
ASTM D4585	Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation
ASTM D610	Standard Test Method for Evaluation Degree of Rusting on Painted Steel Surfaces
ASTM D714	Standard Test Method for Evaluation Degree of Blistering of Paints
ASTM E-90	Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
HMMA 801	Glossary of Terms for Hollow Metal Doors and Frames
HMMA 802	Manufacturing of Hollow Metal Doors and Frames
HMMA 810	Hollow Metal Doors



GENERAL INFORMATION**PRODUCT COMPLIANCE PER ANSI / ASTM TEST METHODS**

HMMA 810	TN-01-03 Defining Undercuts
HMMA 820	Hollow Metal Frames
HMMA 820	TN 01-03 Grouting Hollow Metal Frames
HMMA 830	Hardware Selection for Hollow Metal Doors and Frames
HMMA 840	Guide Specifications for Installation and Storage of Hollow Metal Doors and Frames
HMMA 850	Fire Rated Hollow Metal Doors and Frames
HMMA 861	Commercial Hollow Metal Doors and Frames
HMMA 865	Guide Specifications for Swinging Sound Control Hollow Metal Doors and Frames
HMMA 867	Guide Specifications for Commercial Laminated Core Hollow Metal Doors and Frames
HMMA 890	Hollow Metal
SDI-106	Recommended Standard Door Type Nomenclature
SDI-108	Recommended Selection and Usage Guide for Standard Steel Doors
SDI-109	Hardware for Standard Steel Doors and Frames
SDI-110	Standard Steel Doors and Frames for Modular Masonry Construction
SDI-111	Recommended Details and Guidelines for Standard Steel Doors, Frames and Accessories (A-H)
SDI-111-A	Recommended Standard Steel Door Details
SDI-111-B	Recommended Standard Details for Dutch Doors
SDI-111-C	Recommended Louver Details for Standard Steel Doors
SDI-111-D	Recommended Door, Frame and Hardware Schedule for Standard Steel Doors and Frames
SDI-111-E	Recommended Weatherstripping for Standard Steel Doors and Frames
SDI-111-F	Recommended Existing Wall Anchors for Standard Steel Doors and Frames
SDI-111-G	Recommended Standard Preparation for Double Type (Interconnected) Locks on Standard Steel Doors and Frames

GENERAL INFORMATION**PRODUCT COMPLIANCE PER ANSI / ASTM TEST METHODS**

SDI-111-H	High Frequency Hinge Preparations for Frames
SDI-112	Zinc-Coated (Galvanized/Galvannealed) Standard Steel Doors and Frames
SDI-113	Standard Practice for Determining the Steady State Thermal Transmittance of Steel Door and Frame Assemblies
SDI-117	Manufacturing Tolerances Standard Steel Doors and Frames
SDI-118	Basic Fire Door Requirements
SDI-122	Installation and Troubleshooting Guide for Standard Steel Doors and Frames
SDI-124	Maintenance of Standard Steel Doors and Frames
SDI-127	Series - Industry Alerts (A through J)
SDI-127-A	End Closure
SDI-127-B	Door Edge Cutouts
SDI-127-C	Frame Cutout Limits
SDI-127-D	Electric Strikes in Stud Walls
SDI-127-E	Prime Painted Materials Alert
SDI-127-F	Butted Frames Rough Opening Sizes
SDI-127-G	Environmental Considerations Relating to Factory Painted Steel Doors and Frames
SDI-127-H	Water Penetration
SDI-127-I	Grouting Frames in Drywall
SDI-127-J	Bituminous Back-Coating of Frames
SDI-128	Guidelines for Acoustical Performance of Standard Steel Doors and Frames
SDI-129	Hinge and Strike Spacing
SDI-130	Electrified Hinge Preparations
SDI-131	Accelerated Physical Endurance Test Procedure for Steel Doors, Frames and Frame Anchors
UBC 7-2	Fire Tests of Door Assemblies
UBC 7-4	Fire Tests of Window Assemblies

GENERAL INFORMATION

NOMENCLATURE FOR DOORS AND FRAMES

DOORS:

SERIES

N = Standard Non Handed

NF = Temperature Rise

ST = Steel Stiffened

BR = Bullet Resistant

FE316 = TORNADO DOOR 316

DOOR CORE:

P = Polystyrene

H = Honeycomb (cardboard)

U = Urethane

F = Fiberboard

STEEL TYPE:

- = Cold Rolled Steel

Z = A60 Galvannealed

G90 = G 90 Galvanized

EDGE CONSTRUCTION:

- = Standard Seamed Edge

NVS = Continuously welded seamless vertical edges, with no putty or filler.

S = Seamless (putty or stitch weld and putty)

GENERAL INFORMATION**NOMENCLATURE FOR DOORS AND FRAMES****FACE:**

F= Flush

V = Vision Lite

N = Narrow Lite (specify size)

N1= Narrow Lite 3"x 33" Exposed Glass

N3= Narrow Lite 5" x 20" Exposed Glass

N6= Narrow Lite 5" x 60" Exposed Glass

G = ½ Glass Lite

FG = Full Glass Lite

G2 = 2 Lites

R= Round Lite

M= Diamond Lite

L = Louver at Bottom

FL= Full Louver

D= Dutch door

VP = Viewer

CO = Cutout Only

SP = Six Panel

P4 = Four Panel

P2B = Two Panel Bottom

P2S = Two Panel Square Top

P2A = Two Panel Arch Top

NW = Wood Grain

SPW = Six Panel Wood Grain

GENERAL INFORMATION**NOMENCLATURE FOR DOORS AND FRAMES****STILES:**

- = 4.5" Standard weight hinges

4H = 4.5" Heavy Weight Hinges

5 = 5" Standard Weight Hinges

5H = 5" Heavy Weight Hinges

C4 = 161 2 3/4" Backset

C4T = 161 2 3/4" Backset with Thru Bolts

C4 Turtle = 161 2 3/4" Backset with Turtle Prep

MB = 86 Edge No Face Preps

MB+Template = Mortise 86 w/ function holes

RP = Rim Panic Reinforcement

RP+Template = Rim Panic Reinforcement with Function Holes

VR = Vertical Rod Panic Reinforcement

MBN = Mortise Box Reinforcement No Edge Prep

BV= Beveled Edge

FRAMES:**SERIES:**

F = Masonry / Drywall Standard Frame

FDJ = KD Drywall with Compression Anchor

RF = Remodeling Frame

FF = Flush Face Frame

S = Stick

M = Mullion



GENERAL INFORMATION**NOMENCLATURE FOR DOORS AND FRAMES****COMPONENT:**

FH = Header

HJ = Hinge Jamb

SJ = Strike Jamb

BJ = Blank Jamb

WJ = Window Jamb

BS = Blank Stick

BM = Blank Mullion

HS = Hinge Stick

HM = Hinge Mullion

SS = Strike Stick

SM = Strike Mullion

SR = Single Rabbet

ER = Equal Rabbet

DE = Double Egress

CO = Cased Opening

C = Communicating

HARDWARE PREPARATIONS:

U = ASA Strike

C = T strike

DBS = Deadbolt Strike

RL = Roller Latch

RPR = Rim Panic Strike Reinforcement

VRR = Vertical Rod Panic Strike Reinforcement

FB = Flushbolt Strike



GENERAL INFORMATION

NOMENCLATURE FOR DOORS AND FRAMES

HARDWARE PREPARATIONS CONTINUED:

RA = Regular Arm Closer Reinforcement

PA = Parallel Arm Closer Reinforcement

BR = Continuous Hinge Reinforcement

H = Interconnected Lock Strikes

VRM = Concealed Vertical Rod Panic Strike

ELS = Electric Strike Preparation

EH = Electric Hinge Preparation

Miscellaneous:

W4F = 4" Face

GENERAL INFORMATION**NOMENCLATURE FOR DOORS AND FRAMES****FACE:**

F= Flush

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N = Narrow Lite (specify size)

N1= Narrow Lite 3"x 33" Exposed Glass

N3= Narrow Lite 5" x 20" Exposed Glass

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FG = Full Glass Lite

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5H = 5" Heavy Weight Hinges

C4 = 161 2 3/4" Backset

C4T = 161 2 3/4" Backset with Thru Bolts

C4 Turtle = 161 2 3/4" Backset with Turtle Prep

MB = 86 Edge No Face Preps

MB+Template = Mortise 86 w/ Function Holes

RP = Rim Panic Reinforcement

RP+Template = Rim Panic Reinforcement with Function Holes

VR = Vertical Rod Panic Reinforcement

MBN = Mortise Box Reinforcement No Edge Prep

BV= Beveled Edge

FRAMES:**SERIES:**

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BJ = Blank Jamb

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RL = Roller Latch

RPR = Rim Panic Strike Reinforcement

VRR = Vertical Rod Panic Strike Reinforcement

FB = Flushbolt Strike



GENERAL INFORMATION**NOMENCLATURE FOR DOORS AND FRAMES****HARDWARE PREPARATIONS CONTINUED:**

RA = Regular Arm Closer Reinforcement

PA = Parallel Arm Closer Reinforcement

BR = Continuous Hinge Reinforcement

H = Interconnected Lock Strikes

VRM = Concealed Vertical Rod Panic Strike

ELS = Electric Strike Preparation

EH = Electric Hinge Preparation

Miscellaneous:

W4F = 4" Face

GENERAL INFORMATION**MESKER LEED PROGRAM COMPLIANCE**

Based on the U. S. Green Building Council LEED Reference Guide for Green Building Design and Construction 2009 publication for the design, construction and major renovations of commercial and institutional buildings including core & shell and K-12 school projects.

Material and Resources Credits 4.1 and 4.2

Recycled Content: Mesker's doors and frames contribute credits under Material and Resources Credit 4

Intent: To increase demand for building products that incorporate recycled content materials, thereby reducing impacts from extraction and processing of virgin materials.

Requirements: Use materials with recycled content* such that the sum of postconsumer** recycled content plus ½ of the pre-consumer*** content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project.

Credits:

MR 4.1: 1 point - recycled content is at least 10% of the total value of the materials in the entire project.

MR 4.2: 1 additional point added to the MR 4.1 point – recycle content is at least 20% (MR 4.1 percentage plus an additional amount to equal a minimum of 20%) of the total value of the materials in the entire project.

Mesker's postconsumer recycled content is 59%, our pre-consumer recycled content 9% thus qualifying for the maximum credit.

*Recycled content is defined in accordance with the International Organization of Standards document, ISO 14021 – Environmental labels and declarations – Self-declared environmental claims (Type II environmental labeling).

**Postconsumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

***Pre-consumer material is defined as material diverted from the waste stream during the manufacturing process. Reutilization of materials (i.e. rework, regrind, or scrap generated in a process and capable of being reclaimed within the same process that generated it) is excluded.

For further information regarding these credits visit the U. S. Green Building Council at www.usgbc.org or call Mesker Door (256) 851-6670

GENERAL INFORMATION**MESKER LEED PROGRAM COMPLIANCE**

Based on the U. S. Green Building Council LEED Reference Guide for Green Building Design and Construction 2009 publication for the design, construction and major renovations of commercial and institutional buildings including core & shell and K-12 school projects.

Material and Resources Credits 5.1 and 5.2

Regional Material: Mesker doors and frames are manufactured in Huntsville, AL 35811-9021

Intent: To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Requirements: Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 (five hundred) miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. If only a fraction of a product of material is extracted, harvested or recovered and manufactured locally, then only that percentage (by weight) may contribute to the regional value.

Credits:

MR 5.1: 1 point – At least 10% of the materials are extracted, processed and manufactured regionally.

MR 5.2: 1 additional point added to the MR 5.1 point – At least 20% (MR 5.1 percentage plus an additional amount to equal a minimum of 20%) of materials are extracted, processed and manufactured regionally.

For further information regarding these credits visit the U. S. Green Building Council at www.usgbc.org or call Mesker Door™ (256) 851-6670

GENERAL INFORMATION**BUY AMERICAN**

As the oldest manufacturer of Hollow Metal Doors and Frames in the United States of America, Mesker Door™ shines as a founding member of the Steel Door Institute, and the inventors of the Hollow Metal Door.

Mesker Door™ is proud to manufacture innovative products in the United States of America, utilizing American Steel in the construction of our doors and frames.

Mesker Door™ is a company owned by Americans, run by Americans, and employs American families in Huntsville, Alabama, and across the United States of America.

As a result, Mesker Door™ meets the following qualifications as an American Manufacturer:

THE BUY AMERICAN ACT**MADE IN THE USA****ASSEMBLED AND MANUFACTURED IN THE USA****THE AMERICAN RECOVERY AND REINVESTMENT ACT'S BUY AMERICAN RULE**

We're glad that you have chosen our products for your project. Please see below for some common questions that you may have about the above requirements.

All information provided in this document is provided for the use of Mesker Door™ and its partners, as an introduction to Mesker Door™, and our compliance with the Buy American statutes. The information below should be used as a guide, and in no way addresses all of the complexity found in the complete versions of these documents. As the information found in the complete versions of these documents is much more detailed, and may change over time, please consult your legal council to find the most current information on the Buy American statutes.

Please specify with your Mesker Door™ distributor that you want American made products on your project!

Thank you for your support.



MESKER™
The newest innovations in hollow metal from the
oldest hollow metal door company in America

GENERAL INFORMATION**BUY AMERICAN****THE BUY AMERICAN ACT**

Mesker Door™ meets *these qualifications.*

A. Requirements

1. The end product must be manufactured in the U.S.
 - a. Test to determine whether a product is a valid "domestic end product" under the Buy American Act: the end product, articles, materials, and supplies must be manufactured in the U.S. That is, the product must have transformed into a new and different article of commerce, with a name, character, or use distinct from the original article.
2. The costs of its components which are mined, produced, or manufactured in the U.S. must exceed 50 percent.
 - a. The cost of the components of the end products that are produced or manufactured domestically which are incorporated directly in the end product must exceed the cost of the foreign produced component parts.

B. Benefits

1. A qualifying Buy American Act product creates a preference for suppliers of domestic source end products by government contractors.
2. The act restricts the government's ability to purchase supplies that are not domestic end products. The act also essentially requires the use of only domestic construction materials in the contracts for construction in the United States.

C. Compliance

1. Even a minor violation generally requires imposition of some kind of penalty, although an isolated instance of noncompliance may be insufficient to establish a violation.
 - a. For minor violations, penalties range from substituting domestic items to recovering the cost difference between domestic and foreign items.
 - b. For serious violations, the agency may cancel the contract.
2. Decisions applying the Buy American Act are subject to judicial review under a highly deferential standard, requiring the court to uphold the decision unless it is arbitrary, capricious, an abuse of discretion, or otherwise not in accordance with the law.

MESKER DOOR™ MEETS THE REQUIREMENTS OF THE BUY AMERICAN ACT.

GENERAL INFORMATION**BUY AMERICAN****MADE IN THE USA****Mesker Door™ meets these qualifications.****A. Requirements****1. Unqualified claim**

- a. "All or virtually all" of the components making a product must be of U.S. origin; i.e., all significant parts and processing that go into the product must be of U.S. origin.
 - i. A negligible amount of foreign parts in the end product is permitted.
 - ii. The product's final assembly or processing must take place in the U.S.
- b. When a manufacturer or marketer makes an unqualified claim that a product is "Made in U.S.A", it should have a "reasonable basis" to support the claim at the time it is made.

2. Qualified claim

- a. A qualified claim describes the extent, amount or type of a product's domestic content or processing; it indicates that the product is not entirely of domestic origin.
- b. This label is appropriate for products that include U.S. content or processing but fail to meet the criteria for making an unqualified claim, e.g., "60% U.S. content", "Made in U.S.A. of U.S. and imported parts," or "Couch assembled in U.S.A from Italian Leather and Mexican Frame."

B. Benefits

- 1. Permits either unqualified or qualified "Made in the U.S.A. Made in America" labeling or advertising claims.

C. Compliance

- 1. Compliance is governed by the FTC, which enforces actions against false or misleading claims that a product is of U.S. origin.
- 2. The FTC does not pre-approve advertising or labeling claims. A manufacturer or marketer may make any claim as long as it is truthful and substantiated.

MESKER DOOR™ MEETS THE REQUIREMENTS OF THE MADE IN THE USA MARK.

GENERAL INFORMATION**BUY AMERICAN****ASSEMBLED AND / OR MANUFACTURED IN THE U.S.A.**

Mesker Door™ meets these qualifications.

A. Requirements

1. A product that includes foreign components may be called "Assembled in U.S.A." Without qualification when its principal assembly takes place in the U.S. and the assembly is substantial.
2. The product's last "substantial transformation" must occur in the U.S. In other words, a "screwdriver" assembly in the US. of foreign components into a final product at the end of the manufacturing process would not qualify for the "Assembled in U.S.A." claim.
 - a. "Substantial transformation" requires that a manufacturing process result in a new and different product with a new name, character, and use that is different from that which existed before the change.

B. Benefits

1. Since this label is essentially a modification of the "Made in USA America" claim, the benefits are the same; i.e., the FTC permits an assembled/Manufacture in America" label for advertising and labeling claims for qualifying products.

C. Compliance

1. Compliance is the same as the "Made in U.S.A /America" claim; i.e., compliance is governed by the FTC, which enforces actions against false or misleading claims that a product is of U.S. origin.

MESKER DOOR™ MEETS THE REQUIREMENTS OF THE ASSEMBLED AND / OR MANUFACTURED IN THE U.S.A. MARK.

GENERAL INFORMATION**BUY AMERICAN****THE AMERICAN RECOVERY AND REINVESTMENT ACT'S BUY AMERICAN RULE****Mesker Door™ meets these qualifications.**

The American Recovery and Reinvestment Act's, Buy American Rule requires that all iron, steel and manufactured goods on construction projects of public buildings or public works projects must be produced in the United States.

A. What projects are subject to the Buy American requirement?

The scope of the requirement can be thought of as a three-part test. A project is subject to the requirement if:

- (1) Funds appropriated or otherwise made available by this Act are;
- (2) Used for the construction, alteration, maintenance, or repair of;
- (3) A public building or public work.

Under the first part, most projects that receive funds or a loan guaranteed under the new law are subject to the requirement. The second part of the test- "construction, alteration, maintenance, or repair"- includes an extremely broad range of work, but the third part- "public building or public work"- almost certainly excludes work done with respect to any privately owned facility.

B. What does it mean to be subject to this requirement?

It means that "all of the iron, steel, and manufactured goods" used in the project must have been produced in the U.S. In other words, if *any* of the iron, steel, or manufactured goods used in the project is produced outside the U.S., the project cannot receive stimulus funding. Depending on how "project" is defined, the use of any foreign iron, steel, or manufactured goods with respect to a small component of a large project could prevent the use of stimulus funds for the entire project.

C. Does the nationality of the company producing the iron, steel, or manufactured goods matter?

No. The only thing that matters is whether production occurs within the U.S.

D. Isn't there already a Buy American requirement in federal law?

Yes, the Buy American Act was originally enacted in 1933. But there are two important differences between that law and the provision in the stimulus legislation. The Buy American Act applies only to procurement by the federal government, and only requires that the cost of domestic components exceeds 50 percent of the cost of all the components.

GENERAL INFORMATION**BUY AMERICAN**

E. What circumstances qualify for a waiver under the stimulus law?

A waiver under the stimulus legislation may be granted for "any case or category of cases" where the head of the relevant federal department or agency finds that: (1) applying the prohibition would be "inconsistent with the public interest"; (2) iron, steel, and the relevant manufactured goods are not produced in the U.S. "in sufficient and reasonably available quantities and of a satisfactory quality"; or (3) inclusion of iron, steel and manufactured goods produced in the U.S. will increase the cost of the "overall project" by more than 25 percent if the agency or department head makes such a finding, he or she must publish in the Federal Register a detailed justification as to why the provision is being waived. Perhaps more importantly, the prohibition is also to be applied "in a manner consistent with U.S. obligations under international agreements." This language was added by the Senate in response to strong objections expressed by key trading partners of the U.S., including Canada and the European Union.

F. What does it mean to be consistent with U.S. obligations under international trade agreements?

It's not entirely clear, but the legislative history (discussed in more detail below) suggests that Congress intends that the Obama Administration will use its existing authority under the 1979 Trade Agreements Act to waive the Buy American requirement where it would otherwise violate a free trade agreement or the WTO. There is also an indication that it should be waived for so-called "least developed countries," where they agree to assume the obligations of the WTO and are willing to provide similar opportunities for U.S. products.

G. How soon will all this be resolved?

It depends on how soon the Obama Administration begins issuing waivers, and the breadth of those waivers. At one end of the spectrum, federal departments or agencies could issue one or more very broad waivers on public interest grounds, or based on a finding that iron and steel are not produced in the U.S. in sufficient and reasonably available quantities of satisfactory quality. At the other extreme, departments and agencies could take a narrow, project-by-project approach, issuing a waiver only where there is a showing that the cost of the entire project would otherwise be increased by more than 25 percent.

Based on its obligation to remain consistent with international trade agreements, and concerns about triggering more protectionism, it seems likely that the Obama Administration will move relatively quickly to issue waivers as to countries that are members of either WTO or a free trade agreement. Waivers with respect to the least developed countries would presumably be a lower priority, and waivers with respect to developed countries that are not parties to a free trade agreement or WTO would presumably be lower still.

GENERAL INFORMATION**BUY AMERICAN**

From those seeking stimulus dollars, there will be enormous pressure on the administration to quickly remove the cloud of uncertainty created by this provision, and to minimize its effect on projects that would otherwise qualify. Supporters of the prohibition, on the other hand, are not going to give ground without a fight.

**MESKER DOOR TM MEETS THE REQUIREMENTS OF THE AMERICAN RECOVERY AND
REINVESTMENT ACT'S BUY AMERICAN RULE.**

GENERAL INFORMATION**BUY AMERICAN**

From those seeking stimulus dollars, there will be enormous pressure on the administration to quickly remove the cloud of uncertainty created by this provision, and to minimize its effect on projects that would otherwise qualify. Supporters of the prohibition, on the other hand, are not going to give ground without a fight.

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GENERAL INFORMATION

Standard Warranty

Mesker Door™ Inc. warrants for a period of one (1) year from date of shipment, all material manufactured by us to be free from defects in material and workmanship under normal use and service. All such material is supplied subject to this warranty. The company's obligation there under is limited to repairing or replacing at its option any such material which, upon examination is found to have been defective. This warranty is expressly in lieu of all other warranties expressed or implied, and of all obligations or liabilities on its part for damages, including but not limited to consequential damages. No agent is authorized to assume for it any liability except as set forth above. Nor does Mesker Door™ Company assume any liability for modifications performed on materials after said materials leave Mesker's factory.



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GENERAL INFORMATION**Receiving, Storage and Handling****Receiving Material**

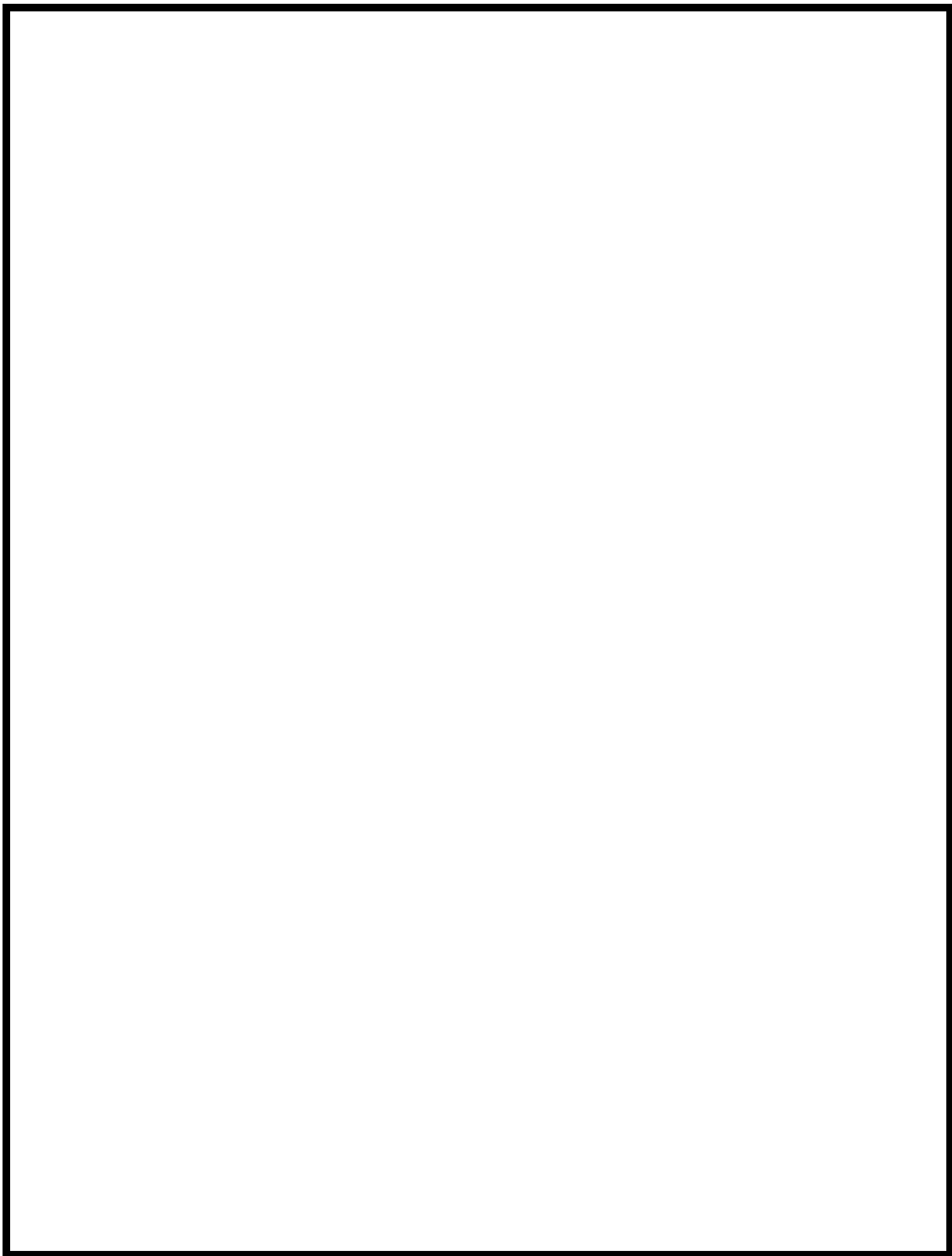
Upon receipt all material shall be inspected for damage caused in shipping. If damaged material is found it should be noted on the freight bill before signing. Claims will be refused by the carrier if not noted on the freight bill at the time of delivery. The contractor must notify the carrier and request an inspection of the damaged material. The contractor must also notify the distributor immediately of the damage which will help expedite the repair or replacement of the damaged material.

Should the contractor find any errors in the material the distributor must be notified so that the distributor and the factory can participate in solving the problem. Unauthorized modifications to the material could result in voiding the warranty and or any labels attached to the material.

On Site Storage

Proper storage of hollow metal material at the construction site will help prevent damage.

1. Store all materials in a dry area. All hollow metal material should be stored so that it does not come in contact with water or moisture.
2. Do not use non-vented plastic or canvas. These products retain moisture and will damage hollow metal products.
3. Place doors and frames vertically on wood blocking at least 4" off the ground.
4. Place not more than 5 doors or frames per vertical stack.
5. Provide at least ¼" air space between each door or frame to permit air circulation.



GENERAL INFORMATION

METRIC CONVERSION GUIDE

ALL METRIC DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. ALL NUMBERS USED HAVE BEEN CALCULATED USING A "SOFT" CONVERSION METHOD.

FRAME/DOOR OPENING WIDTH	
NOMINAL WIDTH ENGLISH	NOMINAL WIDTH METRIC (MM)
1'0"	305
1'2"	356
1'4"	406
1'6"	457
1'8"	508
1'10"	559
2'0"	610
2'2"	660
2'4"	711
2'6"	762
2'8"	813
2'10"	864
3'0"	914
3'2"	965
3'4"	1016
3'6"	1067
3'8"	1118
3'10"	1168
4'0"	1219
5'0"	1524
6'0"	1829
7'0"	2134

FRAME RETURNS	
NOMINAL WIDTH ENGLISH	NOMINAL WIDTH METRIC (MM)
3/8"	10
7/16"	11
1/2"	13

FRAME FACES	
NOMINAL WIDTH ENGLISH	NOMINAL WIDTH METRIC (MM)
1"	25
1-1/4"	32
1-1/2"	38
1-3/4"	44
2"	51
4"	102

FRAME/DOOR OPENING WIDTH	
NOMINAL WIDTH ENGLISH	NOMINAL WIDTH METRIC (MM)
6'6"	1981
6'8"	2032
6'10"	2083
7'0"	2134
7'2"	2184
7'4"	2235
7'6"	2286
7'8"	2337
7'10"	2388
8'0"	2438

STOP HEIGHT	
NOMINAL HEIGHT ENGLISH	NOMINAL HEIGHT METRIC (MM)
1/2"	12
5/8"	16
3/4"	19

DOOR THICKNESS	
NOMINAL THICK ENGLISH	NOMINAL THICK METRIC
1-3/4"	44



GENERAL INFORMATION

METRIC CONVERSION GUIDE

ALL METRIC DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. ALL NUMBERS USED HAVE BEEN CALCULATED USING A "SOFT" CONVERSION METHOD.

JAMB DEPTH	
NOMINAL ENGLISH	NOMINAL METRIC
3"	76
3-1/8"	79
3-1/4"	83
3-3/8"	86
3-1/2"	89
3-5/8"	92
3-3/4"	96
3-7/8"	98
4"	102
4-1/8"	105
4-1/4"	108
4-3/8"	111
4-1/2"	114
4-5/8"	118
4-3/4"	121
4-7/8"	124
5"	127
5-1/8"	130
5-1/4"	133
5-3/8"	137
5-1/2"	140
5-5/8"	143
5-3/4"	146
5-7/8"	149
6"	152
6-1/8"	156
6-1/4"	159
6-3/8"	162
6-1/2"	165
6-5/8"	168
6-3/4"	172
6-7/8"	175
7"	178
7-1/8"	181
7-1/4"	184
7-3/8"	187
7-1/2"	191
7-5/8"	194
7-3/4"	197
7-7/8"	200

JAMB DEPTH	
NOMINAL ENGLISH	NOMINAL METRIC
8"	203
8-1/8"	206
8-1/4"	210
8-3/8"	213
8-1/2"	216
8-5/8"	219
8-3/4"	222
8-7/8"	225
9"	229
9-1/8"	232
9-1/4"	235
9-3/8"	238
9-1/2"	241
9-5/8"	245
9-3/4"	248
9-7/8"	251
10"	254
10-1/8"	257
10-1/4"	260
10-3/8"	264
10-1/2"	267
10-5/8"	270
10-3/4"	273
10-7/8"	276
11"	279
11-1/8"	283
11-1/4"	286
11-3/8"	289
11-1/2"	292
11-5/8"	295
11-3/4"	299
11-7/8"	302
12"	305
12-1/8"	308
12-1/4"	311
12-3/8"	314
12-1/2"	318
12-5/8"	321
12-3/4"	324
12-7/8"	327

JAMB DEPTH	
NOMINAL ENGLISH	NOMINAL METRIC
13"	330
13-1/8"	333
13-1/4"	337
13-3/8"	340
13-1/2"	343
13-5/8"	346
13-3/4"	349
13-7/8"	352
14"	356
14-1/8"	359
14-1/4"	362
14-3/8"	365
14-1/2"	368
14-5/8"	371
14-3/4"	375
14-7/8"	378



GENERAL INFORMATION

MESKER ADHESION SYSTEM

Hot Melt PUR (HMPUR) has advantages over conventional adhesives such as contact cements and thermoplastic hot melts.

Technical name: Moisture Cure Polyurethane Hot Melt

HMPUR Adhesives "CURE" completely, meaning once set, it cannot be re-melted and will not soften or freeze and lose its adhesion. It will not absorb moisture once cured. Mesker's HMPUR system has enhanced resistance to flame spread in its cured state and is designed to pass the Underwriters Laboratories Inc. 10C, Positive Pressure Fire Tests of Door Assemblies.

FEATURES & BENEFITS

- **Flame Retardant**

Designed to pass UL 10C. Patent pending.

- **Excellent Heat Resistance**

Bonded assemblies withstand prolonged exposure to 200°F temperatures without exhibiting any signs of bond failure.

- **Excellent Cold Resistance**

Adheres to many substrates at temperatures as low as -35°F without exhibiting any signs of bond failure.

- **Excellent Creep Resistance**

Cured adhesive film is extremely tough yet flexible. This allows for differences in thermal expansion and contraction of various substrates without sacrificing bond performance.

- **Patented Fully Reactive Technology**

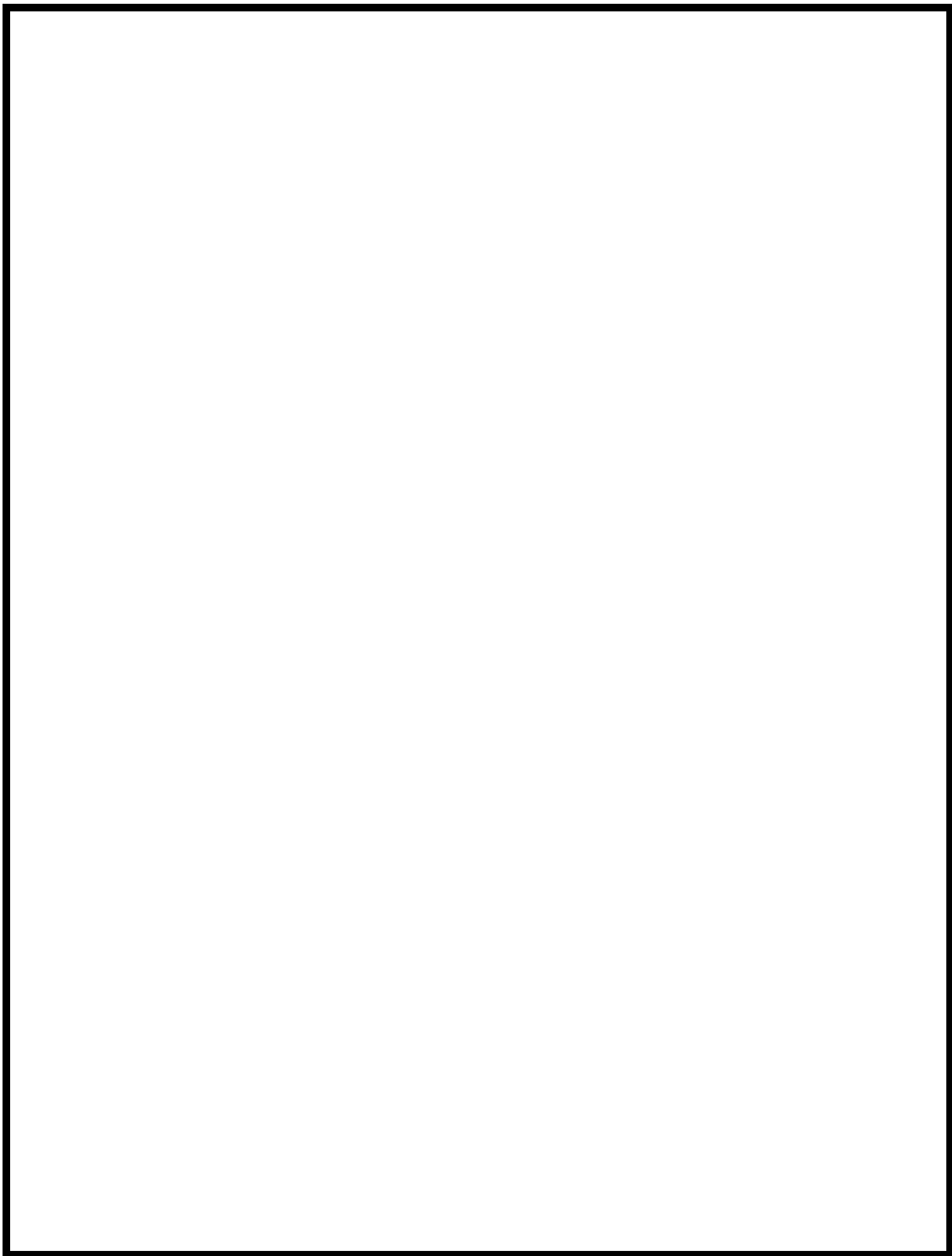
In addition to the many other benefits of this technology, bonded assemblies, including darkly colored materials, possess exceptional heat resistance.

- **Versatility**

Adheres to a wide variety of core stocks and skins.



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GENERAL INFORMATION
ADA CLEARANCE

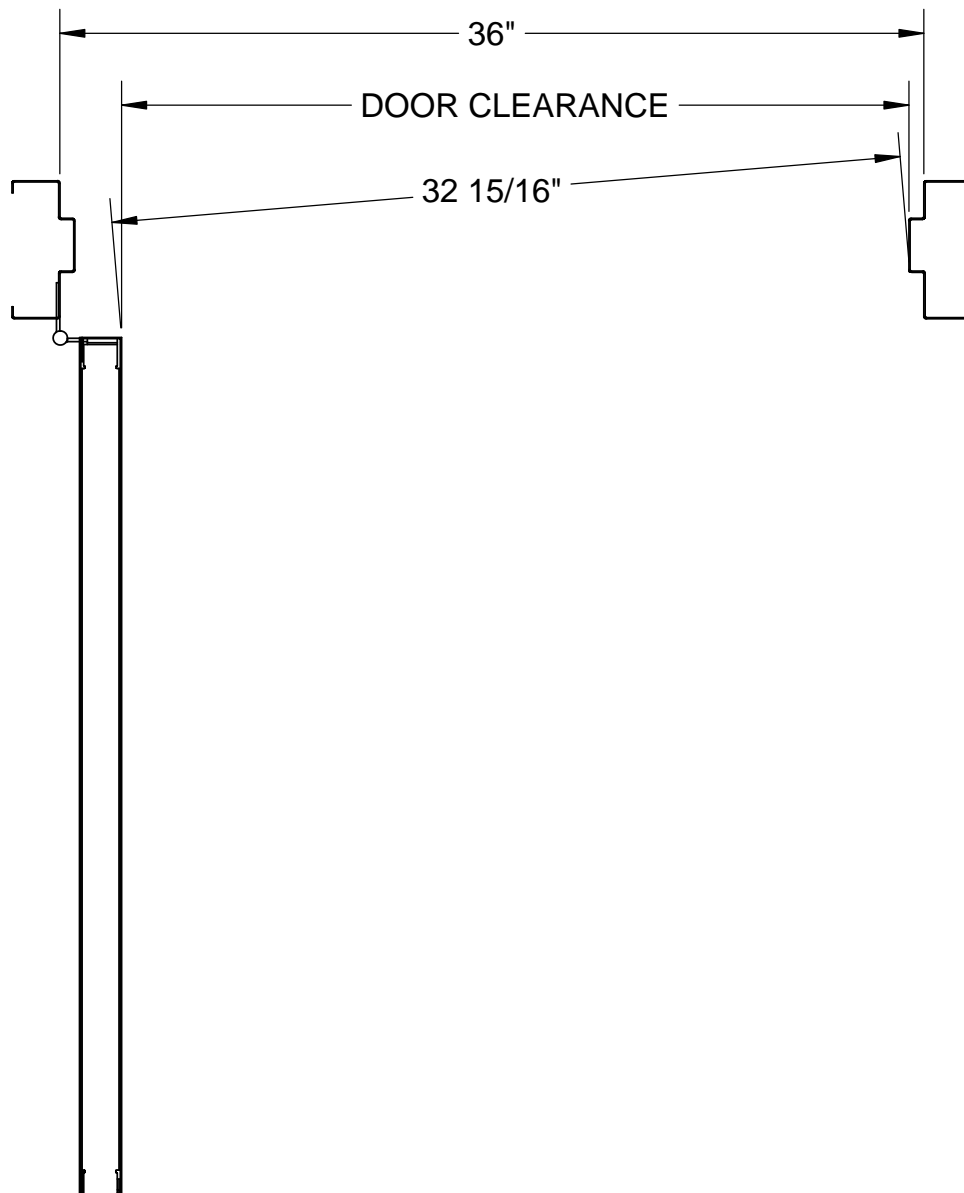


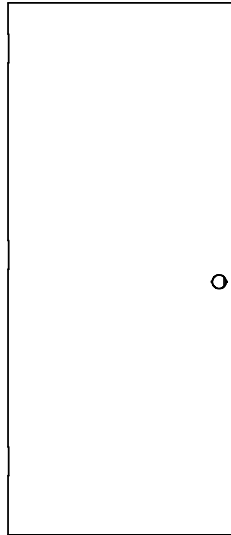
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DOORS

HOW TO ORDER



FORMATTING THE PART DESCRIPTION

1

2

3

4

5

6

1

SERIES

N - STANDARD
 NF - TEMP. RISE
 ST - STEEL STIFFENED
 SP - 6 PANEL
 P4 - 4 PANEL
 P2B - 2 PANEL BOTTOM
 P2S - 2 PANEL SQUARE
 P2A - 2 PANEL ARCH
 NW - WOOD GRAIN
 SPW - SIX PANEL WOOD GRAIN
 BR - BULLET RESISTANT
 FE361 - TORNADO DOOR 361
 ...

5

WIDTH

28-2'8"
 30-3'0"
 40-4'0"
 ...

6

HEIGHT

68-6'8"
 70-7'0"
 80-8'0"
 ...

2

CORE

P - POLYSTYRENE
 H - HONEYCOMB
 U - URETHANE
 F - FIBERBOARD

3

THICKNESS AND GAUGE

4 - 1 3/4"
 THEN SPECIFY GAUGE

4

LOCK STILE

C4-161
 C4T-161 W/ THRU BOLTS
 C4 TURTLE-TURTLE PREP
 MB-86 EDGE
 MB+TEMPLATE-SECTIONAL TRIM PREP
 RP-RIM PANIC REINFORCEMENT
 RP+TEMPLATE-RIM REINF. W/ FNC HOLES
 VR-VERTICAL ROD REINFORCEMENT
 MBN-MOTISE BOX REINF. NO HOLES
 ...

USE THE APPROPRIATE SYMBOL AS DESIGNATED
 ABOVE FOR POSITIONS 1 THRU 6.

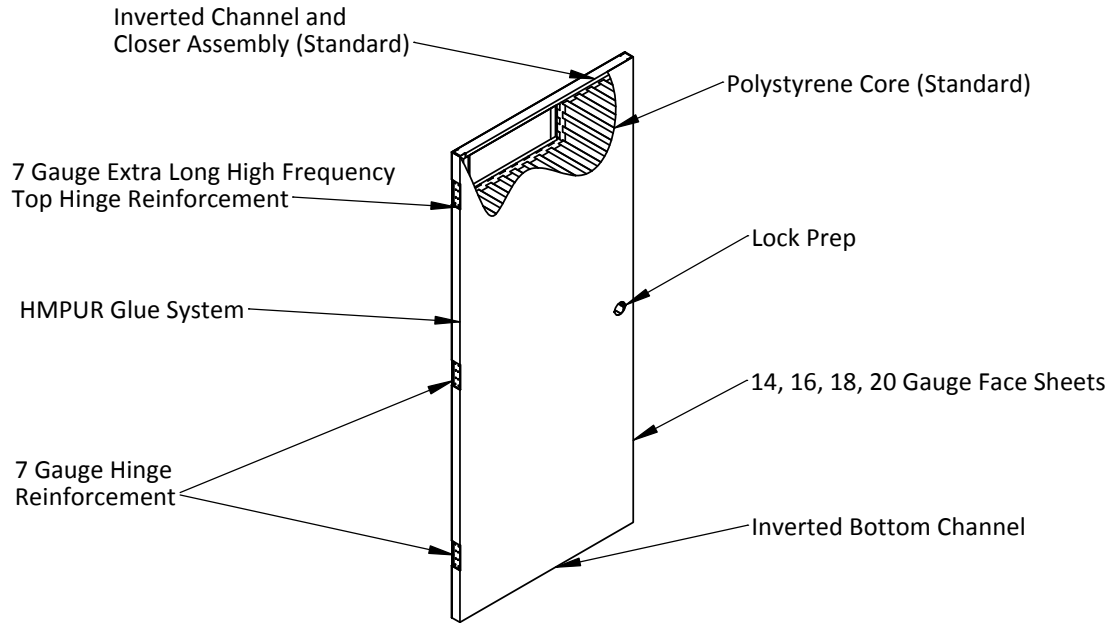
EXAMPLE

N	P	418	C4	30	70
1	2	3	4	5	6



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NP - STANDARD SERIES FLUSH DOOR



DOOR CONSTRUCTION

14, 16, 18, 20 gauge, cold-rolled, gavannealed, or galvanized G90 steel face sheets to be securely bonded to the core. Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Optional seamless (NVS) (Patented Technology) edge available upon request. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. Optional flush top available upon request. Square edge standard. Optional beveled lock edge (BV-1) or beveled hinge and lock edge (BV-2). See beveled detail pages D-27 and D-28.

CORE CONSTRUCTION

Standard core material to be expanded polystyrene core. Optional cores: Honeycomb, Polyurethane, Fiberboard.

HARDWARE

All doors are furnished with 7 gauge steel hinge reinforcements with three projection welds on each end. Extra long high frequency top hinge reinforcement provides additional welds for added strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 mortise or cylindrical (bored) locks. Additional hardware preparations available.

FINISH

Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water- based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

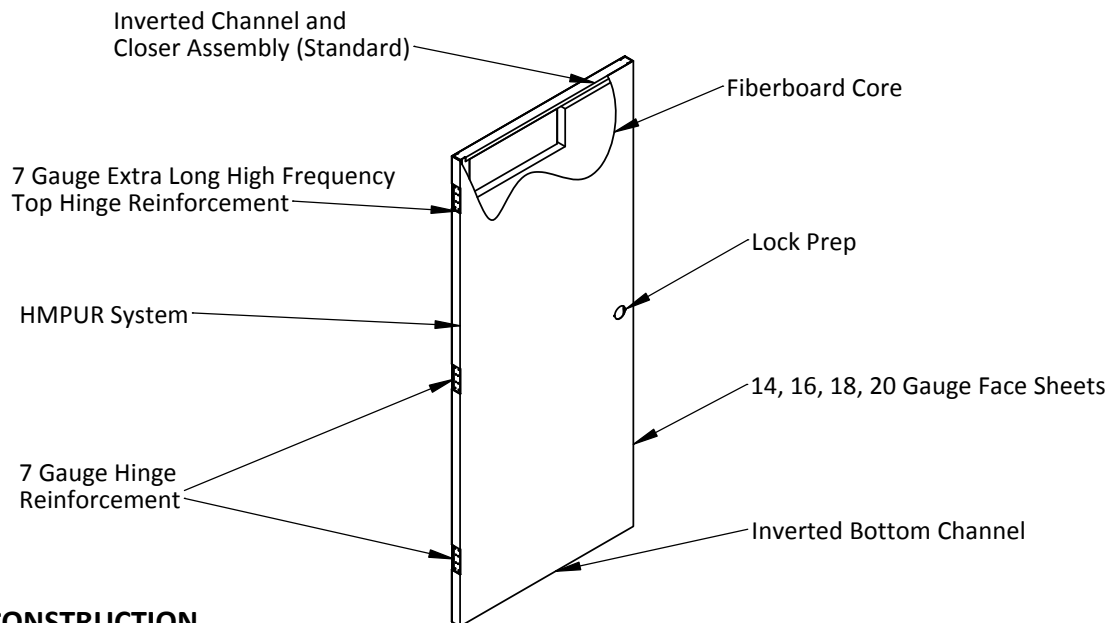
COMPLIANCE

As the oldest member of the Steel Door Institute, all Mesker Door units comply with ANSI A 250.8 (R2008). Hardware preparations comply with ANSI A 250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek), Underwriters Laboratories, and FM Global. For a complete list of product compliance per ANSI/ASTM test methods, please consult pages G-11 through G-14.



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N - STANDARD SERIES FLUSH DOOR with "F" Fiberboard Core (250 °F Temperature Rise)



DOOR CONSTRUCTION

14, 16, 18, 20 gauge, cold-rolled, galvanized, or galvanized G90 steel face sheets to be securely bonded to the core. Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Optional seamless (NVS) (Patented Technology) edge available upon request. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. Optional flush top available upon request. Doors are rated for 250 °F maximum temperature rise for the first 30 minutes of fire test. Square edge standard. Optional beveled lock edge (BV-1) or beveled hinge and lock edge (BV-2). See beveled detail pages D-27 and D-28.

CORE CONSTRUCTION

Standard core material to be one piece, UL listed, solid mineral fiberboard core.

HARDWARE

All doors are furnished with 7 gauge steel hinge reinforcements with three projection welds on each end. Extra long high frequency top hinge reinforcement provides additional welds for added strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 mortise or cylindrical (bored) locks. Additional hardware preparations available.

FINISH

Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water-based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

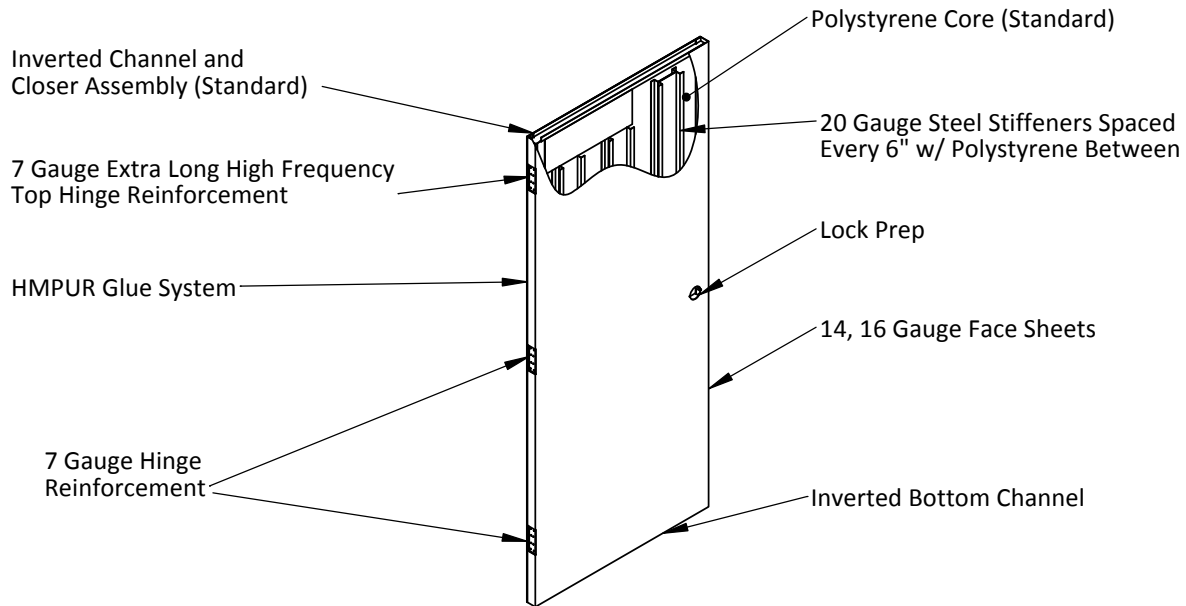
COMPLIANCE

As the oldest member of the Steel Door Institute, all Mesker Door units comply with ANSI A250.8 (R2008). Hardware preparations comply with ANSI A250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek), Underwriters Laboratories, and FM Global. For a complete list of product compliance per ANSI/ASTM test methods, please consult pages G-11 through G-14.



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ST-STEEL STIFFENED FLUSH DOOR



DOOR CONSTRUCTION

14 or 16 gauge, cold-rolled, gavannealed, or galvanized G90 steel face sheets to be securely bonded to the core. Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Optional seamless (NVS) (Patented Technology) edge available upon request. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. Optional flush top available upon request. Square edge standard. Optional beveled lock edge (BV-1) or beveled hinge and lock edge (BV-2). See beveled detail pages D-27 and D-28.

CORE CONSTRUCTION

Standard core material to be expanded polystyrene core. Optional non-fire rated cores: Urethane and Honeycomb.

HARDWARE

All doors are furnished with 7 gauge steel hinge reinforcements with three projection welds on each end. Extra long high frequency top hinge reinforcement provides additional welds for added strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 mortise or cylindrical (bored) locks. Additional hardware preparations available.

FINISH

Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water- based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

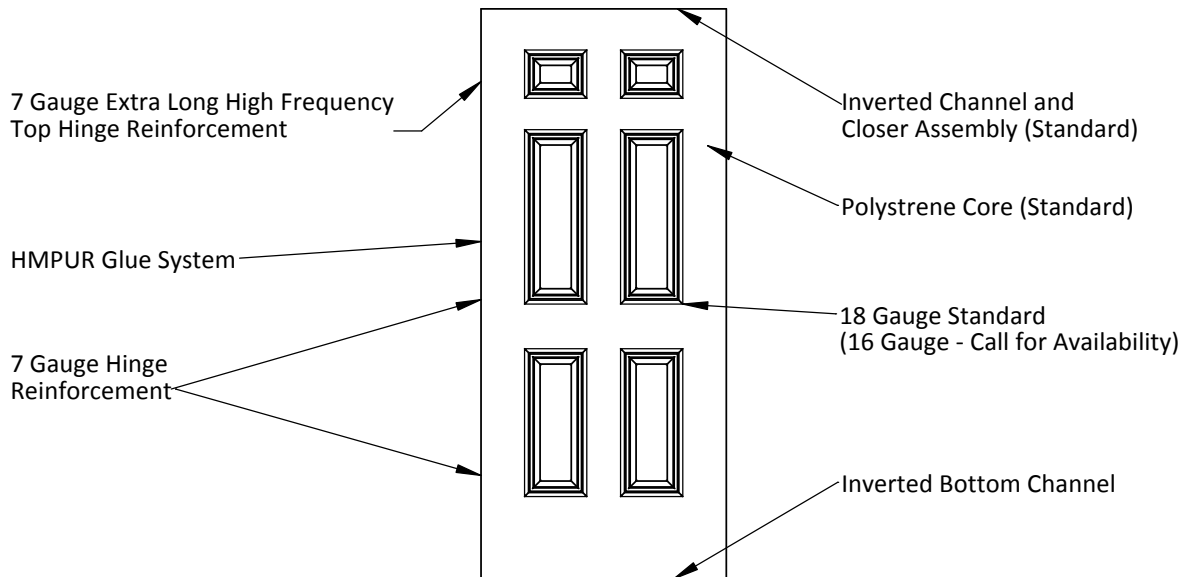
COMPLIANCE

As the oldest member of the Steel Door Institute, all Mesker Door units comply with ANSI A250.8 (R2008). Hardware preparations comply with ANSI A250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek), Underwriters Laboratories, and FM Global. For a complete list of product compliance per ANSI/ASTM test methods, please consult page G-11 through G-14.



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N - STANDARD SERIES FLUSH DOOR with "EP" Embossed Panel



DOOR CONSTRUCTION

16 or 18 gauge galvanized panel embossed stamped steel face sheets to be securely bonded to the core. Face sheets shall be embossed for the design indicated. Panel design available in Two Panel Arched (P2A) (Grooves or no grooves), Two Panel Square (P2S), Two Panel Bottom (P2B), Four Panel (P4), and Six Panel (SP). Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Optional seamless (NVS) (Patented Technology) edge available upon request. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. Optional flush top available upon request. Square edge standard. Optional beveled lock edge (BV-1) or beveled hinge and lock edge (BV-2). See beveled detail pages D-27 and D-28. Standard Sizes: 2'8" to 3'6" width and 6'8" to 8'0". (Special sizes and panel configurations available upon request)

CORE CONSTRUCTION

Standard core material to be expanded polystyrene core. Optional core: Polyurethane.

HARDWARE

All doors are furnished with 7 gauge steel hinge reinforcements with three projection welds on each end. Extra long high frequency top hinge reinforcement provides additional welds for added strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 mortise or cylindrical (bored) locks. Additional hardware preparations available.

FINISH

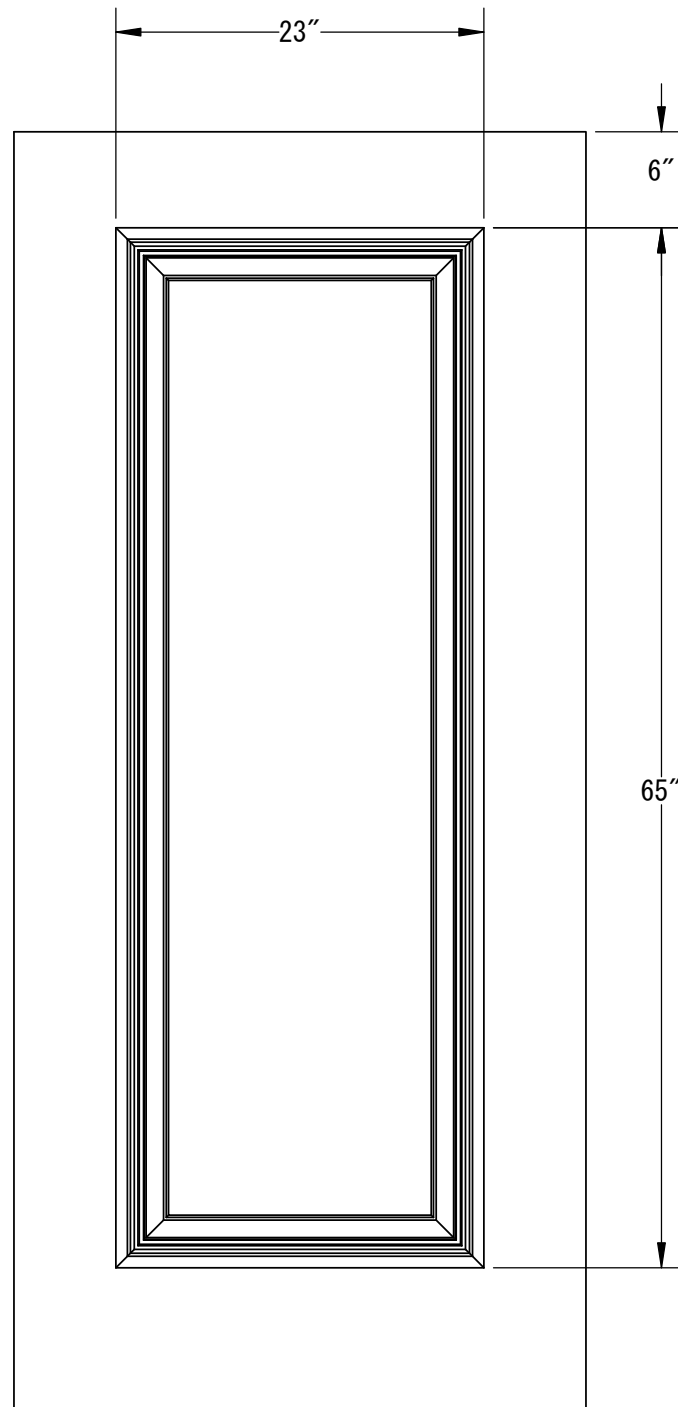
Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water- based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

COMPLIANCE

As the oldest member of the Steel Door Institute, all Mesker Door units comply with ANSI A250.8 (R2008). Hardware preparations comply with ANSI A250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek), Underwriters Laboratories, and FM Global. For a complete list of product compliance per ANSI/ASTM test methods, please consult page G-11 through G-14.



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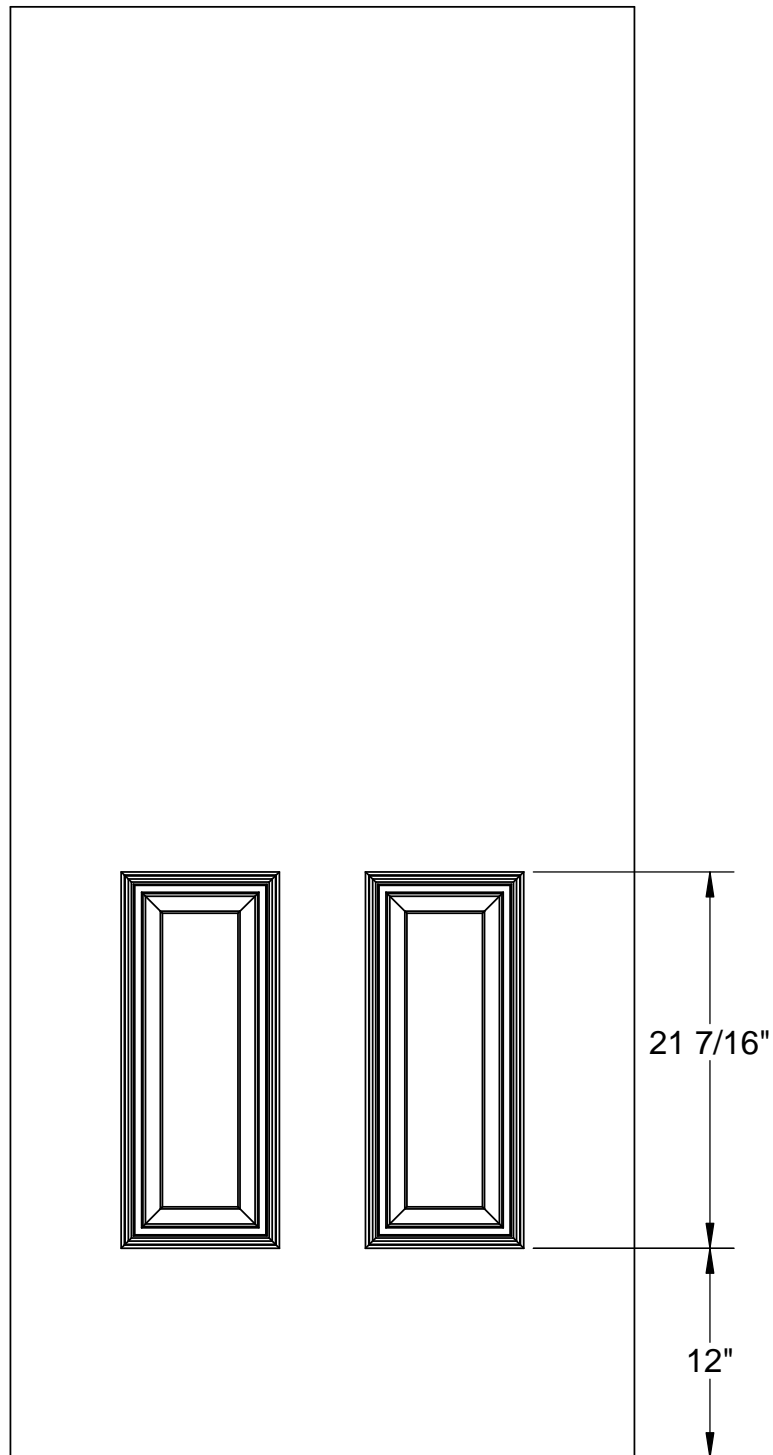
**EMBOSSED PANEL DOORS
SINGLE PANEL (P1)**

P1
(HIGH DEFINITION)



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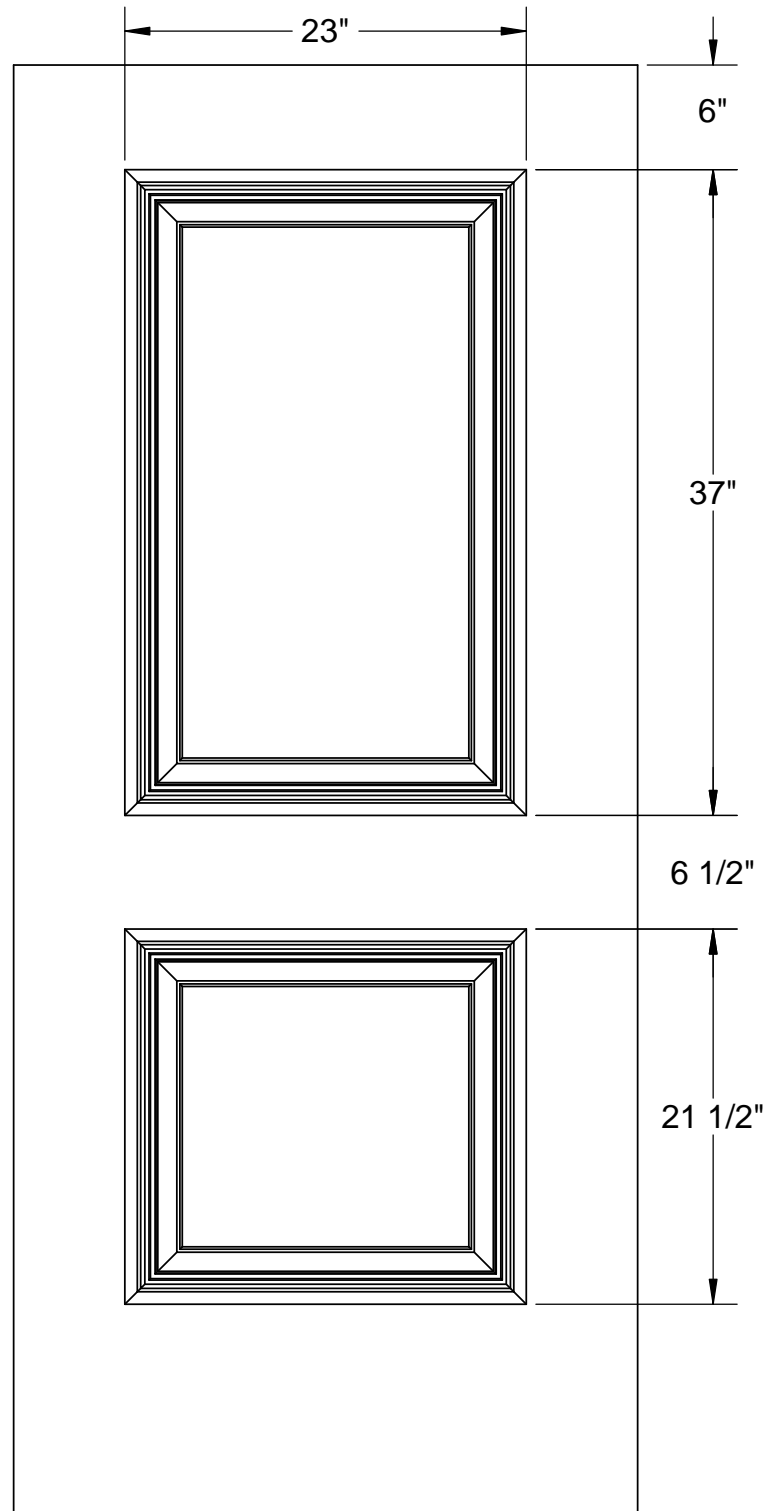
**EMBOSED PANEL DOORS
TWO PANEL BOTTOM (P2B)**



**P2B
(HIGH DEFINITION)**



**EMBOSSED PANEL DOORS
SQUARE TWO PANEL (P2S)**

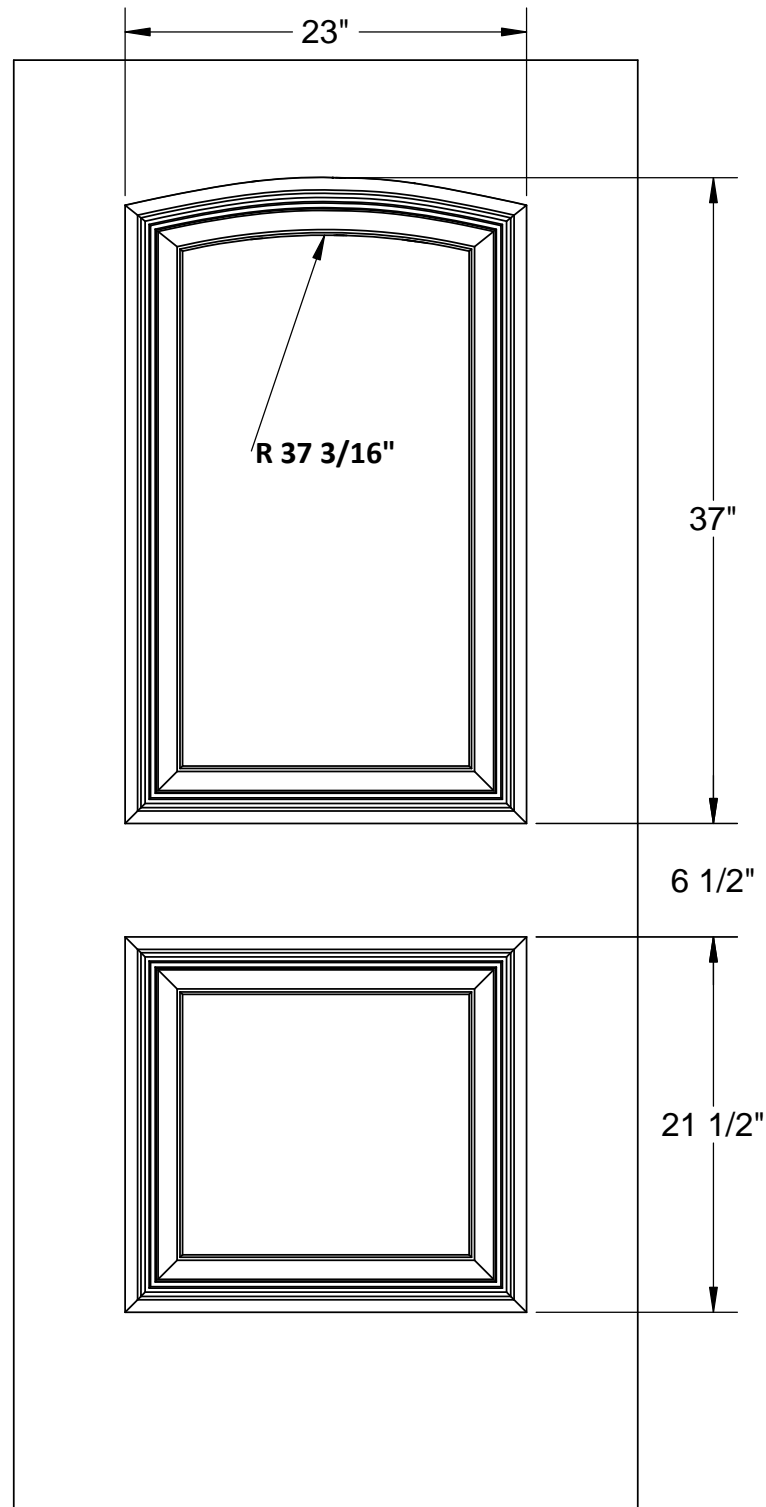


**P2S
(HIGH DEFINITION)**



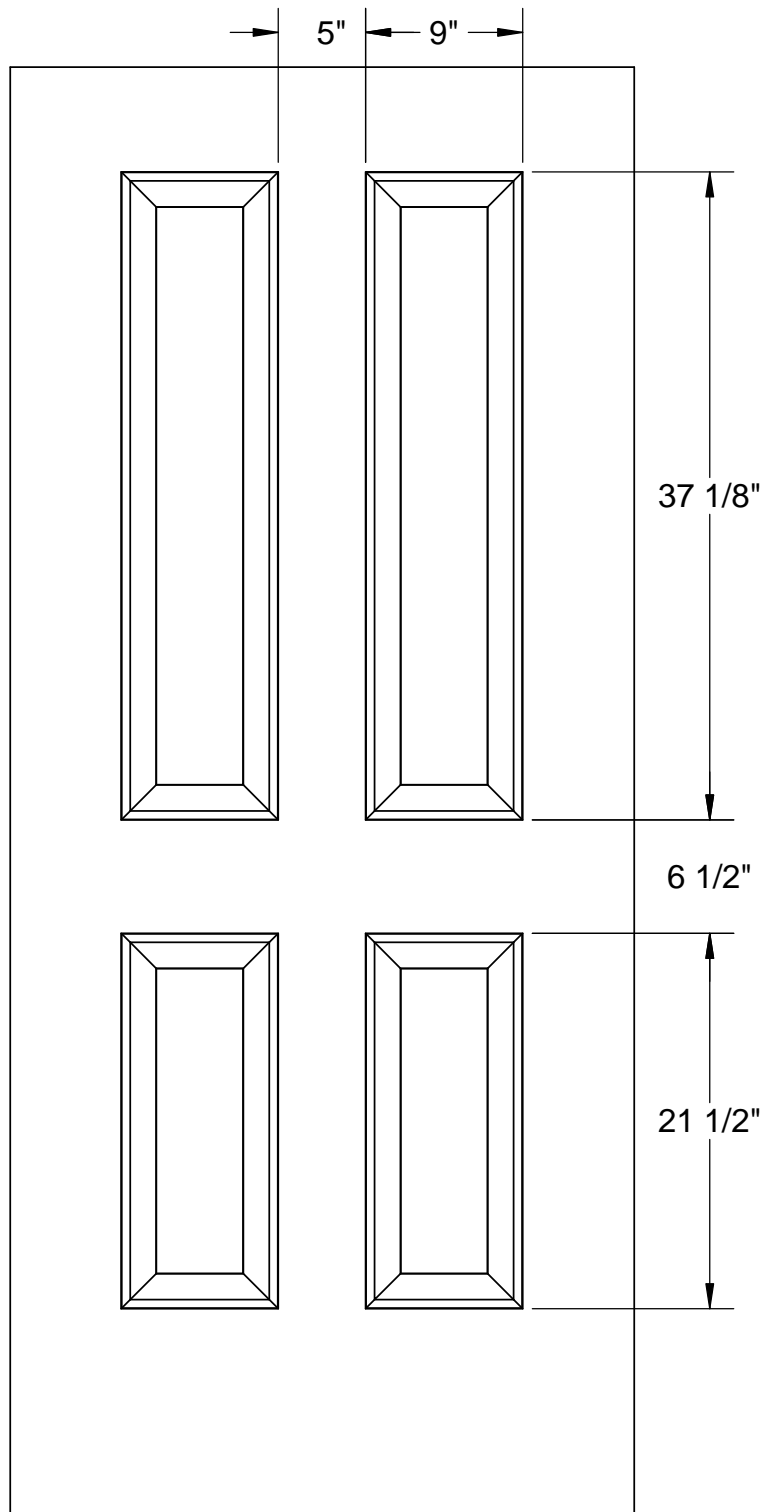
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**EMBOSSED PANEL DOORS
ARCHED TWO PANEL (P2A)**



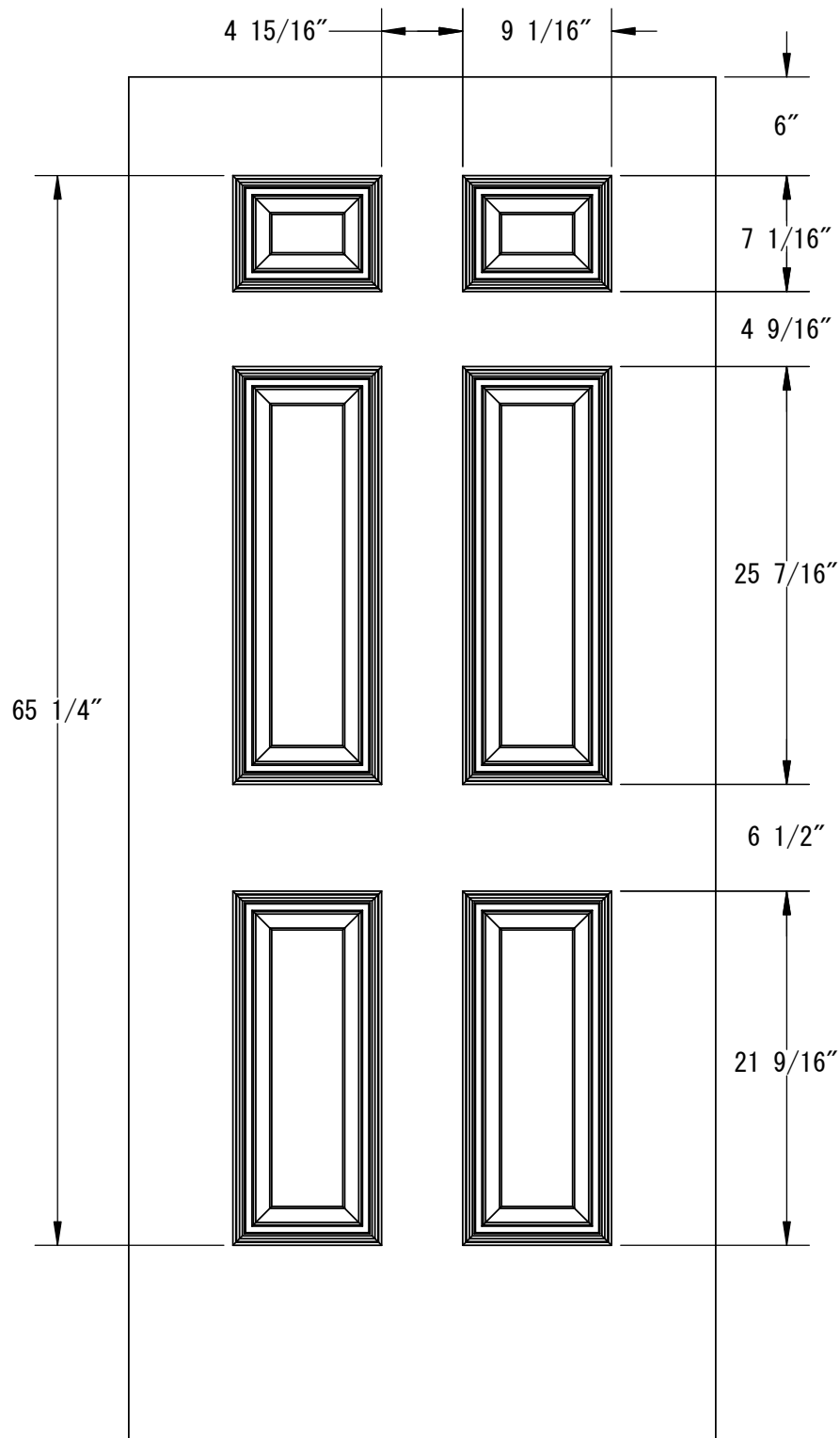
**P2A
(HIGH DEFINITION)**



**EMBOSED PANEL DOORS
FOUR PANEL (P4)**

**P4
(STANDARD DEFINITION)**



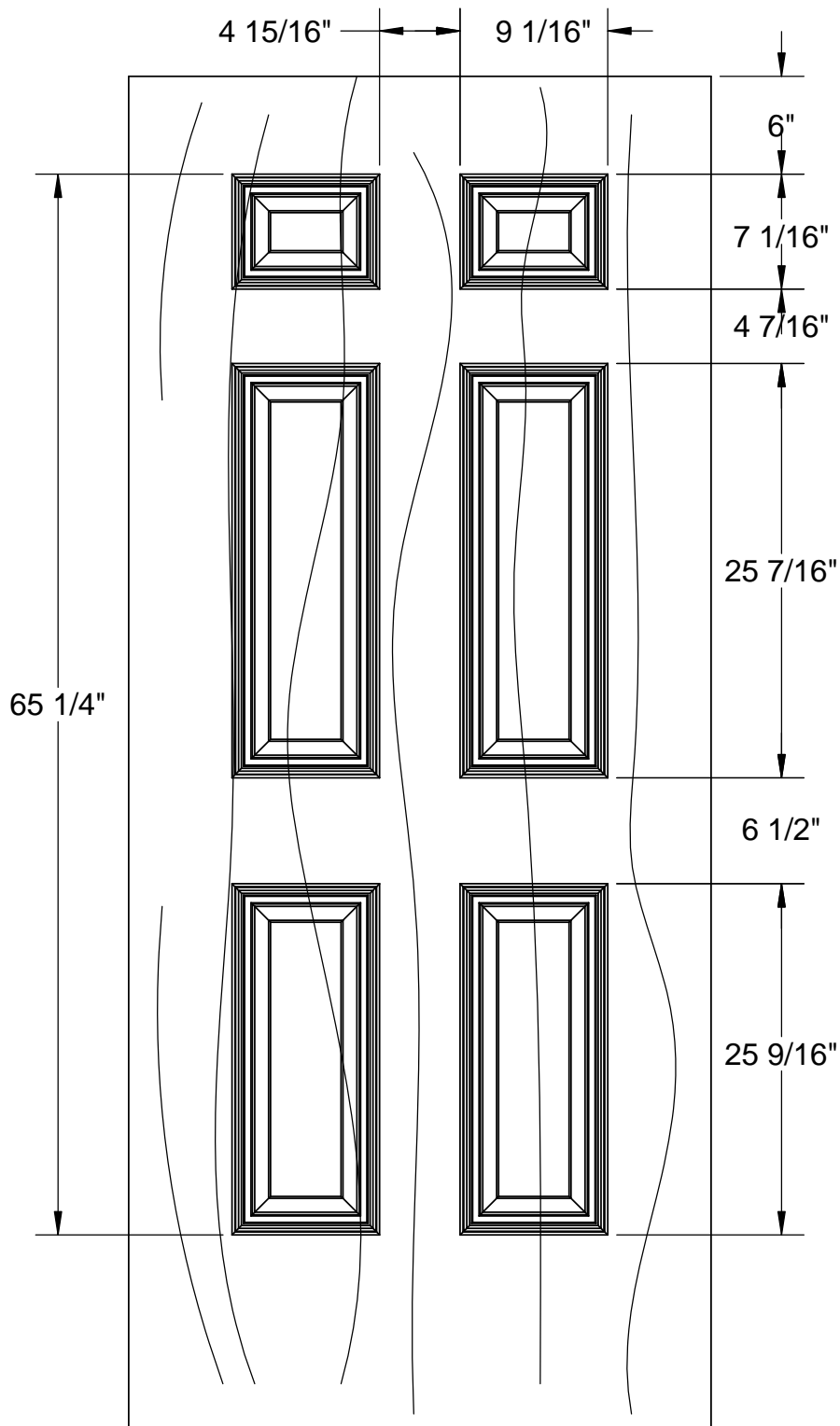
**EMBOSSED PANEL DOORS
SIX PANEL (SP)**

**SP
(HIGH DEFINITION)**



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**EMBOSSED PANEL DOORS
SIX PANEL WOODGRAIN (SPW)**

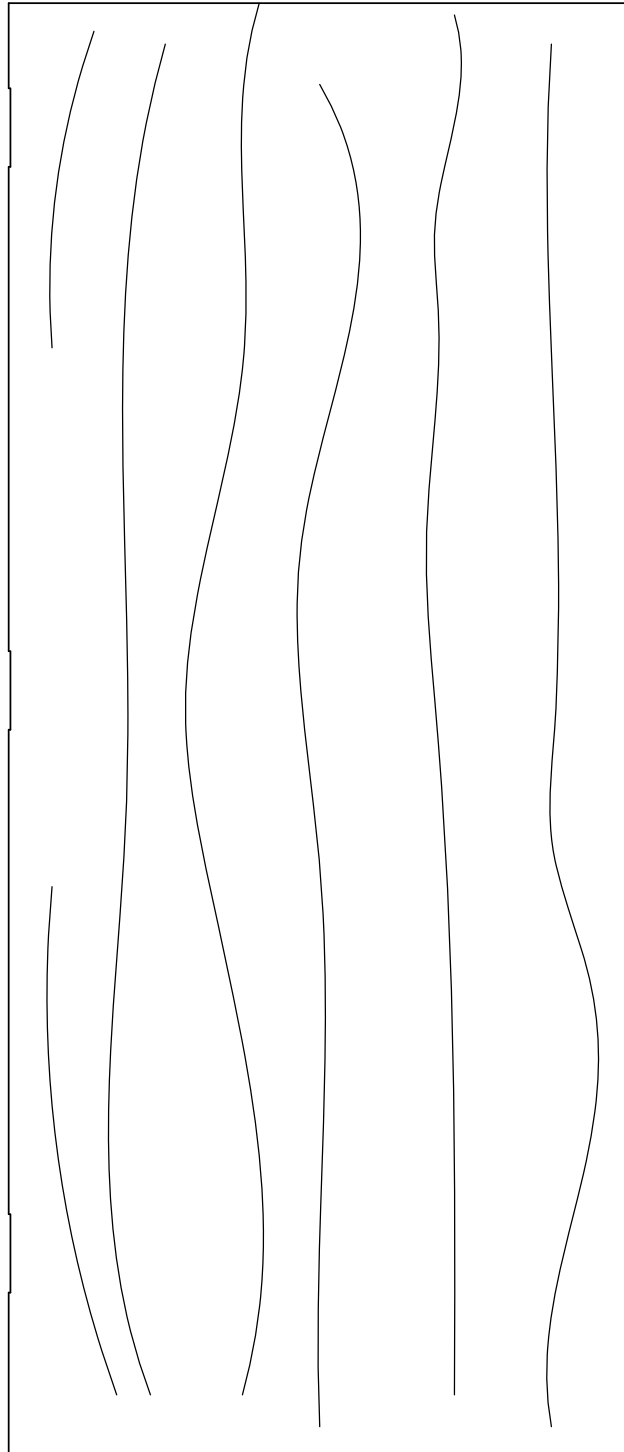


**SPW
(HIGH DEFINITION)**



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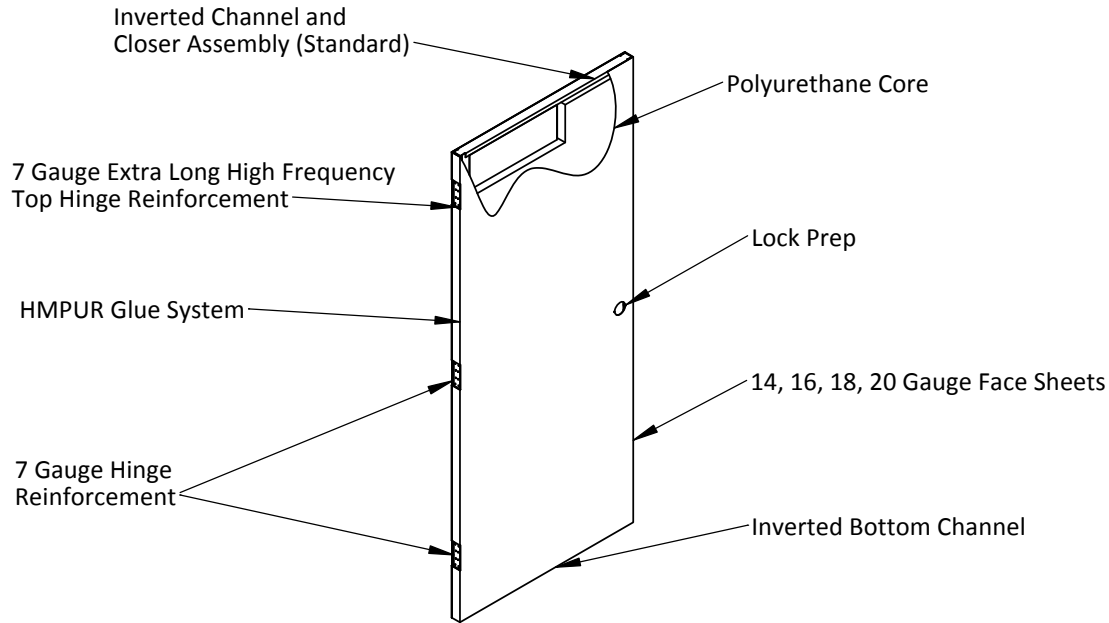
**EMOSSED PANEL DOORS
WOODGRAIN (NW)**



NW



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NU - STANDARD SERIES FLUSH DOOR**DOOR CONSTRUCTION**

14, 16, 18, 20 gauge, cold-rolled, gavannealed, or Galvanized G90 steel face sheets to be securely bonded to the core. Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Optional seamless (NVS) (Patented Technology) edge available upon request. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. Optional flush top available upon request. Square edge standard. Optional beveled lock edge (BV-1) or beveled hinge and lock edge (BV-2). See beveled detail pages D-27 and D-28.

CORE CONSTRUCTION

Standard core material to be expanded polyurethane core.

HARDWARE

All doors are furnished with 7 gauge steel hinge reinforcements with three projection welds on each end. Extra long high frequency top hinge reinforcement provides additional welds for added strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 mortise or cylindrical (bored) locks. Additional hardware preparations available.

FINISH

Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water- based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

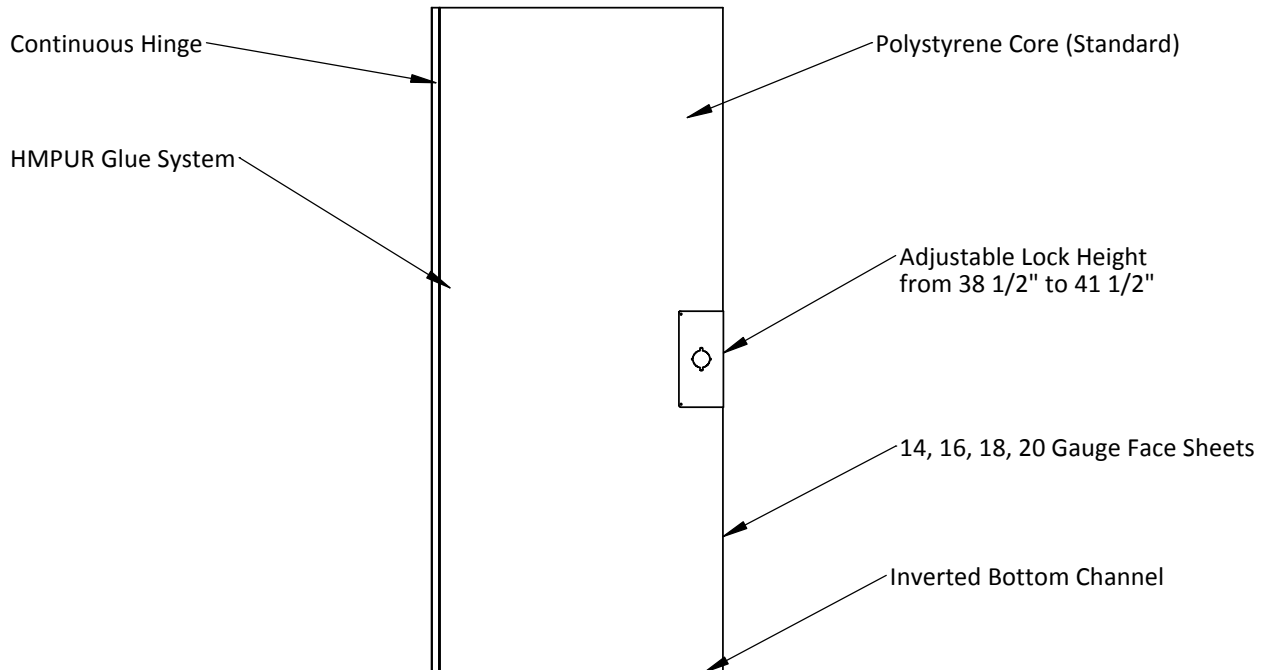
COMPLIANCE

As the oldest member of the Steel Door Institute, all Mesker Door units comply with ANSI A250.8 (R2008). Hardware preparations comply with ANSI A250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek), Underwriters Laboratories, and FM Global. For a complete list of product compliance per ANSI/ASTM test methods, please consult pages G-11 through G-14.



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SLIDE LOCK DOOR



DOOR CONSTRUCTION

14, 16, 18, or 20 gauge, cold-rolled, gavannealed, or galvanized G90 steel face sheets to be securely bonded to the core. Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Optional seamless (NVS) edge available upon request. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. Optional flush top available upon request. Square edge standard. Optional beveled lock edge (BV-1) or beveled hinge and lock edge (BV-2). See beveled detail pages D-27 and D-28.

CORE CONSTRUCTION

Standard core material to be expanded polystyrene core. Optional cores: Honeycomb, Polyurethane, Fiberboard.

HARDWARE

All doors are furnished with a steel continuous hinge reinforcement providing additional strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 cylindrical (bored) locks. Additional hardware preparations available.

FINISH

Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water- based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

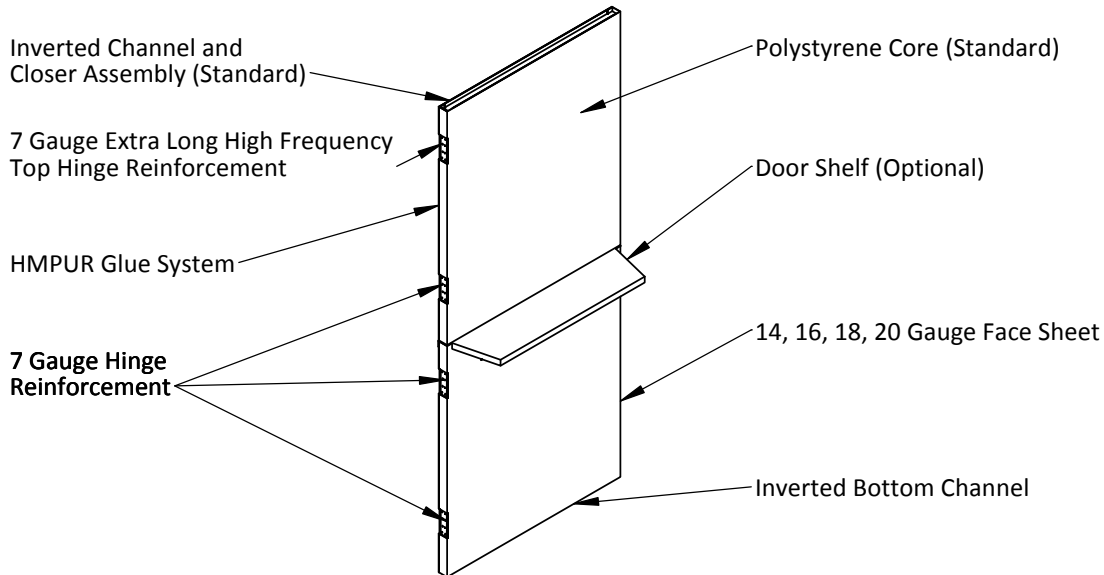
COMPLIANCE

As the oldest member of the Steel Door Institute, all Mesker Door units comply with ANSI A250.8 (R2008). Hardware preparations comply with ANSI A250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek), Underwriters Laboratories, and FM Global. For a complete list of product compliance per ANSI/ASTM test methods, please consult page G-11 through G-14.



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NDD-DUTCH DOOR



DOOR CONSTRUCTION

14, 16, 18, 20 gauge, cold-rolled, gavannealed, or galvanized G90 steel face sheets to be securely bonded to the core. Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Optional seamless (NVS) (Patented Technology) edge available upon request. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. Optional flush top available upon request. Square edge standard. Optional beveled lock edge (BV-1) or beveled hinge and lock edge (BV-2). See beveled detail pages D-24 and D-28. Optional dutch door shelves.

CORE CONSTRUCTION

Standard core material to be expanded polystyrene core. Optional cores: Honeycomb, Polyurethane, Fiberboard.

HARDWARE

All doors are furnished with 7 gauge steel hinge reinforcements with three projection welds on each end. Extra long high frequency top hinge reinforcement provides additional welds for added strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 mortise or cylindrical (bored) locks. Additional hardware preparations available.

FINISH

Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water-based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

COMPLIANCE

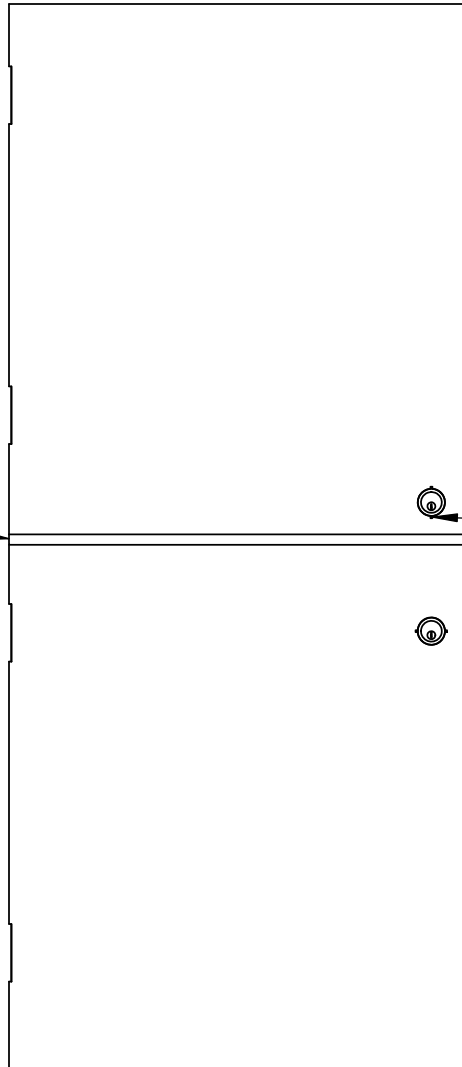
As the oldest member of the Steel Door Institute, all Mesker Door units comply with ANSI A250.8 (R2008). Hardware preparations comply with ANSI A250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek), Underwriters Laboratories, and FM Global. For a complete list of product compliance per ANSI/ASTM test methods, please consult pages G-11 through G-14.



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NDD - DUTCH DOOR FIRE RATED

**ASTRAGAL REQUIRED
FOR FIRE RATED
SHELF NOT ALLOWED**

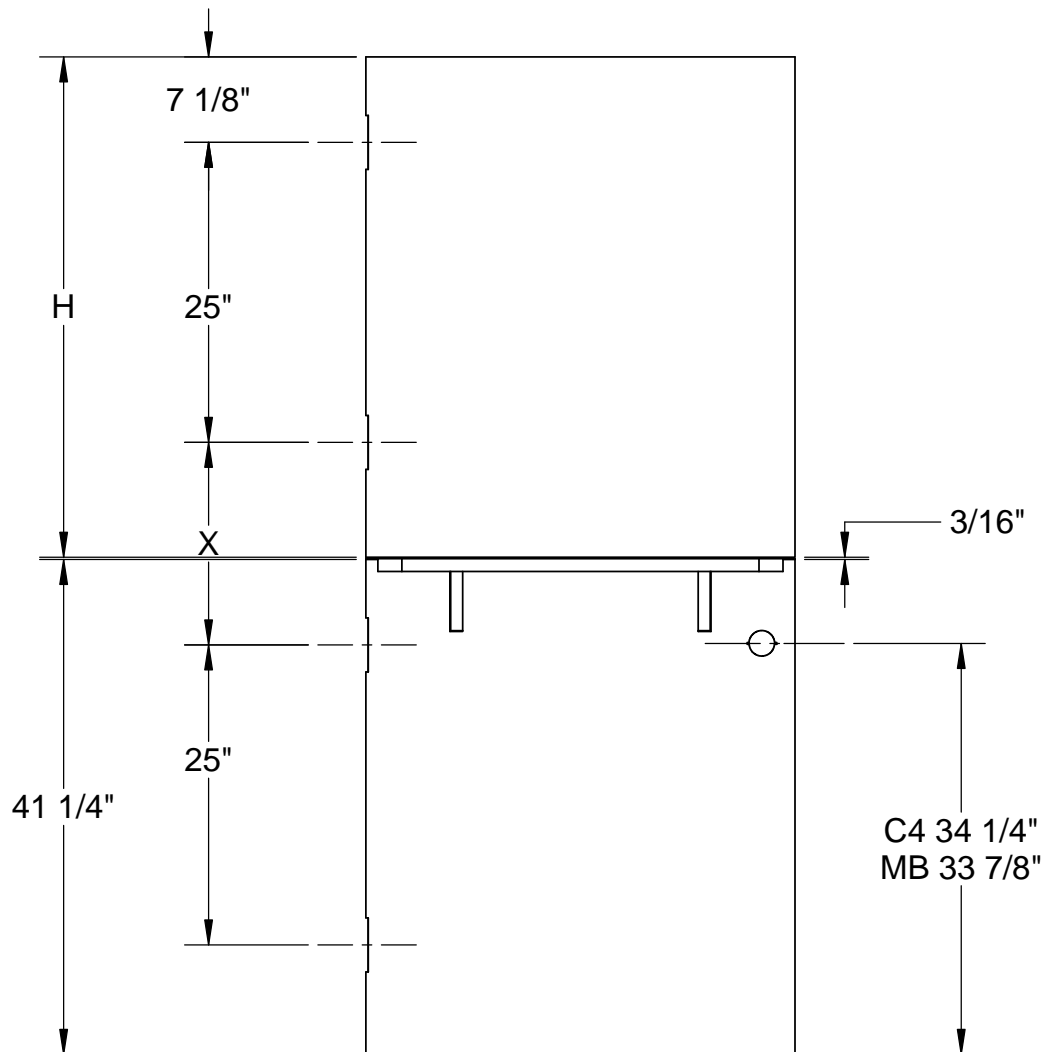


**THIS LOCK CAN LATCH
TO BOTTOM LEAF OR
FRAME**



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NDD - DUTCH DOORS



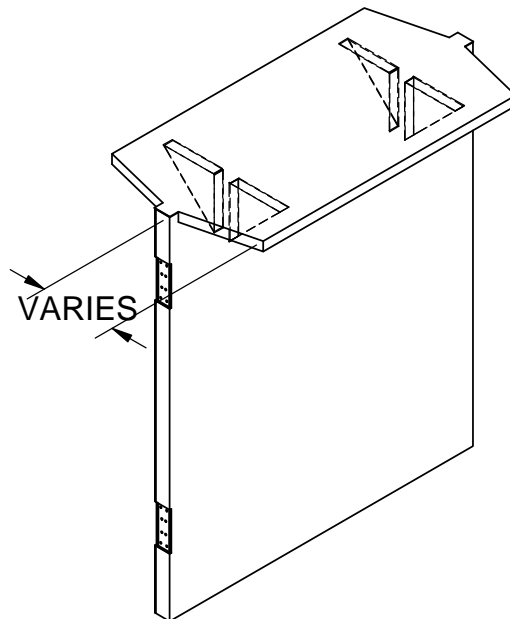
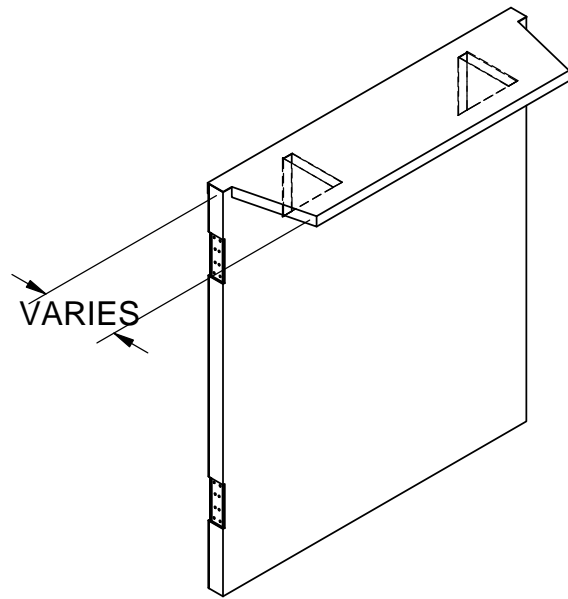
DOOR HEIGHT	H	X
6' 8"	3' 1 11/16"	12 7/8"
7' 0"	3' 5 11/16"	16 7/8"
7' 2"	3' 7 11/16"	18 7/8"

CUSTOM SIZES AVAILABLE UPON REQUEST



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NDD - DUTCH DOORS

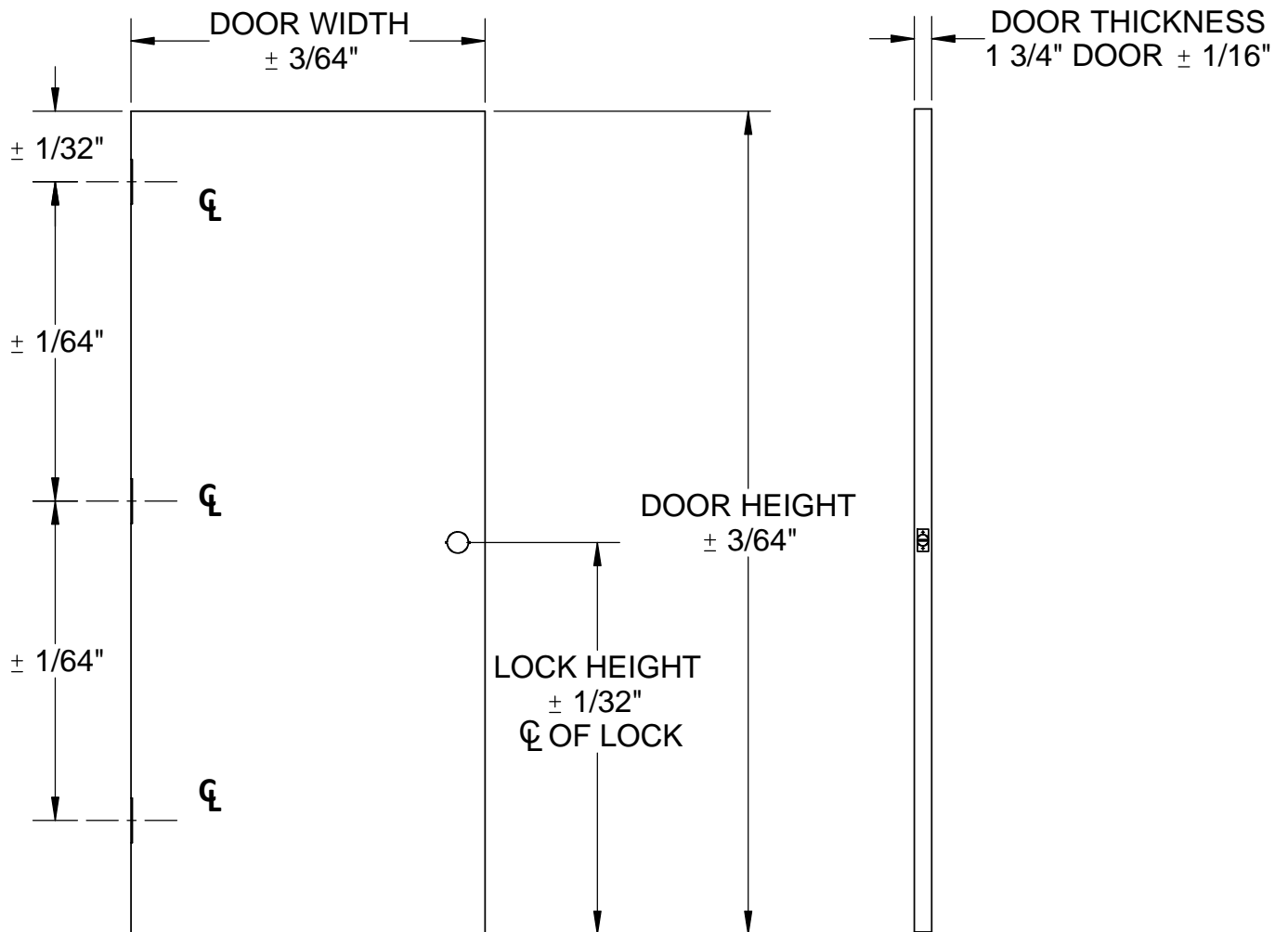


SHELF LENGTHS
6", 8", 10"

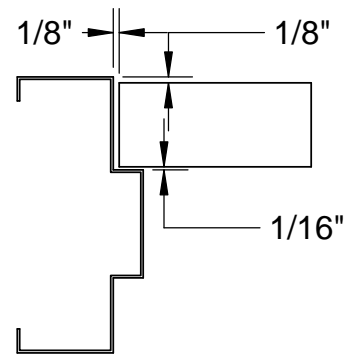
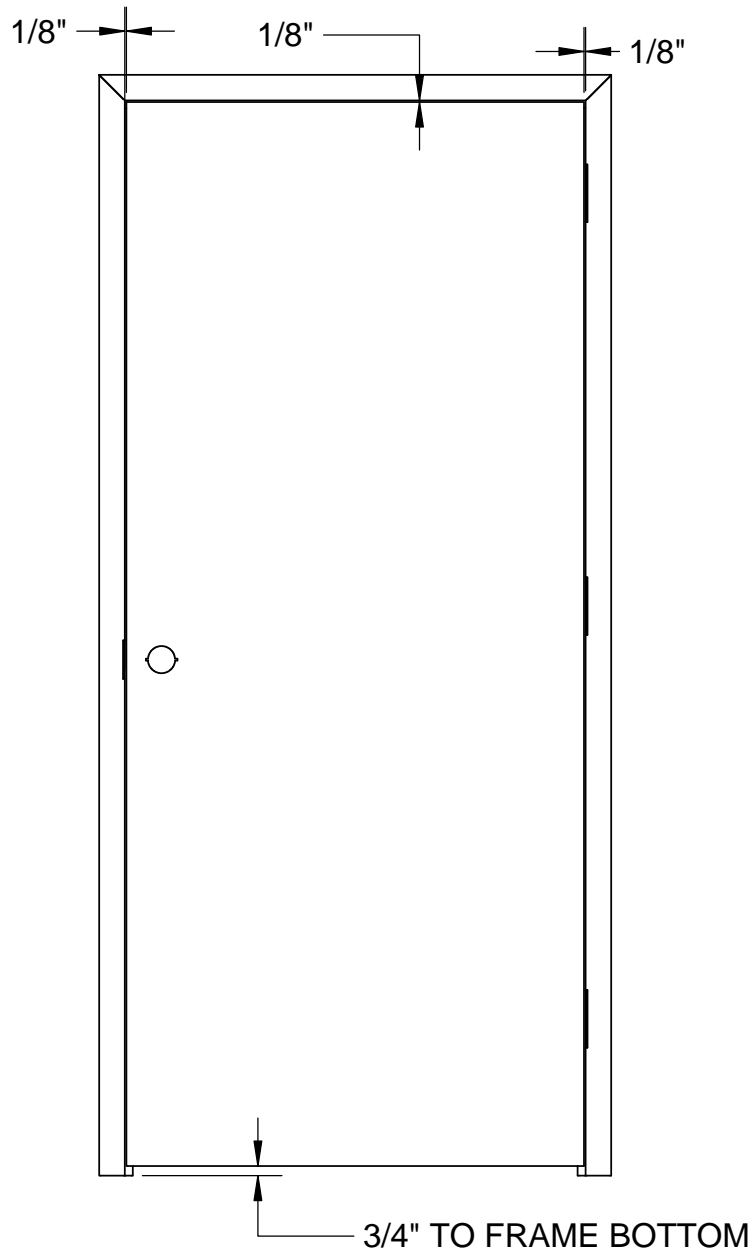


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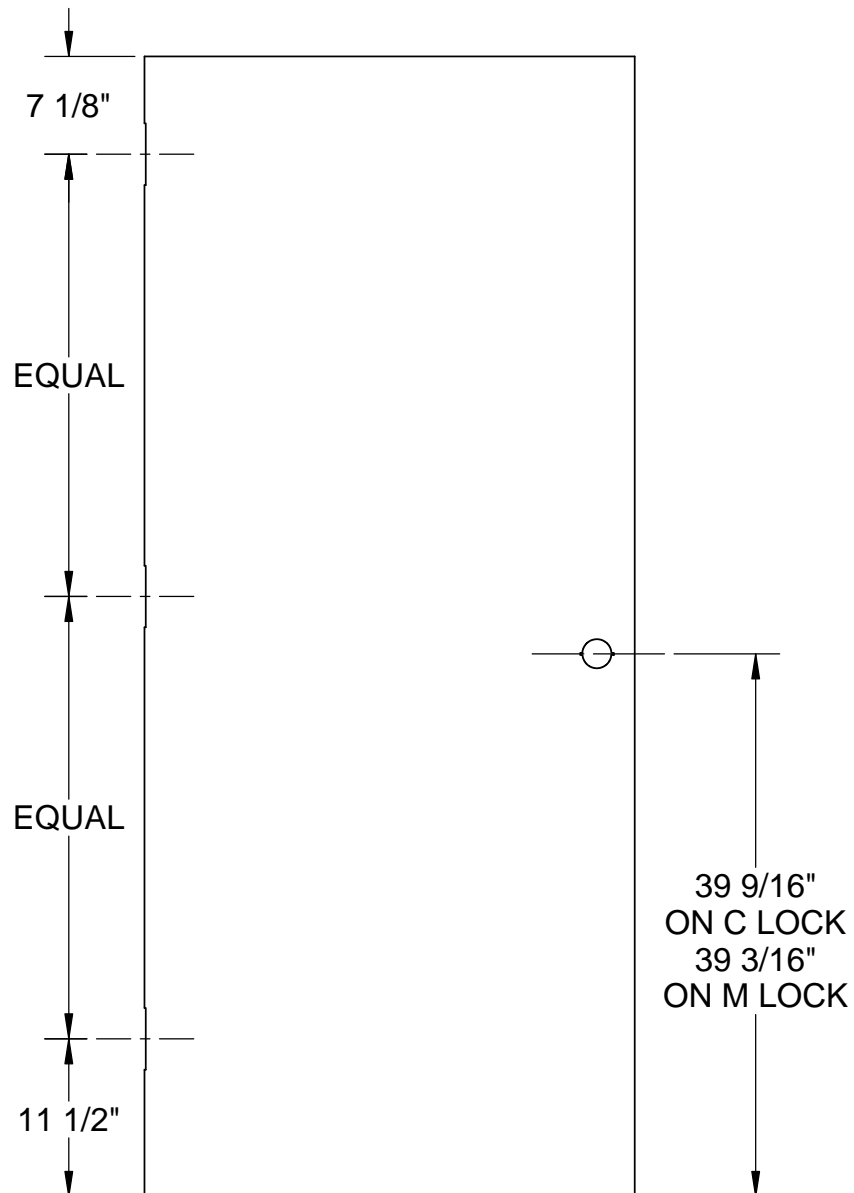
DOOR TOLERANCES

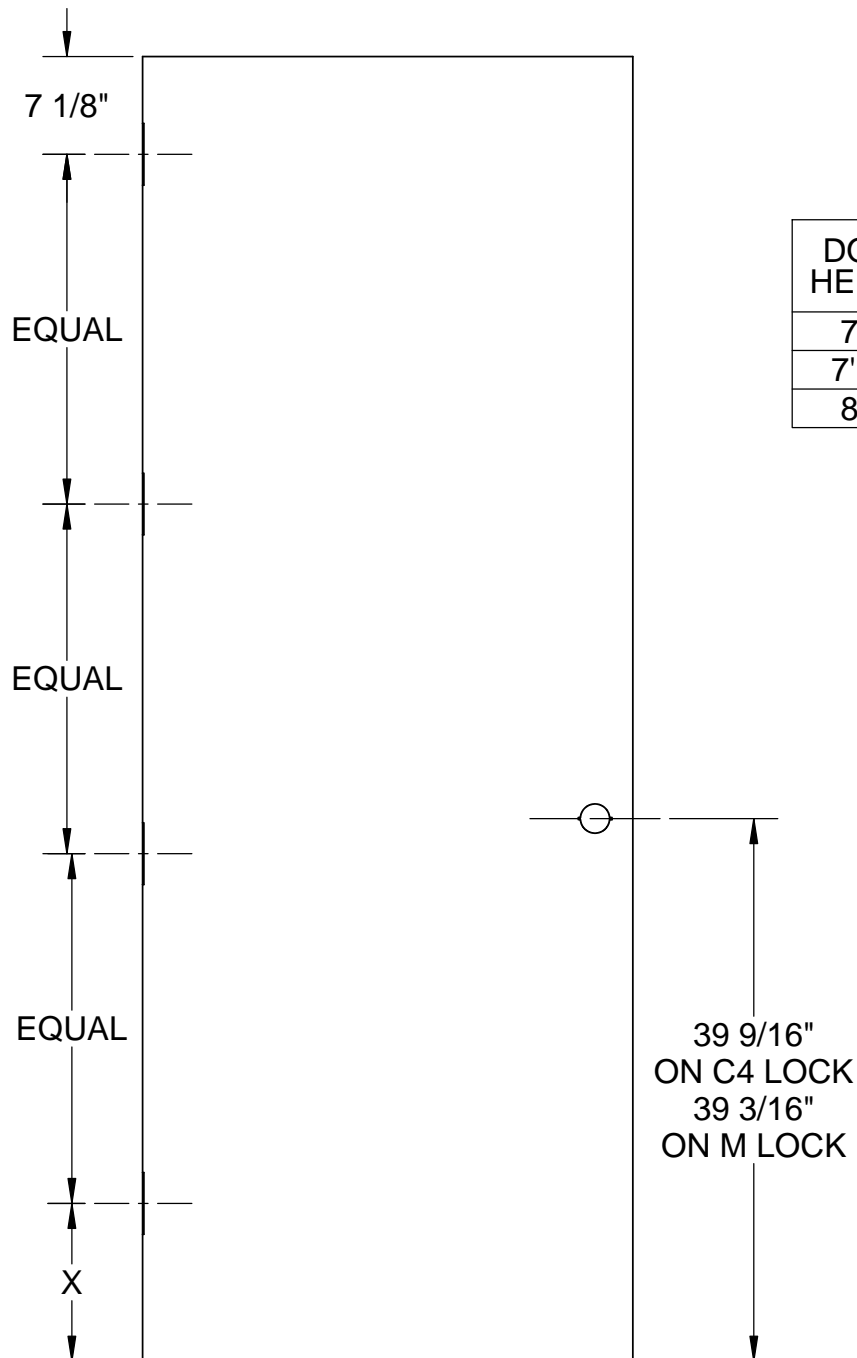


STANDARD CLEARANCES



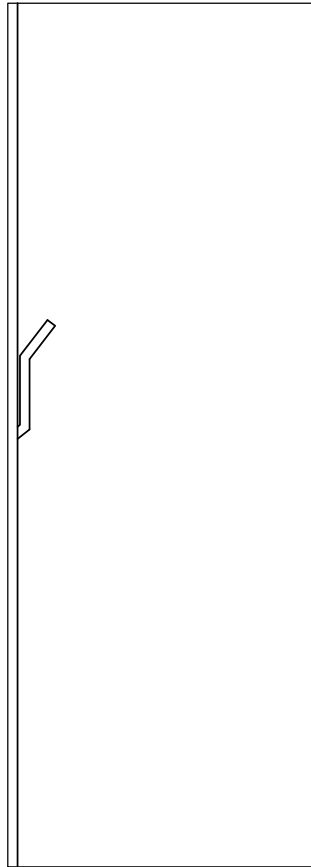
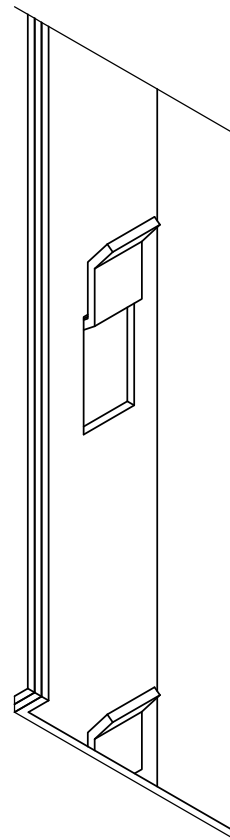
HINGE AND LOCK LOCATIONS

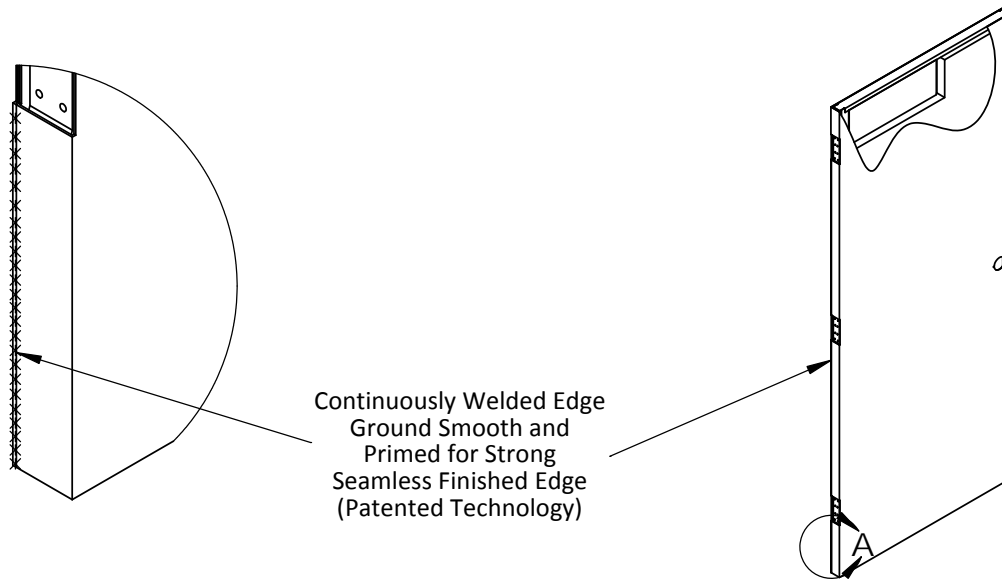


**HINGE AND LOCK LOCATIONS ON
DOORS TALLER THAN 7' 6"**

DOOR HEIGHT	DIM X
7' 8"	10 1/2"
7' 10"	9 1/2"
8' 0"	11 1/2"



INTERLOCKING TAB SYSTEM**SIDE VIEW****ISOMETRIC VIEW**

NVS - NO VISIBLE SEAM SEAMLESS**DOOR CONSTRUCTION**

14, 16, 18, 20 gauge, cold-rolled or gavannealed steel face sheets to be securely bonded to the core. Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. In addition to the requirements for full flush doors, no visible seams are permitted along the vertical edges. When a seamless door is specified, the vertical door seams will be continuously welded, and dressed smooth, with no bondo, putty, or filler. Optional flush top available upon request. Square edge standard. Optional beveled lock edge (BV-1) or beveled hinge and lock edge (BV-2). See beveled detail pages D-27 and D-28.

NVS requires a 6" minimum from all cutouts to door edge for louvers and glazing.

CORE CONSTRUCTION

Standard core material to be expanded polystyrene core. Optional cores: Honeycomb, Polyurethane, Fiberboard.

HARDWARE

All doors are furnished with 7 gauge steel hinge reinforcements with three projection welds on each end. Extra long high frequency top hinge reinforcement provides additional welds for added strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 mortise or cylindrical (bored) locks. Additional hardware preparations available.

FINISH

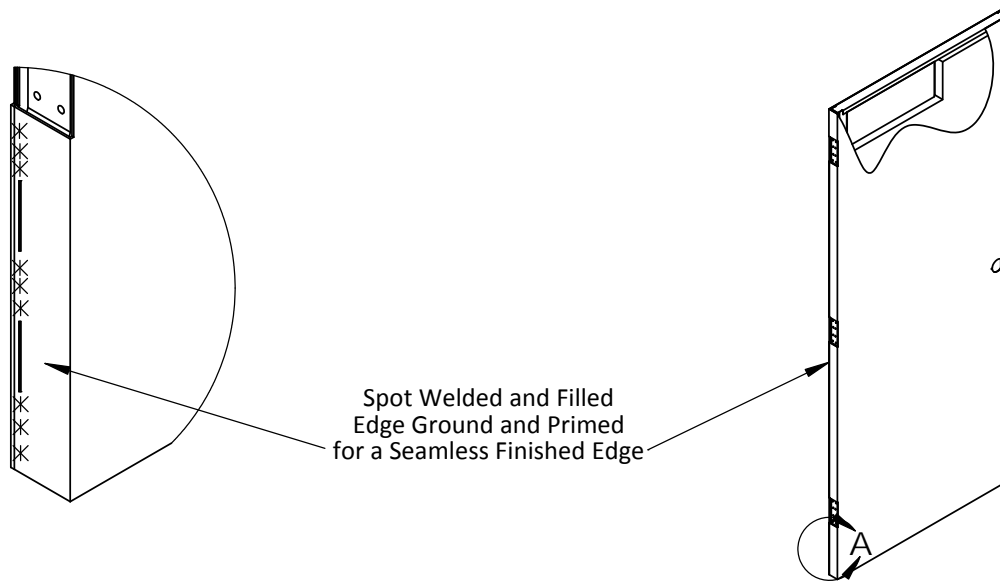
Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water- based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

COMPLIANCE

As the oldest member of the Steel Door Institute, all Mesker Door units comply with ANSI A 250.8 (R2008). Hardware preparations comply with ANSI A 250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek), Underwriters Laboratories, and FM Global. For a complete list of product compliance per ANSI/ASTM test methods, please consult pages G-11 through G-14.



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N - SERIES DOOR SEAM FILLED**DOOR CONSTRUCTION**

14, 16, 18, or 20 gauge, cold-rolled or gavannealed steel face sheets to be securely bonded to the core. Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. Optional flush top available upon request. Square edge standard. Optional beveled lock edge (BV-1) or beveled hinge and lock edge (BV-2). See beveled detail pages D-27 and D-28.

CORE CONSTRUCTION

Standard core material to be expanded polystyrene core. Optional cores: Honeycomb, Polyurethane, Fiberboard.

HARDWARE

All doors are furnished with 7 gauge steel hinge reinforcements with three projection welds on each end. Extra long high frequency top hinge reinforcement provides additional welds for added strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 mortise or cylindrical (bored) locks. Additional hardware preparations available.

FINISH

Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water- based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

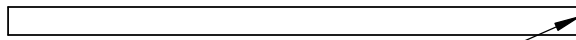
COMPLIANCE

As the oldest member of the Steel Door Institute, all Mesker Door units comply with ANSI A 250.8 (R2008). Hardware preparations comply with ANSI A 250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek), Underwriters Laboratories, and FM Global. For a complete list of product compliance per ANSI/ASTM test methods, please consult pages G-11 through G-14.

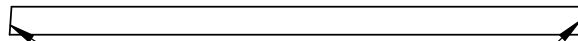


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BEVELED EDGE

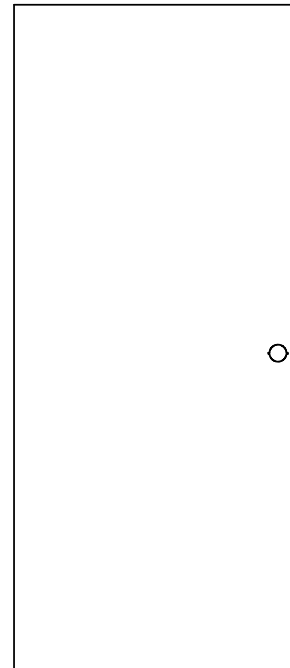


**Lock Edge Beveled
(BV1)**



**Lock and Hinge Edge Beveled
(BV2)**

All inactive leaves of pairs will be manufactured as square edge.



**Lock Edge
Beveled**

DOOR CONSTRUCTION

14, 16, 18, or 20 gauge, cold-rolled, gavannealed, or galvanized G90 steel face sheets to be securely bonded to the core. Doors shall have hemmed vertical edge seams, mechanically interlocked for maximum structural integrity. Optional seamless (NVS) edge available upon request. Top and bottom of doors shall be closed and reinforced with an inverted continuous channel and welded to both faces. Optional flush top available upon request.

CORE CONSTRUCTION

Standard core material to be expanded polystyrene core. Optional cores: Honeycomb, Polyurethane, Fiberboard.

HARDWARE

All doors are furnished with 7 gauge steel hinge reinforcements with three projection welds on each end. Extended top hinge reinforcement provides additional welds for added strength and extra protection against sagging. Doors have a factory installed 14 gauge box type closer reinforcement securely welded to top channel. Doors shall be mortised and adequately reinforced for all hardware. Required mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others. Lockset preparation shall provide for field installation of locksets manufactured in accordance with ANSI A156.115 mortise or cylindrical (bored) locks. Additional hardware preparations available.

FINISH

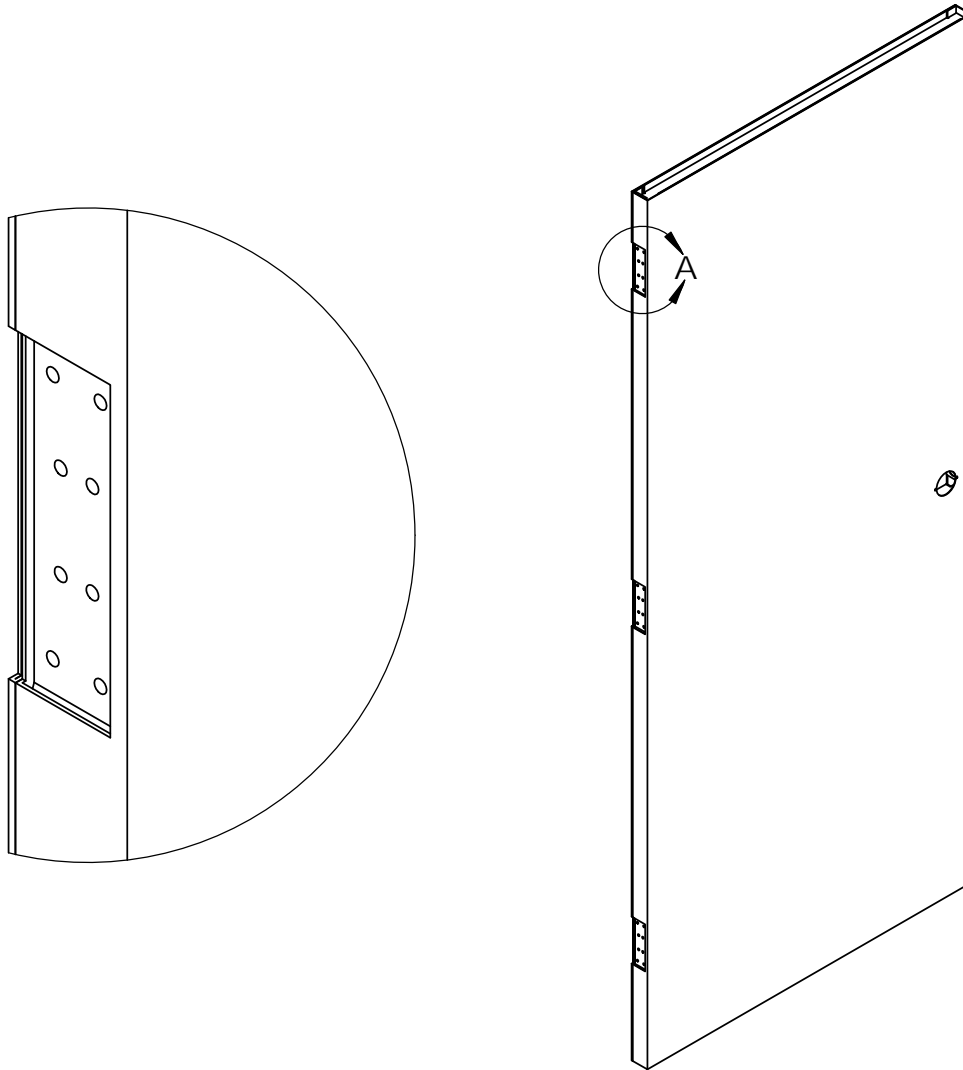
Exposed door surfaces to be cleaned, treated, and coated with rust inhibitive primer. Color painted doors receive a durable, electrostatic, baked on finish. Water- based primer and color paint finishes are free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOC).

COMPLIANCE

All Mesker Door units comply with ANSI A 250.8 (R2008). Hardware Preparations comply with ANSI A 250.6. Primer and color compliant with ANSI A250.10 and ANSI A250.3. Fire labeling in accordance with NFPA-8015 FM (standard), WHI (Intertek) and Underwriters Laboratories. For a complete list of product compliance per ANSI/ASTM test methods, please consult pages G-11 through G-14.



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HANDED BEVELED EDGE DOOR

All inactive leaves of pairs will be manufactured as square edge.



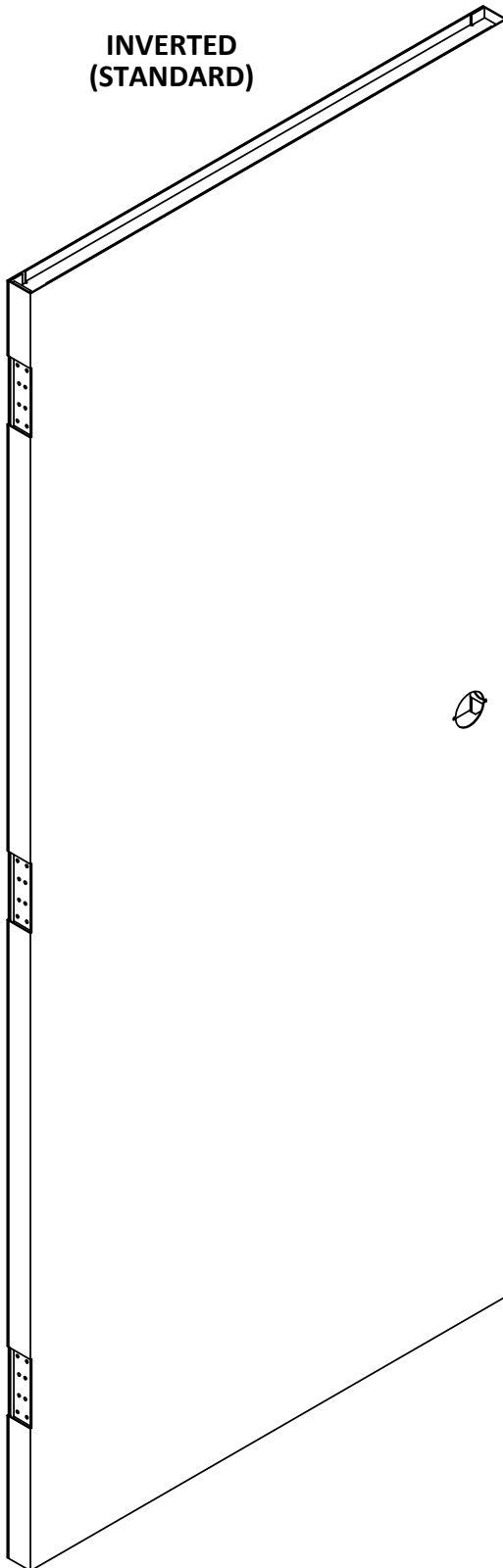
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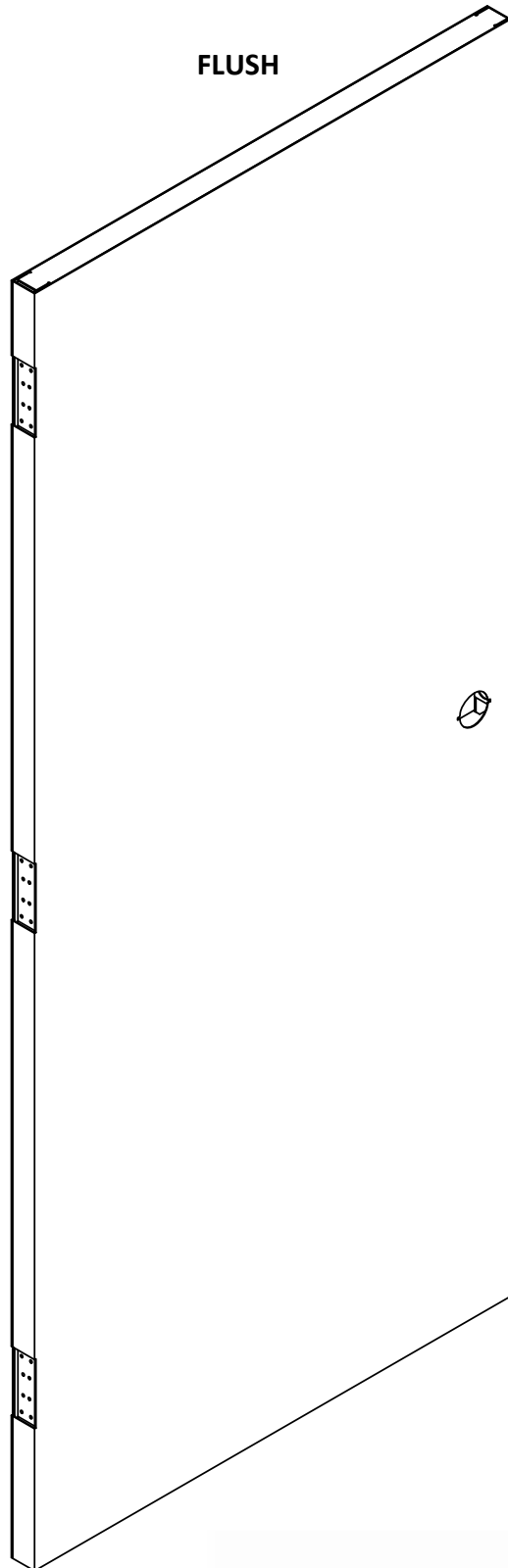
Door Preps

Flush Top	DP-1
Sealed Top Channel.....	DP-2
Monorail Cutout.....	DP-3
Flush Bolt Prep with Astragal.....	DP-4
Flush Bolt Prep without Astragal	DP-5
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Z Astragal Handing	DP-8
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Glass Kit Recommended Locations 2 of 3	DP-10
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Concealed Closer/Holder	DP-34

OPTIONAL FLUSHTOP CHANNEL

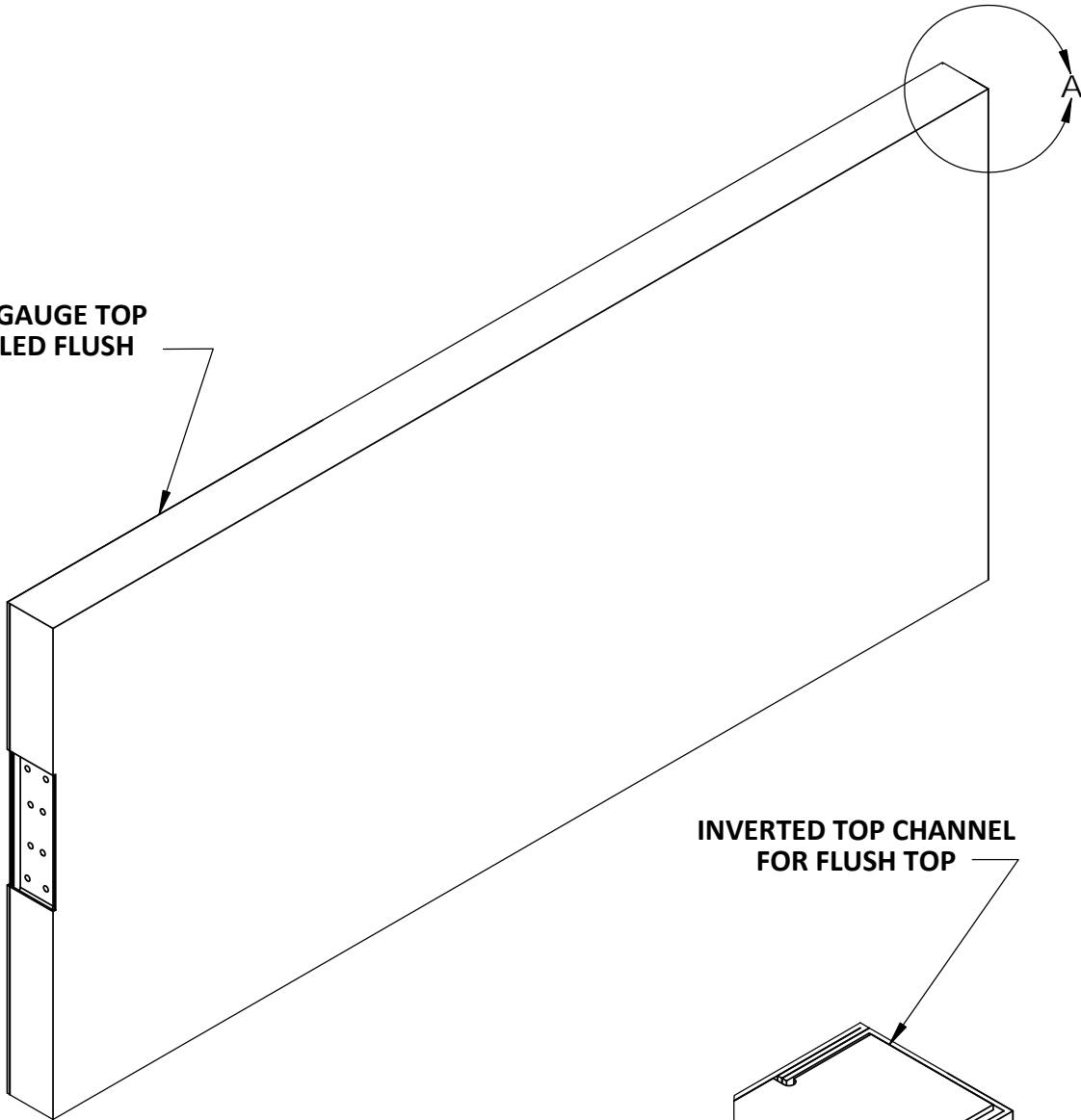
INVERTED
(STANDARD)

FLUSH

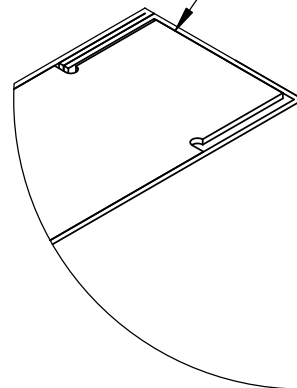


DOORS
FLUSH SEALED TOP CHANNEL

**INVERTED 16 GAUGE TOP
CHANNEL FILLED FLUSH**



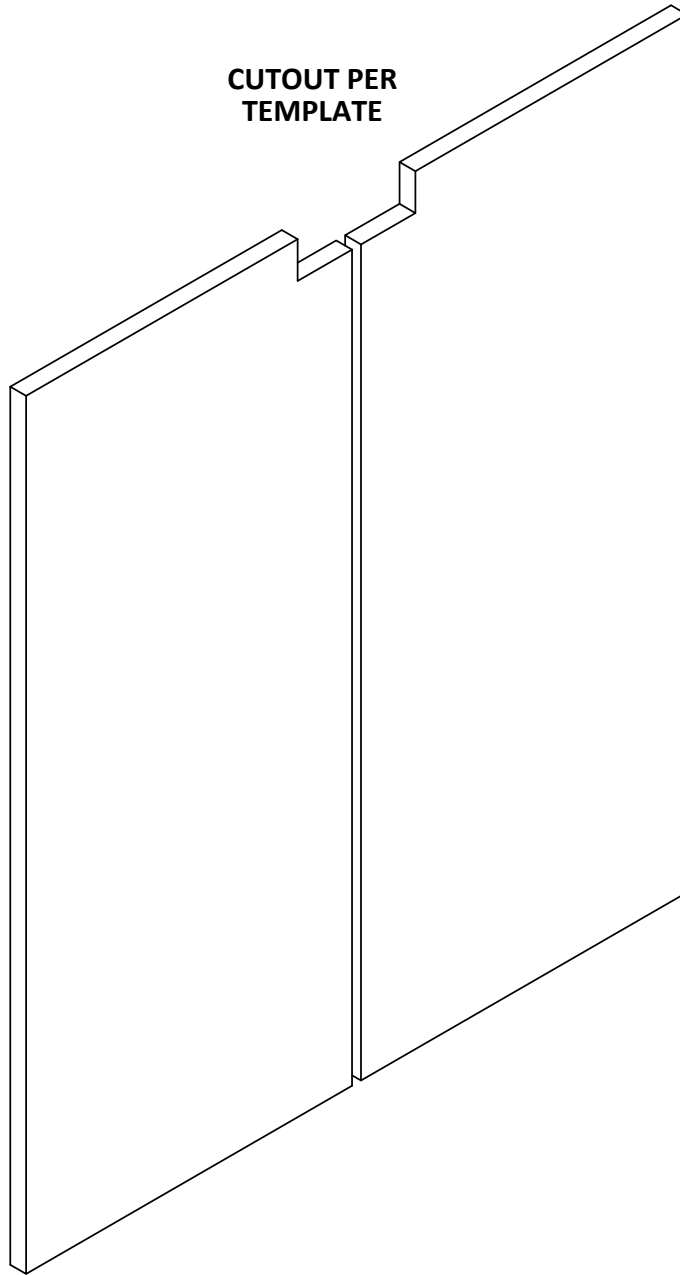
**INVERTED TOP CHANNEL
FOR FLUSH TOP**



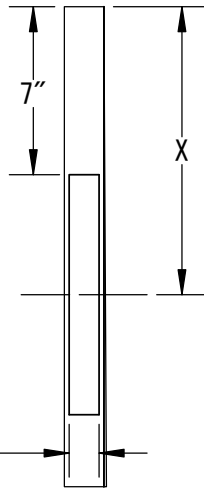
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MONORAIL CUTOUT

CUTOUT PER
TEMPLATE

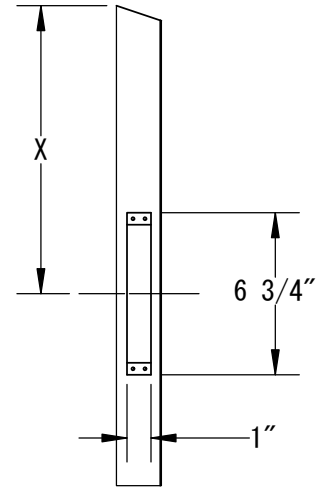


ANSI/BHMA A156.115 FLUSHBOLT PREPARATION WITH ASTRAGAL

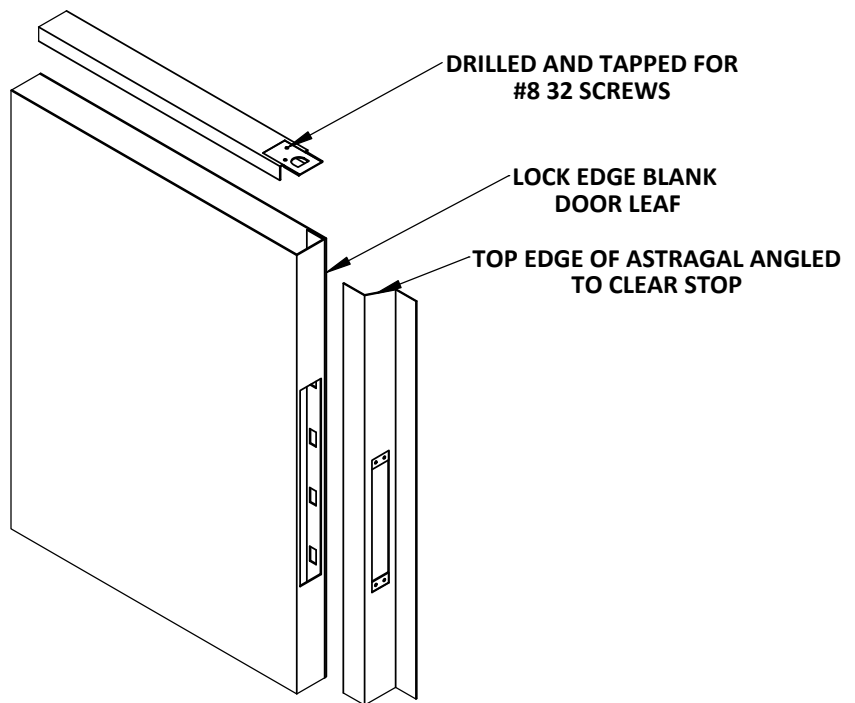


PREPARATION
IN DOOR EDGE

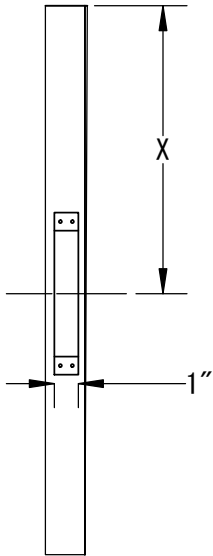
DOOR HEIGHT	DIM X
6' 8" & 7' 0"	12"
8' 0"	24"
9' 0"	36"
10' 0"	48"



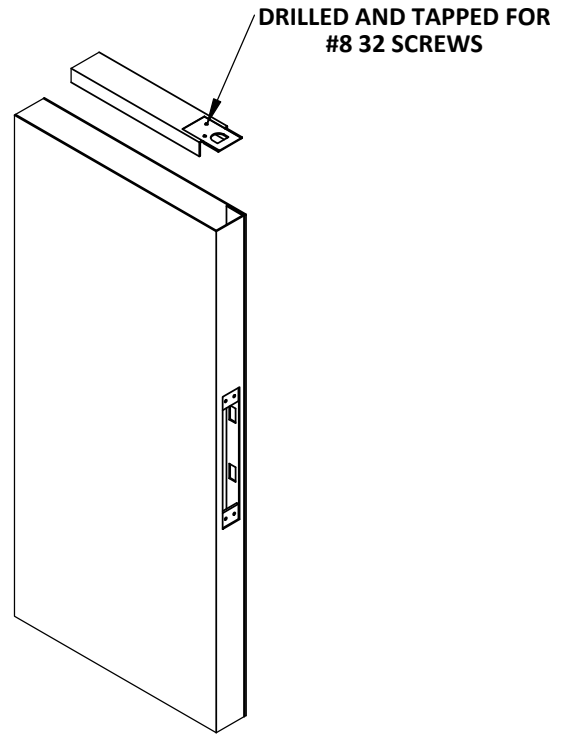
PREPARATION
IN ASTRAGAL



CORE MATERIAL MUST BE CLEARED
OUT BEFORE APPLICATION OF FLUSH BOLT

**ANSI 115.4 FLUSH BOLT PREPARATION
WITHOUT ASTRAGAL**

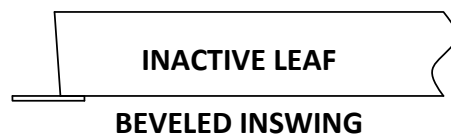
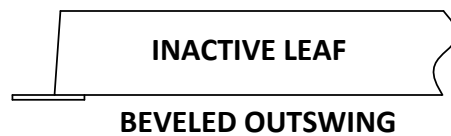
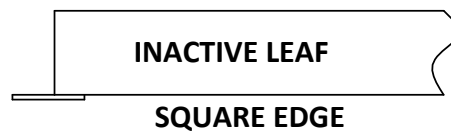
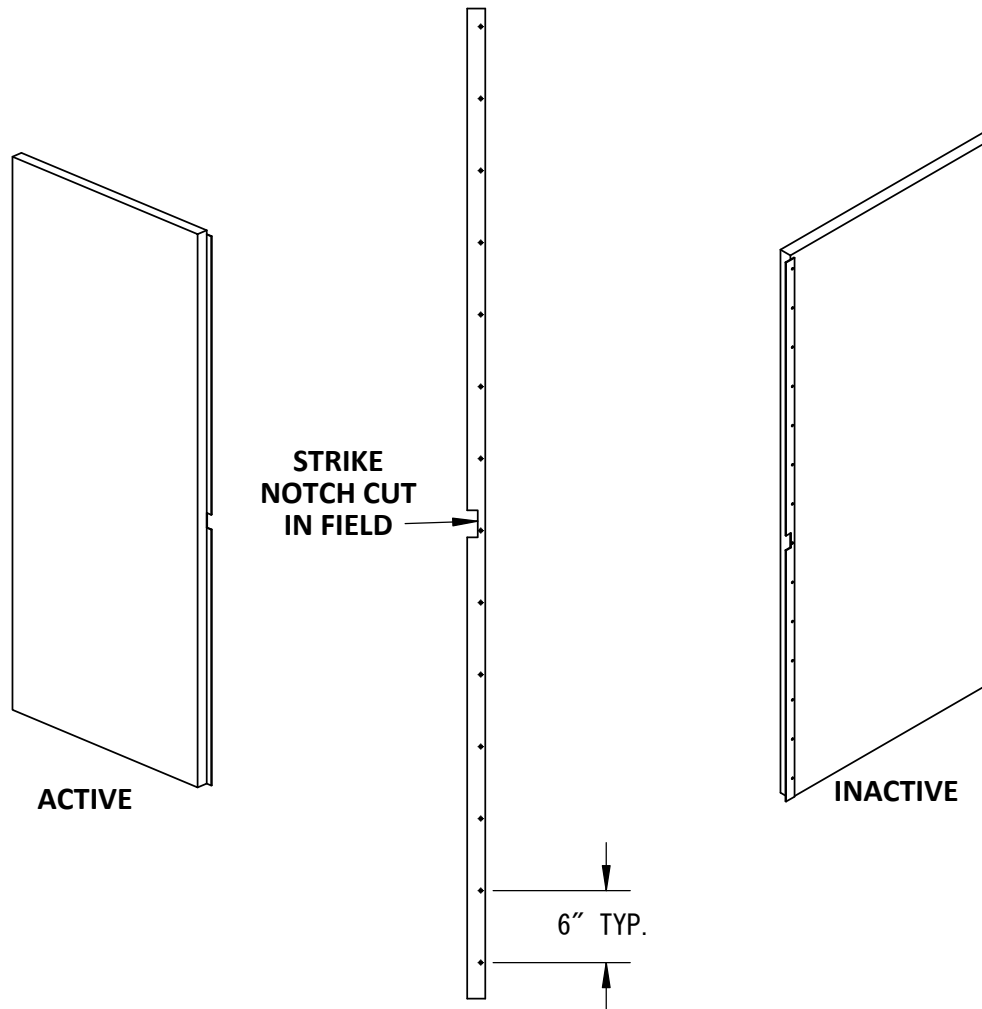
DOOR HEIGHT	DIM X
6' 8" & 7' 0"	12"
8' 0"	24"
9' 0"	36"
10' 0"	48"

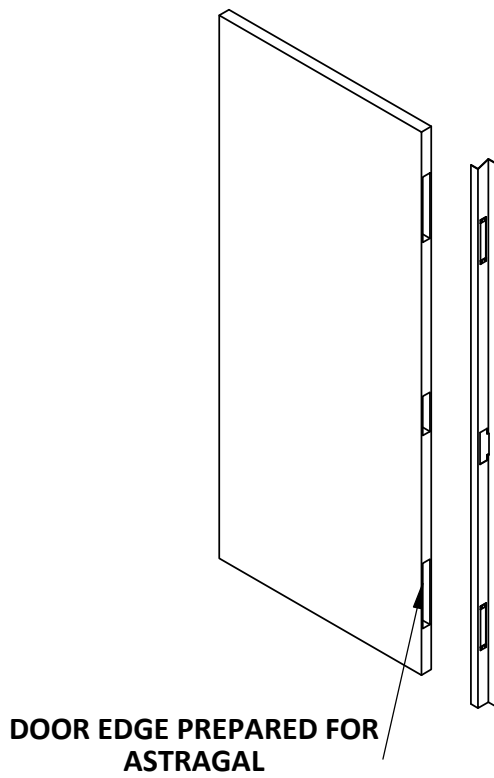


**CORE MATERIAL MUST BE CLEARED
OUT BEFORE APPLICATION OF FLUSH BOLT**



FLAT ASTRAGAL



Z - ASTRAGAL

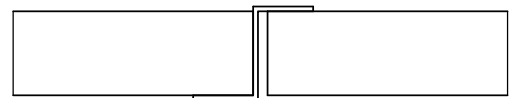
ANGLED CUT TO
CLEAR FRAME
STOP



PREPARED FOR FLUSHBOLT



BLANK

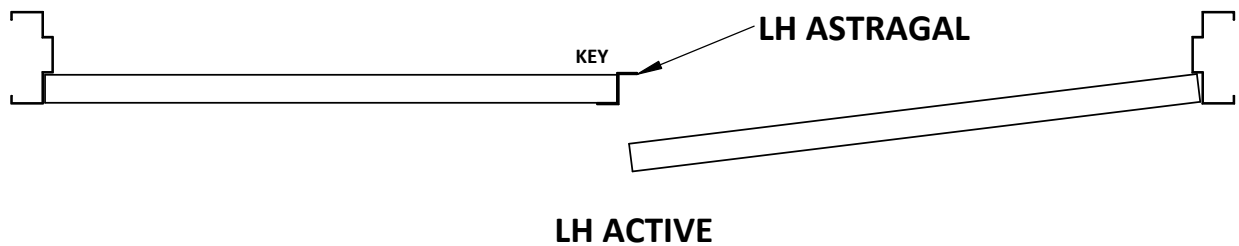
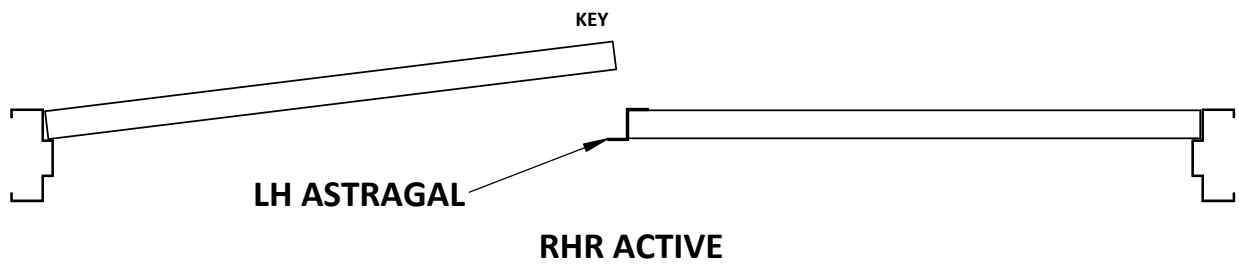
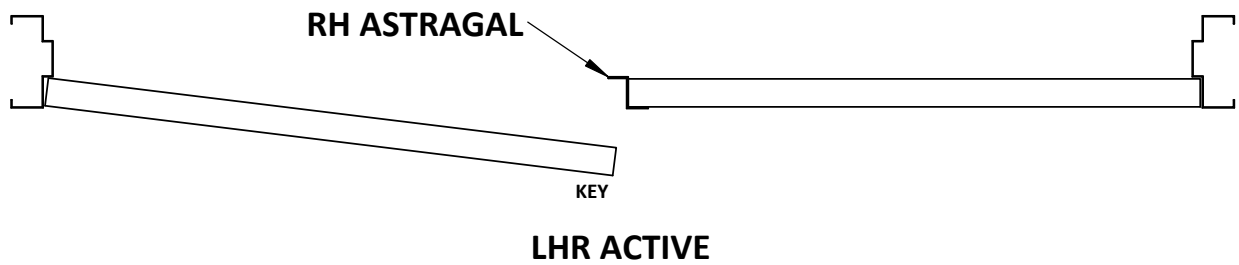
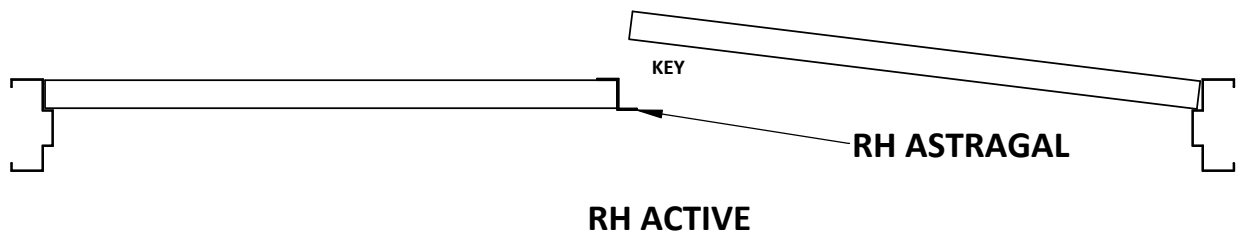


SQUARE ASTRAGAL

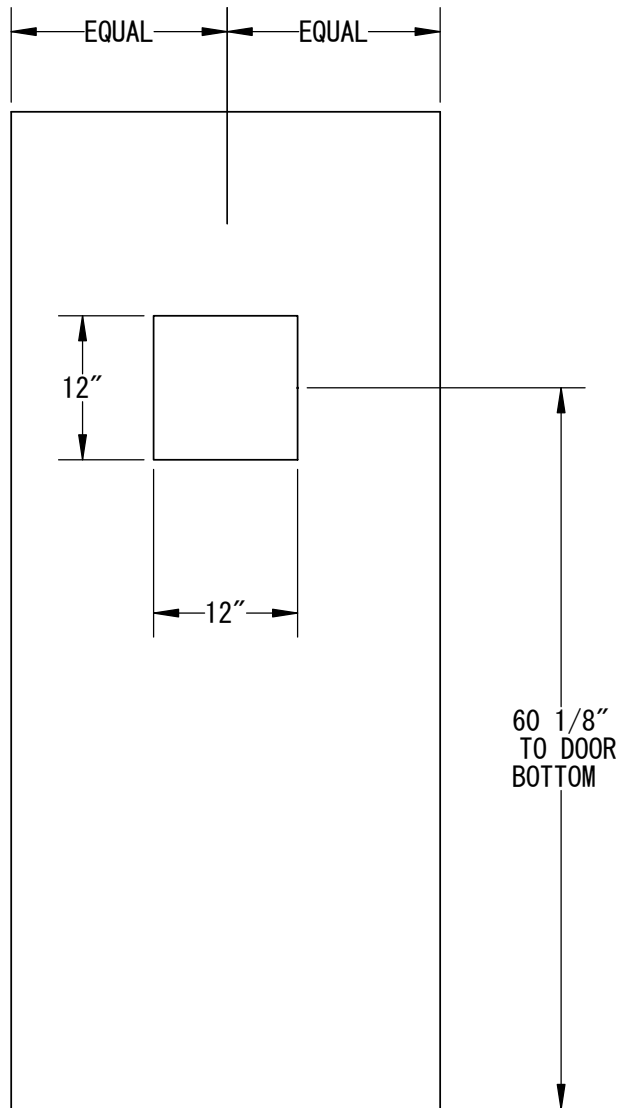


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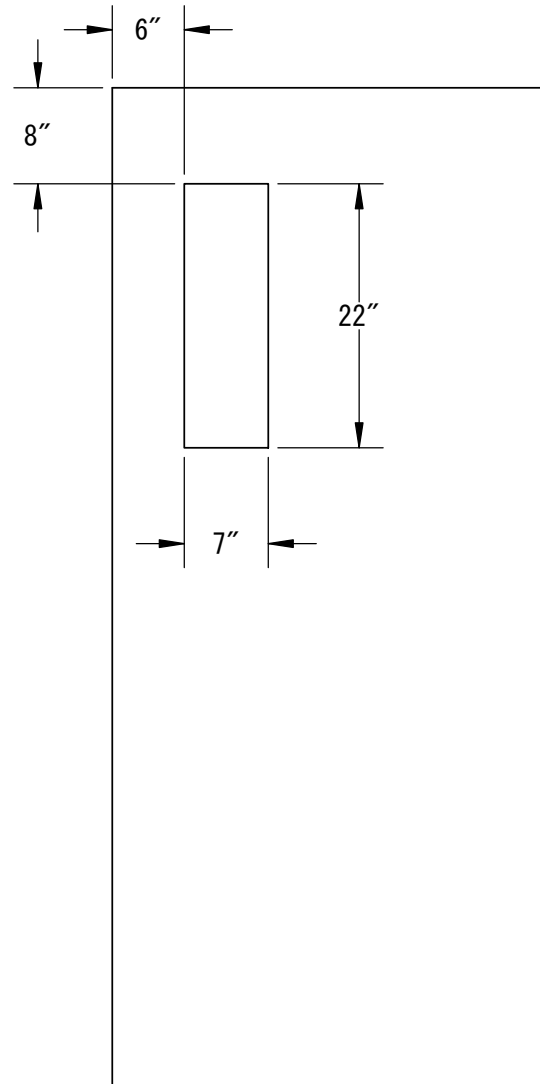
Z - ASTRAGAL HANDING



GLASS KIT RECOMMENDED LOCATION



V
EXPOSED GLASS
10" X 10"



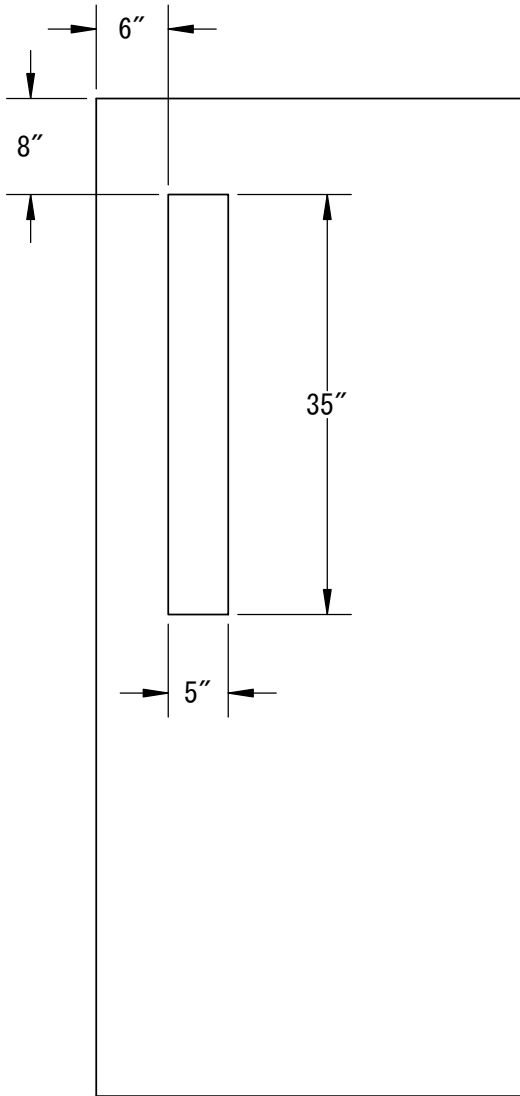
N2
EXPOSED GLASS
5" X 20"

NVS requires a 6" minimum from all cutouts to door edge for louvers and glazing.

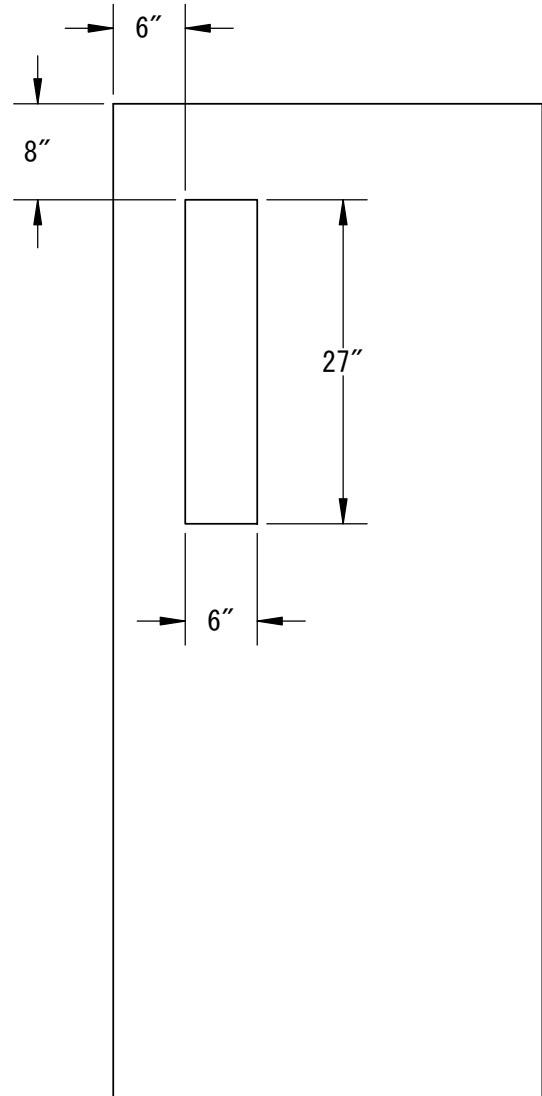


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GLASS KIT RECOMMENDED LOCATION



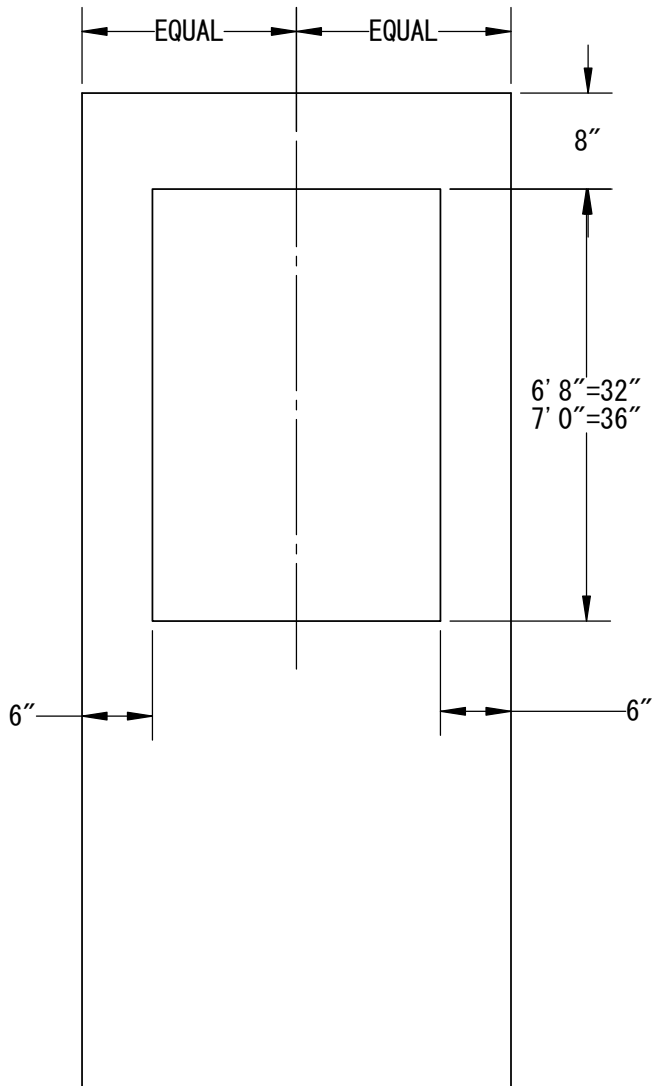
N1
EXPOSED GLASS
3" X 33"



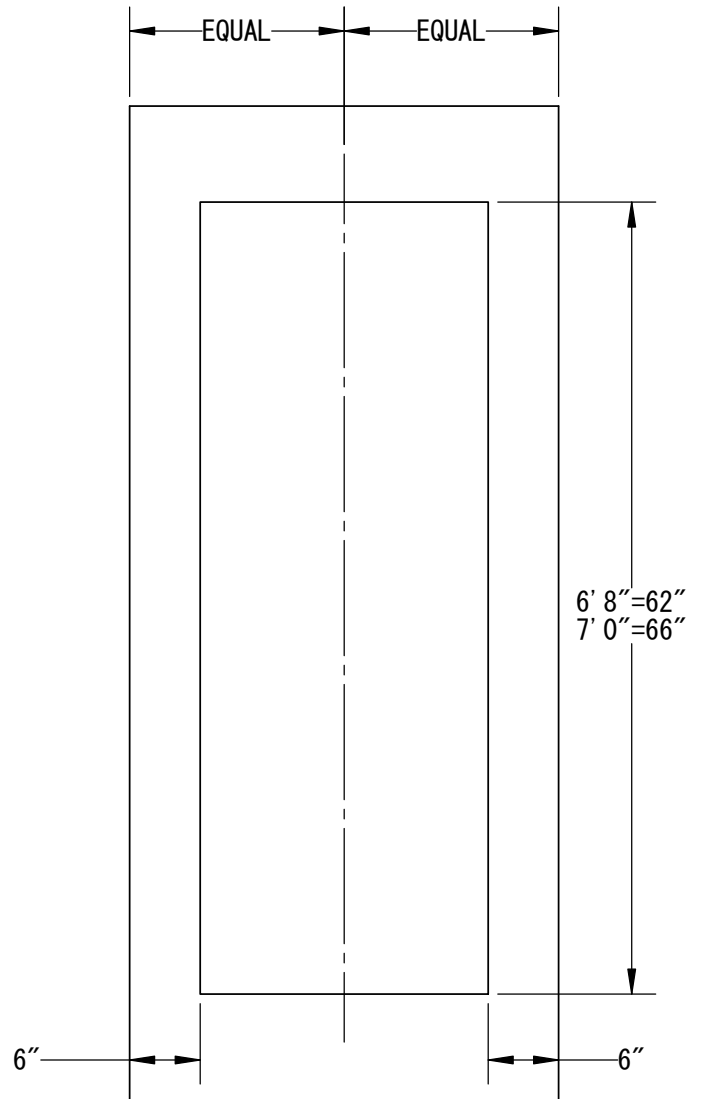
N3
EXPOSED GLASS
4" X 25"

NVS requires a 6" minimum from all cutouts to door edge for louvers and glazing.

GLASS KIT RECOMMENDED LOCATION



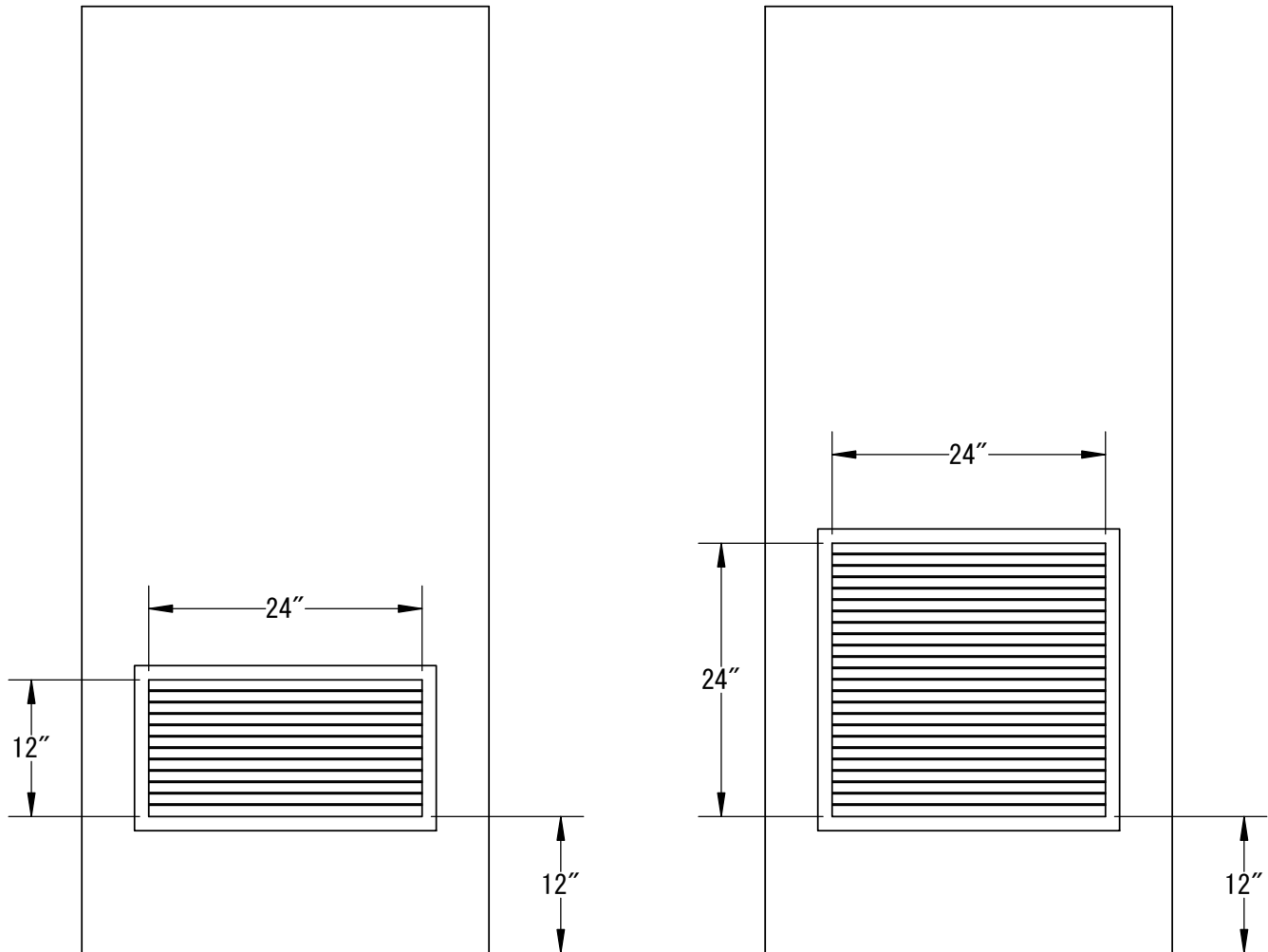
G
EXPOSED GLASS
 FOR 6'8" = 22" X 30"
 FOR 7'0" = 22" X 34"



FG
EXPOSED GLASS
 FOR 6'8" = 22" X 60"
 FOR 7'0" = 22" X 64"

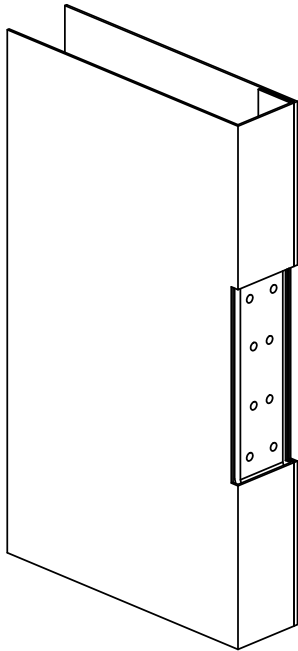
NVS requires a 6" minimum from all cutouts to door edge for louvers and glazing.

**LOUVER
RECOMMENDED LOCATIONS**

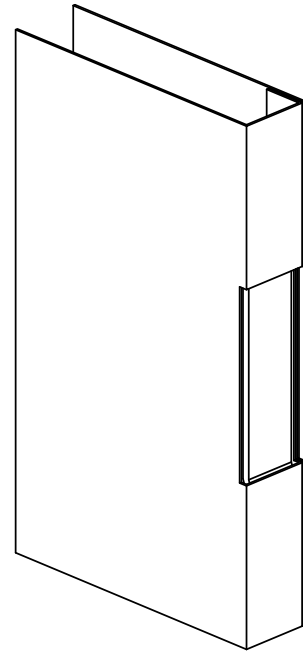


Other Sizes Available. Please consult factory.
NVS requires a 6" minimum from all cutouts to door edge for louvers and glazing.
Fire rated fusible link louvers available. Max size 24" x 24".
Consult factory for pricing.

HINGE PREPARATION



**4 1/2" OR 5" TEMPLATED
HINGE PREPARED DRILLED
AND TAPPED FOR 12-24
MACHINE SCREWS.**



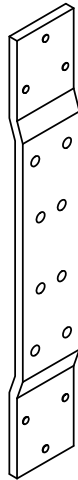
**4" OR 6" HINGE PREPARED
"BLANK". MUST BE
DRILLED AND TAPPED BY
OTHERS.**



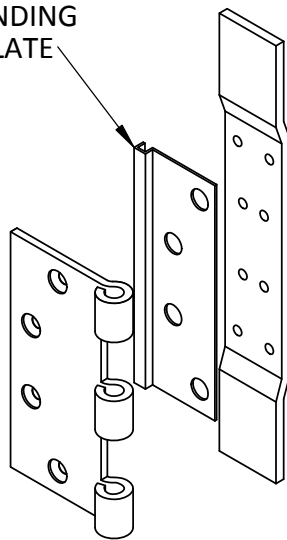
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STANDARD HINGE REINFORCEMENTS

STANDARD HINGE REINFORCEMENT
FOR MIDDLE AND BOTTOM HINGES



HINGE
HANDING
PLATE



UNIVERSAL HANDING

**FOR HEAVY WEIGHT HINGES,
A THINNER HANDING PLATE
IS AVAILABLE.**

EXTRA LONG HIGH FREQUENCY
TOP HINGE REINFORCEMENT



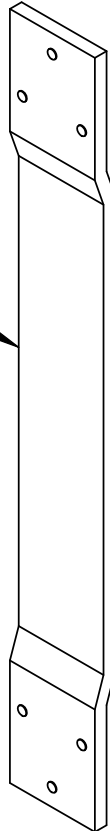
7 GAUGE HINGE REINFORCEMENT
EXTENDED TO TOP OF DOOR FOR
EXTRA RIGIDITY WITH 3 EXTRA
PROJECTION WELDS TO PREVENT
DOOR SAG.



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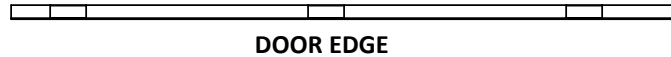
BLANK HINGE REINFORCEMENT

4" AND 6" HINGE
REINFORCEMENT TO BE DRILLED
AND TAPPED BY OTHERS.

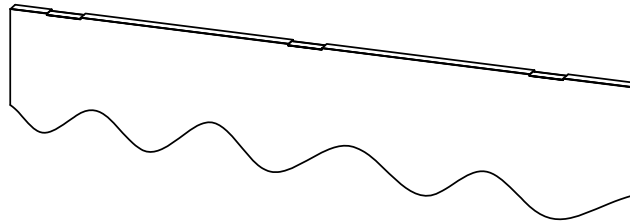


INSTALLING HINGES IN A BLANK DOOR EDGE

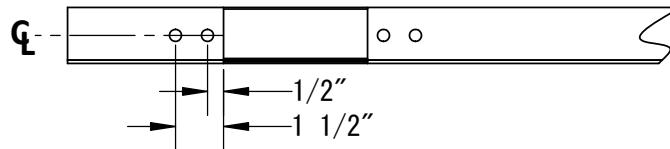
LAY OUT THE DESIRED HINGE LOCATION ON THE DOOR EDGE. USE AN ACTUAL HINGE TO ENSURE PROPER CLEARANCE.



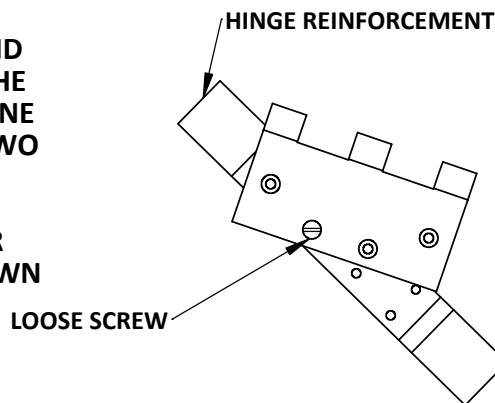
MAKE THE CUT-OUTS WITH A "JIG" SAW. GRIND OR FILE AS REQUIRED. ALL EDGES MUST BE FINISHED: ALSO ALLOW FOR HINGE FILLER PLATE AT PROPER DEPTH (.180" FOR STANDARD WEIGHT HINGE AND FILLER)



DRILL TWO 3/8" DIAMETER HOLES ABOVE AND BELOW EACH CUT-OUT, AS SHOWN.

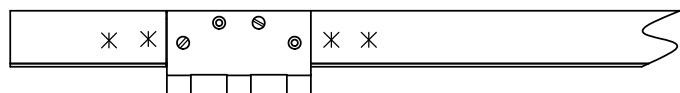


ATTACH A HINGE LEAF AND HINGE FILLER PLATE TO THE REINFORCEMENT WITH ONE SCREW. TIGHTEN ONLY TWO THREADS SO THE REINFORCEMENT CAN BE PLACED INSIDE THE DOOR AND MOVED UP AND DOWN UNTIL POSITIONED.

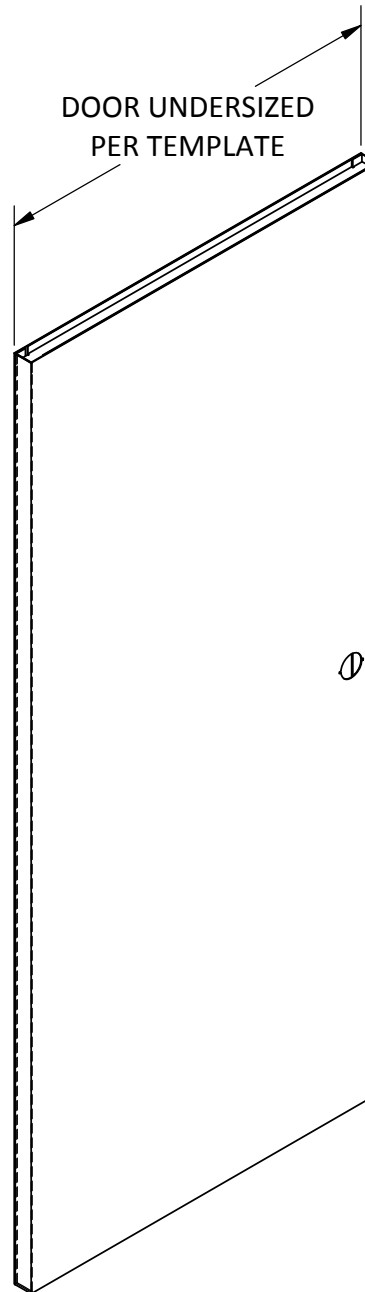
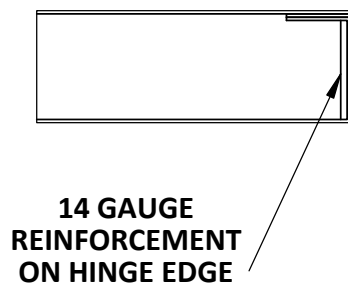


NOTE: IF USING A MESKER HINGE REINFORCEMENT, YOU MUST FIRST REMOVE THE WELD PROJECTIONS. (GRIND OR FILE) THE HINGE REINFORCEMENT MUST BE CENTERED IN BETWEEN DOOR FACES.

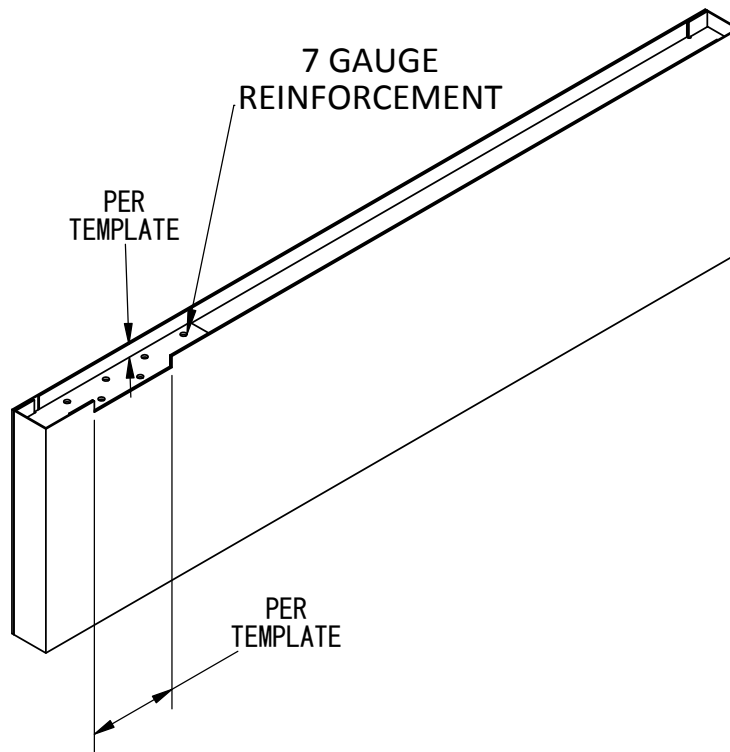
INSTALL A SECOND SCREW AND TIGHTEN BOTH SCREWS. FIRMLY HOLD THE REINFORCEMENT AGAINST THE INSIDE SKIN OF THE DOOR EDGE. FULLY WELD (FILL) THE 3/8" DIAMETER HOLES. REMOVE THE HINGE LEAF. GRIND THE WELDS SMOOTH AND RE-PRIME.



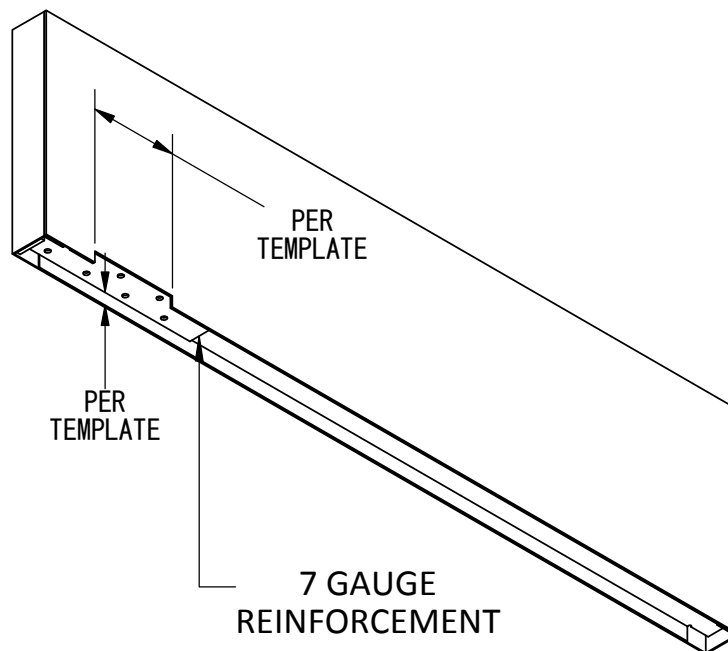
CONTINUOUS HINGE REINFORCEMENT



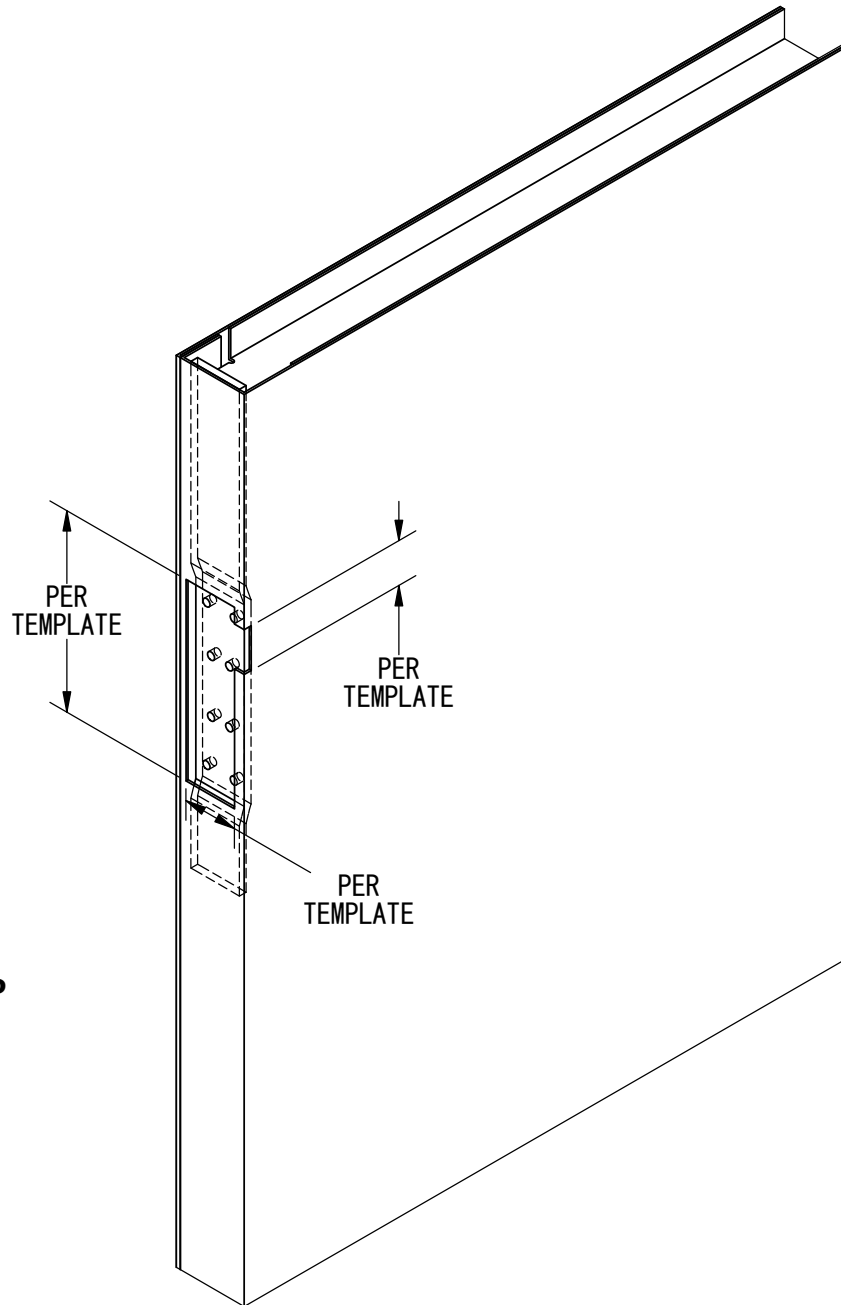
TOP AND BOTTOM PIVOT PREPARATION



SIZE AND TAP PER TEMPLATE



INTERMEDIATE PIVOT PREPARATION



SIZE, DRILL, AND TAP
PER TEMPLATE

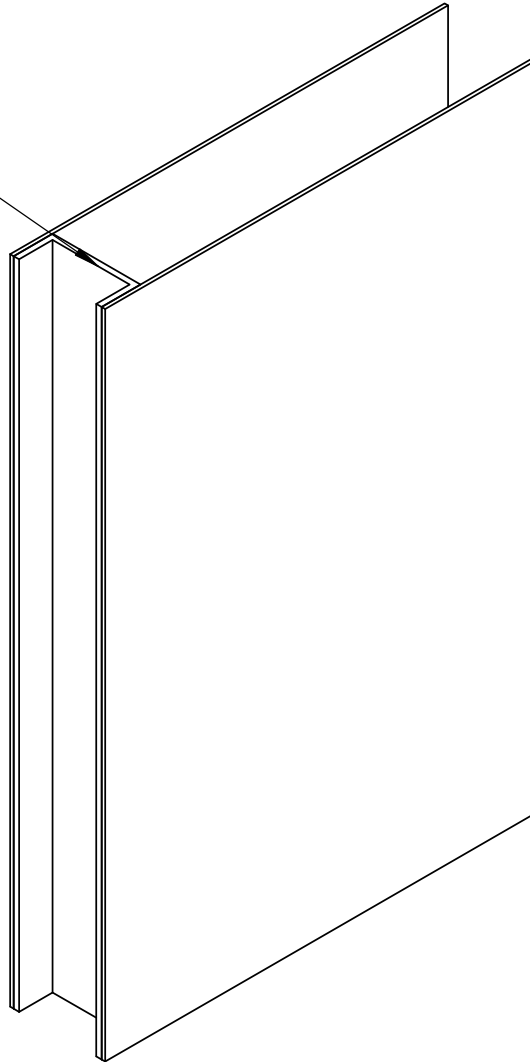


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DOOR POCKET PIVOT

12 GAUGE
CONTINUOUS
CHANNEL

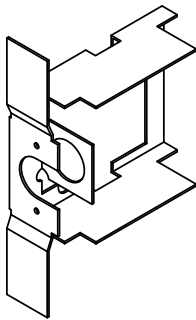
MOUNTING HOLES
DRILLED AND TAPPED
BY OTHERS



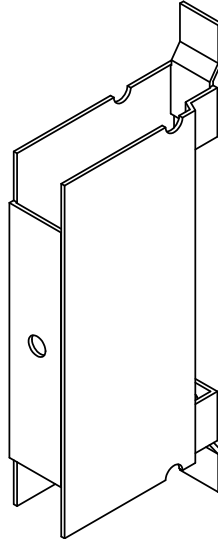
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**STANDARD LOCK PREPARATIONS
STANDARD CLOSER PREPARATIONS**

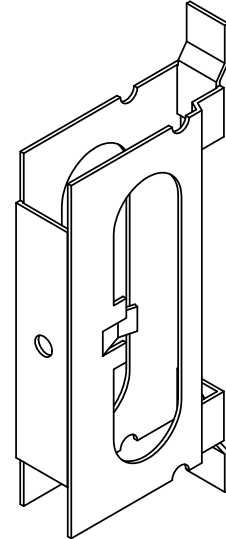
161 CYLINDRICAL LOCK
(C4) REINFORCEMENT



GOV'T 86 EDGE
MORTISE LOCK (MBN)
REINFORCEMENT



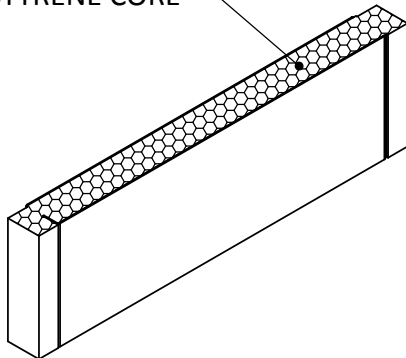
GOV'T 86 EDGE
MORTISE LOCK (M) (MB)
REINFORCEMENT



14 GAUGE
CLOSER REINFORCEMENTS

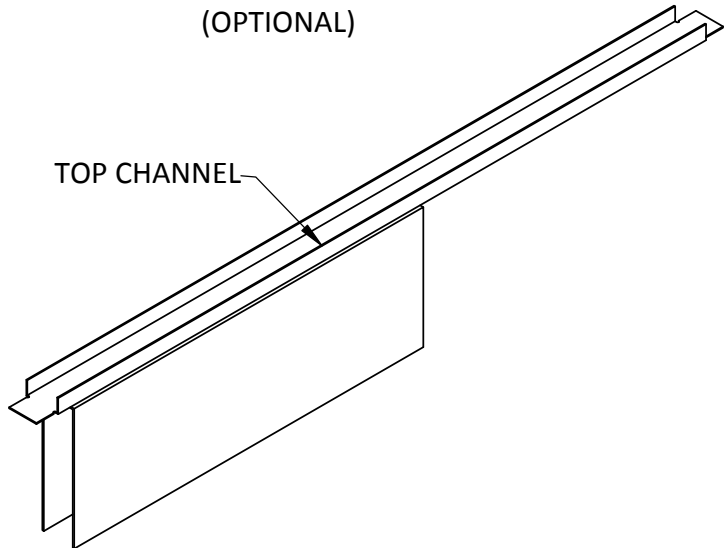
STANDARD

POLYSTYRENE CORE

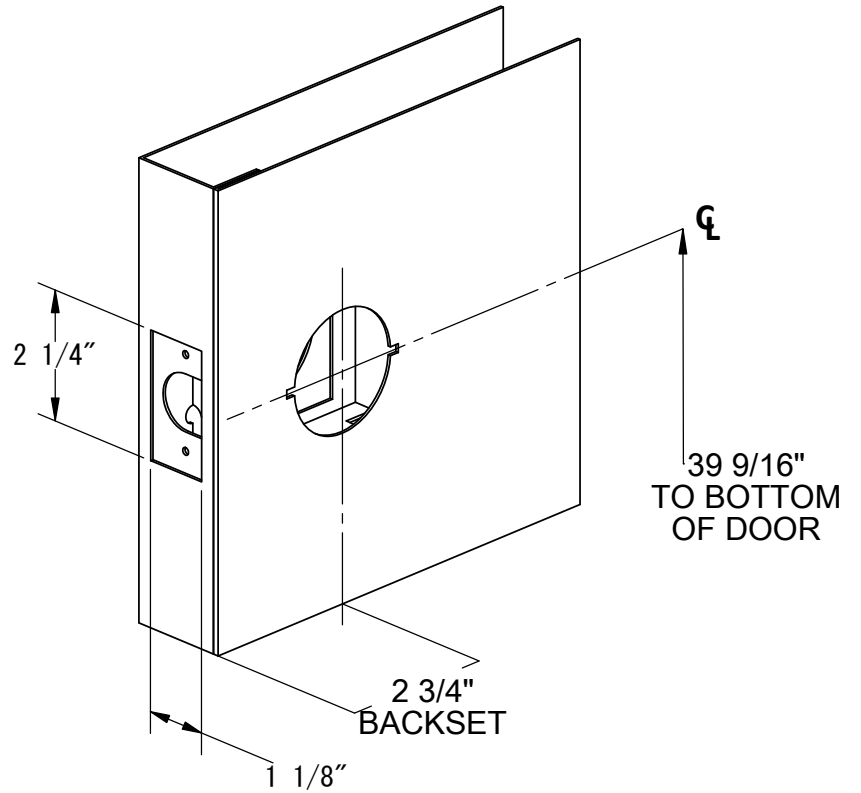
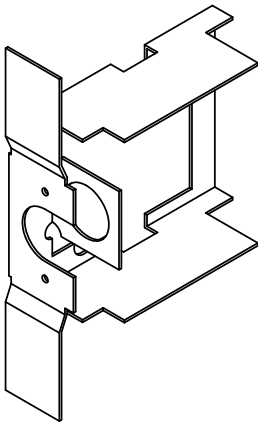


(OPTIONAL)

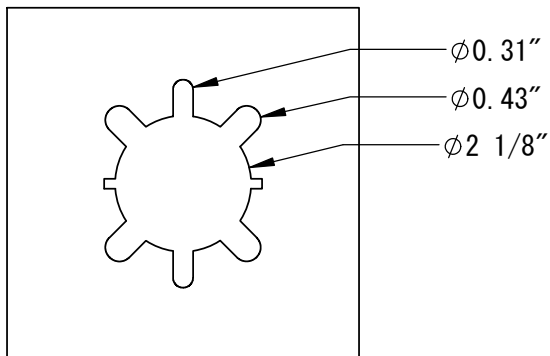
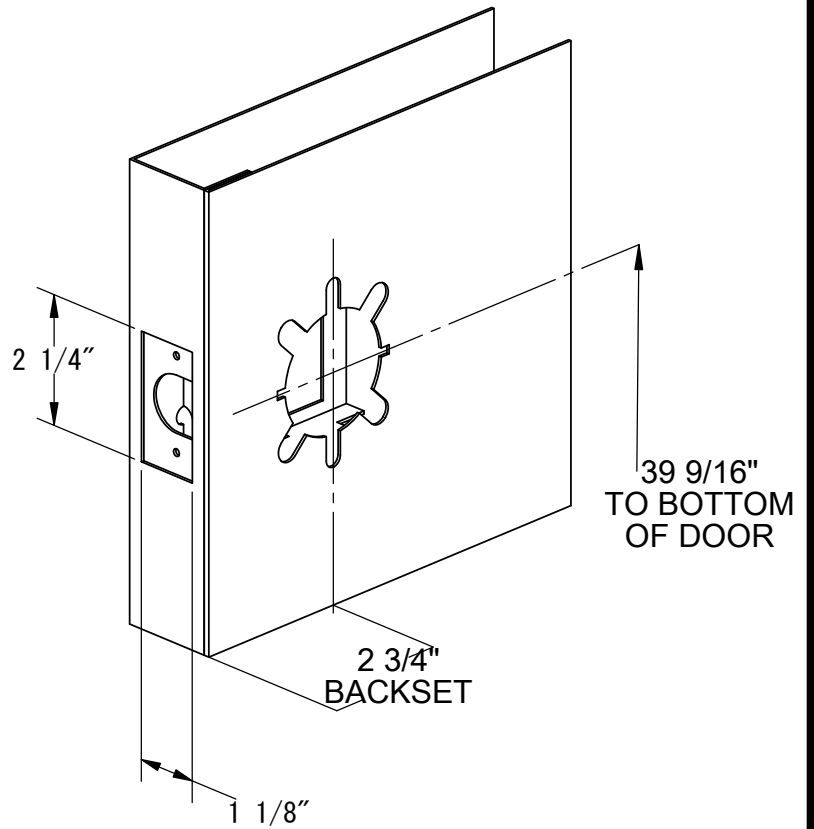
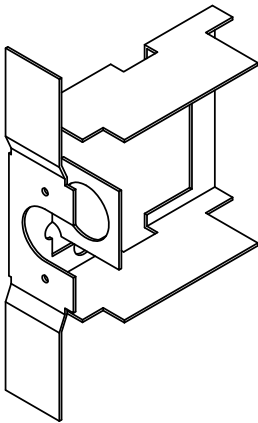
TOP CHANNEL



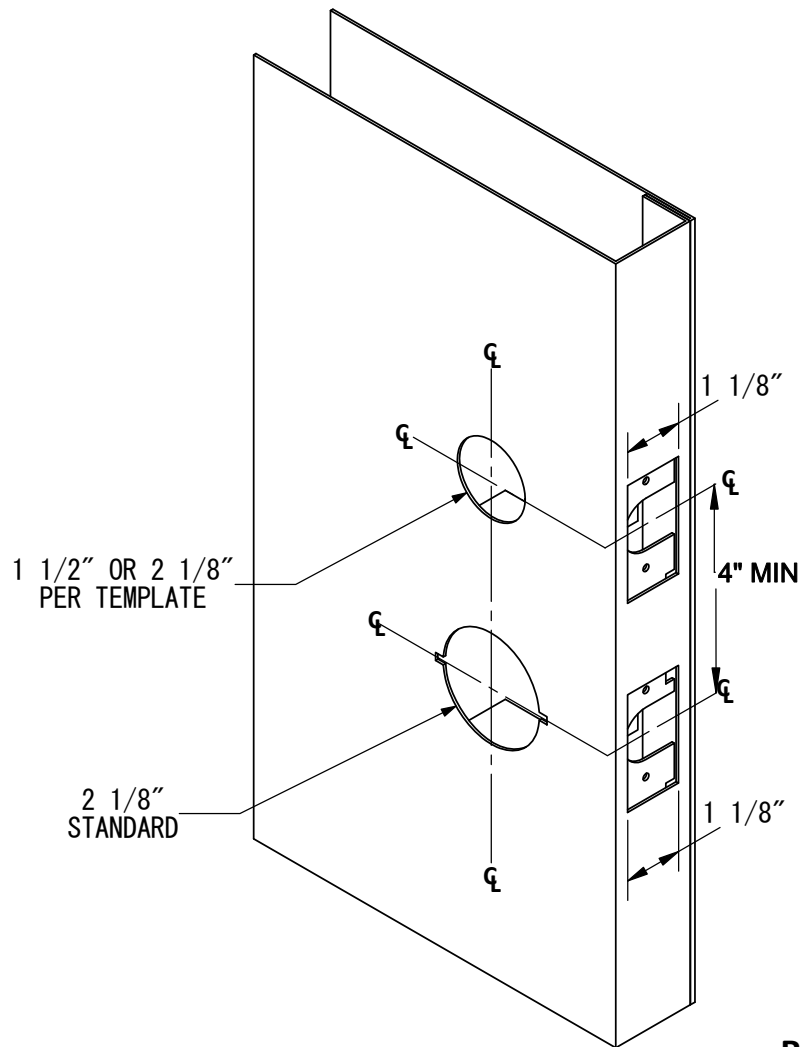
**C4 LOCK PREPARATION 1 3/4" DOOR
GOVT NO. 161**



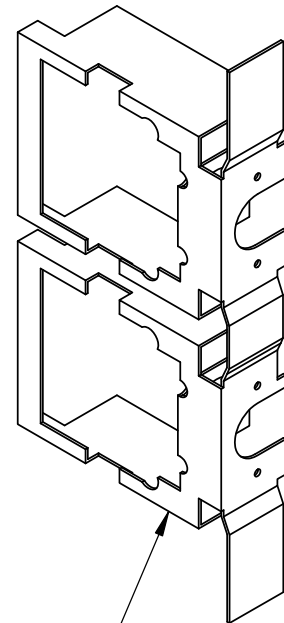
C4 TURTLE LOCK PREPARATION 1 3/4" DOOR
GOVT NO. 161



INTERCONNECTED LOCK PREPARATION

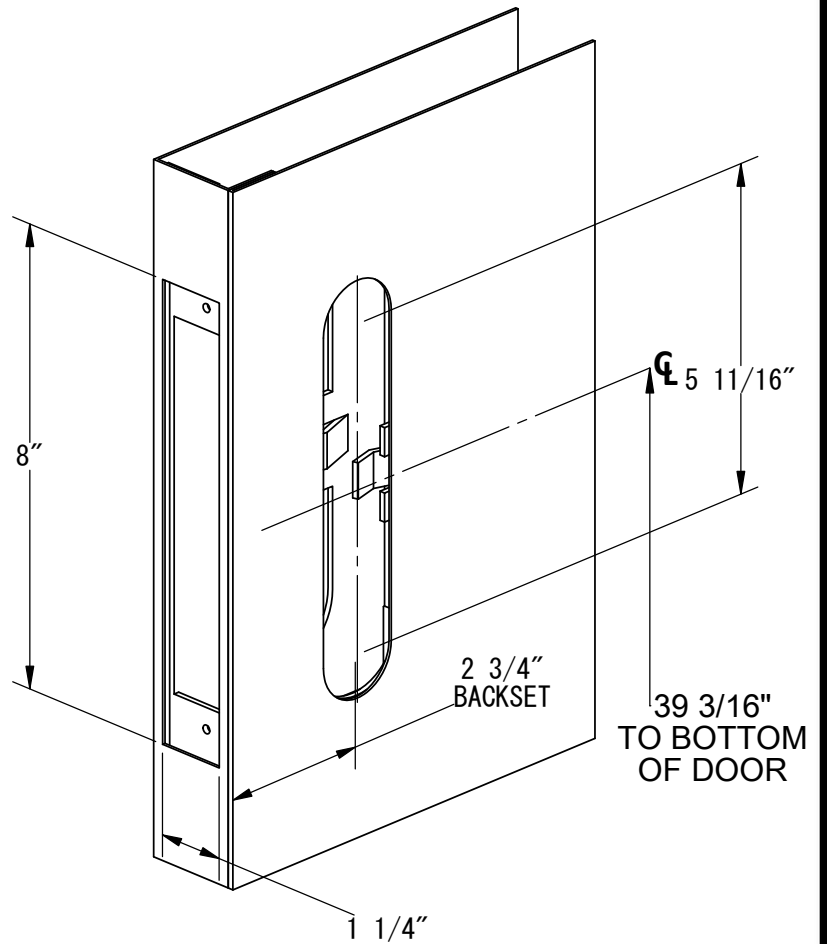
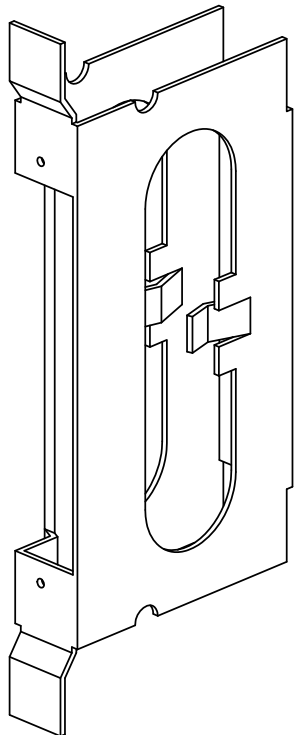


**16 GAUGE
REINFORCEMENT**

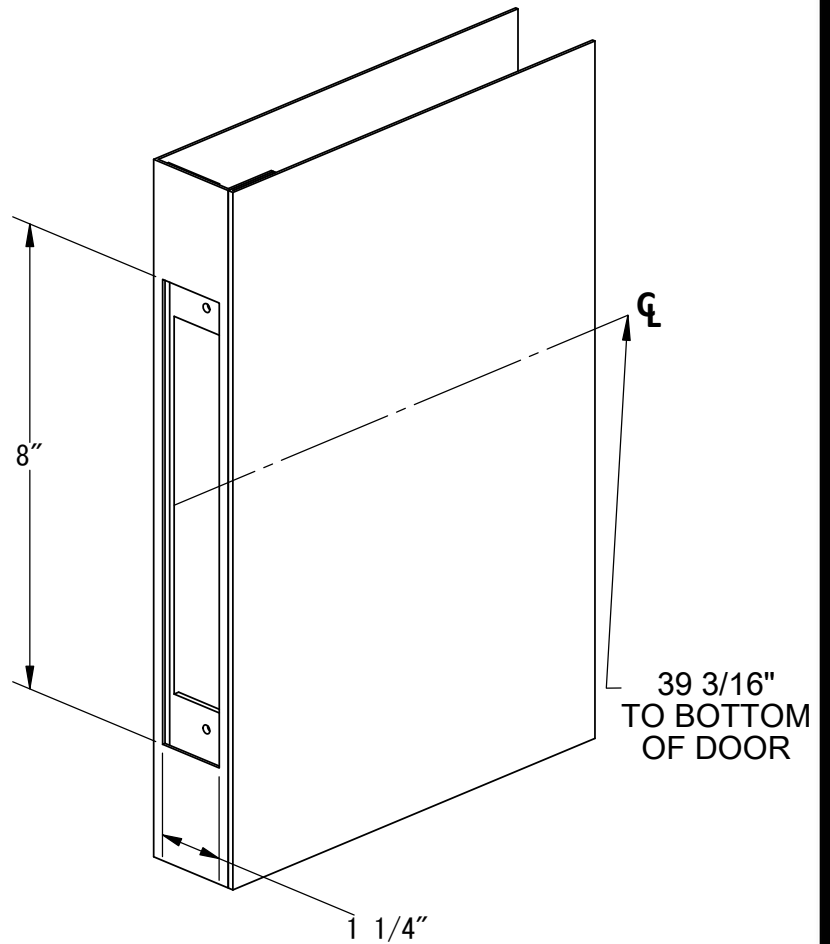
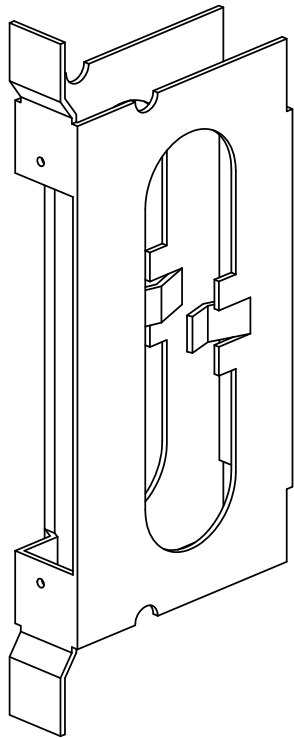


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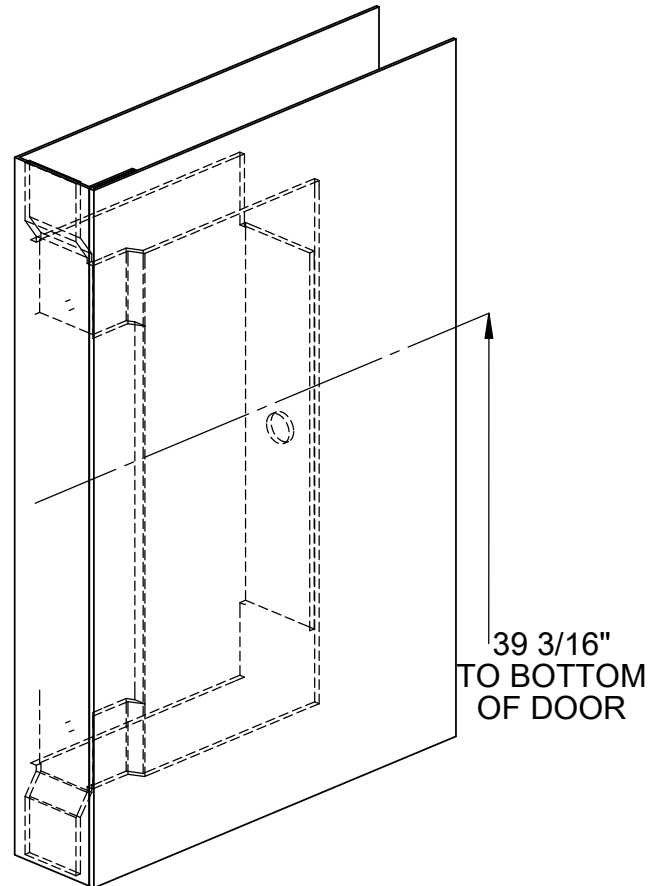
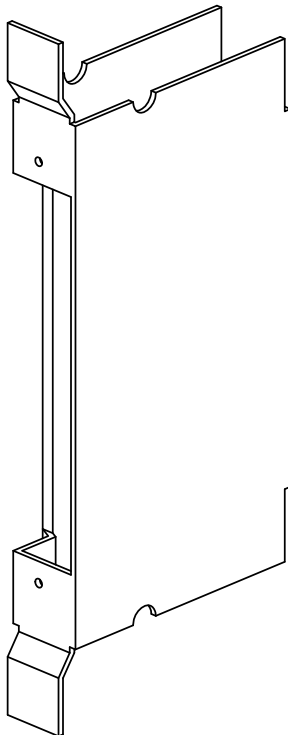
M LOCK PREPARATION 1 3/4" DOOR
GOVT NO. 86



MB LOCK PREPARATION 1 3/4" DOOR
GOVT NO. 86

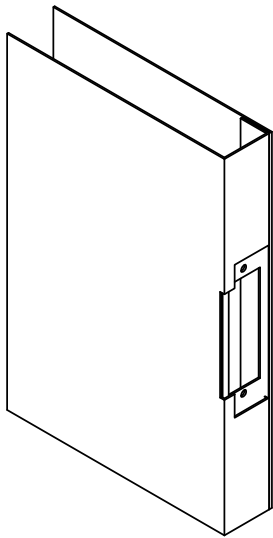


MBN LOCK PREPARATION 1 3/4" DOOR
GOVT NO. 86

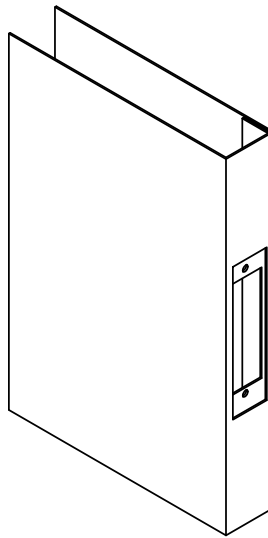


STRIKE PREPARATIONS, "U-STRIKE" , "C-STRIKE"

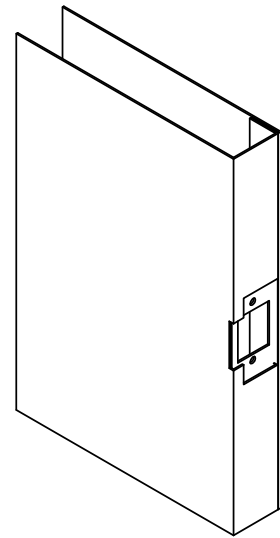
**A 14 GAUGE STRIKE REINFORCEMENT.
THE STRIKE MORTISE CONFORMS TO ANSI A156.115.**



**"U" STRIKE MORTISE
(ASA STRIKE)**



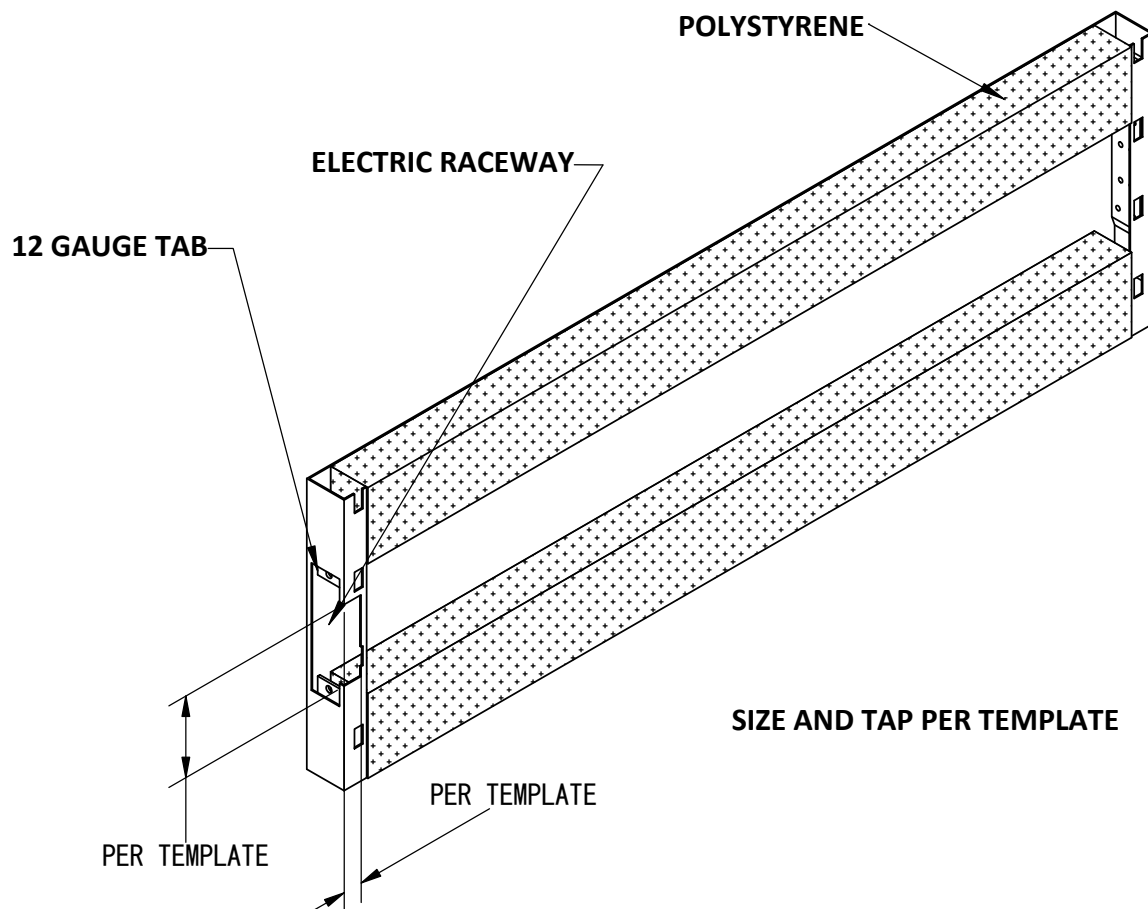
**NON HANDED
"U" STRIKE MORTISE
(ASA STRIKE)
LIP NOTCH CUT BY OTHERS**



**"C" STRIKE MORTISE
(T STRIKE)**



ELECTRIC STRIKE PREPARATION WITH RACEWAY

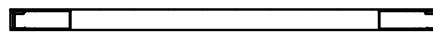
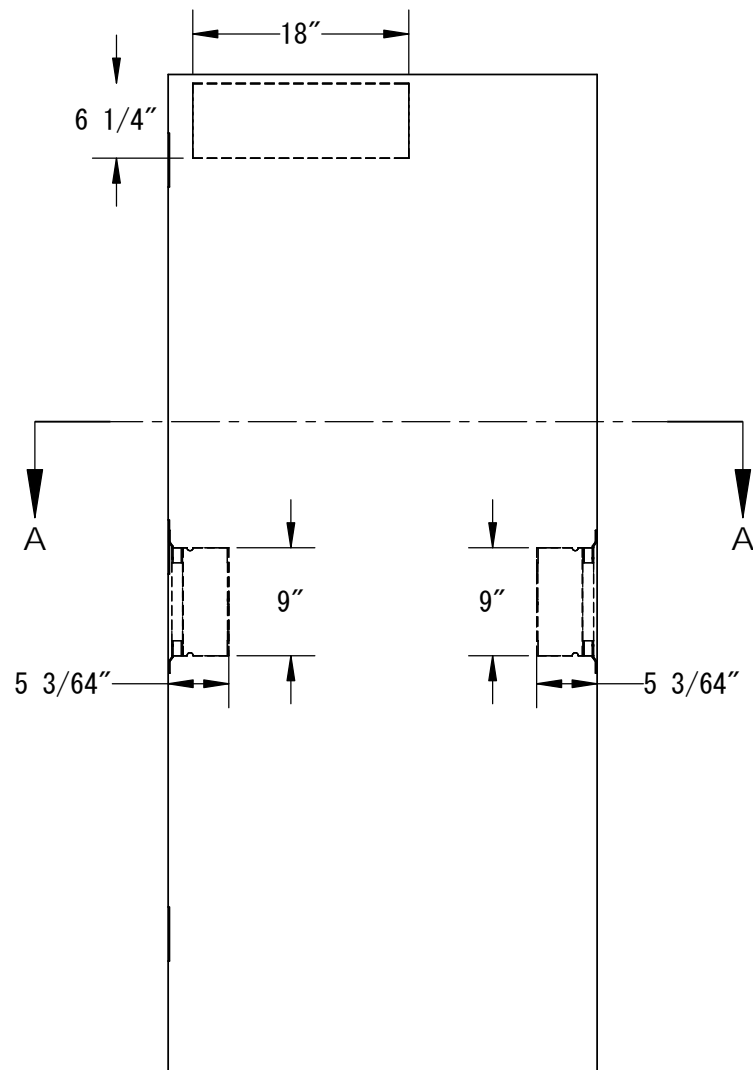


HEIGHT OF STRIKE PER TEMPLATE



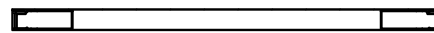
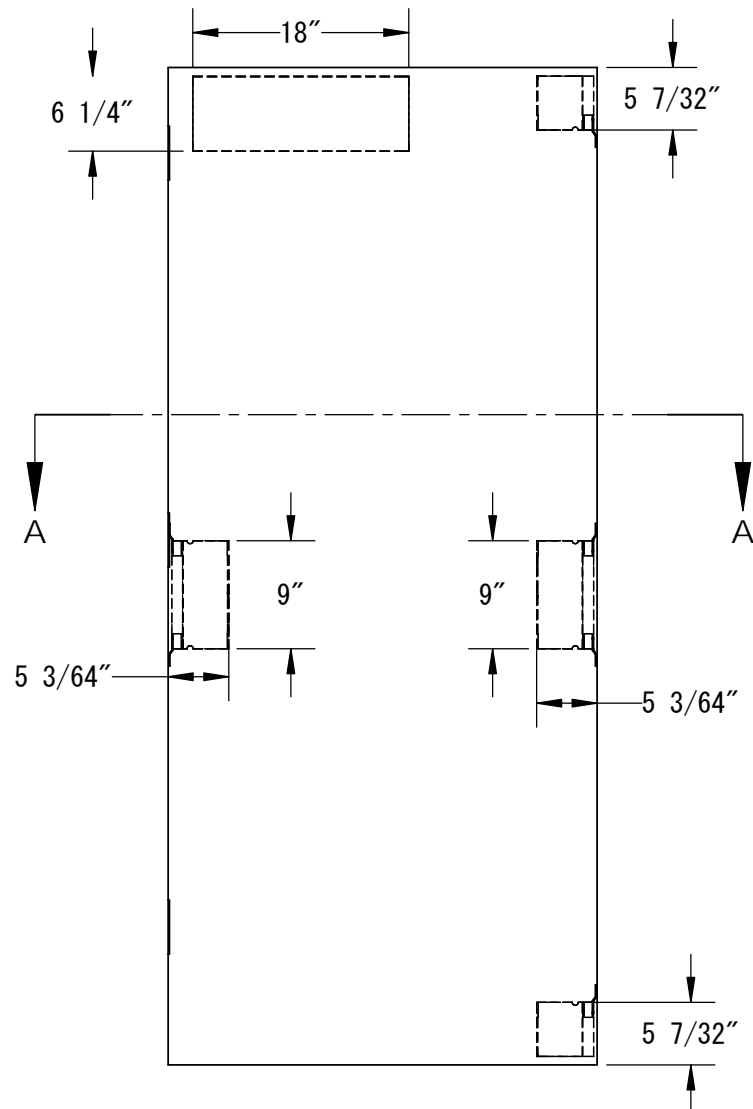
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RIM PANIC (RP) DOOR REINFORCEMENTS



SECTION A

**SURFACE VERTICAL ROD DOOR
REINFORCEMENTS (SVR)**

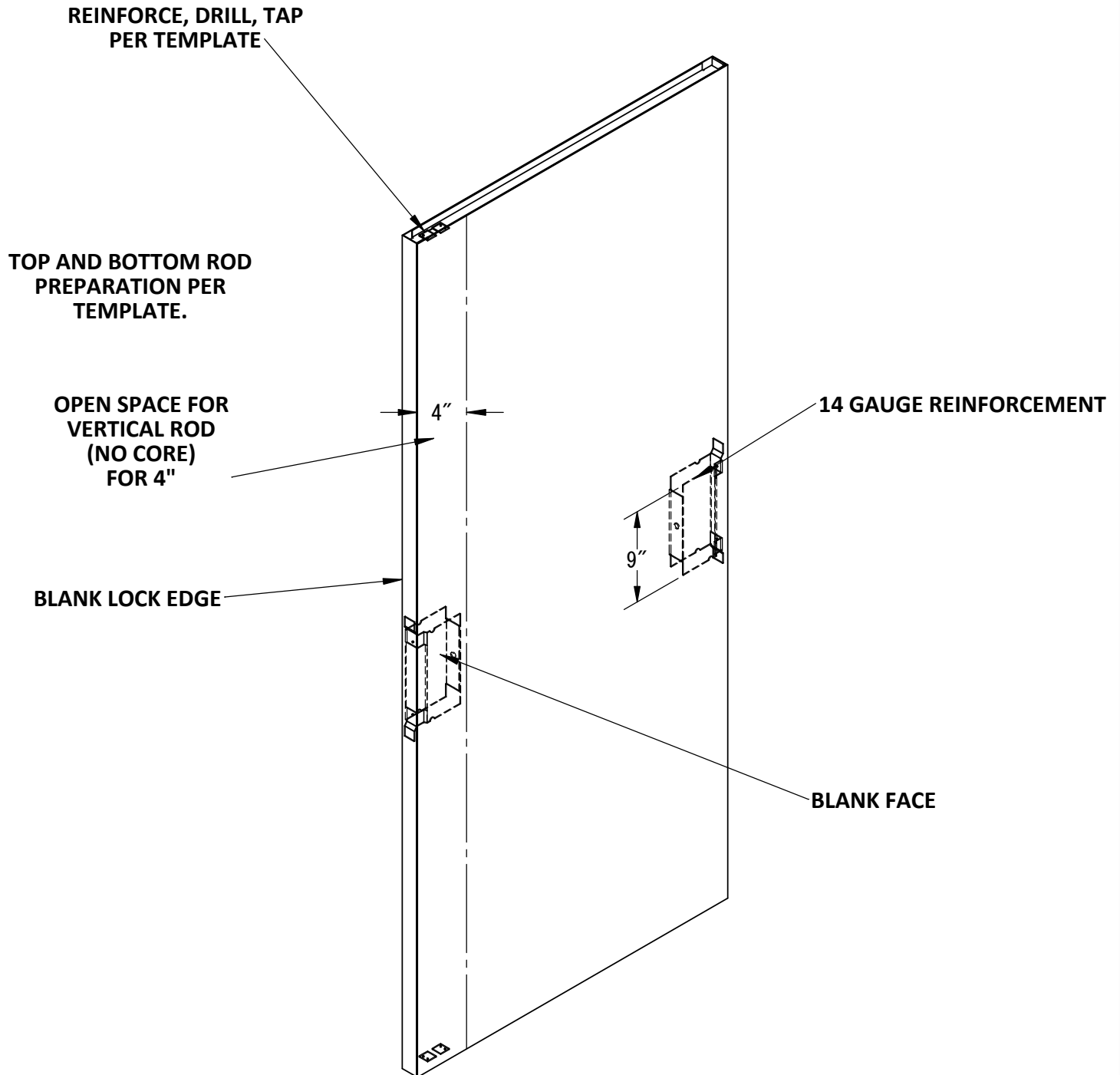


SECTION A

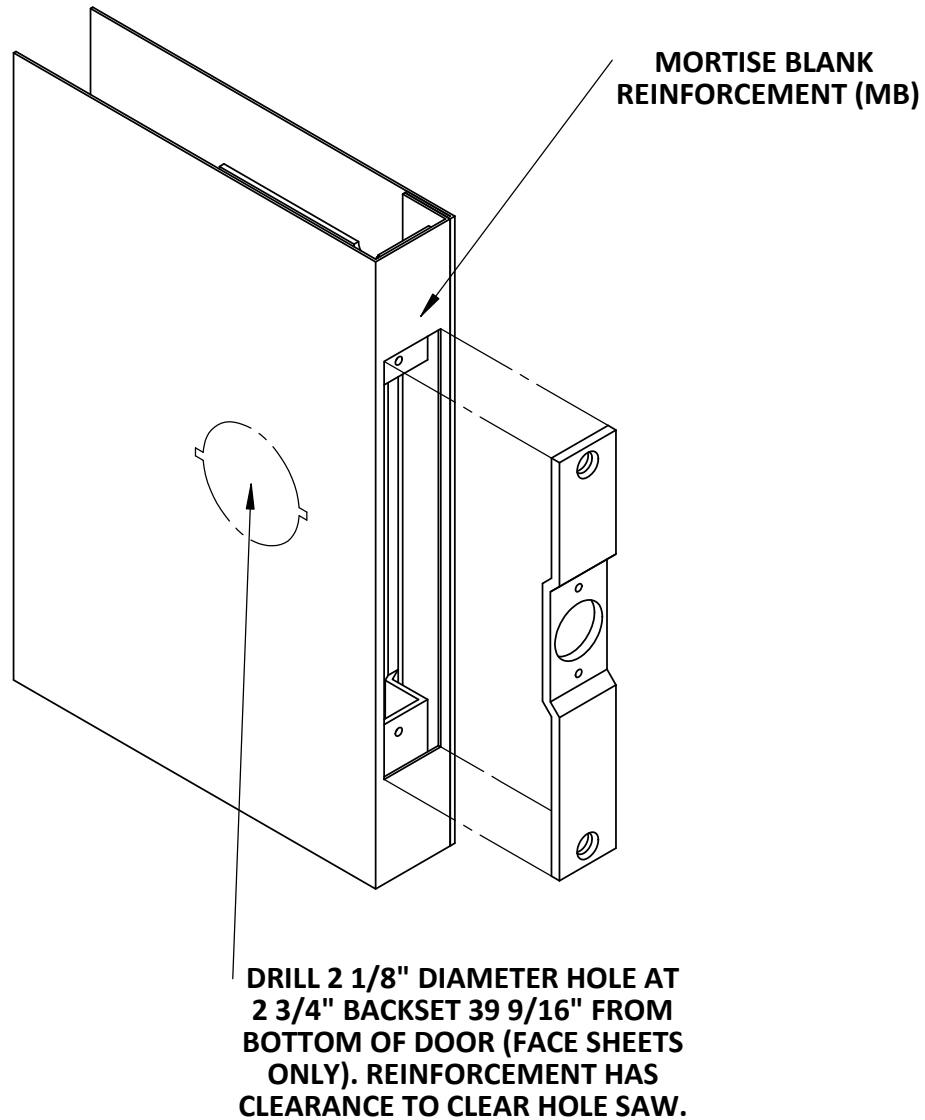


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CONCEALED VERTICAL ROD PREPARATION

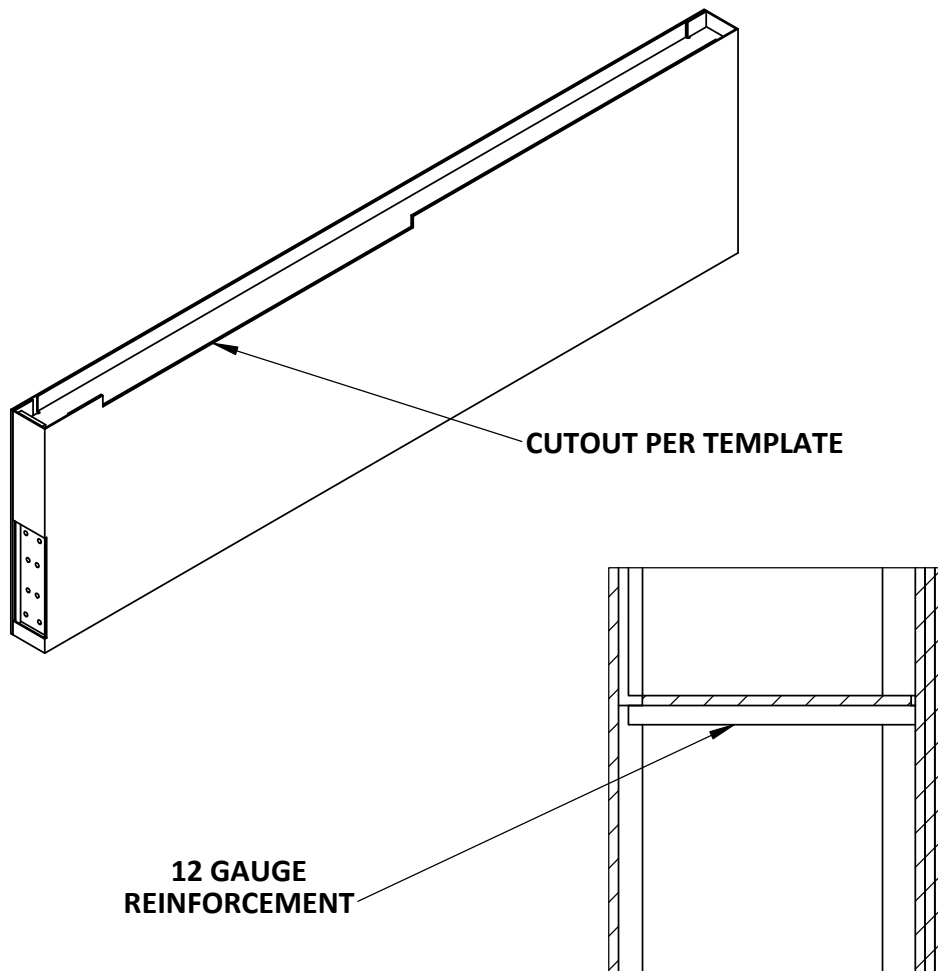


MORTISE (MB) TO CYLINDRICAL (C4) LOCK ADAPTER



CONCEALED HOLDER/CLOSER REINFORCEMENT

END CHANNEL IS MODIFIED FOR CORRECT DEPTH
(DIMENSIONS VARY AS PER TEMPLATE)



MOUNTING HOLES SHALL BE DRILLED AND TAPPED IN
THE FIELD FOR DESIRED HOLD OPEN ANGLE.



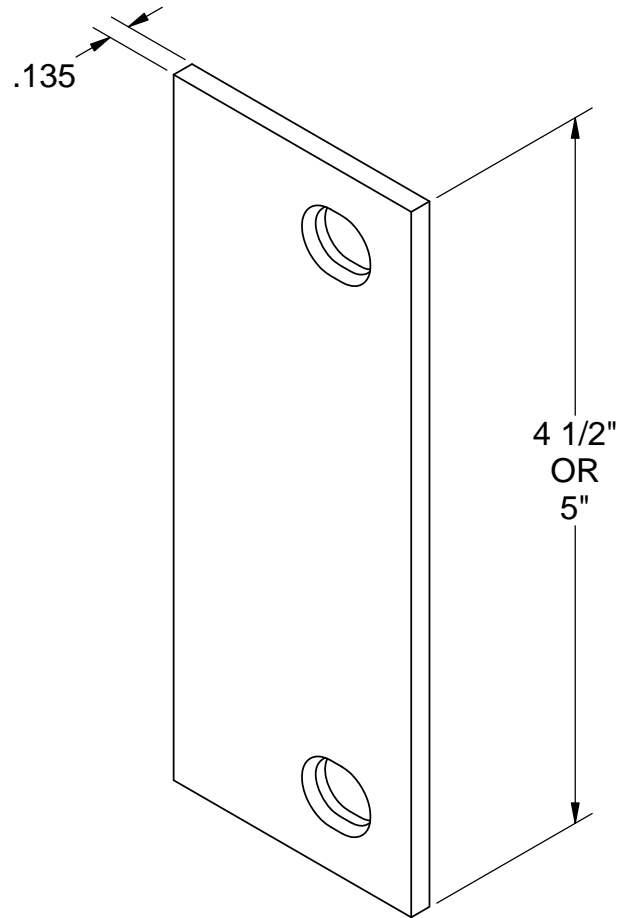
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Hinge Shim	PD-2
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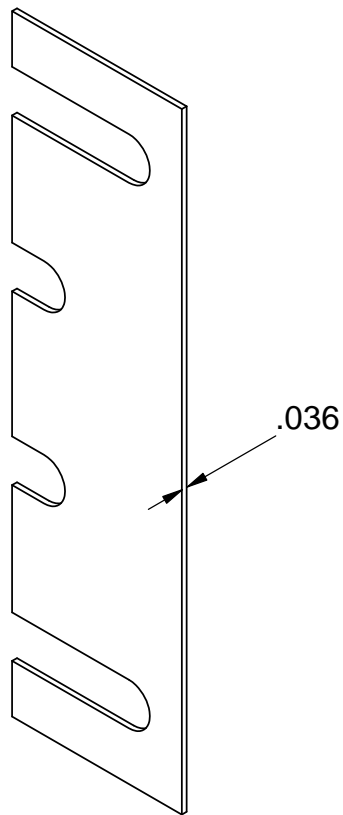
PARTS - DOOR
DOOR HINGE FILLER PLATE



PART # PD401



PARTS - DOOR
TEMPLATE HINGE SHIM 4 1/2"

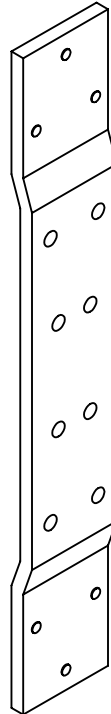


PART # PD425



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**PARTS - DOOR
SHORT DOOR HINGE (HR450) AND (HR500)**



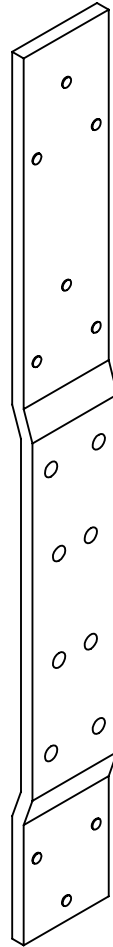
7 GAUGE

**4 1/2" PART # PDNHR450
5" PART # PDNHR500
DRILLED AND TAPPED FOR TEMPLATE HINGE**



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PARTS - DOOR
EXTRA LONG HIGH FREQUENCY DOOR HINGE (LHR450)



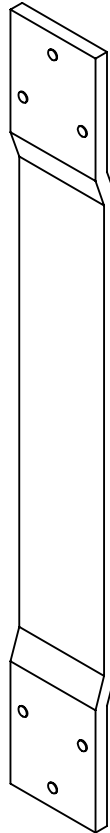
7 GAUGE

PART # PDNLHR450
DRILLED AND TAPPED FOR 4 1/2" TEMPLATE HINGE
HIGH FREQUENCY



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**PARTS - DOOR
NON- STANDARD HINGE REINFORCMENT**



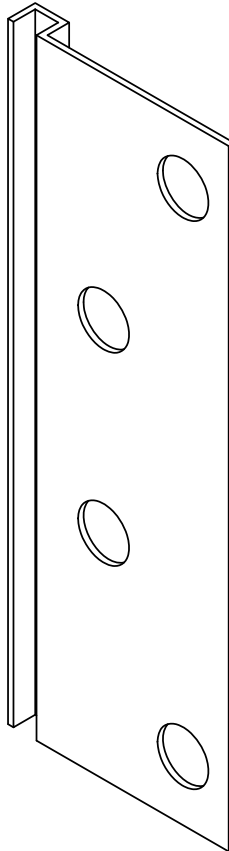
7 GAUGE

**4" PART # PDNHR400
6" PART # PDNHR600
MUST BE DRILLED AND TAPPED BY OTHERS**



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**PARTS - DOOR
HINGE FILLER (HANDING PLATE)**

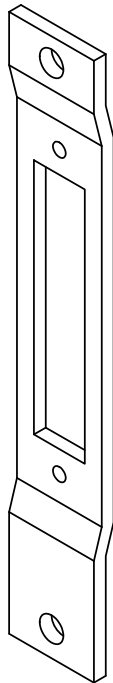


**4 1/2" PART # PDHF4
4 1/2" HEAVY WEIGHT PART # PDHF4H
5" PART # PDHF5
5" HEAVY WEIGHT PART # PDHF5H**



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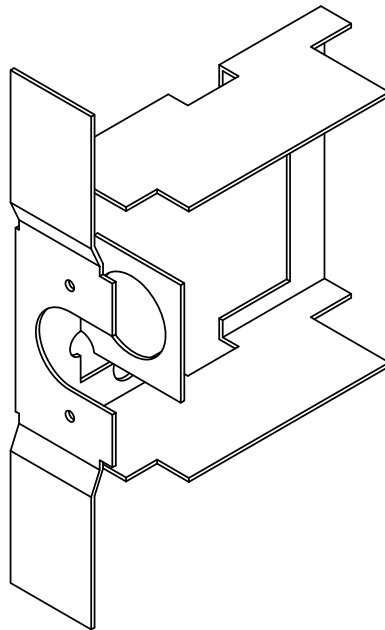
**PARTS - DOOR
STRIKE ADAPTER**



**PART # PD86SA
MB TO ASA CONVERSION**

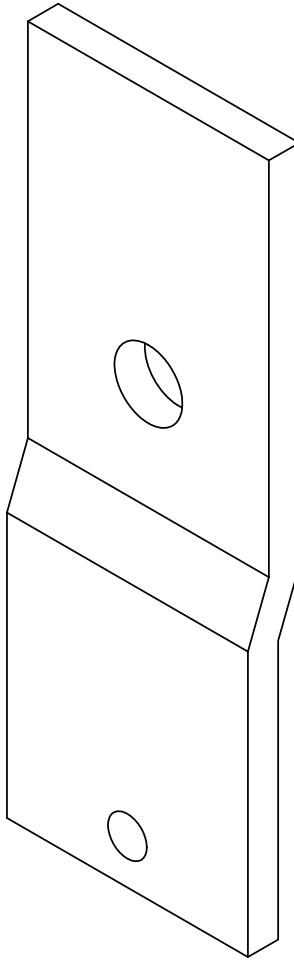


**PARTS - DOOR
CYLINDRICAL LOCK BOX (C4)**



**PART # PDCLB
161 LOCK REINFORCEMENT**

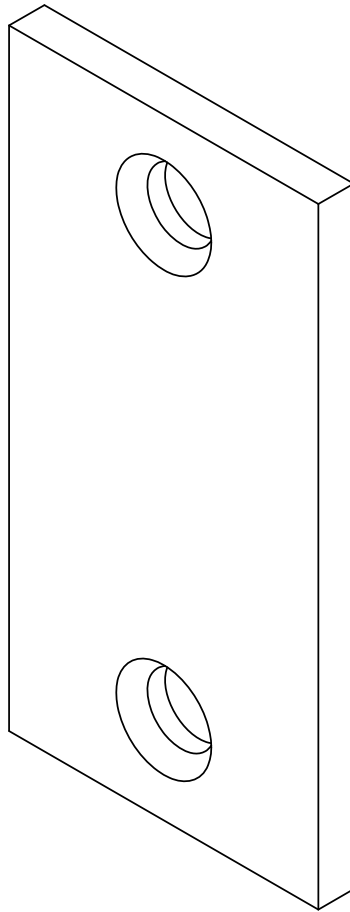


PARTS - DOOR**STRIKE TAB REINFORCEMENT 8-32 (RCS001) AND 12-24 (RMS401)**

MESKER PART #	DESCRIPTION	USES
PDCR	DRILLED AND TAPPED 8-32	C STRIKE OR DEADLOCK
PDMR	DRILLED AND TAPPED 12-24	ASA STRIKE



**PARTS - DOOR
CYLINDRICAL LOCK EDGE FILLER (CLE161)**

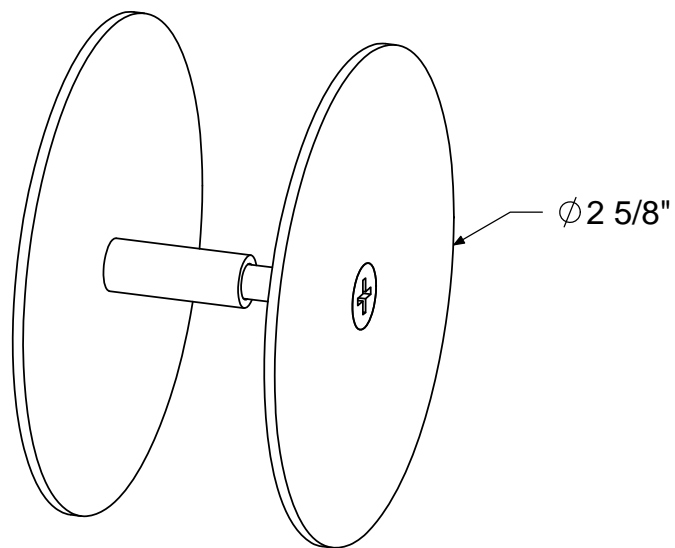


**PART # PDLEC
TO FILL C-4 EDGE PREP
1 1/8" X 2 1/4"**



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**PARTS - DOOR
CYLINDRICAL LOCK FACE FILLER (CLF161)**

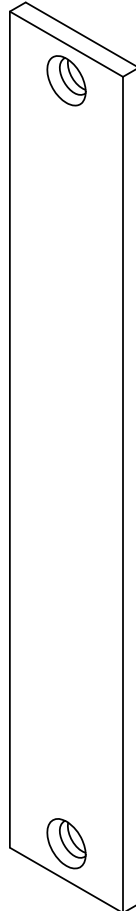


PART # PDLFC



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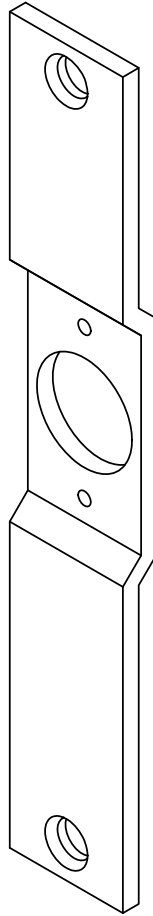
**PARTS - DOOR
MORTISE LOCK FILLER (MLE086)**



**PART # PDLEM
TO FILL MB (86 EDGE)
1 1/4" X 8"**



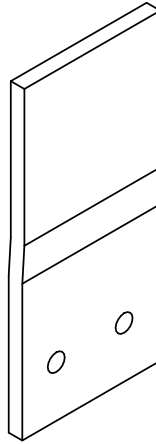
**PARTS - DOOR
FILLER CHANGE MB TO C4 EDGE**



PART # PDLMC



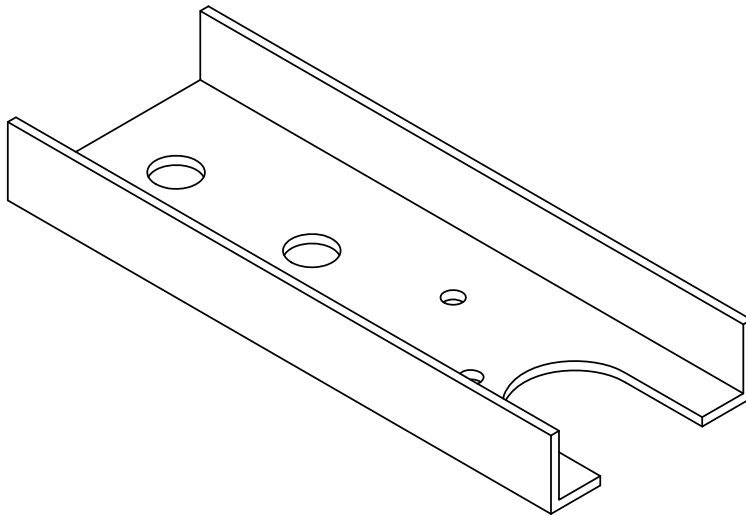
**PARTS - DOOR
FLUSH BOLT REINFORCEMENT TAB (MBR001)**



PART # PDFBA



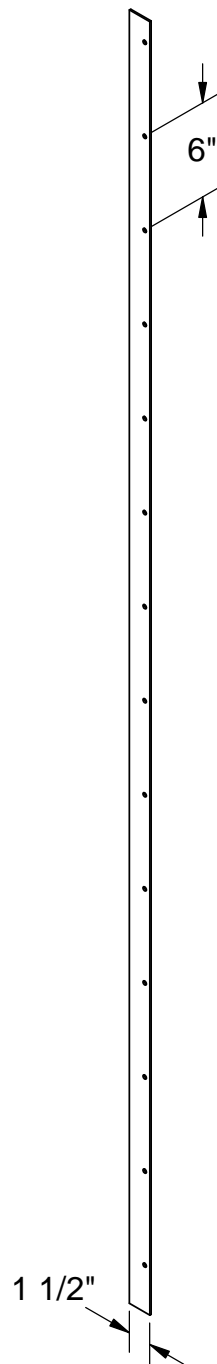
**PARTS - DOOR
FLUSH BOLT GUIDE (MBR401)**



PART # PDFBG



PARTS - DOOR
FLAT ASTRAGAL (68, 70, 72, 80, 100)



PART # PDFA (68, 70, 72, 80, 100)



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**PARTS - DOOR
Z ASTRAGALS**

16 Gauge Galvanized



Z ASTRAGAL BLANK

**6'8" PART # PDZAB68
7' PART # PDZAB70
8' PART # PDAB
10' PART # PDZABT**



Z ASTRAGAL U STRIKE

**6'8" RH PART # PDZAU68R
6'8" LH PART # PDZAU68L
7' RH PART # PDZAU70R
7' LH PART # PDZAU70L
8' RH PART # PDZAU80R
8' LH PART # PDZAU80L
10' PART # PDZAUT**



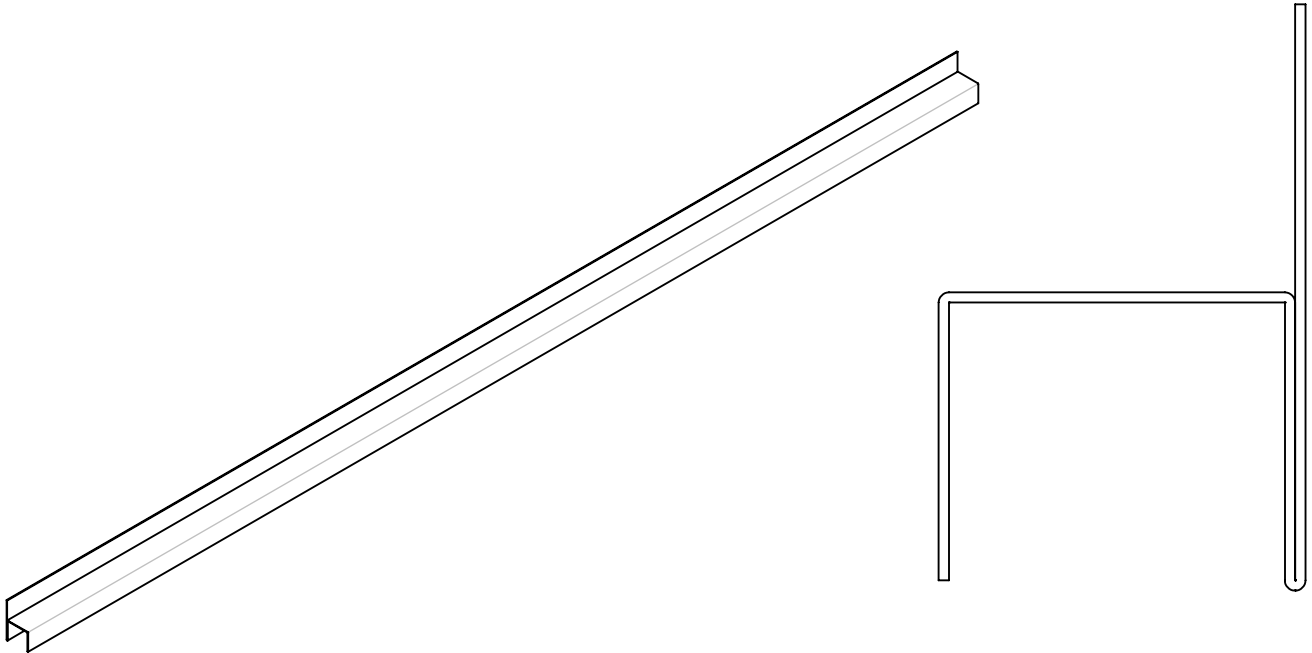
Z ASTRAGAL U STRIKE + FB PREP

**6'8" RH PART # PDZAU68RFB
6'8" LH PART # PDZAU68LFB
7' RH PART # PDZAU70RFB
7' LH PART # PDZAU70LFB
8' RH PART # PDZAU80RFB
8' LH PART # PDZAU80LFB**



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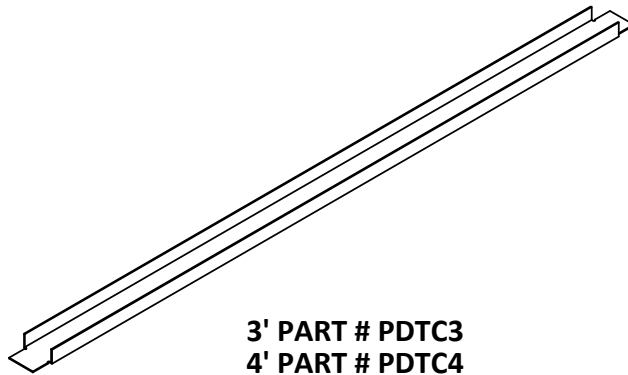
H ASTRAGAL



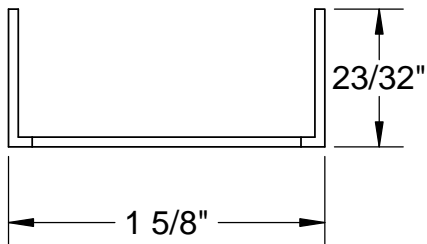
CALL FOR LEAD TIME AND AVAILABILITY

PARTS - DOOR

TOP AND BOTTOM CHANNEL 3' (TC-430), 4' (TC-440) AND 10'

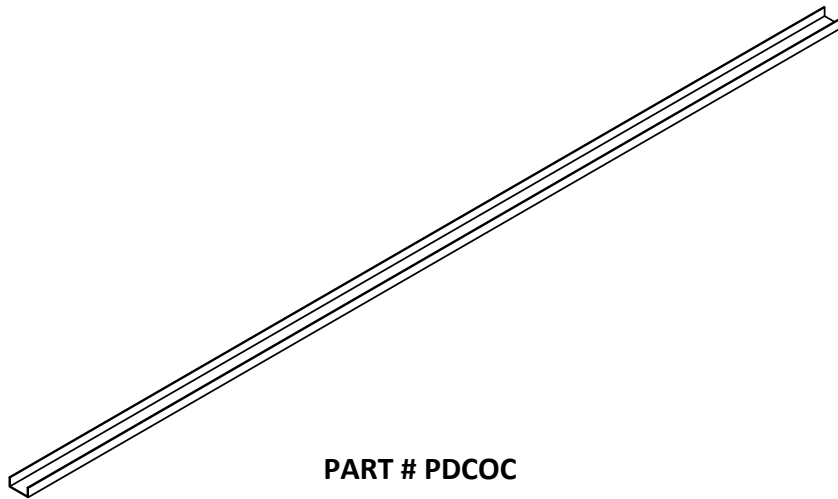


3' PART # PDTC3
4' PART # PDTC4
10' PART # PDC10
(10' IS NOT NOTCHED AT ENDS)

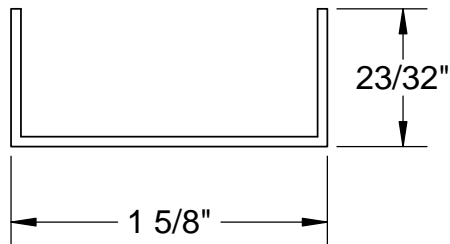


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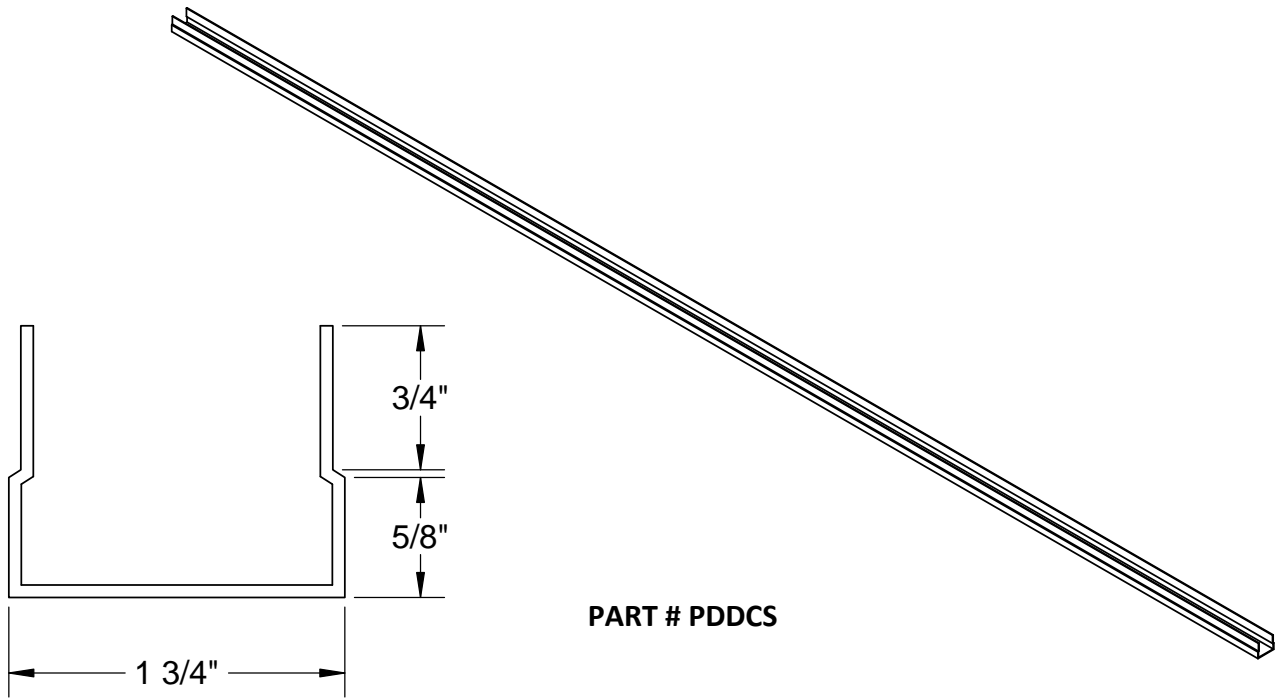
PARTS - DOOR
6' CHANNEL REINFORCEMENT FOR CUTOUTS



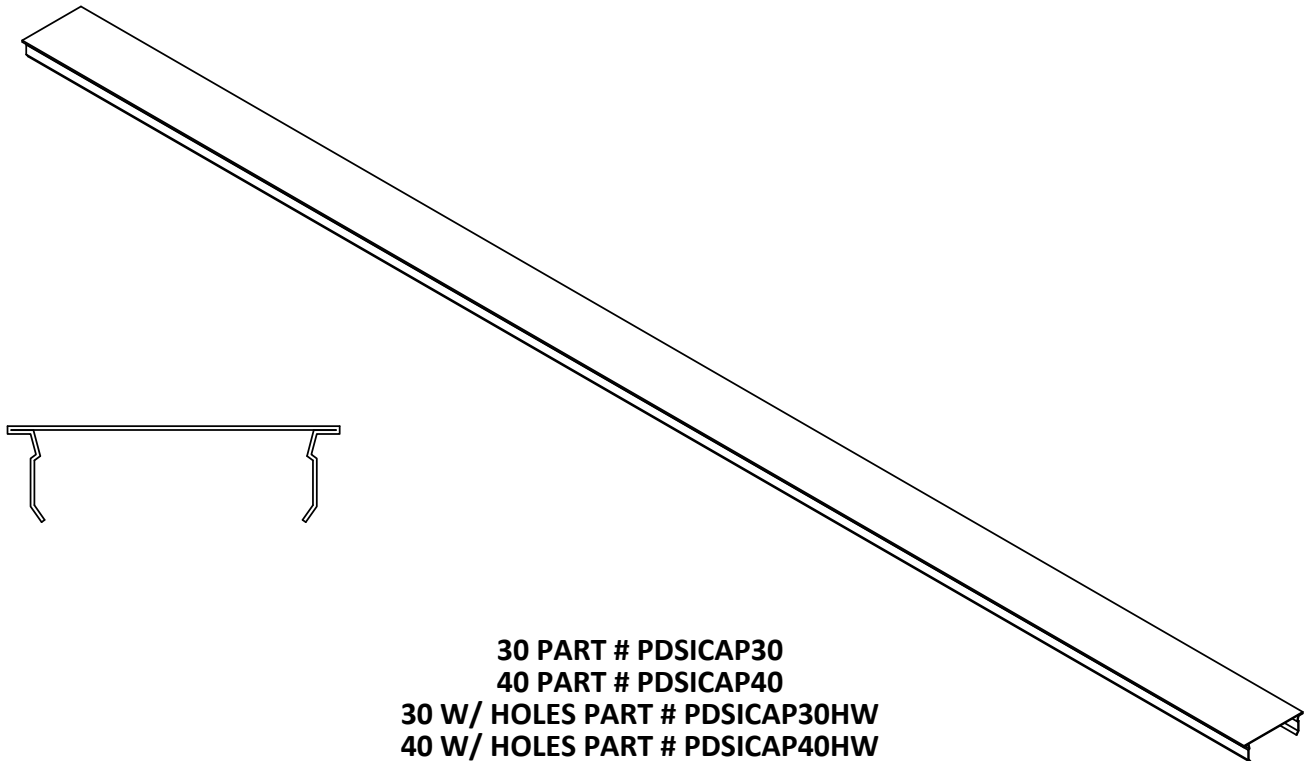
PART # PDCOC



PARTS - DOOR
DOOR CONVERSION STYLE (DCS)



**PARTS - DOOR
DOOR CAPS**

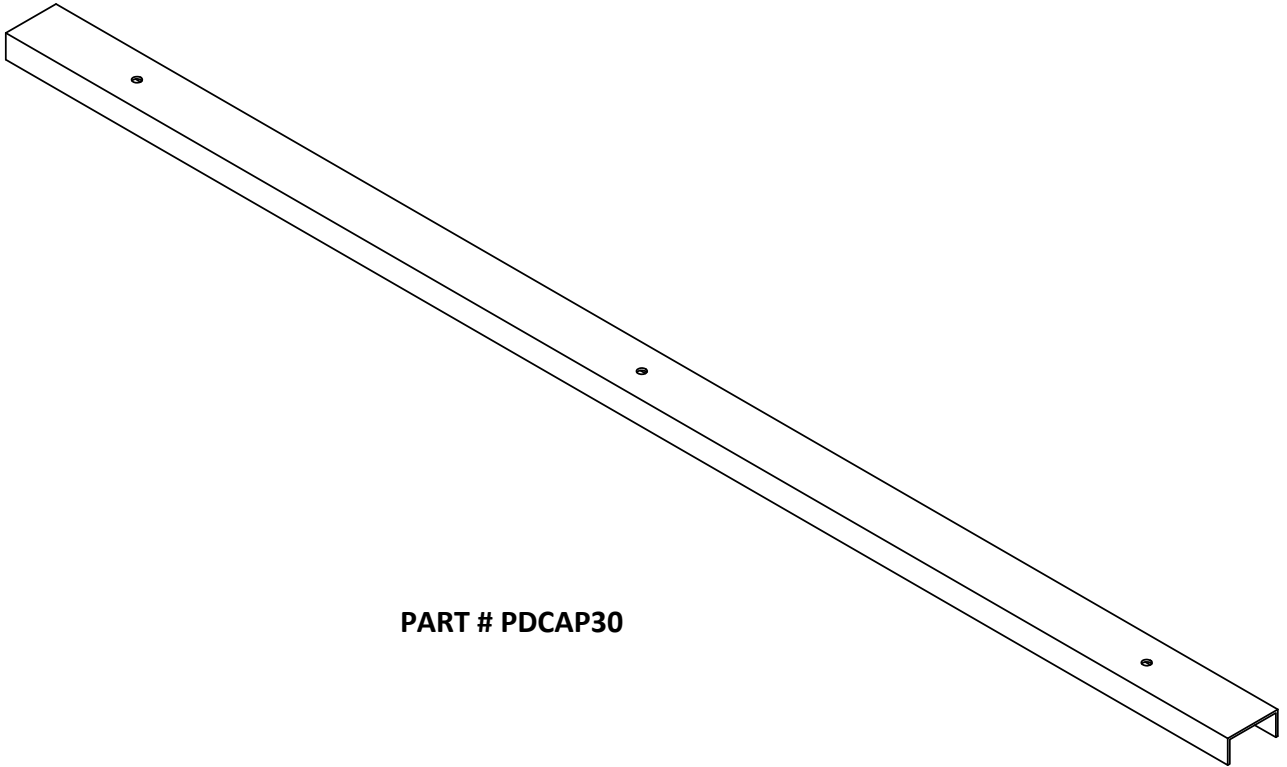


30 PART # PDSICAP30
40 PART # PDSICAP40
30 W/ HOLES PART # PDSICAP30HW
40 W/ HOLES PART # PDSICAP40HW



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PARTS - DOOR
FCS CAP TO FLUSH DOOR TOP (30)



PART # PDCAP30



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PARTS - DOOR
8" DUTCH SELF (30)

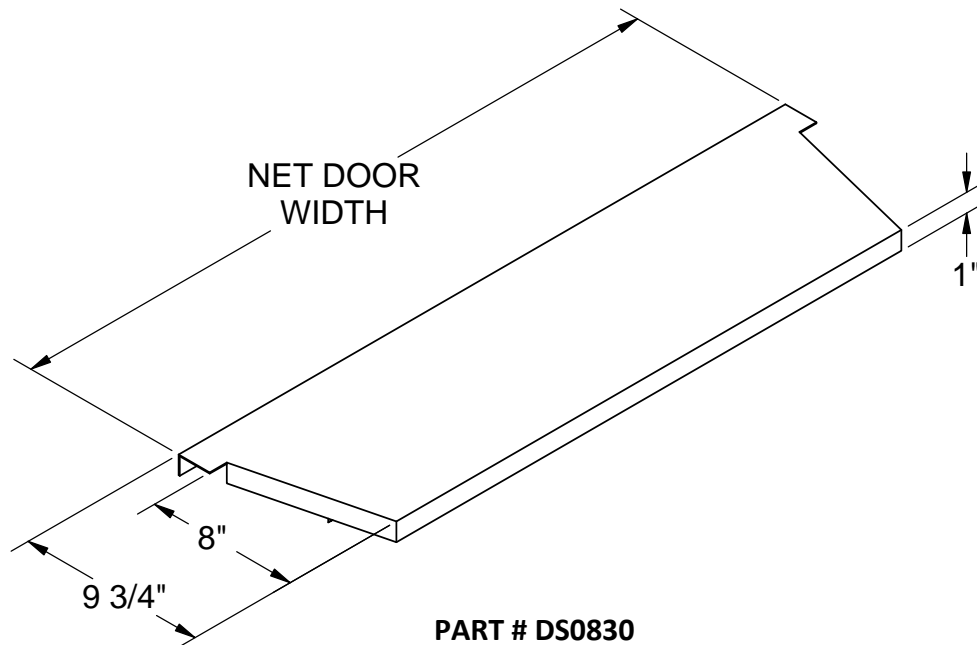


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STC ASSEMBLIES**DOOR CONSTRUCTION**

Cold rolled steel standard, A60 galvanized available. Metal gauge determined by STC rating requirements. Top and bottom of doors shall be constructed as required w/ integral sweep if required for STC rating.

CORE CONSTRUCTION

Core is proprietary as required to meet specific STC rating.

FRAME CONSTRUCTION

Cold rolled steel 14 ga Standard. A60 galvanized is available. Frames to be welded or split jamb. KD frames are not recommended for STC assemblies.

HARDWARE

All units are furnished with hinge reinforcements as required. If cam lift hinges are required they will be included. Doors shall be mortised and adequately reinforced for all hardware. Mortise hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware to be field drilled by others. Cylindrical locks require a minimum 3 ¾" backset. Electrified hardware is not recommended on STC assemblies.

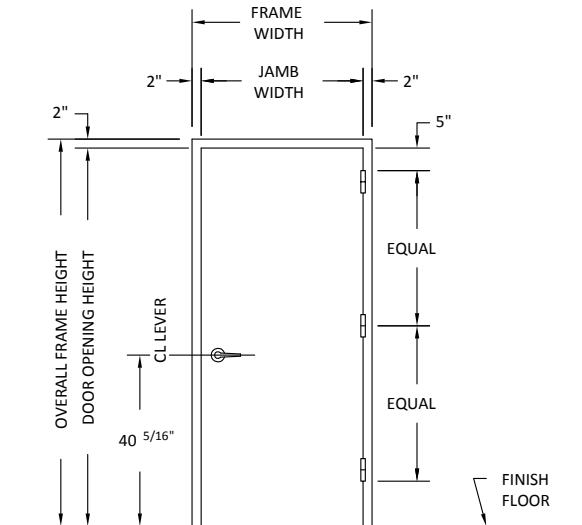
GLASS AND GLAZING

All glass and glazing by others.

COMPLIANCE

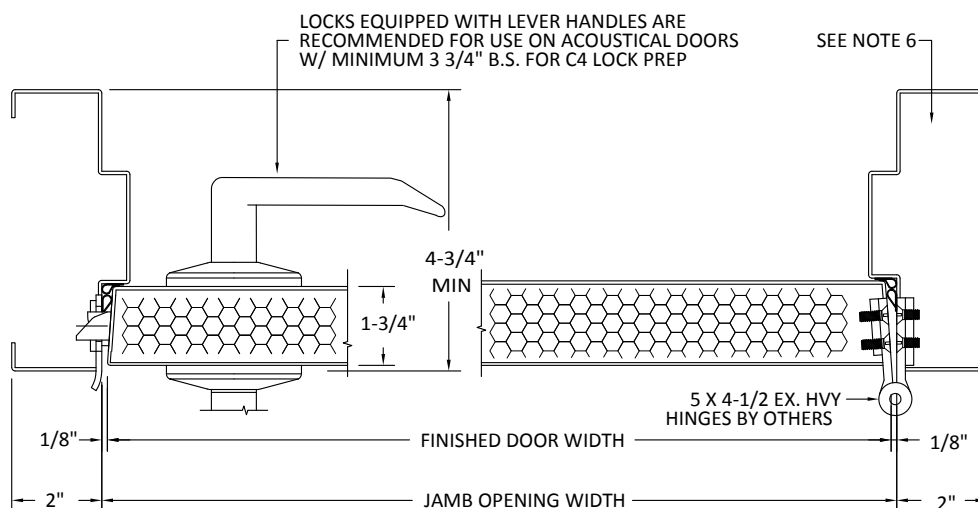
Mesker's acoustical assemblies are in compliance with ASTM E90 & E43 for Laboratory Testing. It is common practice to permit a 3 to 5 db drop from laboratory E413 standards to field test standard of E336 because of imperfections in the wall, floor and ceiling construction which will not be equal to an accredited Acoustical Laboratory.

STC 43 FLUSH SOUND CONTROL DOOR AND FRAME ASSEMBLY

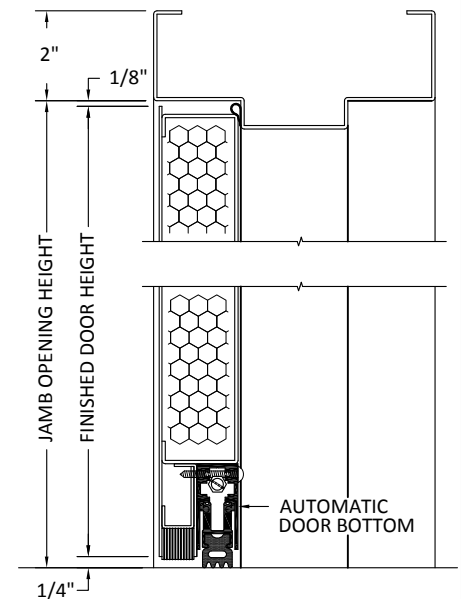


NOTES:

1. Doors and Frames to be painted with rust inhibitive primer.
2. Door bottom requires flush level sealing surface. Wood, aluminum, or stainless steel threshold recommended. **Do not seal against carpet.**
3. Frame is equipped with single compression seals at head and jambs. Door is equipped with an automatic door bottom.
4. Door weight is 7 pounds per square foot.
5. Door can be equipped with standard builders hardware, Customer to specify. Concealed hardware is not recommended for acoustical doors.
6. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool and all voids between wall and frame continuously caulked.
7. UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
8. Lab Tested STC 43 (field results may vary from STC 38 to 43)
9. Included: Double bubble perimeter seals and automatic door bottoms shipped loose. All Hardware furnished and applied by others.



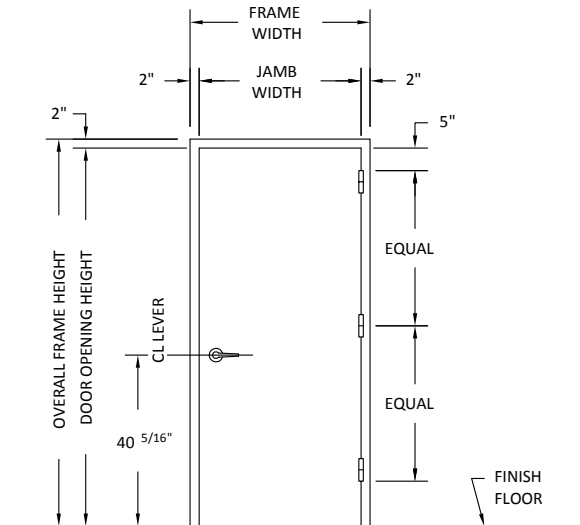
HORIZONTAL SECTION



VERTICAL SECTION

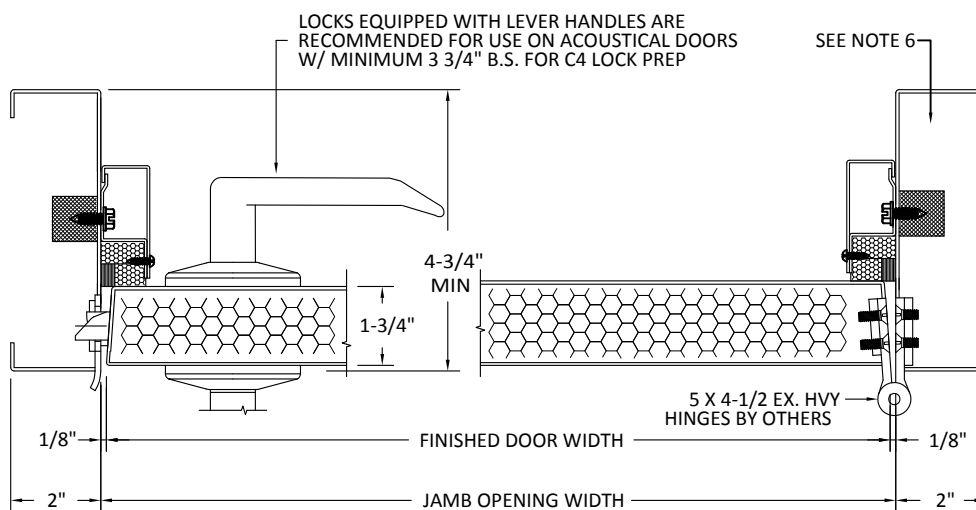
STC 45

FLUSH SOUND CONTROL DOOR AND FRAME ASSEMBLY

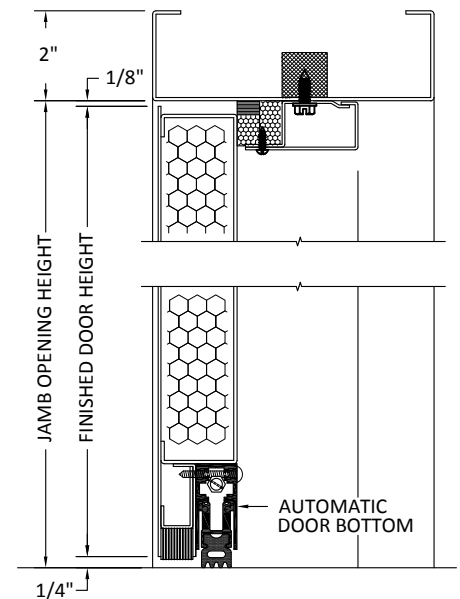


NOTES:

1. Doors and Frames to be painted with rust inhibitive primer.
2. Door bottom requires flush level sealing surface. Wood, aluminum, or stainless steel threshold recommended. **Do not seal against carpet.**
3. Frame is equipped with single compression seals at head and jams. Door is equipped with an automatic door bottom.
4. Door weight is 7 pounds per square foot.
5. Door can be equipped with standard builders hardware, Customer to specify. Concealed hardware is not recommended for acoustical doors.
6. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jams packed with 6 to 12 pound density mineral wool and all voids between wall and frame continuously caulked.
7. UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
8. Lab Tested STC 45 (field results may vary from STC 40 to 45)
9. Included: Compression perimeter seals and automatic door bottoms shipped loose. All Hardware furnished and applied by others.



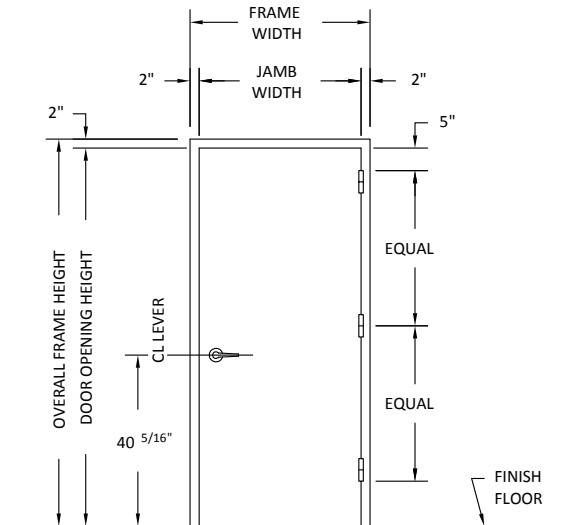
HORIZONTAL SECTION



VERTICAL SECTION

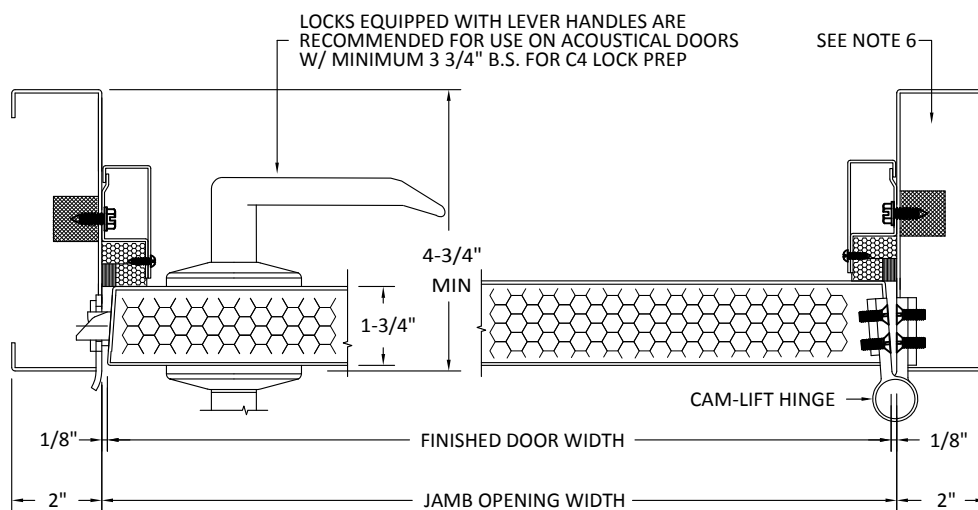
STC 50

FLUSH SOUND CONTROL DOOR AND FRAME ASSEMBLY

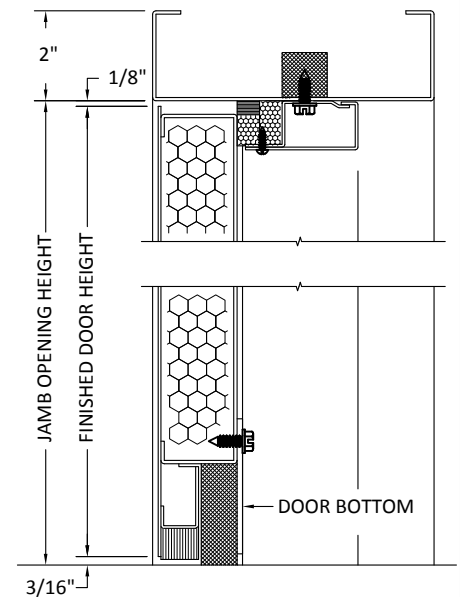


NOTES:

1. Doors and Frames to be painted with rust inhibitive primer.
2. Door bottom requires flush level sealing surface. Wood, aluminum, or stainless steel threshold recommended. **Do not seal against carpet.**
3. Frame is equipped with single compression seals at head and jambs. Door is equipped with an automatic door bottom.
4. Door weight is 9 pounds per square foot.
5. Door can be equipped with standard builders hardware, Customer to specify. Concealed hardware is not recommended for acoustical doors.
6. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool and all voids between wall and frame continuously caulked.
7. UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
8. Lab Tested STC 50 (field results may vary from STC 45 to 50).
9. Included: Compression door bottom and compression perimeter seals shipped loose. Supplied Cam-lift hinges must be used with this assembly. All other hardware furnished and applied by others.



HORIZONTAL SECTION



VERTICAL SECTION

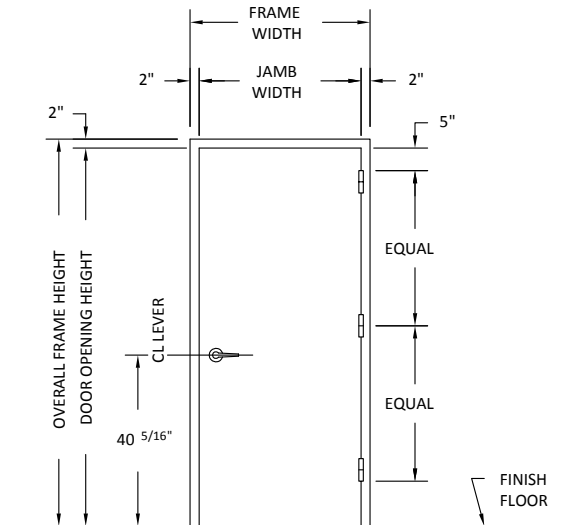


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STC 50M

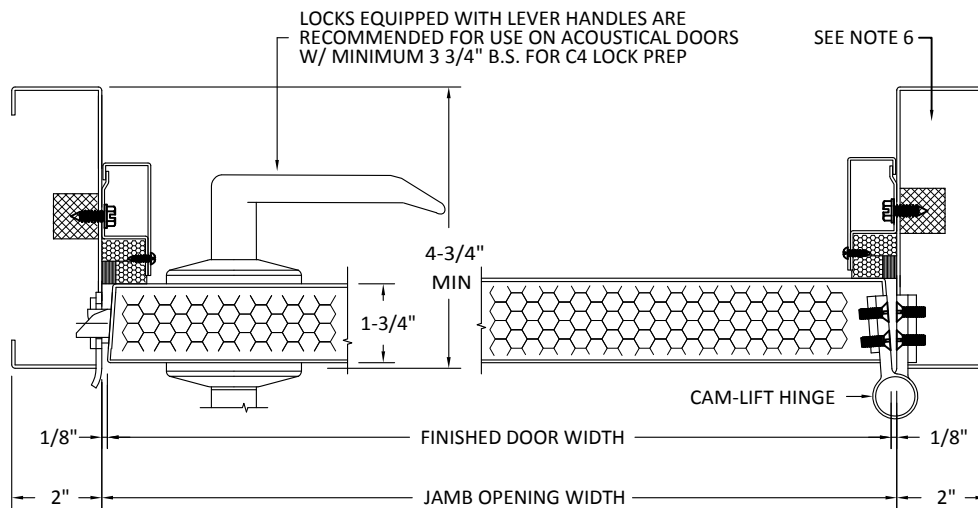
FLUSH SOUND CONTROL DOOR AND FRAME ASSEMBLY/SINGLE MAGNETIC GASKETS

(For use with electrified hardware)

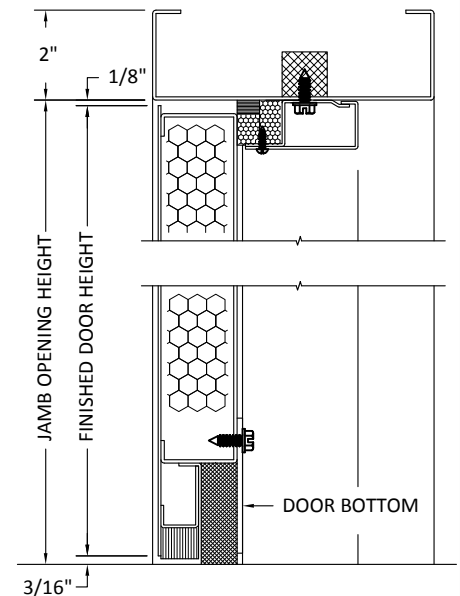


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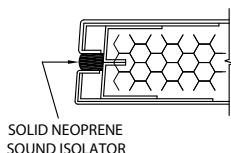
1. Doors and Frames to be painted with rust inhibitive primer.
2. Door bottom requires flush level sealing surface. Wood, aluminum, or stainless steel threshold recommended. **Do not seal against carpet.**
3. Frame is equipped with single magnetic seals at head and jambs. Door is equipped with an automatic door bottom.
4. Door weight is 11 pounds per square foot.
5. Door can be equipped with standard builders hardware, Customer to specify. Concealed hardware is not recommended for acoustical doors.
6. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool and all voids between wall and frame continuously caulked.
7. UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
8. Lab Tested STC 50 (field results may vary from STC 45 to 50).
9. Included: Compression door bottom and magnetic perimeter seals shipped loose. Supplied Cam-lift hinges must be used with this assembly. All other hardware furnished and applied by others.



HORIZONTAL SECTION



VERTICAL SECTION

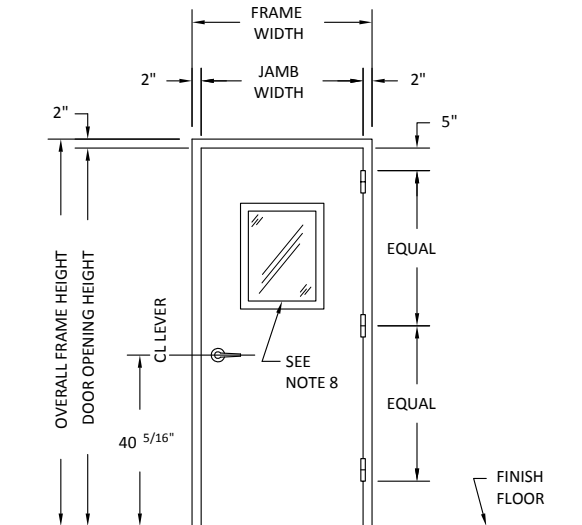


EDGE CONSTRUCTION

DOOR JAMB DETAIL

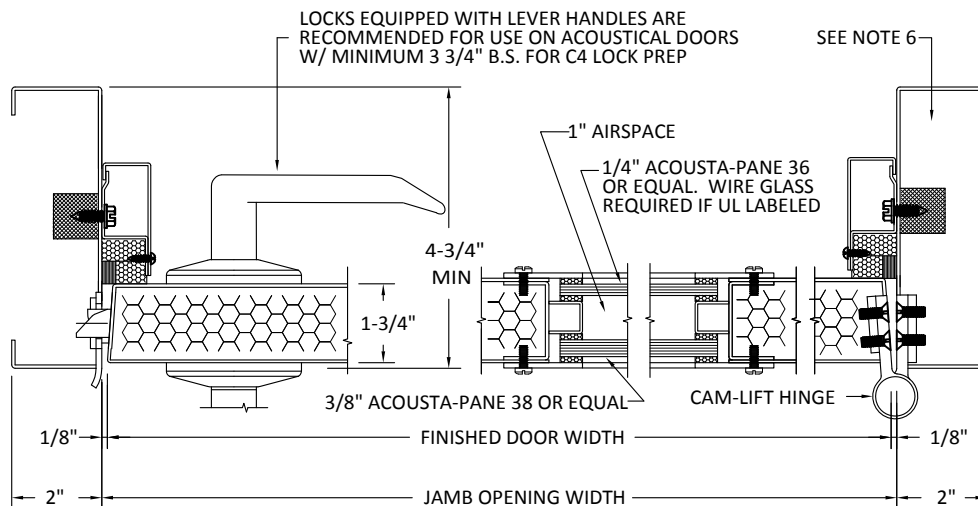


STC 51L DUAL GLAZED SOUND CONTROL DOOR AND FRAME ASSEMBLY

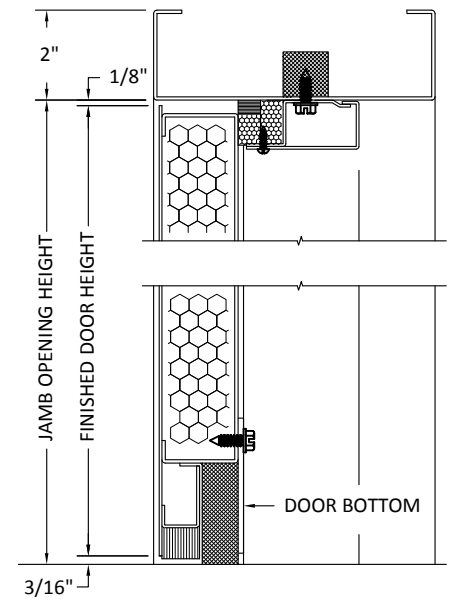


NOTES:

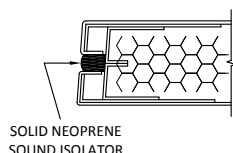
1. Doors and Frames to be painted with rust inhibitive primer.
2. Door bottom requires flush level sealing surface. Wood, aluminum, or stainless steel threshold recommended. **Do not seal against carpet.**
3. Frame is equipped with compression seals at head and jambs.
4. Door weight is 12 pounds per square foot.
5. Door can be equipped with standard builders hardware, Customer to specify. Concealed hardware is not recommended for acoustical doors.
6. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool and frame continuously caulked.
7. UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
8. Door tested acoustically with 300 square inch vision light. Sized specified by customer.
9. Lab Tested STC 51 (field results may vary from STC 46 to 51).
10. Included: Compression door bottom and compression perimeter seals shipped loose. Supplied Cam-lift hinges must be used with this assembly. All other hardware furnished and applied by others.



HORIZONTAL SECTION



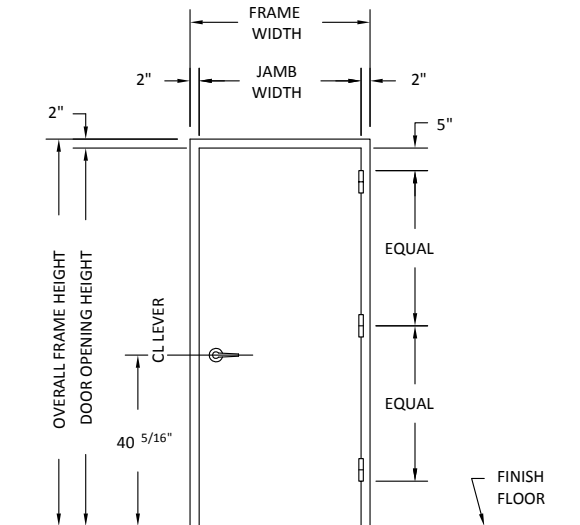
VERTICAL SECTION



EDGE CONSTRUCTION
DOOR JAMB DETAIL

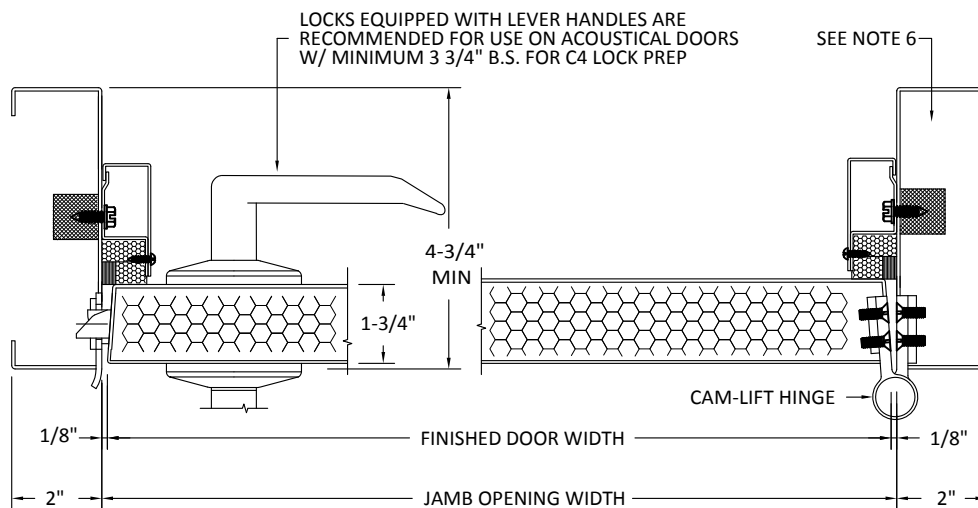
STC 52

FLUSH SOUND CONTROL DOOR AND FRAME ASSEMBLY

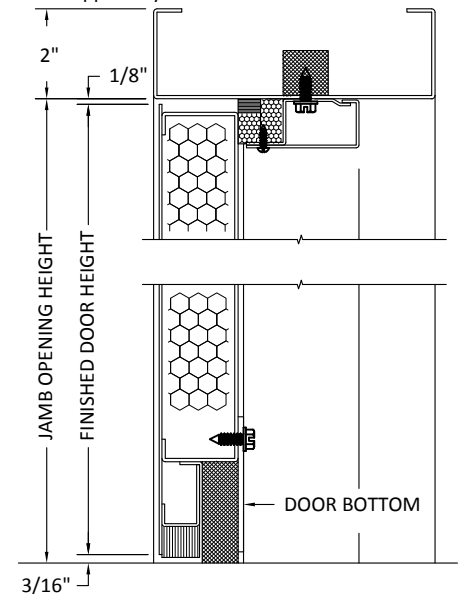


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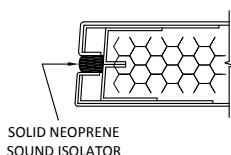
- Doors and Frames to be painted with rust inhibitive primer.
- Door bottom requires flush level sealing surface. Wood, aluminum, or stainless steel threshold recommended. **Do not seal against carpet.**
- Frame is equipped with compression seals at head and jambs.
- Door weight is 11 pounds per square foot.
- Door can be equipped with standard builders hardware, Customer to specify. Concealed hardware is not recommended for acoustical doors.
- Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool and all voids between wall and frame continuously caulked.
- UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
- Lab Tested STC 52 (field results may vary from STC 47 to 52).
- Included: Compression door bottom and compression perimeter seals shipped loose. Supplied Cam-lift hinges must be used with this assembly. All other hardware furnished and applied by others.



HORIZONTAL SECTION



VERTICAL SECTION



EDGE CONSTRUCTION
DOOR JAMB DETAIL

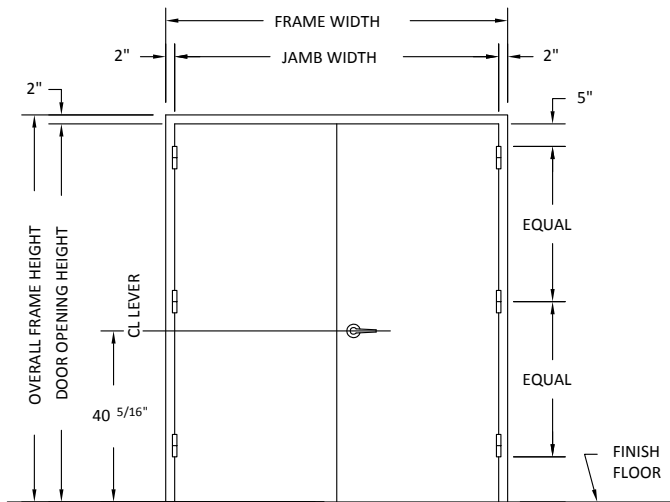
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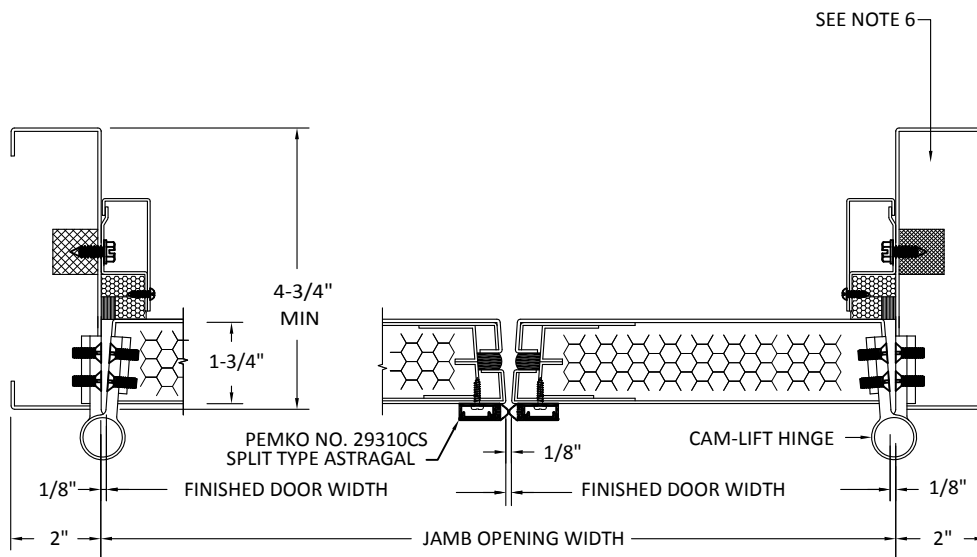
STC 48PR

PAIRED FLUSH SOUND CONTROL DOOR AND FRAME ASSEMBLY (PANIC OPERATION)

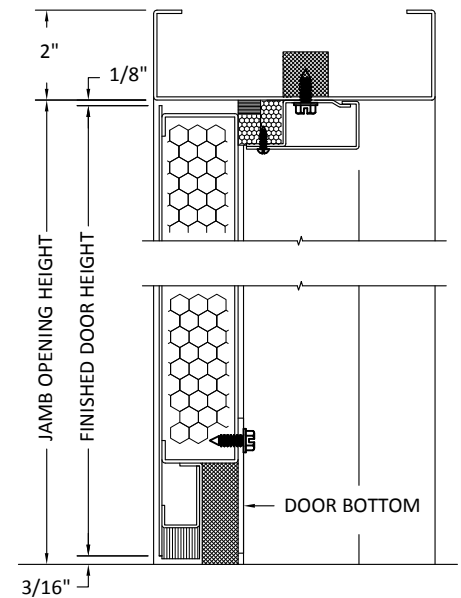


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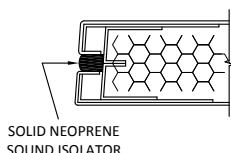
1. Doors and Frames to be painted with rust inhibitive primer.
2. Door bottom requires flush level sealing surface. Wood, aluminum, or stainless steel threshold recommended. **Do not seal against carpet.**
3. Frame is equipped with compression seals at head and jambs.
4. Door weight is 11 pounds per square foot.
5. Door can be equipped with standard builders hardware, Customer to specify. Concealed hardware is not recommended for acoustical doors.
6. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool and all voids between wall and frame continuously caulked.
7. UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
8. Lab Tested STC 48 (field results may vary from STC 43 to 48).
9. Included: Compression door bottom and compression perimeter seals shipped loose. Supplied Cam-lift hinges must be used with this assembly. All other hardware furnished and applied by others.



HORIZONTAL SECTION

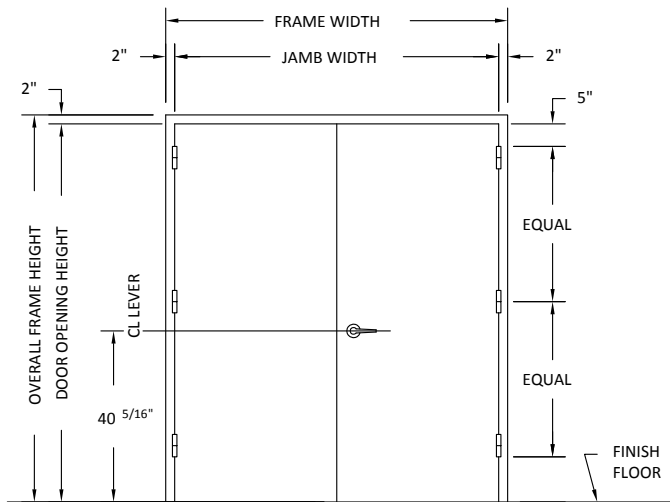


VERTICAL SECTION



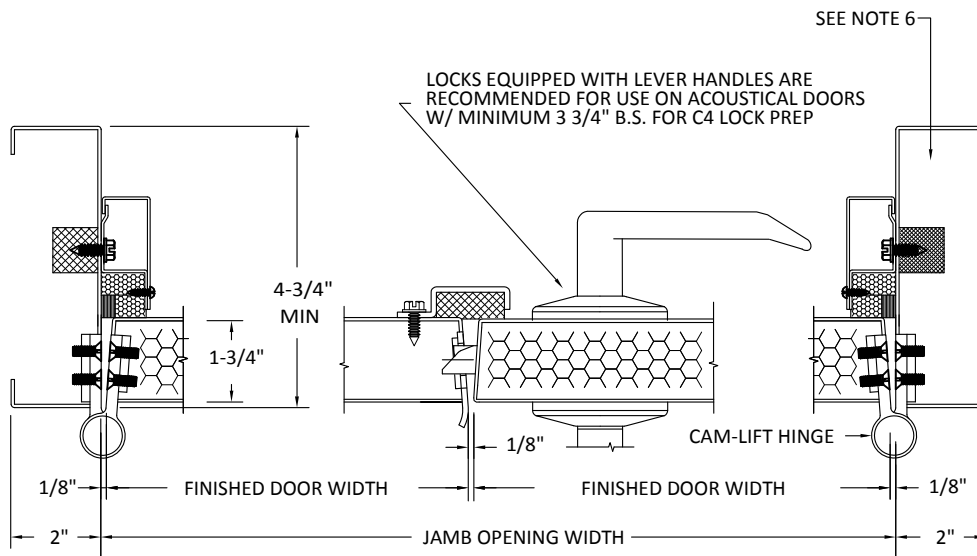
EDGE CONSTRUCTION
DOOR JAMB DETAIL

PAIRED FLUSH SOUND CONTROL DOOR AND FRAME ASSEMBLY

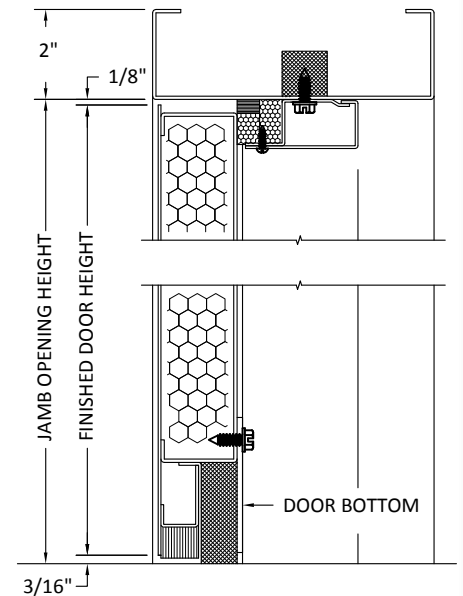


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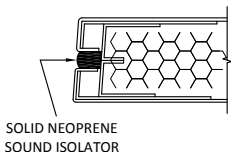
1. Doors and Frames to be painted with rust inhibitive primer.
2. Door bottom requires flush level sealing surface. Wood, aluminum, or stainless steel threshold recommended. **Do not seal against carpet.**
3. Frame is equipped with compression seals at head and jambs.
4. Door weight is 11 pounds per square foot.
5. Door can be equipped with standard builders hardware, Customer to specify. Concealed hardware is not recommended for acoustical doors.
6. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool and all voids between wall and frame continuously caulked.
7. UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
8. Lab Tested STC 50 (field results may vary from STC 45 to 50).
9. Included: Compression door bottom and compression perimeter seals shipped loose. Supplied Cam-lift hinges must be used with this assembly. All other hardware furnished and applied by others.



HORIZONTAL SECTION



VERTICAL SECTION



EDGE CONSTRUCTION

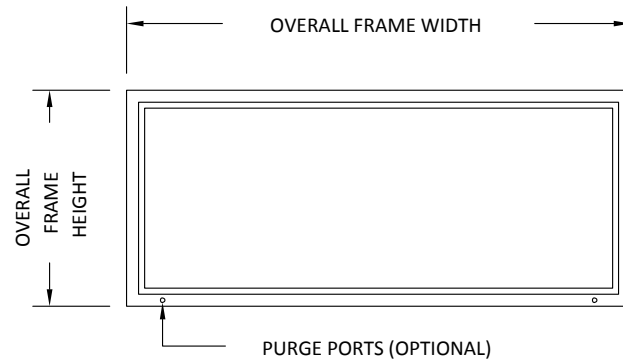
DOOR JAMB DETAIL

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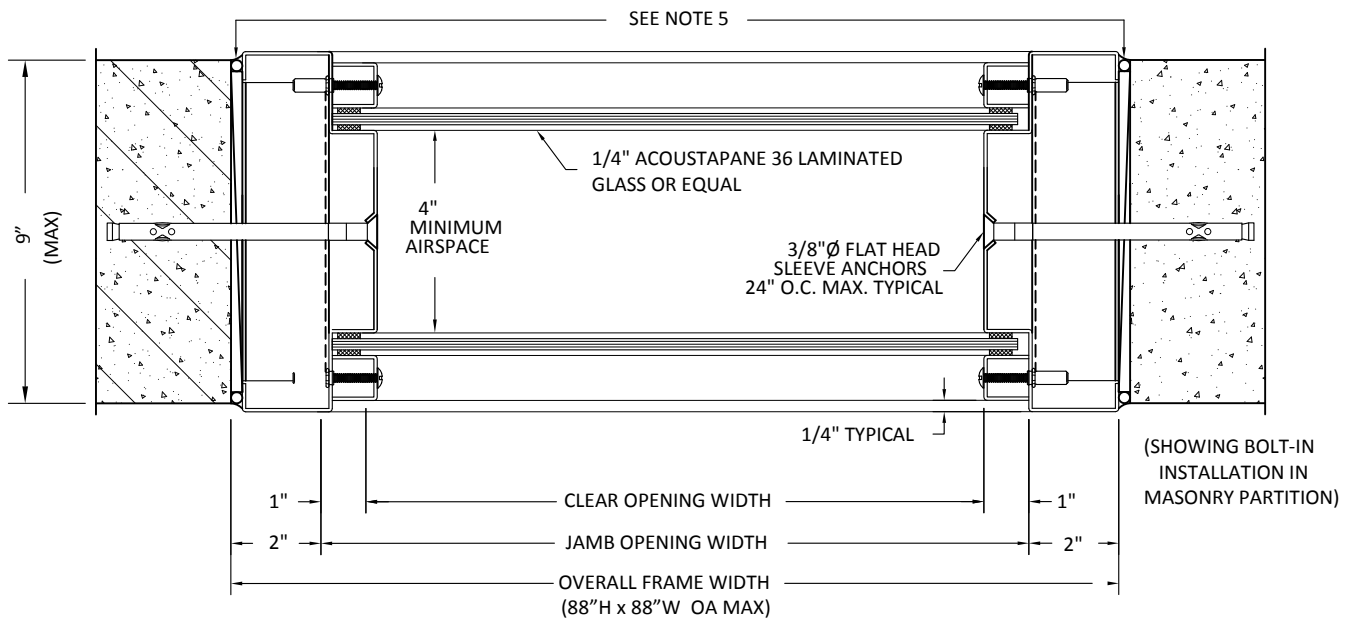
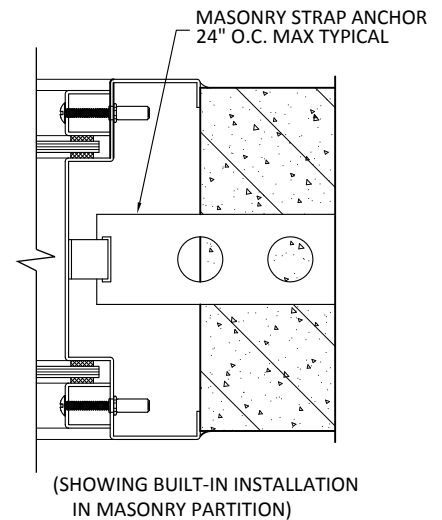
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STC 52BL
SOUND RATED BORROWED LITE



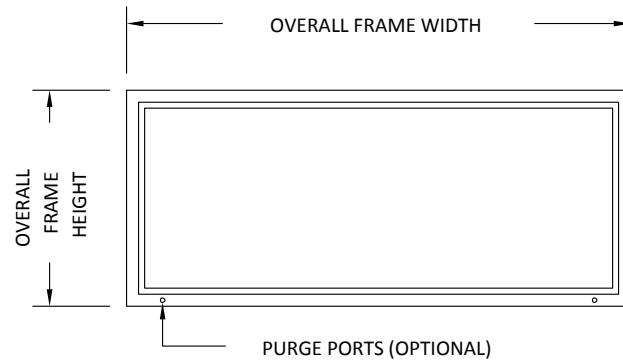
NOTES:

1. Exposed surfaces to be coated with rust inhibitive primer.
2. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool.
3. Unit available with two (2) purge ports (optional).
4. UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
5. All voids between wall and frame must be continuously caulked.
6. Installed product field results calculated according to ASTM E413 shall be no less than five (5) NIC rating points below the specified laboratory STC rating.
7. All glass by others.



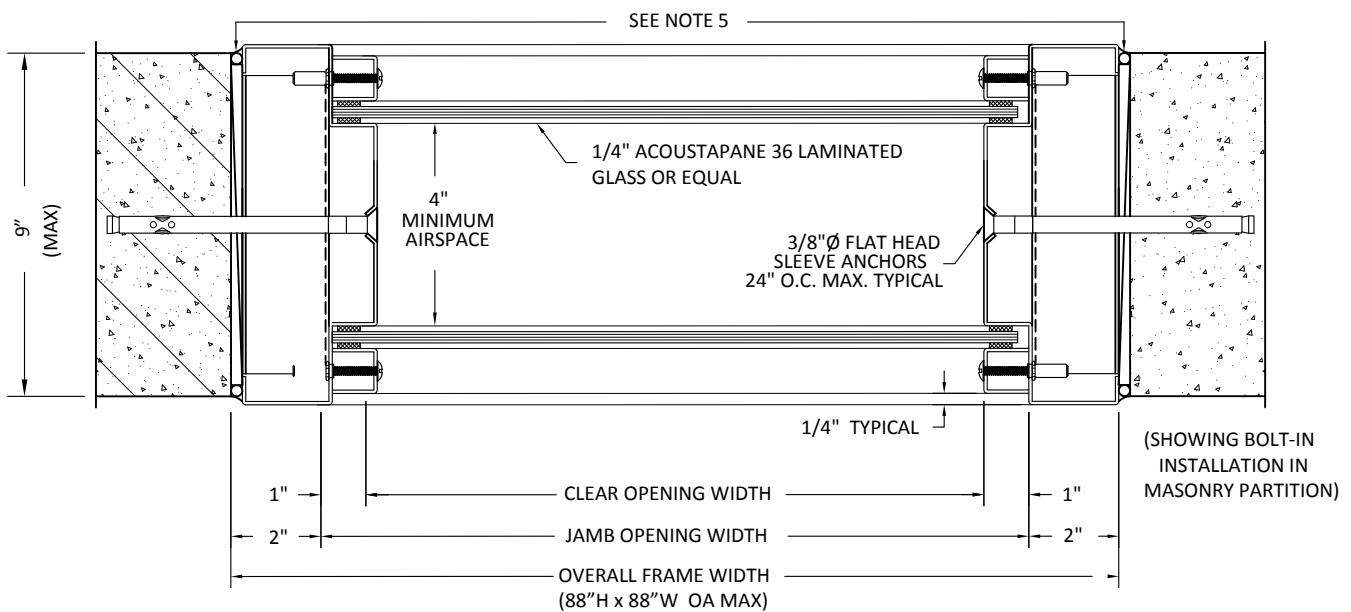
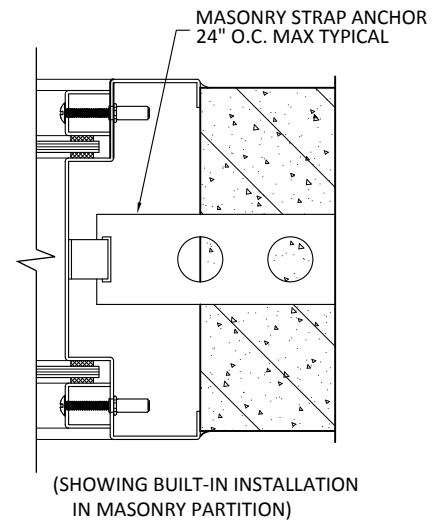
HORIZONTAL SECTION

STC 53BL
SOUND RATED BORROWED LITE



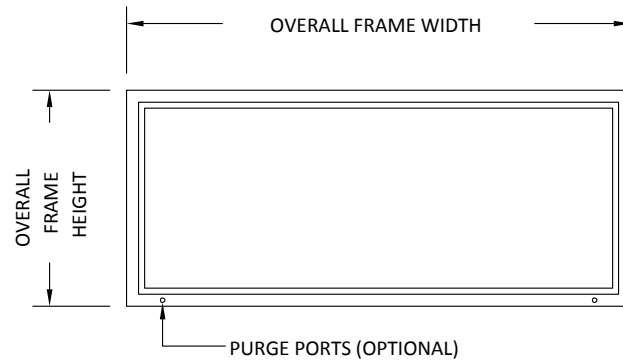
NOTES:

1. Exposed surfaces to be coated with rust inhibitive primer.
2. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool.
3. Unit available with two (2) purge ports (optional).
4. UL fire labels available in compliance with UL10B and UL10C/UBC7-2. Consult factory for specifics.
5. All voids between wall and frame must be continuously caulked.
6. Installed product field results calculated according to ASTM E413 shall be no less than five (5) NIC rating points below the specified laboratory STC rating.
7. All glass by others.



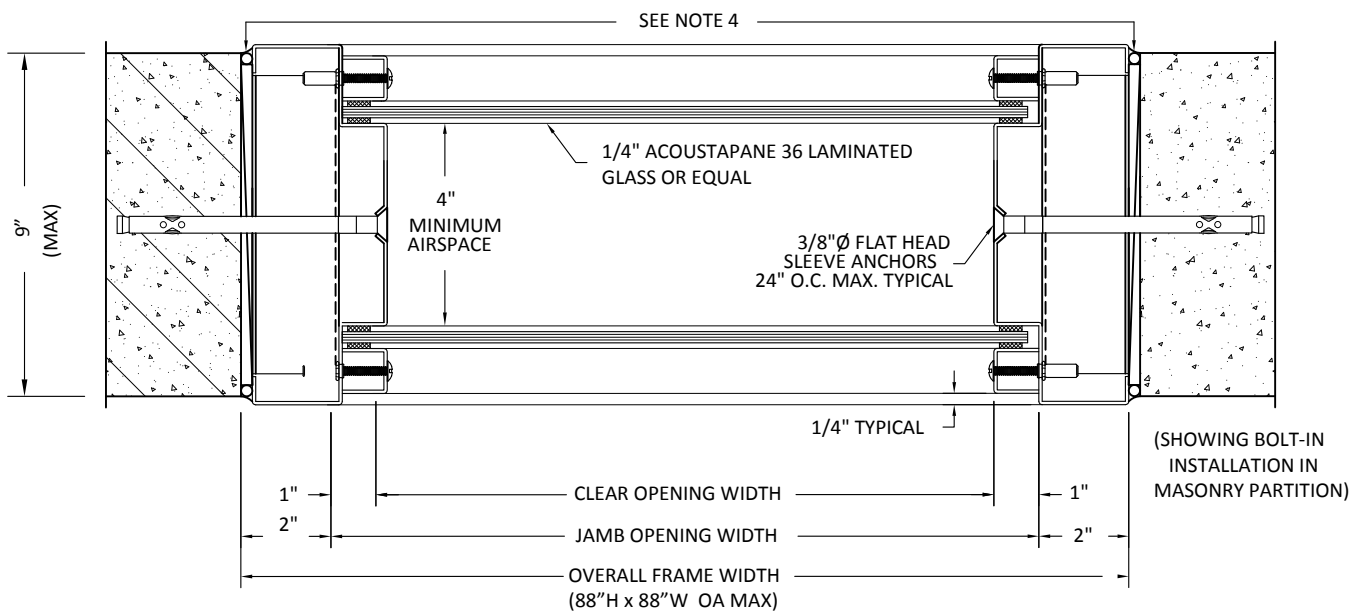
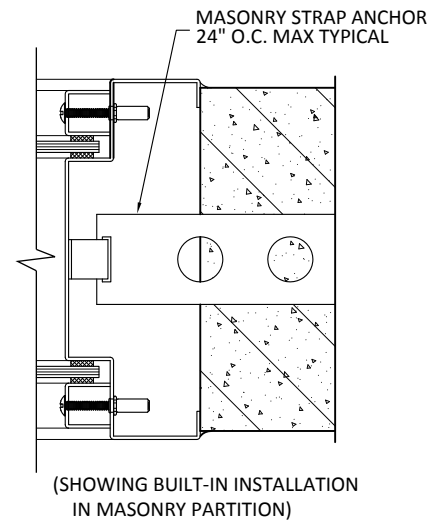
HORIZONTAL SECTION

STC 54BL
SOUND RATED BORROW LITE



NOTES:

1. Frame to be painted with rust inhibitive primer.
2. Frames equipped with masonry anchors must be grouted full in field. Bolt-in type frames must have all voids in head and jambs packed with 6 to 12 pound density mineral wool.
3. Unit available with two (2) purge ports (optional).
4. All voids between wall and frame must be continuously caulked.
5. Installed product field results calculated according to ASTM E413 shall be no less than five (5) NIC rating points below the specified laboratory STC rating.
6. All glass by others.



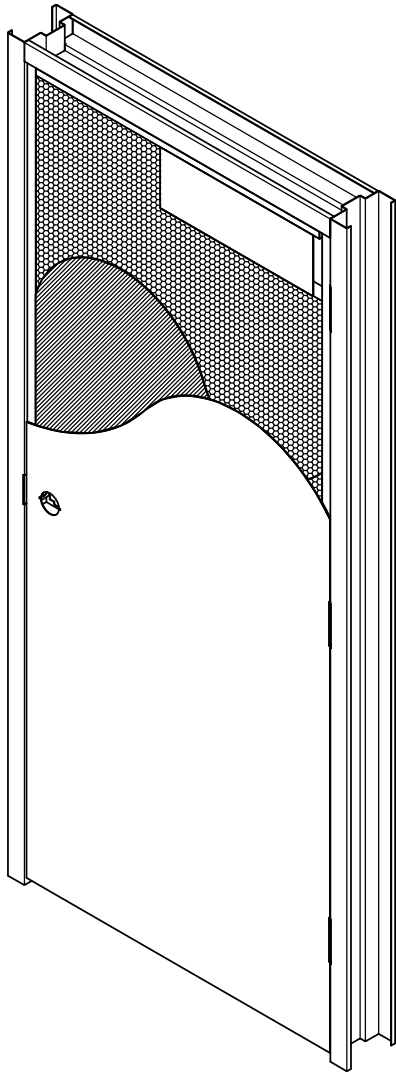
HORIZONTAL SECTION

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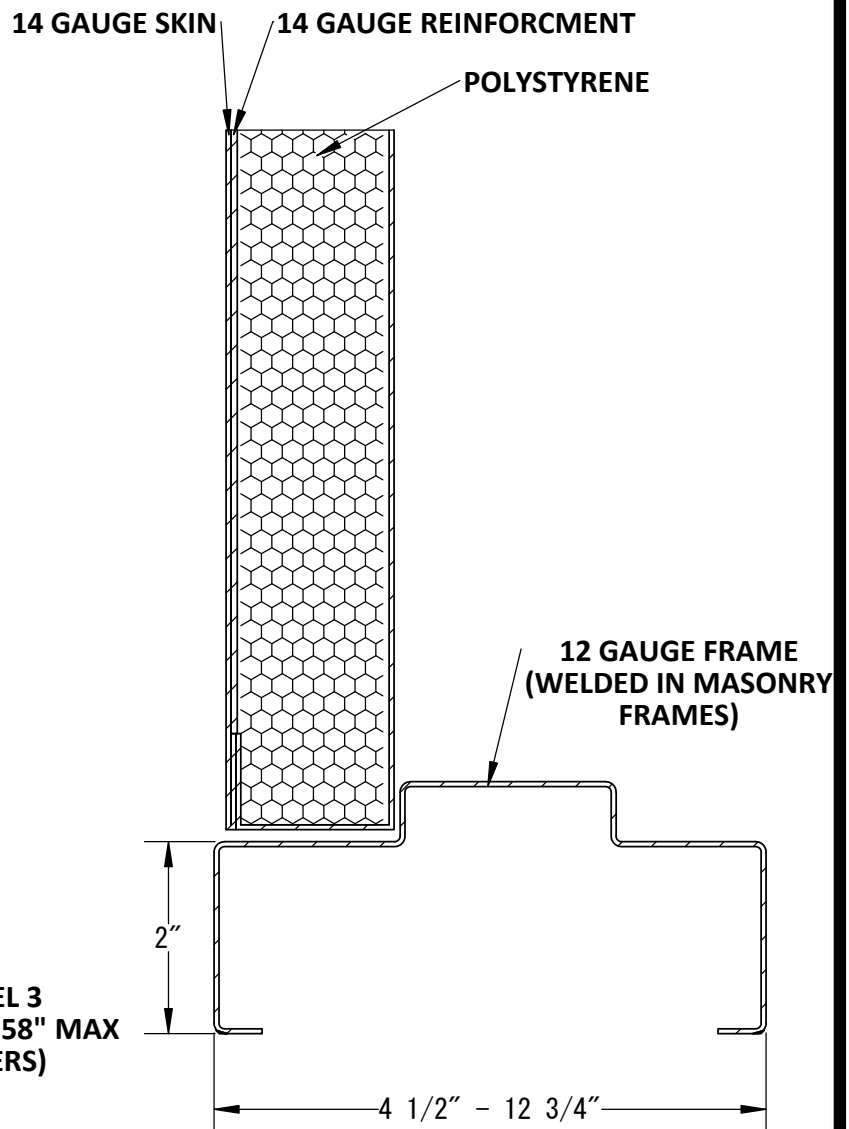
Specialty Assemblies

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TORNADO DOOR 361 1 of 2	S-3
Safe Room Door	S-4
Hurricane Assemblies.....	S-8

BULLET ASSEMBLY



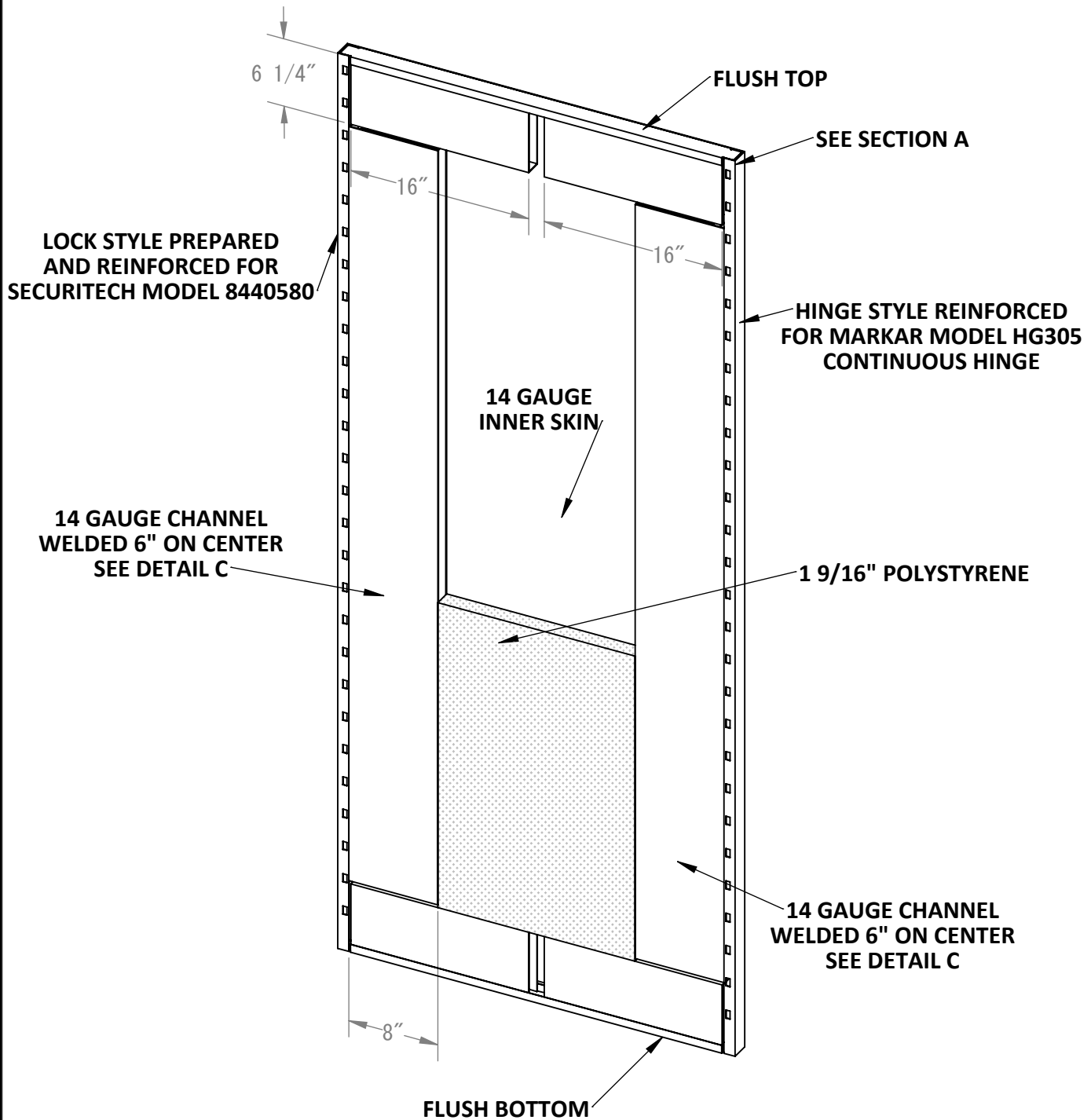
UL 752 - BULLET RESISTANT UP TO LEVEL 3
GLASS LITE AVAILABLE: 10" X 10" MIN. 28" X 58" MAX
WITH APPROPRIATE GLAZING (BY OTHERS)



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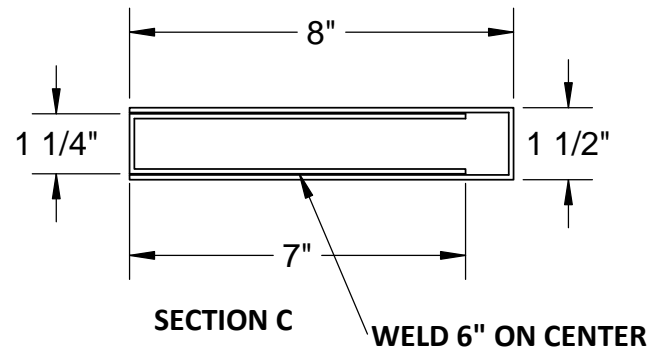
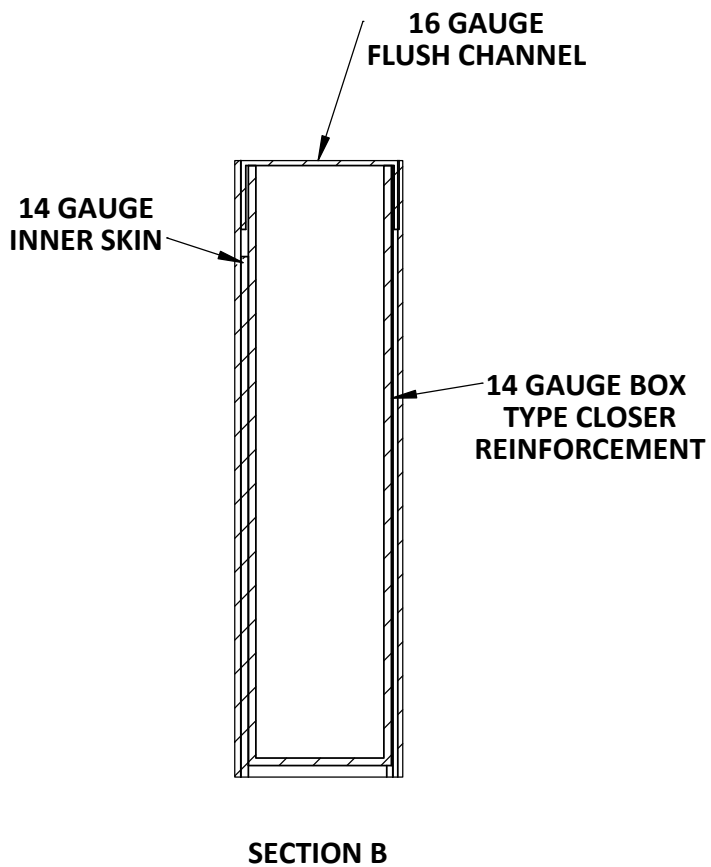
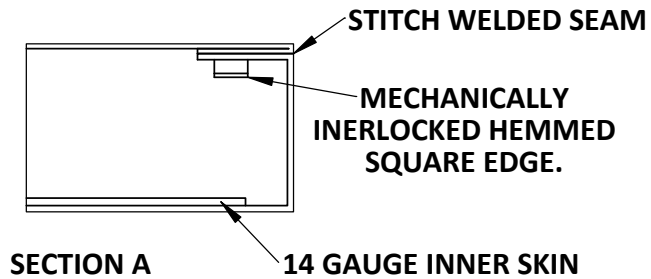
TORNADO DOOR 361

3070NP X 1 3/4" X 16 GAUGE X 14 GAUGE INNER SKIN ON IMPACT FACE X 14 GAUGE
 REINFORCING DOOR EDGES @2" ON CENTER X MARKAR CONTINUOUS HINGE #HG3057S
 X SECURITECH 3 POINT LOCKING SYSTEM #8444SBO
 HARDWARE BY OTHERS.

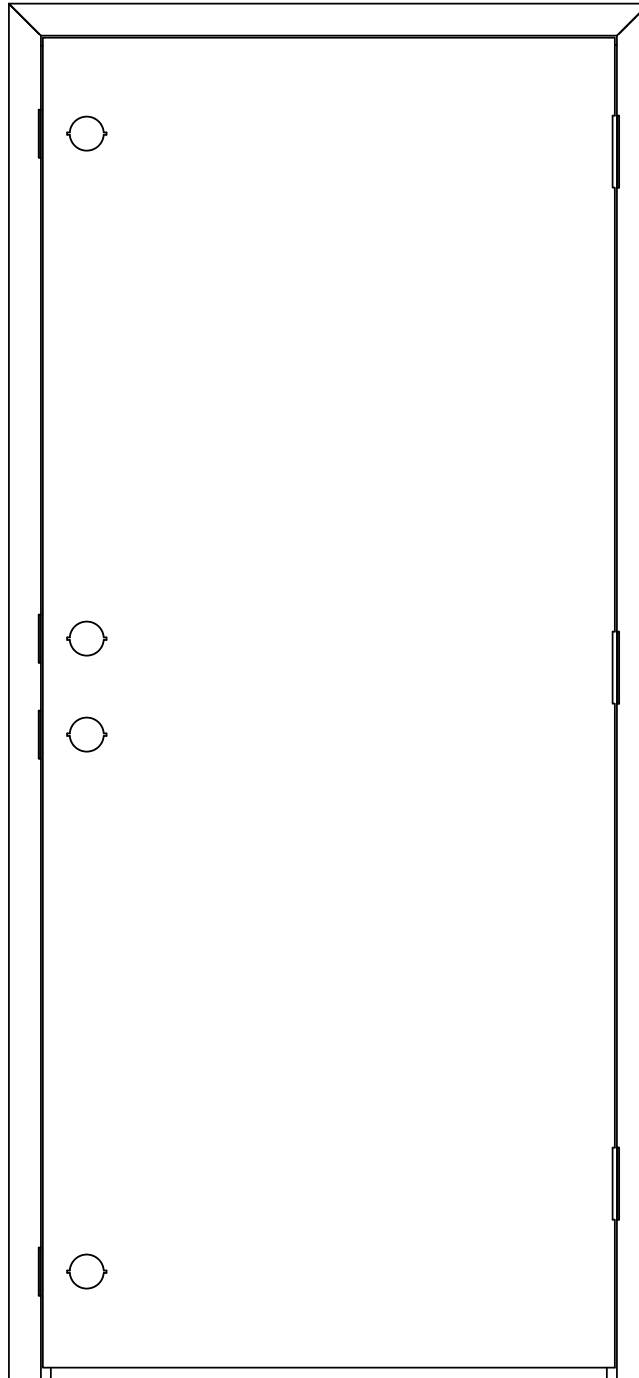


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TORNADO DOOR 361



**SPECIALTY
SAFE ROOM DOOR**



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HURRICANE ASSEMBLIES

COMING SOON



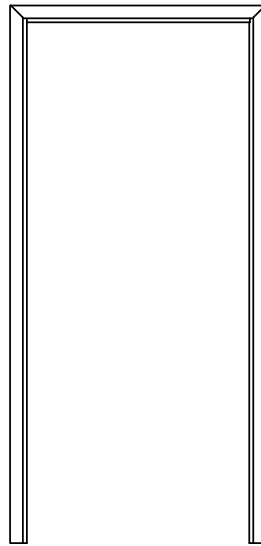
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FRAMES HOW TO ORDER



1

2

3

4

5

6

7

8

9

1

FRAME SERIES

F - MASONRY
FDJ - DRYWALL
FF - FLUSH FACE
RF - REMODELING

6

LENGTH

20 - 2'0" 68 - 6'8"
26 - 2'6" 70 - 7'0"
30 - 3'0" 80 - 8'0"
... ..

2

METAL TYPE

LEAVE BLANK - COLD ROLLED
Z - GALVENNEALED
G90 - GALVANIZED (G90)

7

HAND

R - RIGHT
L - LEFT

3

PREP SIDE AND GAUGE

4 - PREP ON 400 SIDE
8 - PREP ON 800 SIDE
THEN DESIGNATE GAUGE

8

FACE

W4F - 4"
W6F - 6"
W1 1/2F - 1 1/2"
LEAVE BLANK - 2"

4

JAMB DEPTH

9

PROFILE

DE - DOUBLE EGRESS
ER - EQUAL RABBET
SR - SINGLE RABBET
COS - CASED OPEN
LEAVE BLANK - UNEQUAL RABBET

5

FRAME TYPE

FH - FRAME HEADER
SJU - STRIKE JAMB U - STRIKE PREP
SJC - STRIKE JAMB C - STRIKE PREP
HJ - HINGE JAMB
BJ - BLANK JAMB
WJ - WINDOW JAMB

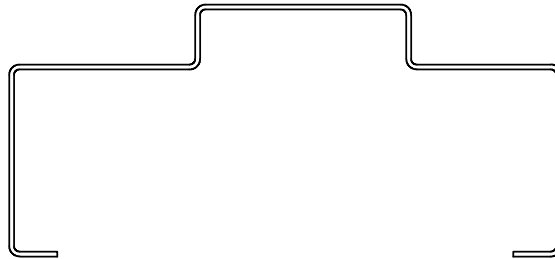
**USE THE APPROPRIATE SYMBOL AS DESIGNATED
ABOVE FOR POSITIONS 1 THRU 9.**

EXAMPLE

F	Z	416	5 3/4	HJ	70	R	W4F	DE
1	2	3	4	5	6	7	8	9



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F SERIES**Frame Construction**

12, 14, or 16 gauge, cold-rolled, galvanized, or galvanized G90 steel to be break-formed to the design specifications required. (See pages F-3 TO F-9 for sizes and profiles available). Frames shall be furnished knocked-down or welded, ground smooth upon request. Mitered corners shall have a strong, secure, four tab interlocking system to maintain neat mitered joints and corners. Standard frame to have 1/2" returns; standard stop heights to be 5/8" high. Soffit dimensions can vary. Frames can be single or double rabbeted. Frames will be supplied with welded on sill anchors. (Note: Bending tabs in on the jamb rabbets will increase door opening dimension).

Installation & Applications

Frames to be installed in accordance with ANSI A250.11-2001. Standard series frames to be used in a number of applications including masonry, wood stud and steel stud construction.

Hardware Reinforcements

Frames to be furnished with 4-1/2" or 5" standard or heavy weight 7 gauge steel hinge reinforcements and shall be adequately reinforced for all hardware. Standard arm or parallel closer reinforcements available upon request.

Strike and hinge reinforcements shall be protected by mortar guards. Single frames shall be prepared to receive (3) rubber mutes.

Finish

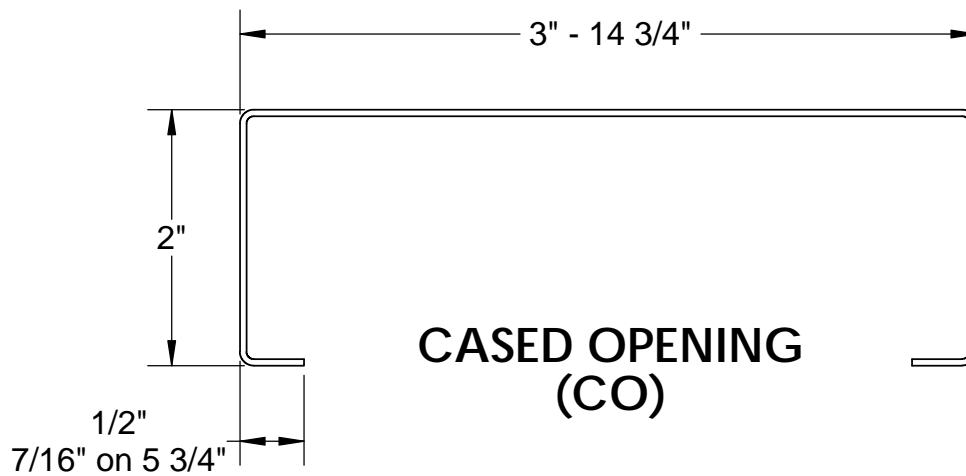
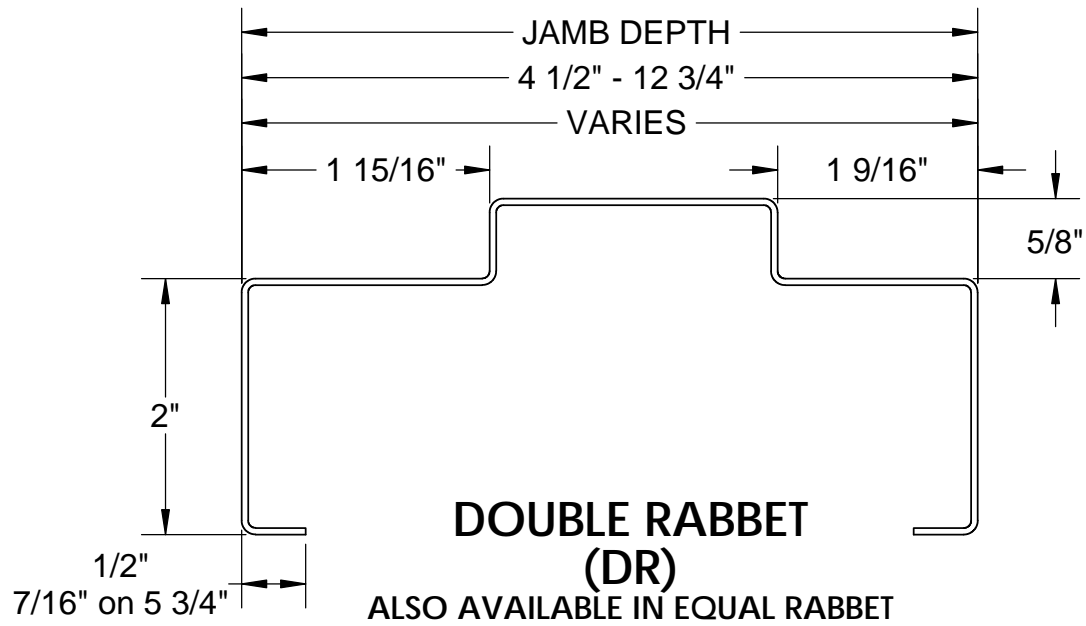
Exposed frame surfaces to be cleaned and treated then coated with rust inhibitive primer. Color painted frames to receive a durable, flow coated, baked on finish. Water-based primer and color paint finishes to be free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

Compliance

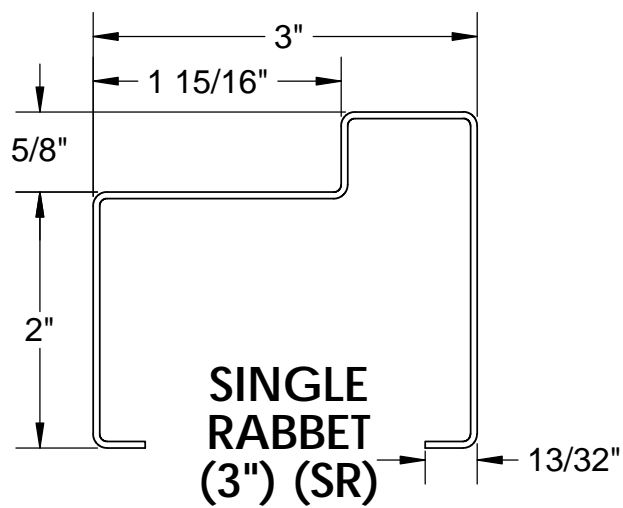
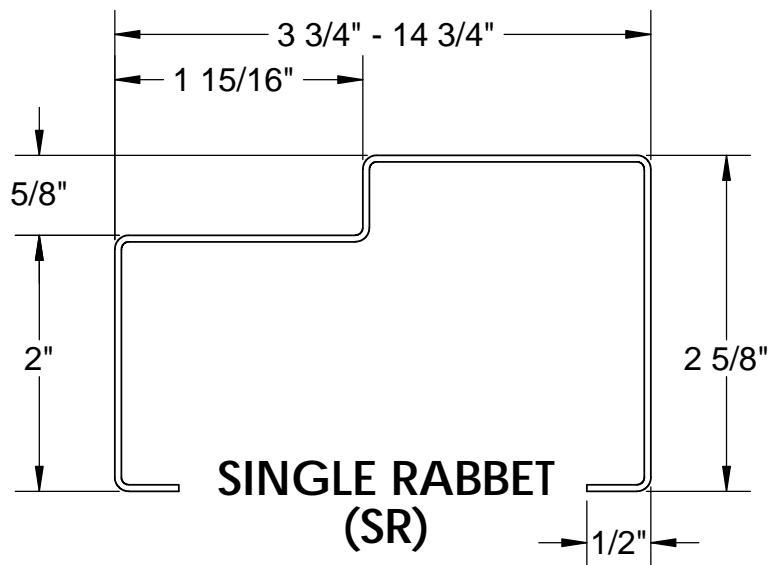
All Mesker frame components comply with ANSI A250.8(R2008). Fire labeling in accordance NFPA and available in FM (standard), WHI (Intertek) and Underwriters Laboratories. For a complete list of product compliance per ANSI/ASTM test methods, consult the labeling section.



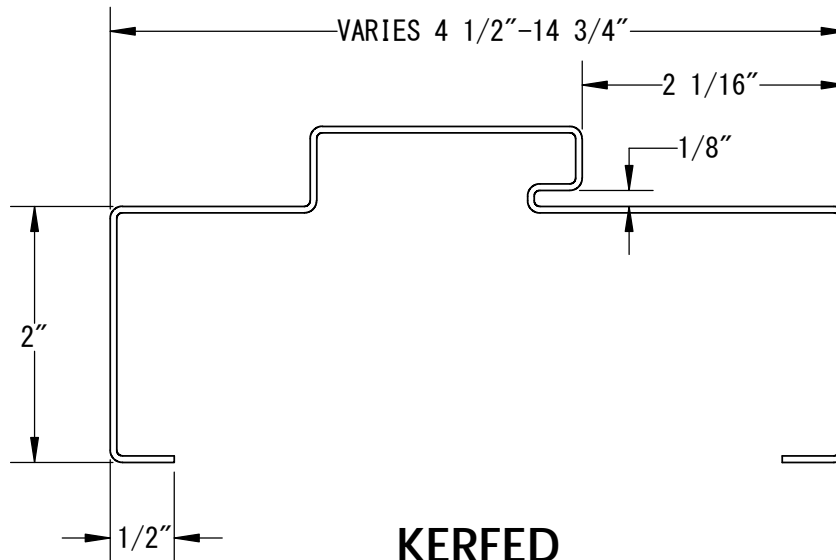
**F SERIES
PROFILES - DOUBLE RABBET AND CASED OPENING**



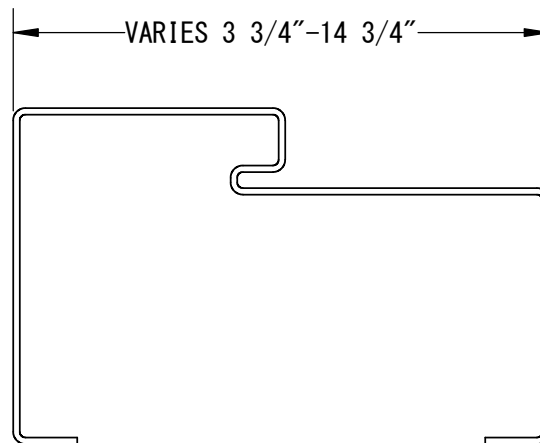
**F SERIES FRAME
PROFILES - SINGLE RABBET**



**F SERIES FRAME
PROFILE - KERFED FOR WEATHERSTRIPPING**



**KERFED
(K)**



AVAILABLE IN 14 OR 16 GAUGE

**PHYSICAL ENDURANCE LEVEL: MEETS ANSI A250.4
PERFORMANCE TEST--16 GAUGE STEEL: LEVEL A (1,000,000 CYCLES)
FIRE RATED UP TO 90 MINUTES.**



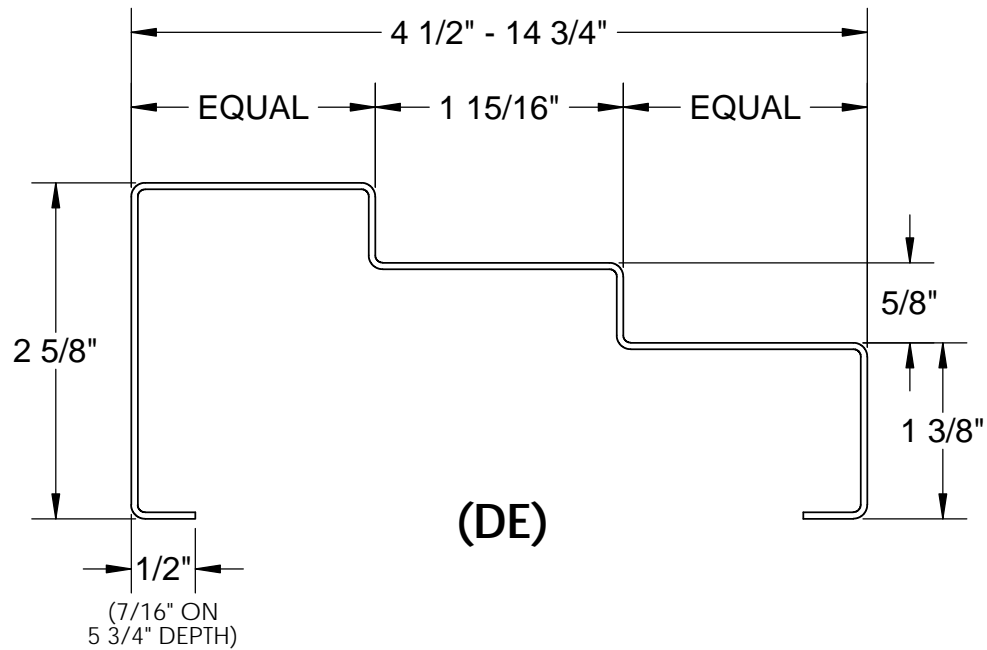
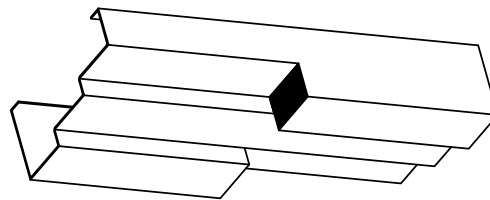
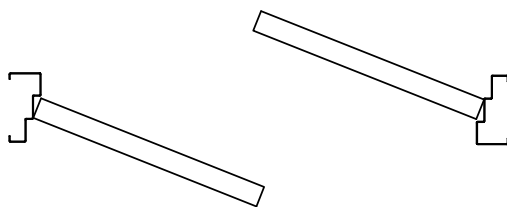
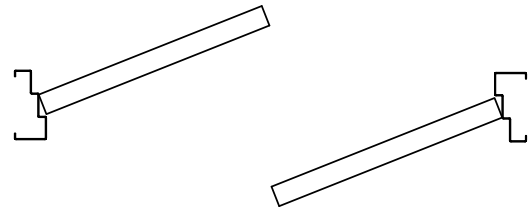
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F SERIES
THERMAL BREAK

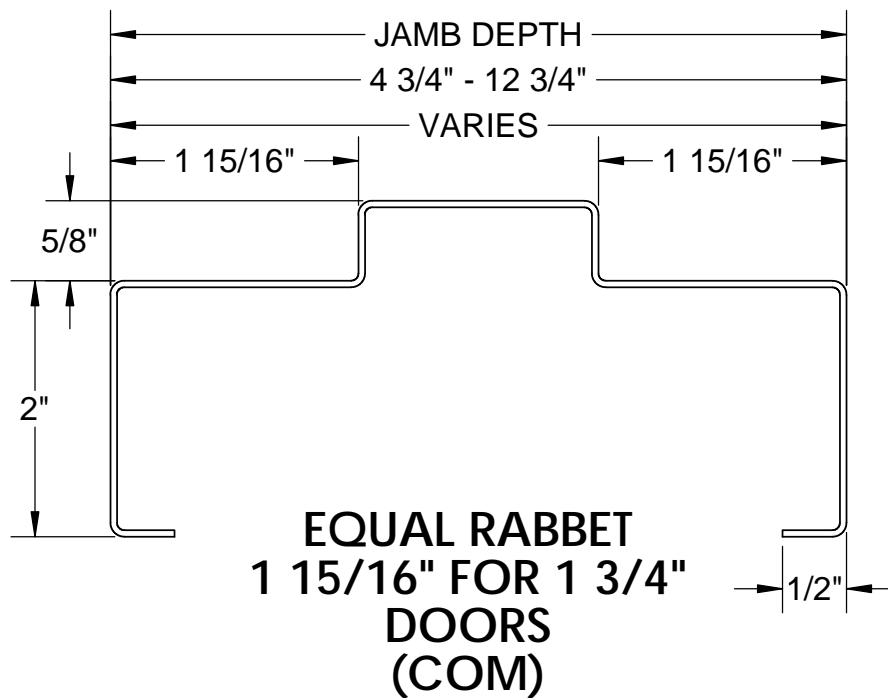
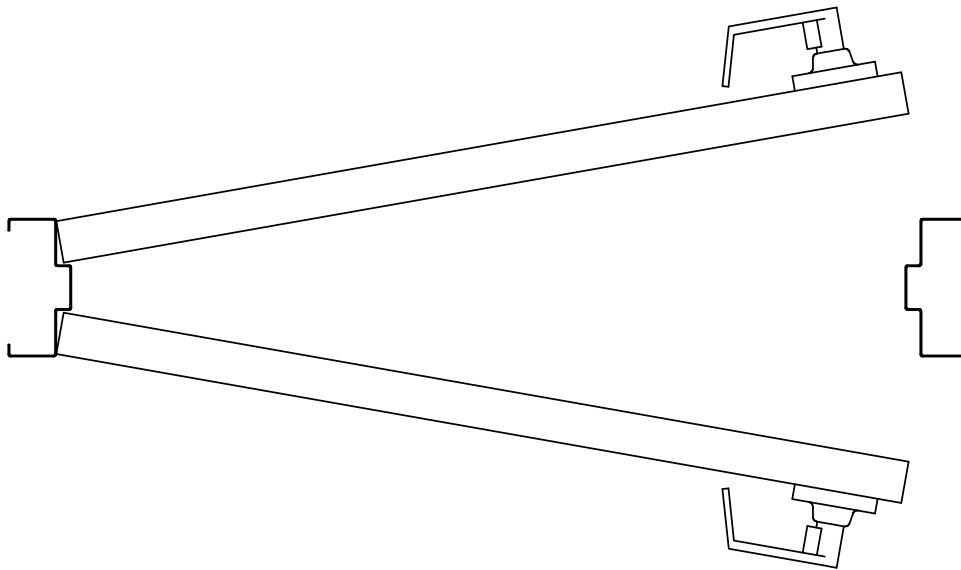
RESERVED



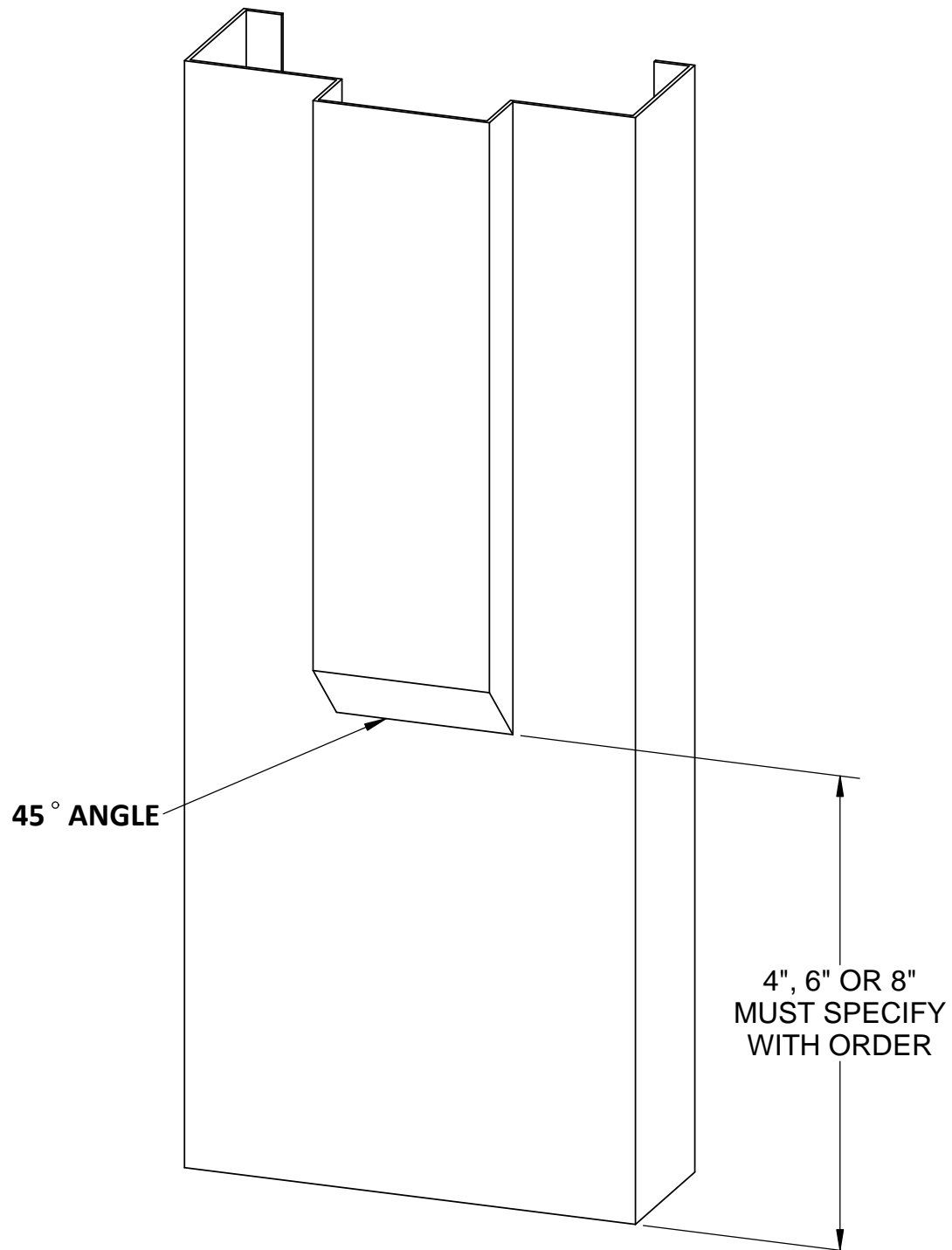
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**F SERIES
PROFILES - DOUBLE EGRESS****(DE)****HEADER
JUNCTION****LHR (RH) SWING****RHR (LH) SWING****MESKER™**
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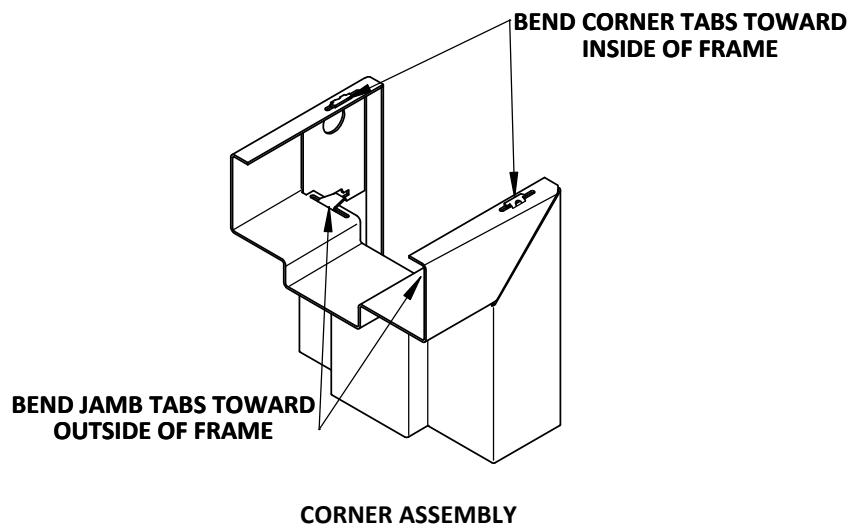
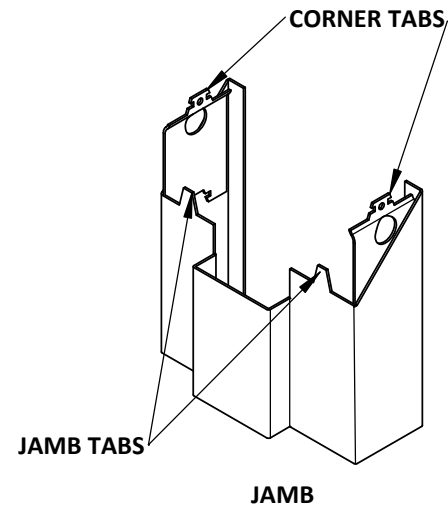
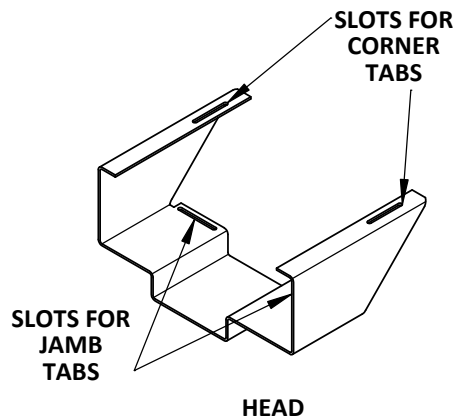
**F SERIES
PROFILES - COMMUNICATING FRAME**



**F SERIES
DETAILS - HOSPITAL STOP**



F SERIES CORNER ASSEMBLY - DOUBLE RABBET - KD



ASSEMBLY OF K.D. CORNER

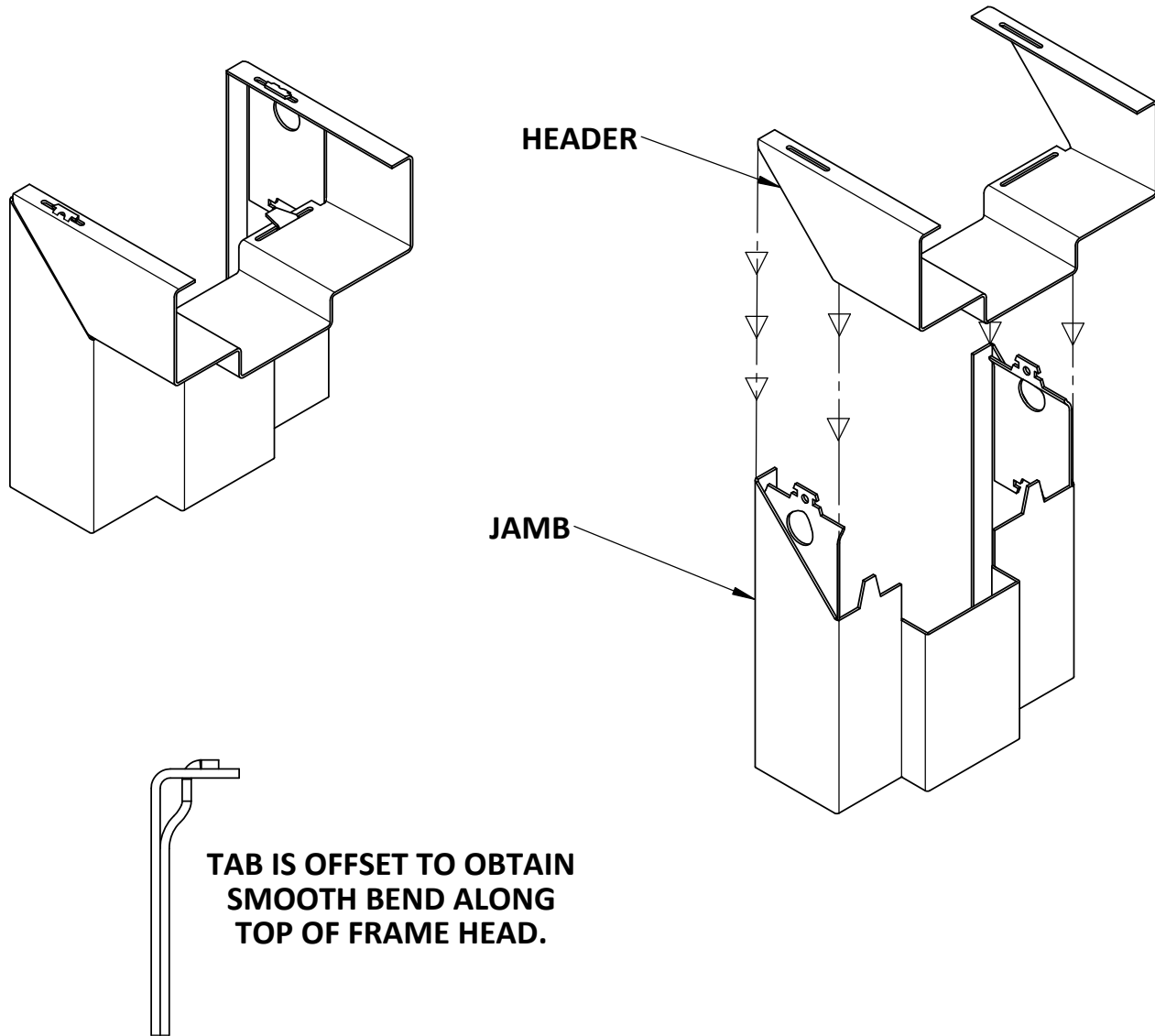
SLIDE JAMB TABS INTO HEADER AND PUSH HEADER AND JAMB MITERS TOGETHER. ALWAYS BEND INNER TABS OUT WITH HAMMER. BENDING TABS IN WILL INCREASE THE DOOR OPENING DIMENSION.

3 ANCHORS ON EACH JAMB UP TO 7'0" AND 1 ADDITIONAL ANCHOR FOR EVERY 26" OR FRACTION THEREOF ABOVE 7'0".



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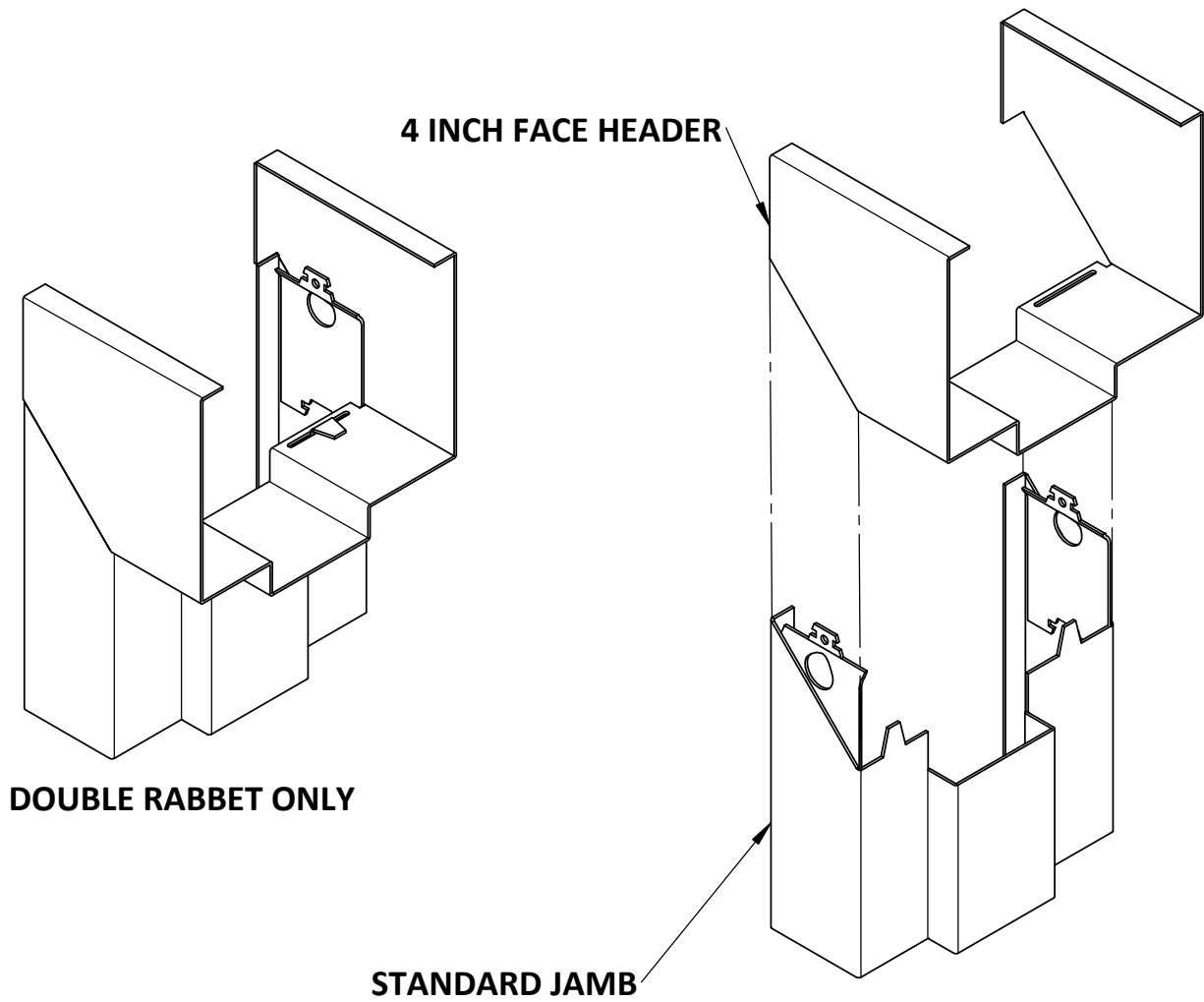
**F SERIES FRAME
CORNER DETAIL - DOUBLE RABBET**



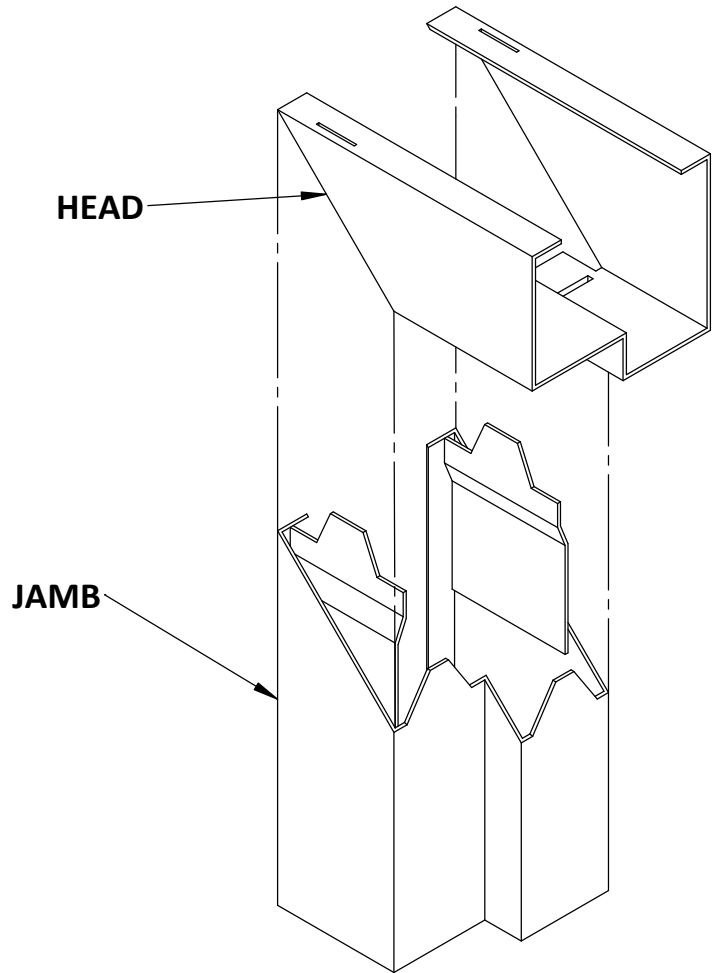
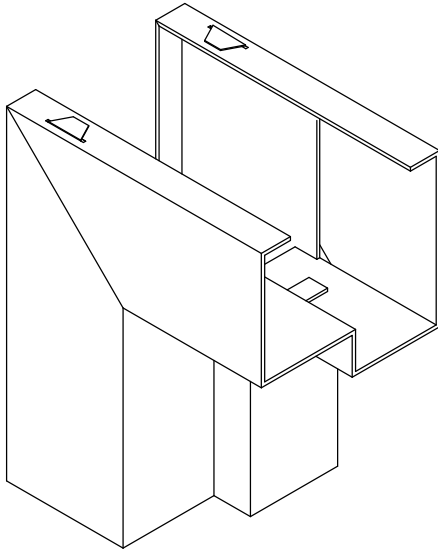
SECTION THRU TAB



**F SERIES
CORNER DETAIL - 4 INCH FACE HEADER - DOUBLE RABBET**



**F SERIES FRAME
CORNER DETAIL - SINGLE RABBET - KD**



**TAB IS OFFSET TO OBTAIN
SMOOTH BEND ALONG
TOP OF FRAME HEAD.**

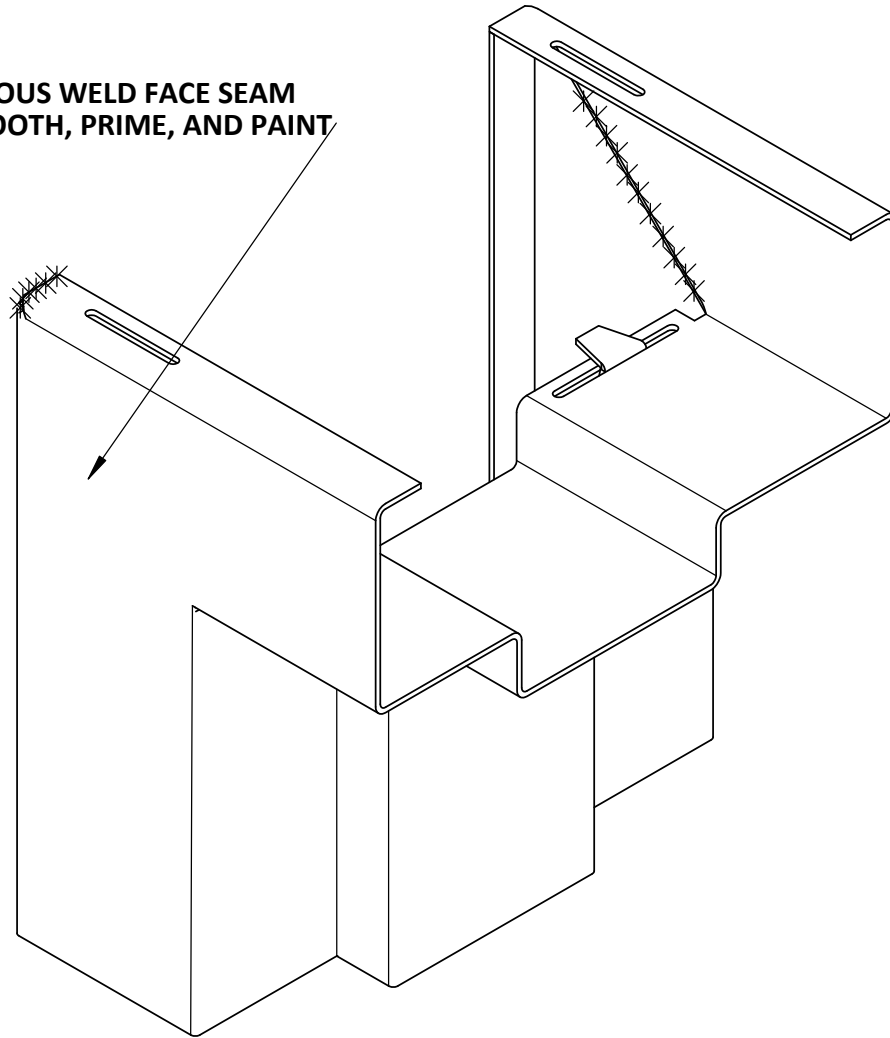
SECTION THRU TAB



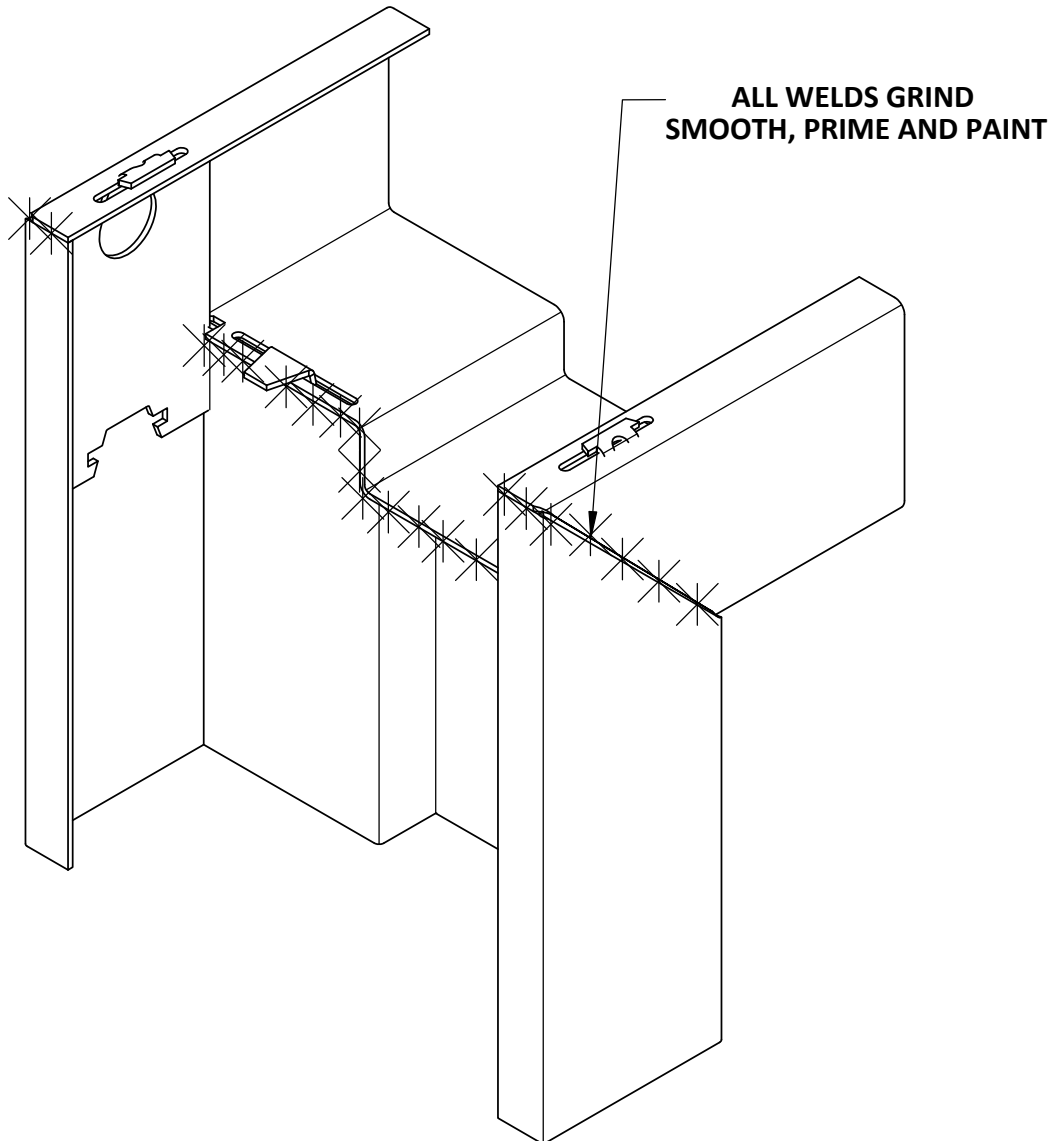
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**F SERIES
CORNER DETAILS - DOUBLE RABBET - FACE WELD**

**CONTINUOUS WELD FACE SEAM
GRIND, SMOOTH, PRIME, AND PAINT**

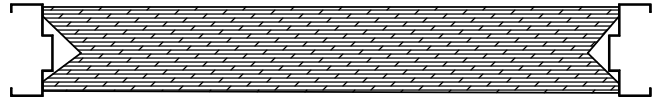


**F SERIES
CORNER DETAILS - DOUBLE RABBET - FULL WELD**

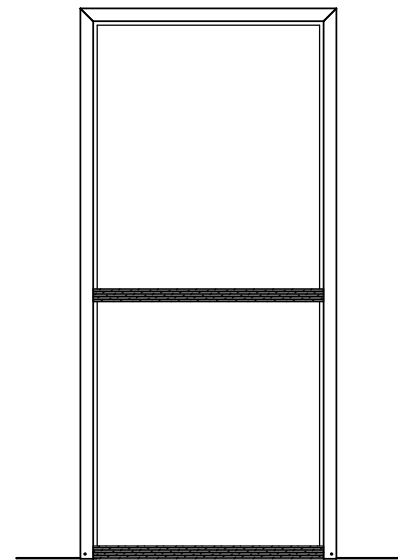


F SERIES**FRAME INSTALLATION - BLOCK WALL (NEW CONSTRUCTION)**

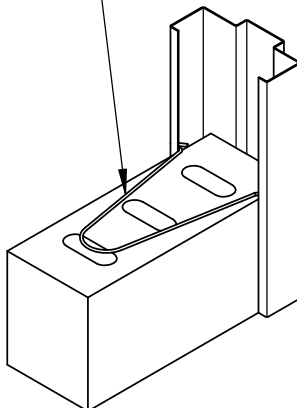
TYPICAL WOOD SPREADER MUST BE SQUARE AND FABRICATED FROM LUMBER NO LESS THAN 1" THICK. CORRECT LENGTH IS THE DOOR OPENING WIDTH BETWEEN JAMBS AND HEADER. CUT CLEARANCE NOTCHES FOR THE FRAME STOPS. AT FRAME STOPS SPREADER MUST BE NEARLY AS WIDE AS FRAME DEPTH FOR PROPER INSTALLATION.
 I.E. SINGLE DOOR 3'0" = 36"
 DOUBLE DOOR 6'0" = 72"



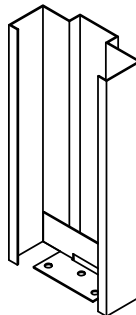
- (1) ASSEMBLE AND WELD FRAME.
- (2) SET AND PLUMB FRAME.
- (3) FASTEN FLOOR ANCHORS WITH APPROPRIATE FASTENERS.
- (4) AN ANCHOR SHALL BE USED FOR EACH 26" OF JAMB HEIGHT OR FRACTION THEREOF. EACH ANCHOR SHALL BE INSTALLED AS WALL IS LAID UP. GROUT FRAME IN THE AREA OF ANCHOR.
- (5) A SECOND SPREADER IS RECOMMENDED AT THE MID-POINT OF THE DOOR OPENING TO MAINTAIN THE DOOR OPENING DIMENSION.
- (6) CONTINUALLY CHECK PLUMB AND SQUARE AS THE WALL PROGRESSES.



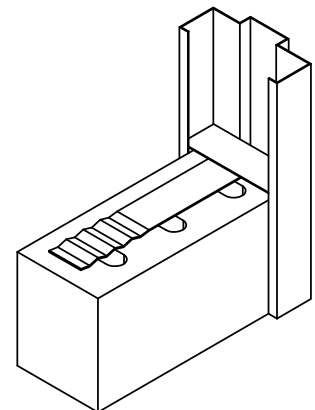
OVER SPREAD ANCHOR BEFORE INSTALLATION TO ENSURE PROPER FIT.



WIRE MASONRY ANCHOR



MASONRY FLOOR ANCHOR



MASONRY T ANCHOR



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F SERIES**FRAME INSTALLATION - STEEL STUD WALL (NEW CONSTRUCTION)****STEEL STUD WALL CONSTRUCTION****ROUGH STUD OPENING**

WIDTH: NOMINAL FRAME WIDTH
 +4 3/8" MIN, TO 4 3/4" MAX.
 (I.E. 3'0" = 40 3/8" MIN TO 40 3/4" MAX.)

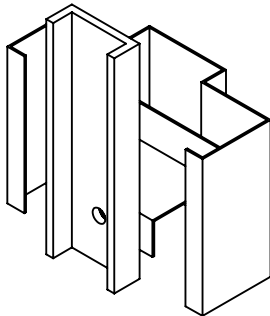
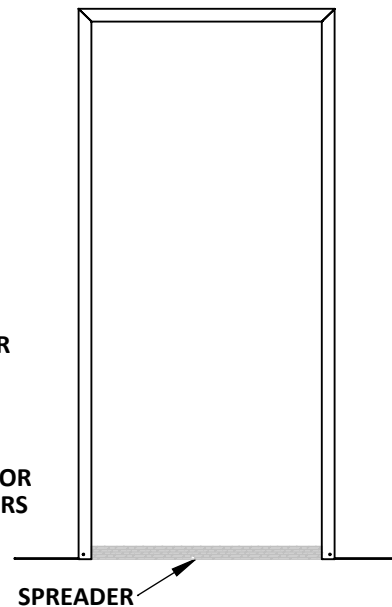
HEIGHT: NOMINAL FRAME HEIGHT
 +2 1/8" MIN.
 (I.E. 6'8" = 82 1/8" MIN.)

(1) INSTALL MINIMUM OF THREE ANCHORS PER JAMB (BOTH HINGE AND STRIKE). POSITION ANCHORS IN FRAME THROUGH THE THROAT AND TAP ON WITH A HAMMER OR USE WELDED IN Z ANCHOR. FOUR ANCHORS PER JAMB LEG OVER 7'0" HEIGHT.

(2) SQUARE, BRACE, AND PLUMB FRAME AS SHOWN.

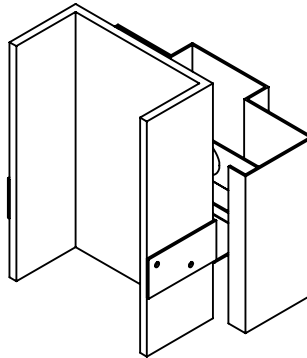
(3) SET SPREADER. ATTACH JAMBS TO FLOOR THROUGH FLOOR ANCHOR OR FLOOR EXTENSION. INSTALL JAMB STUDS TO FLOOR AND CEILING RUNNERS AND TIGHTLY AGAINST FRAME ANCHORS.

(4) ATTACH STUDS TO FRAME ANCHORS AS SHOWN.

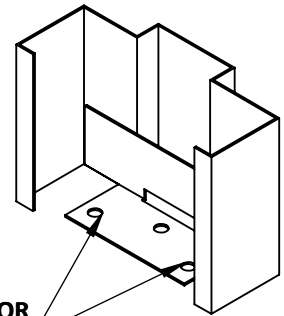


**STEEL STUD ANCHOR
Z ANCHOR**

**CENTER STUDS IN FRAME THROAT
OR AS DESIRED AND ATTACH
TO ANCHORS WITH SCREWS.**



**STEEL STUD ANCHOR
UNA ANCHOR**



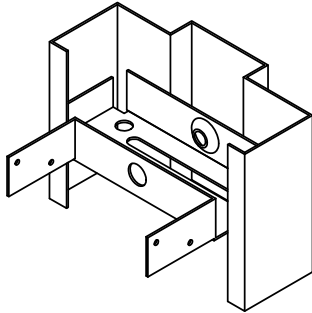
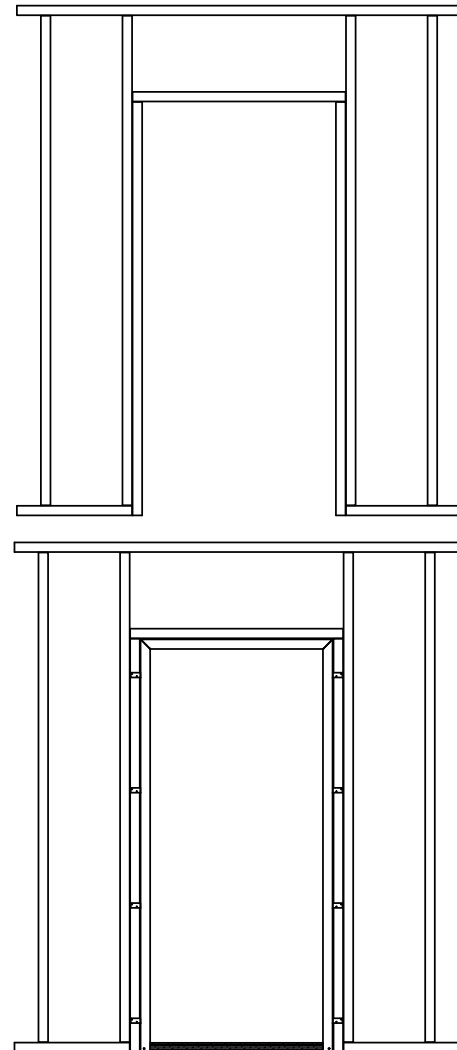
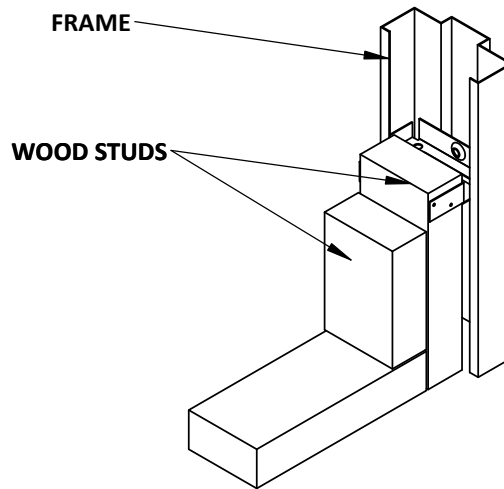
**USE THESE
HOLES FOR FLOOR
ATTACHMENT**

SILL ANCHOR

WHEN ATTACHING HEADER STUDS TO JAMB STUDS, BE SURE THE STUD IS ABOVE FRAME HEADER. THIS WILL ASSURE AMPLE ROOM FOR ATTACHING PLASTER LATH OR DRYWALL AND WILL NOT INTERFERE WITH INSTALLATION OF HARDWARE ATTACHED TO FRAME HEADER.



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F SERIES**FRAME INSTALLATION - WOOD STUD WALL (NEW CONSTRUCTION)****WOOD STUD CONSTRUCTION****ROUGH STUD OPENING****WIDTH: NOMINAL FRAME WIDTH****+4 3/8" MIN, TO 4 3/4" MAX.****(I.E. 3'0" = 40 3/8" MIN TO 40 3/4" MAX.)****HEIGHT: NOMINAL FRAME HEIGHT****+2 1/8" MIN.****(I.E. 6'8" = 82 1/8" MIN.)****WOOD STUD ANCHOR****ELEVATION**

(1) INSERT THREE ANCHORS PER JAMB UP TO AND INCLUDING 7' 2" HEIGHT (FOUR OVER 7' 2" HIGH). POSITION ANCHORS IN FRAME THROAT AND TAP IN WITH A HAMMER. BASE ANCHORS MAY ALSO BE USED.

(2) PLACE FRAME IN STUD OPENING.

(3) BEND ANCHOR TABS AROUND STUD LEAVING DESIRED CLEARANCE BETWEEN FRAME RETURN AND STUD FOR INSERTING FINISHED WALL MATERIAL.

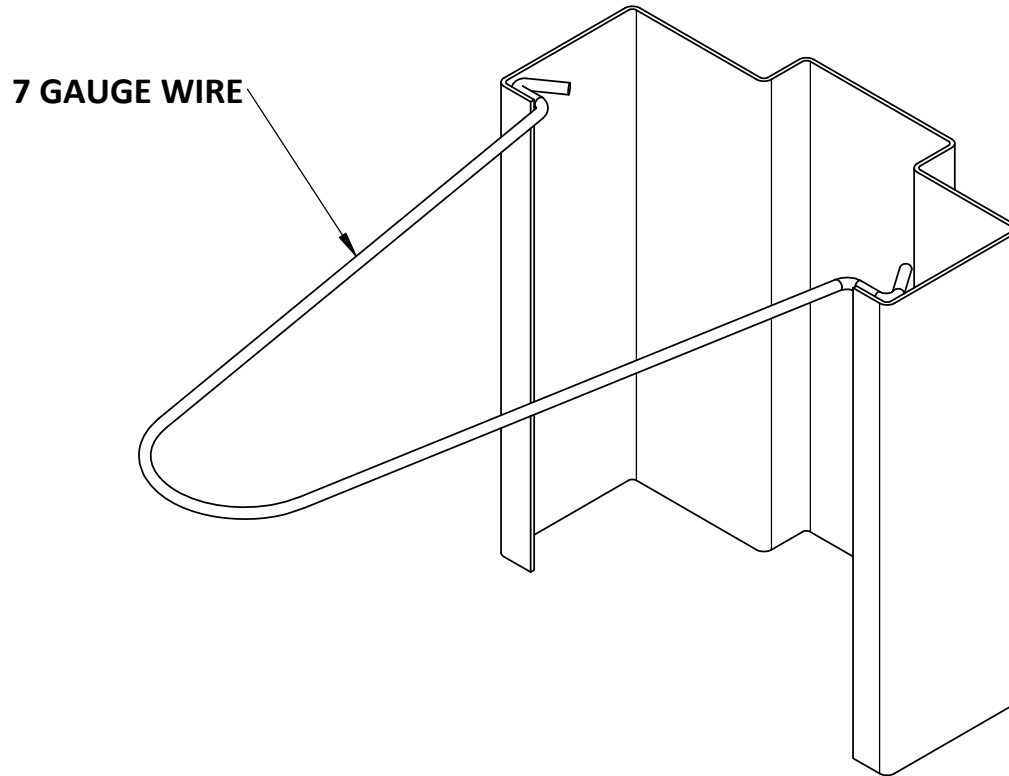
(4) SET SPREADER AND LEVEL FRAME. SHIM JAMBS IF NECESSARY.

(5) SQUARE AND NAIL OR SCREW TOP ANCHORS TO STUDS ON ONE JAMB ONLY. CHECK PLUMB AND SQUARE AND CONTINUE TO NAIL OR SCREW BALANCE OF ANCHORS TO STUDS. REPEAT FOR OPPOSITE JAMB.

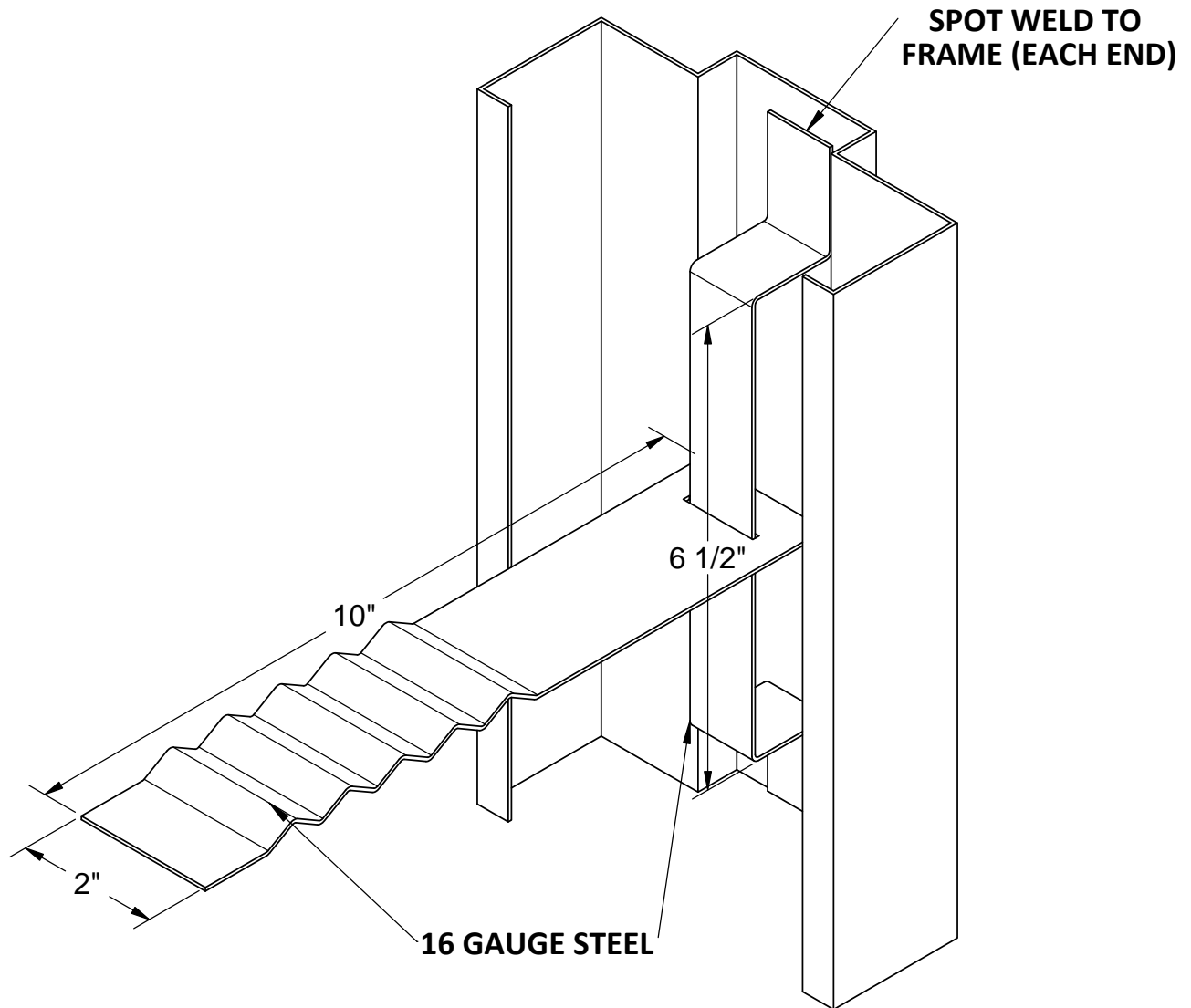


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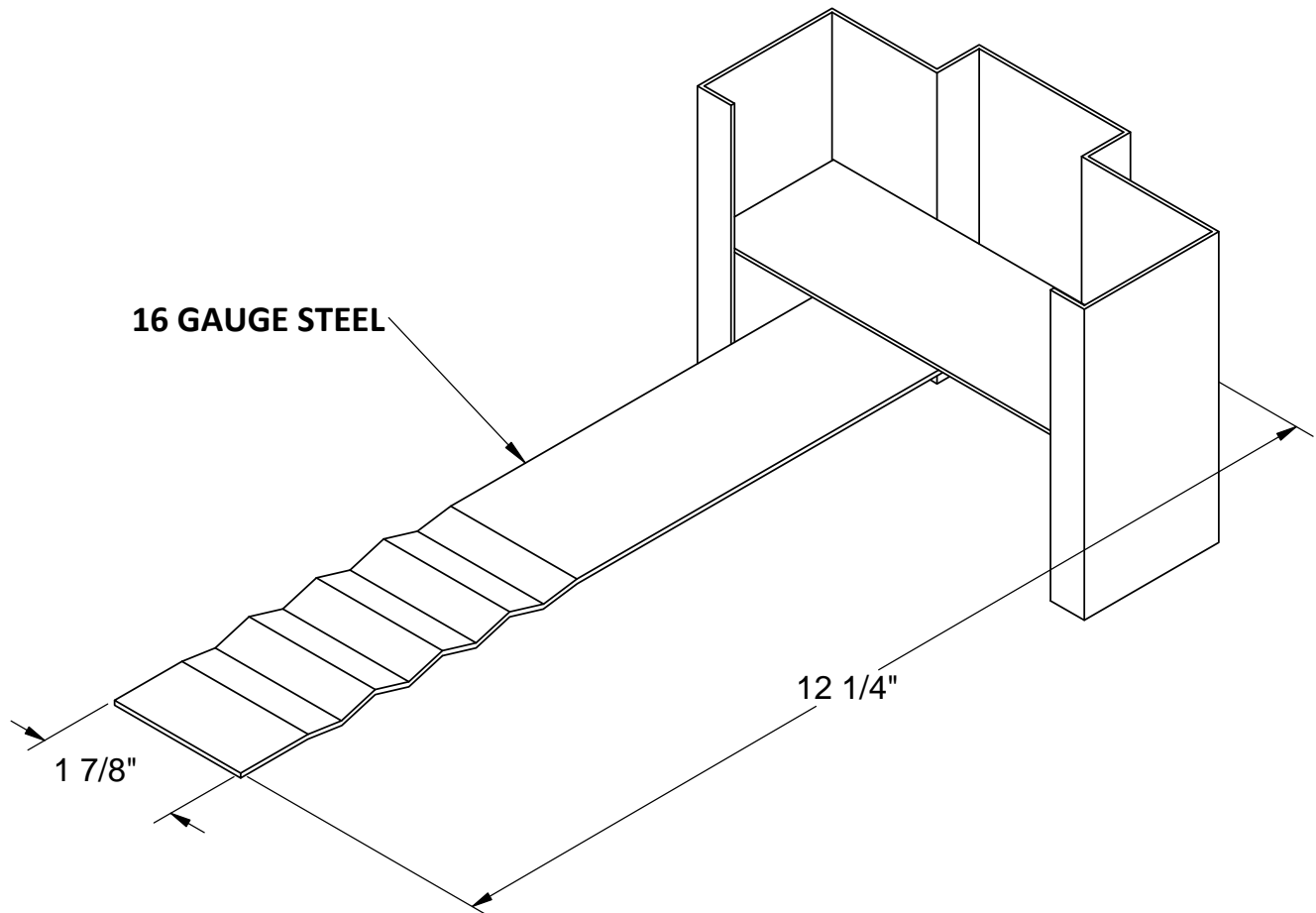
**F SERIES
FRAME ANCHOR - WIRE MASONRY ANCHOR**



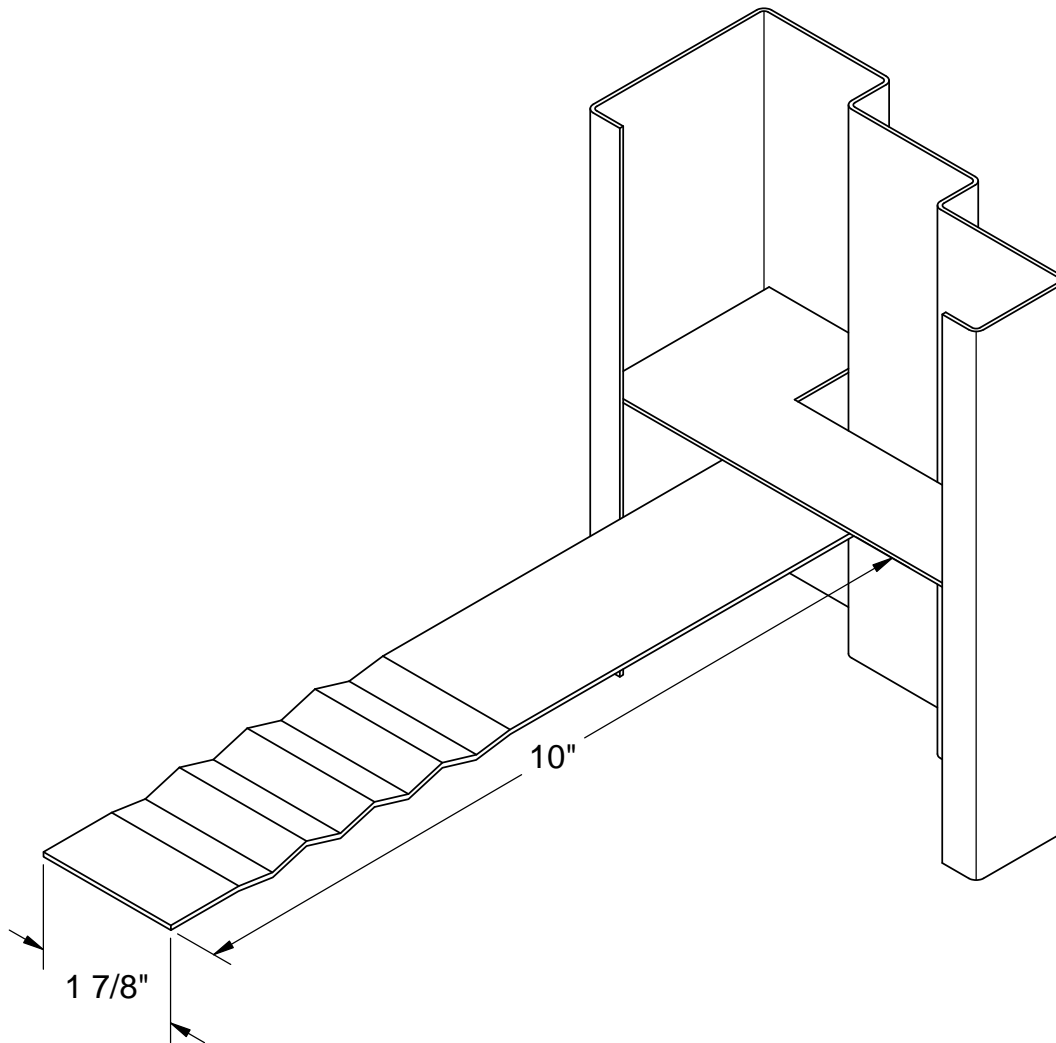
**F SERIES
FRAME ANCHOR - MASONRY WELDED IN STRAP ANCHOR**



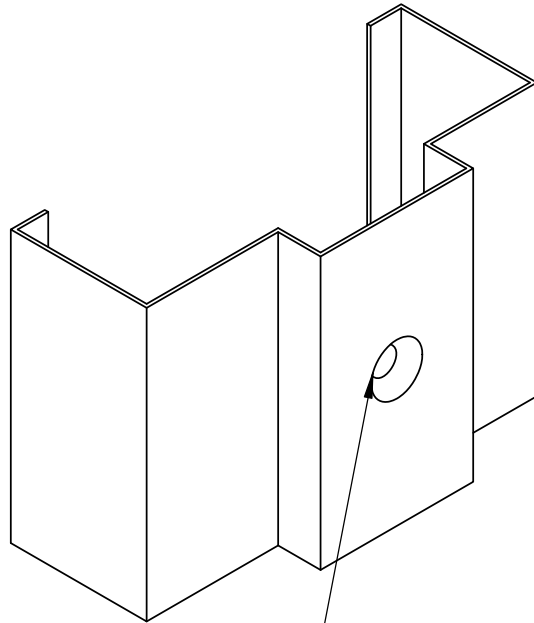
**F SERIES
FRAME ANCHOR - MASONRY T ANCHOR**



**F SERIES
FRAME ANCHOR - DOUBLE EGRESS MASONRY T ANCHOR**

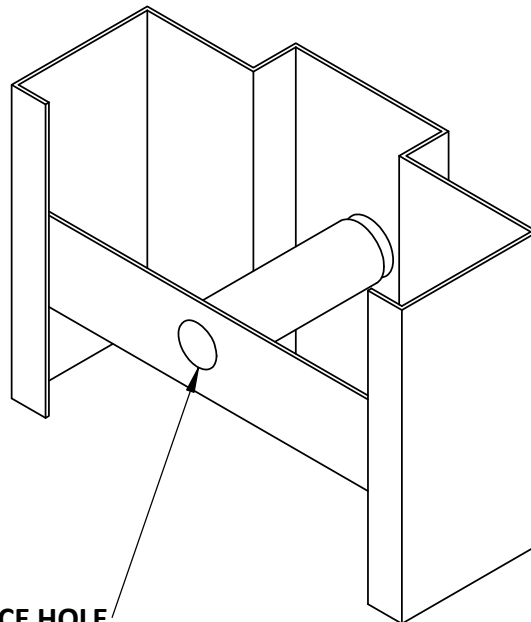


**F SERIES
FRAME ANCHOR - PUNCH & DIMPLE WITH TUBE**



COUNTERSINK

**PREPARED FOR 3/8" DIAMETER EXPANSION
ANCHOR OR #24 WOOD SCREW**



9/16" CLEARANCE HOLE

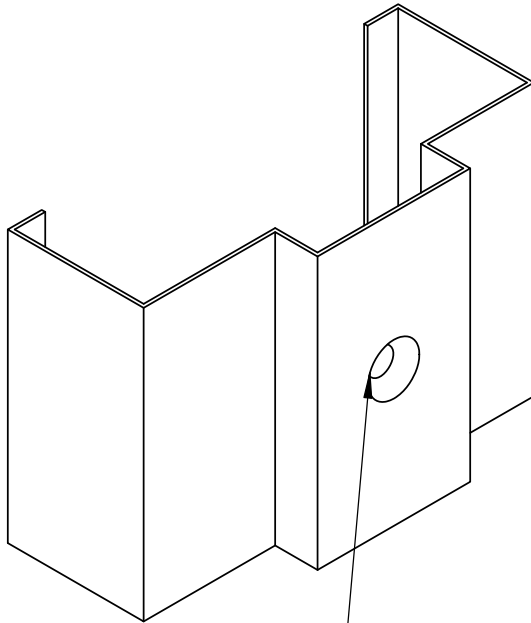


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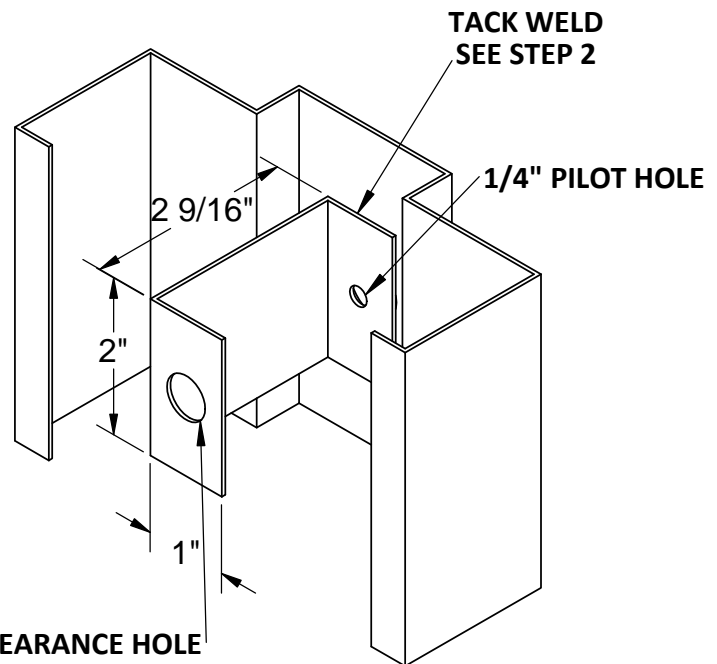
**F SERIES
FRAME ANCHOR - AEW (ANCHOR EXISTING WALL)**

INSTALLATION PROCEDURE

1. DRILL 1/4" DIAMETER HOLE IN SOFFIT AS AN AID TO LOCATE ANCHOR.
2. ALIGN 1/4" HOLE IN ANCHOR WITH THE HOLE DRILLED IN STEP 1 AND WELD THE ANCHOR TO THE FRAME.
3. DRILL 7/16" HOLE THROUGH FRAME AND ANCHOR.
4. COUNTERSINK FOR 3/8" DIAMETER FLAT HEAD MACHINE BOLT OR #24 WOOD SCREW.



SEE STEP 4 FOR
COUNTERSINK DETAIL

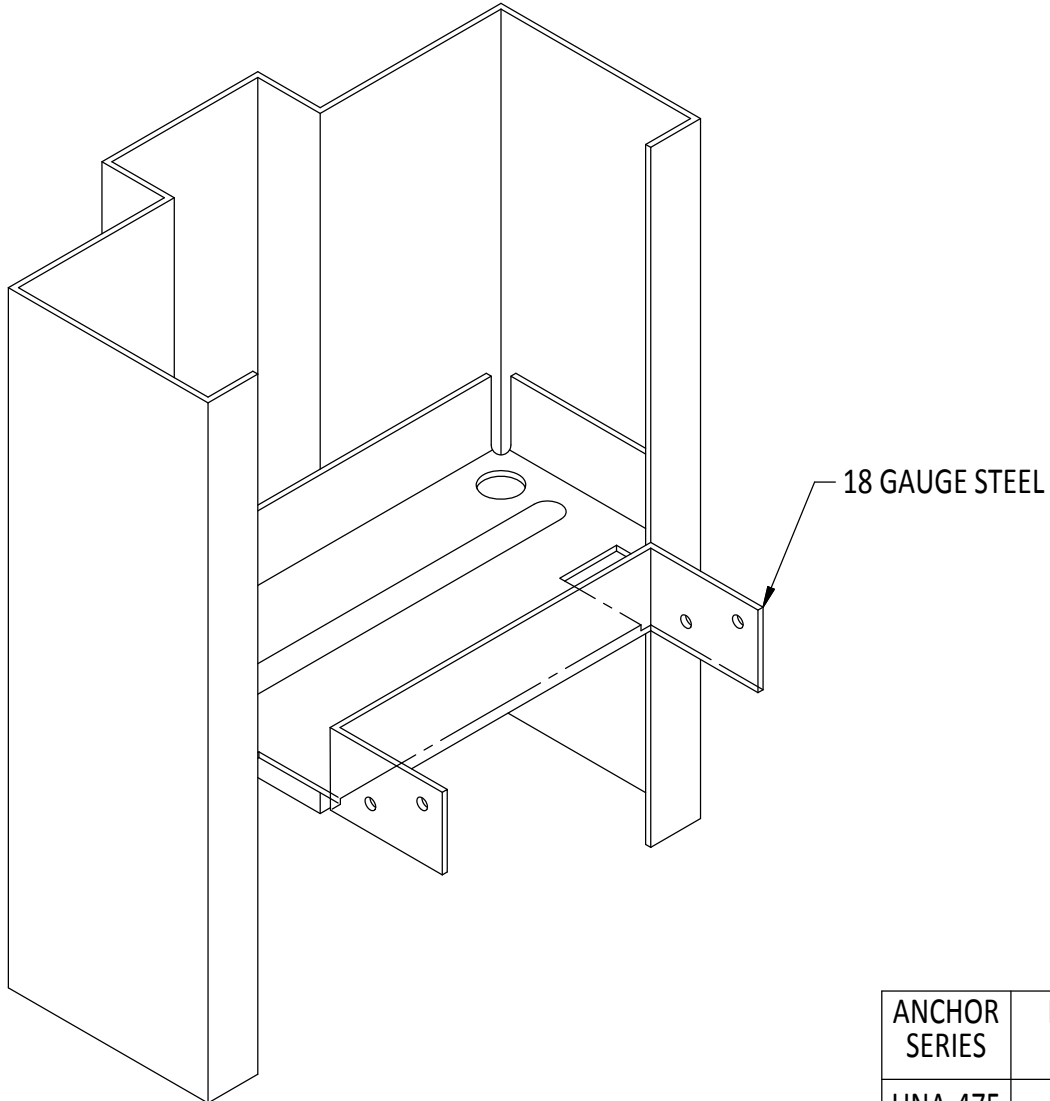


9/16" CLEARANCE HOLE



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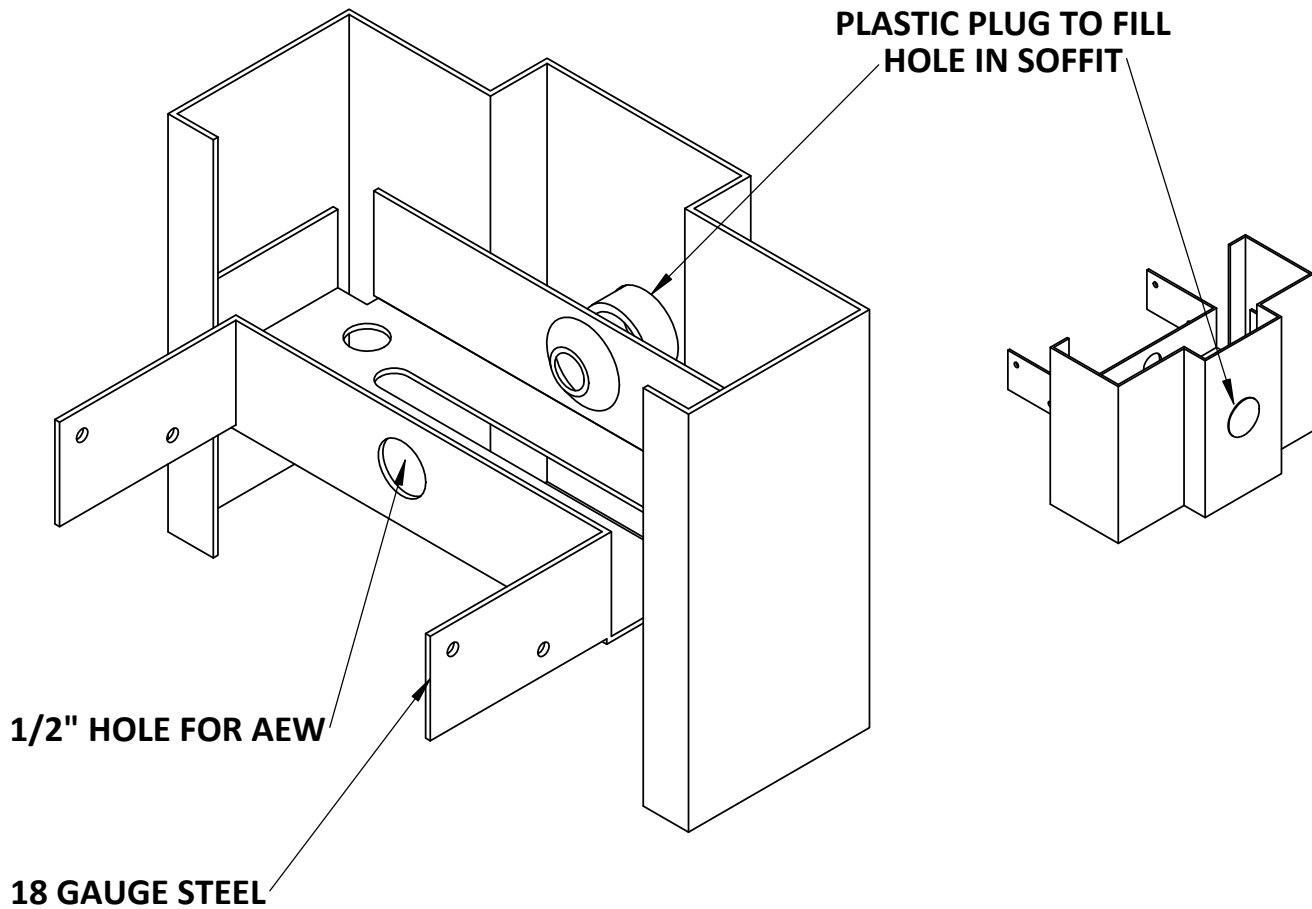
**F SERIES
FRAME ANCHOR - UNIVERSAL ANCHOR (UNA)**



ANCHOR SERIES	FRAME DEPTH
UNA-475	4 3/4"
UNA-575	SEE F-26
UNA-675	6 3/4"
UNA-775	7 3/4"
UNA-875	8 3/4"



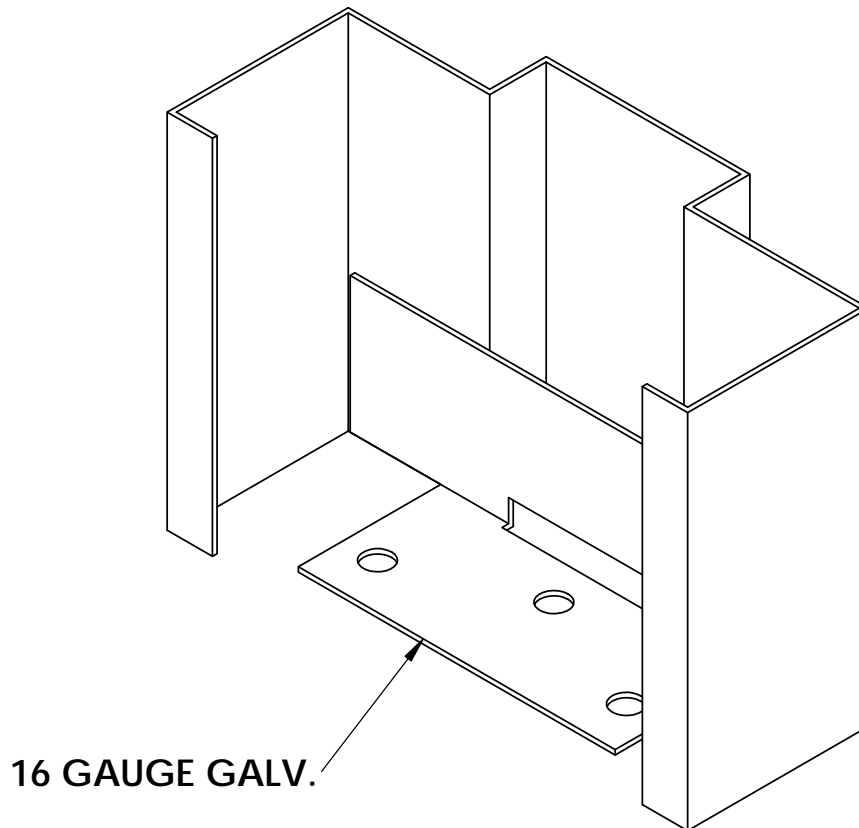
**F SERIES
FRAME ANCHOR - UNIVERSAL ANCHOR (UNA) 5 3/4"**



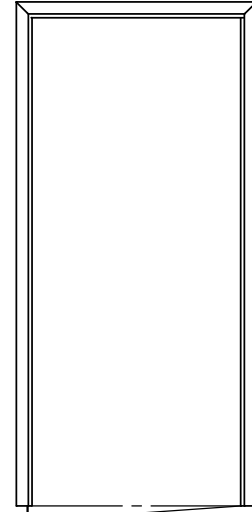
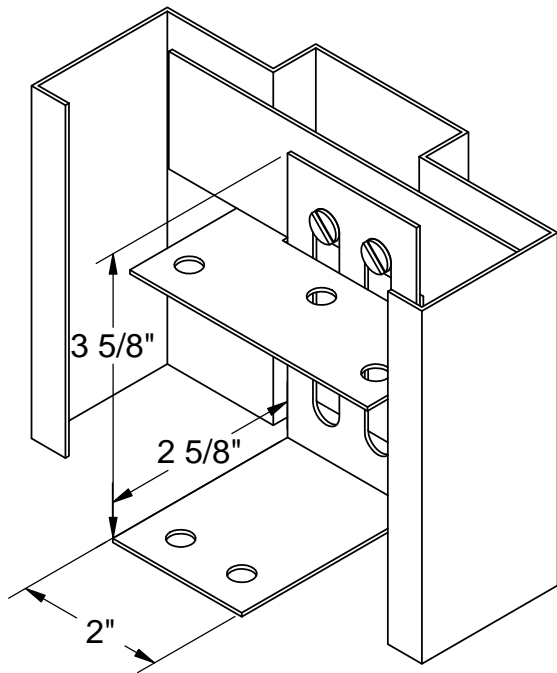
1. DRILL 3/4" HOLE IN SOFFIT.
2. LOCATE ANCHOR AT HOLE.
3. INSERT ANCHOR INTO WALL - 3/8" DIAMETER MACHINE ANCHOR OR #24 WOOD SCREW.
4. INSERT PLUG INTO HOLE IN SOFFIT.



**F SERIES
FRAME ANCHOR - SILL ANCHOR DOUBLE RABBET FRAME**



**F SERIES
FRAME ANCHOR - OPTIONAL ADJUSTABLE SILL ANCHOR**



**ADJUSTABLE SILL ANCHOR
REQUIRED WHERE FLOOR IS UNLEVEL**

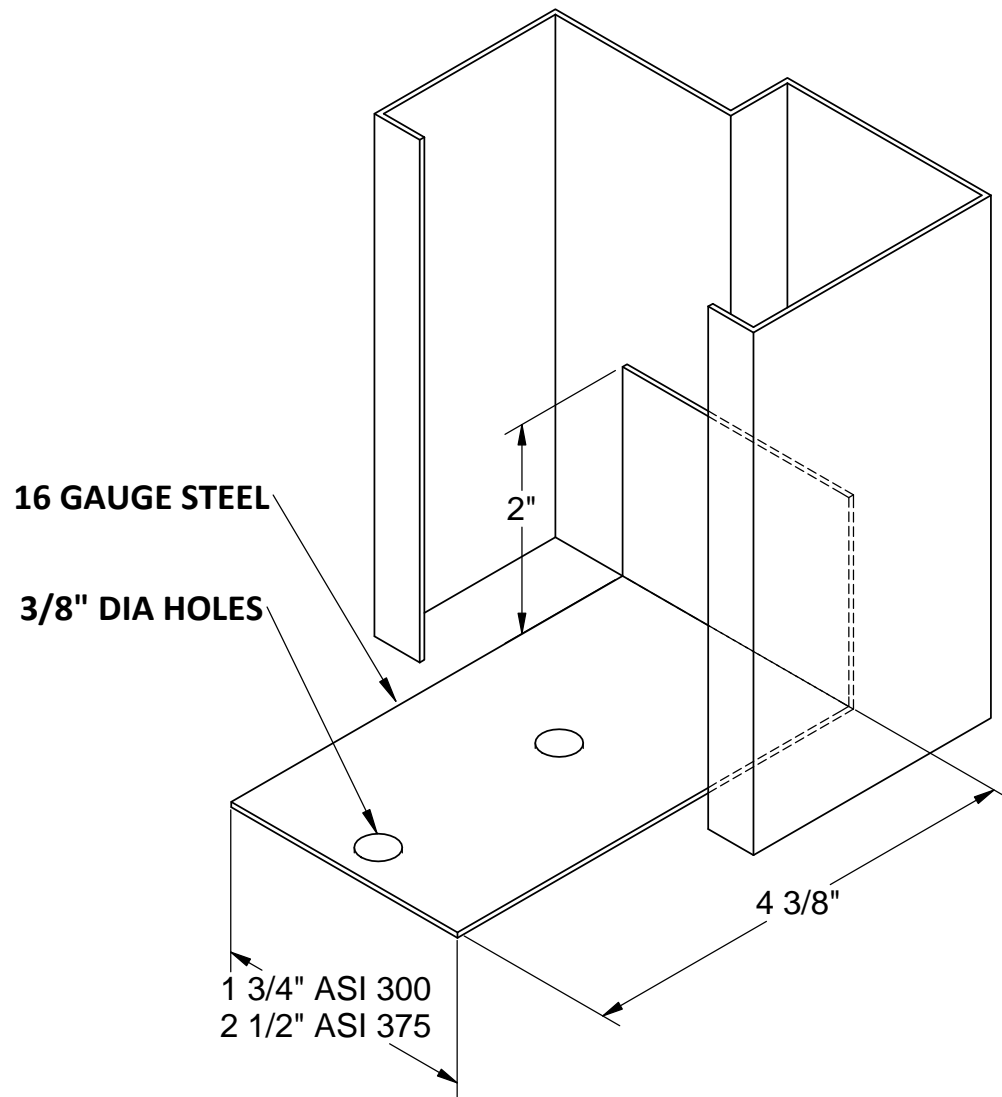
ANCHOR NUMBER	FRAME DEPTH
ASI-475	4 3/4"
ASI-575	5 3/4"
ASI-675	6 3/4"
ASI-875	8 3/4"



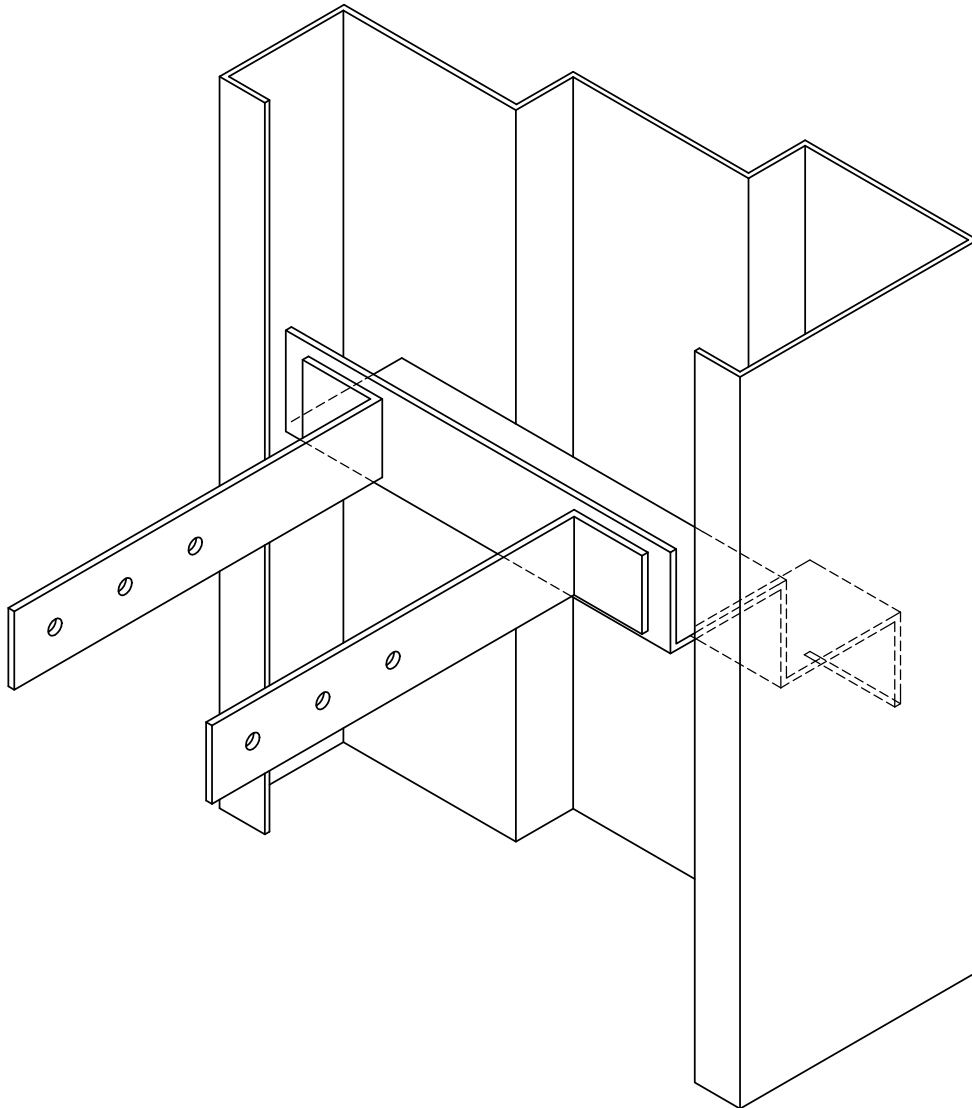
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F SERIES
FRAME ANCHOR - SILL ANCHOR SINGLE RABBET FRAME

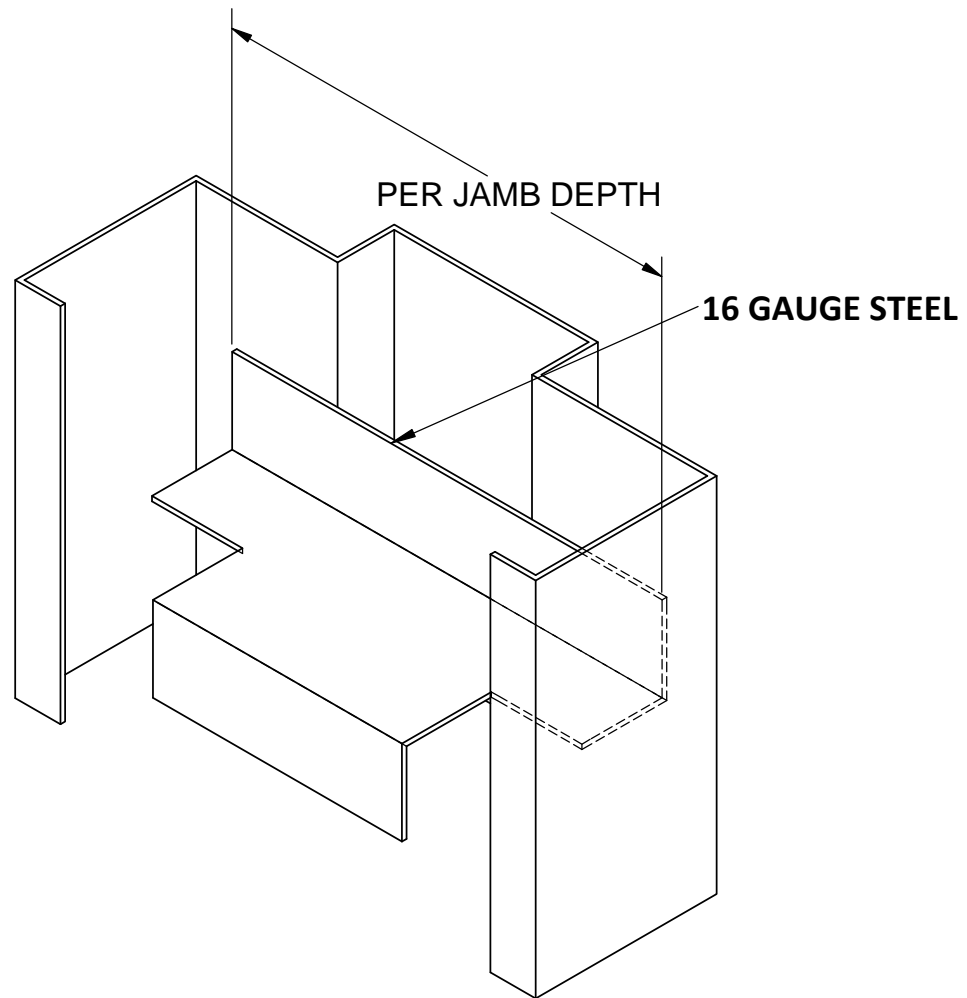
ANCHOR NUMBER	FRAME DEPTH
ASI-300	3"
ASI-375	3 3/4"



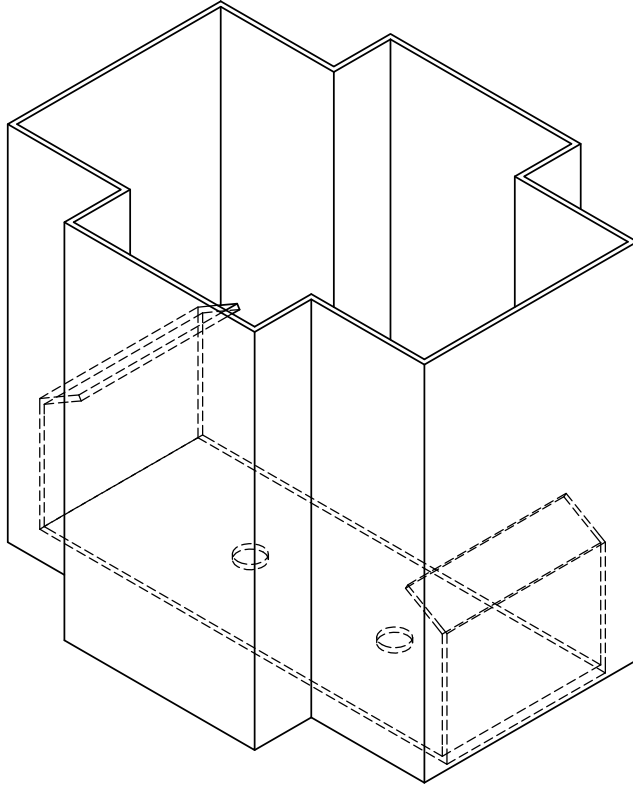
**F SERIES
DOUBLE EGRESS ANCHORS- MULTI PURPOSE**



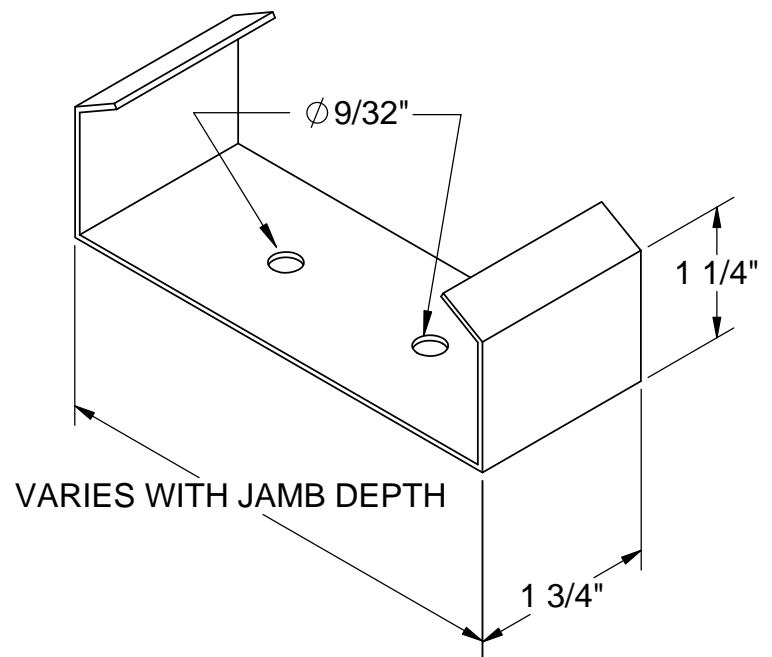
**F SERIES
FRAME ANCHOR - METAL STUD "Z" ANCHOR**



**F SERIES
FRAME ANCHOR - MULLION FLOOR ANCHOR**

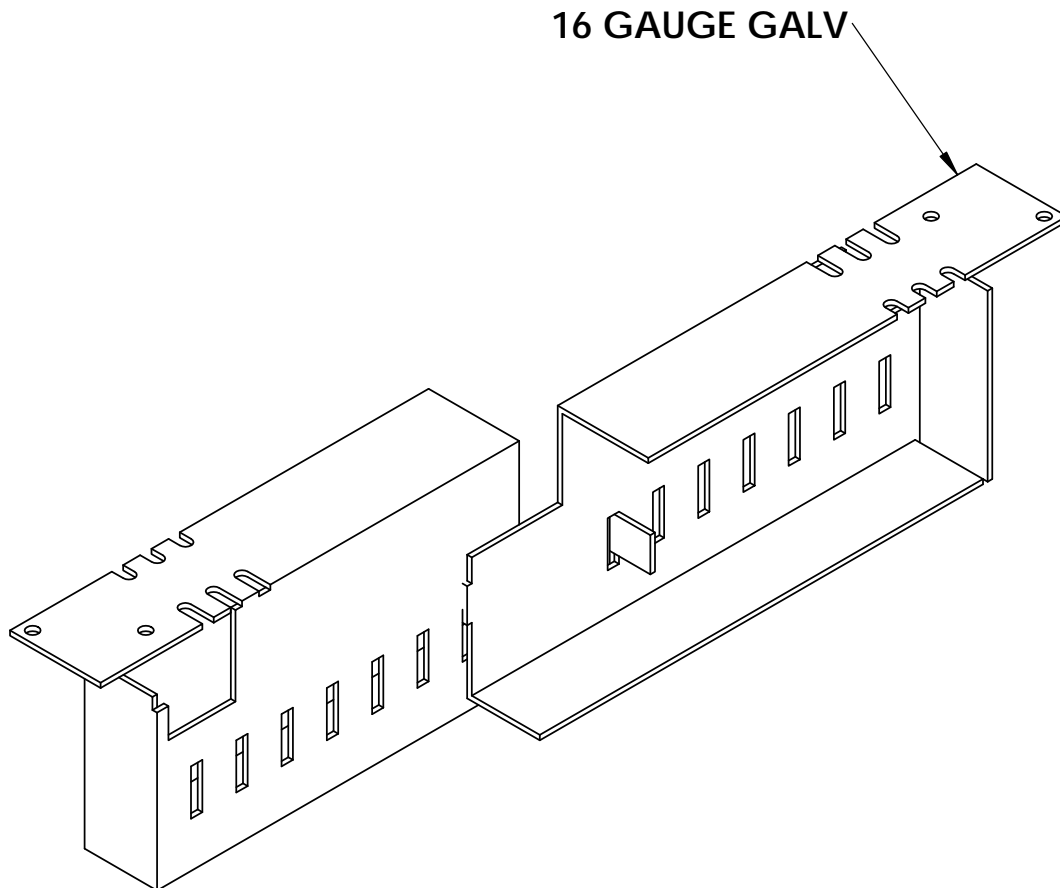


**16 GAUGE GALV.
REINFORCEMENT**



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**F SERIES
FRAME ANCHOR - ADJUSTABLE STUD ANCHOR**



ADJUSTS TO FRAME DEPTH

PART #	SIZES COVERED
PFA 110	4 3/4" - 6 3/4"
PFA 380	5 3/4" - 8 3/4"
PFA 380A	7" - 12"



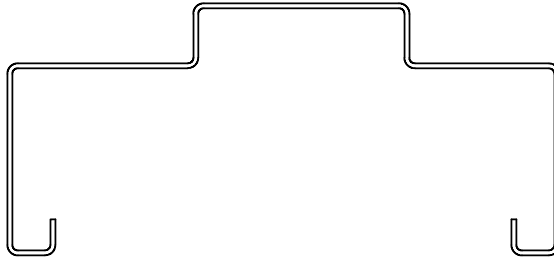
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FDJ Series Frames

FDJ Specifications.....	FDJ-1
FDJ Profiles 1 of 6.....	FDJ- 2
FDJ Profiles 2 of 6.....	FDJ- 3
FDJ Profiles 3 of 6.....	FDJ- 4
FDJ Profiles 4 of 6.....	FDJ- 5
FDJ Profiles 5 of 6.....	FDJ- 6
FDJ Profiles 6 of 6.....	FDJ- 7
Hospital Stop.....	FDJ- 8
Corner Detail.....	FDJ- 9
Frame Installation.....	FDJ- 10
Frame Installation Cased Open.....	FDJ- 11
FDJ Anchors.....	FDJ- 12

FDJ SERIES DRYWALL FRAMES



Frame Construction

Formed from 14 or 16 gauge, cold-rolled, galvanized steel, galvanized G90. Frames manufactured with die-mitered corner, and furnished with corner tabs for reinforcement and proper alignment. Furnished with pressure fitted top anchors ensuring durability with less torsion and sagging.

Installation & Applications

FDJ series frames are supplied standard with adjustable jamb lock anchor for secure installation. Sill anchors as indicated on page FDJ-12. The jamb lock anchor is adjusted with a screwdriver or power drill providing a pressure fit. The optional DFA base anchor system is provided for attachment directly to sill when using wall baseboards. Drywall / FDJ series frames are designed for installation in interior applications after construction of wood or metal stud and drywall applications.

Hardware Reinforcements

Frames to be furnished with 4-1/2" or 5" standard or heavy weight 7 gauge steel hinge reinforcements and shall be adequately reinforced for all hardware. Regular arm or parallel closer reinforcements available upon request. Strike and hinge reinforcements shall be protected by plaster guards.

Finish

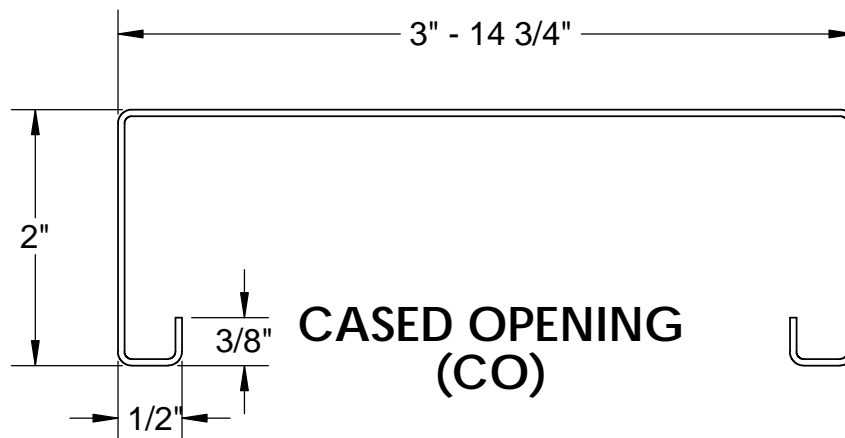
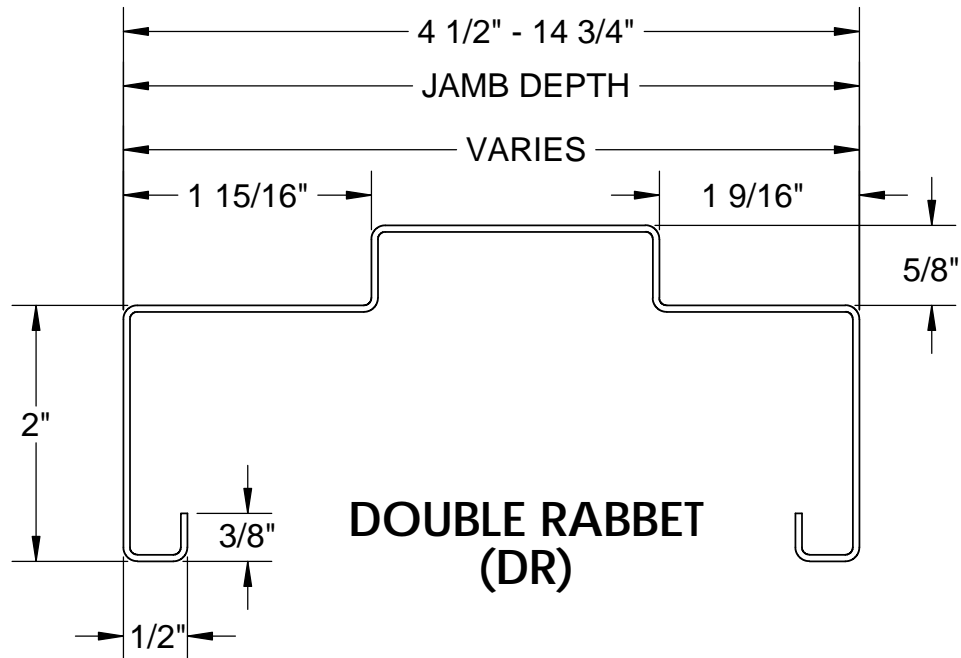
Exposed frame surfaces to be cleaned, treated, and then coated with rust inhibitive primer. Color painted frames to receive a durable, flow coated, baked on finish. Water-based primer and color paint finishes to be free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

Compliance

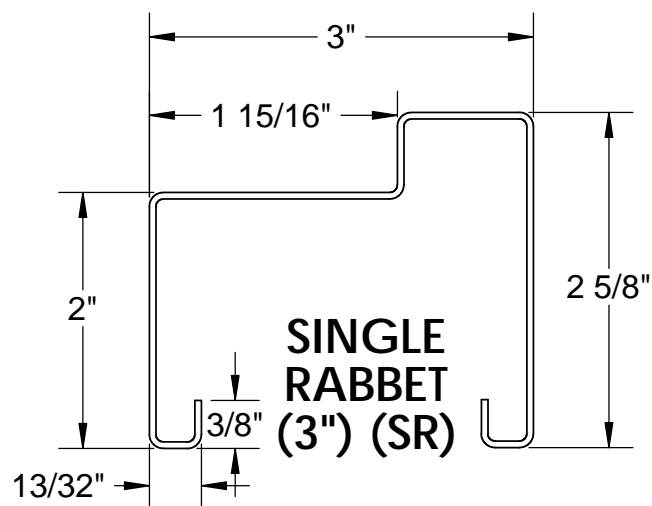
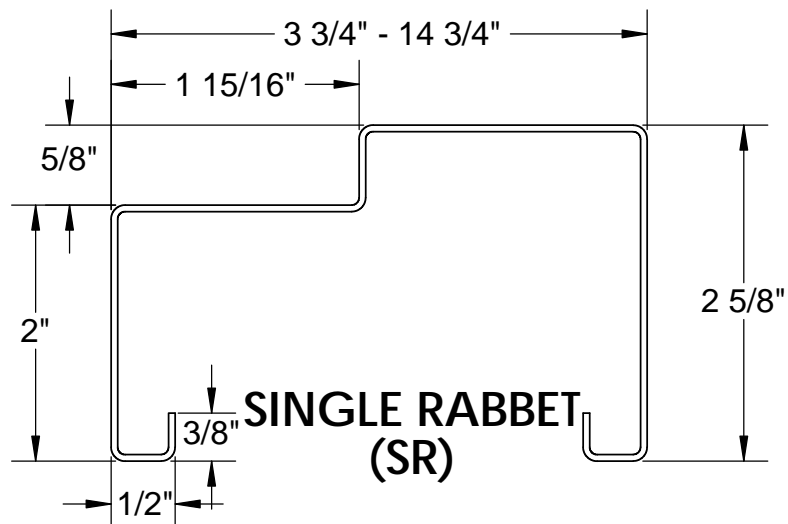
These products are in full compliance with ANSI/SDI A250.8-2003 (R2008). This document is commonly referred to as SDI-100 (Steel Door Institute 100).



FDJ SERIES
PROFILES - DOUBLE RABBET AND CASED OPEN



FDJ SERIES
PROFILES - SINGLE RABBET



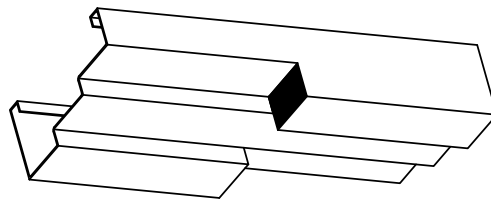
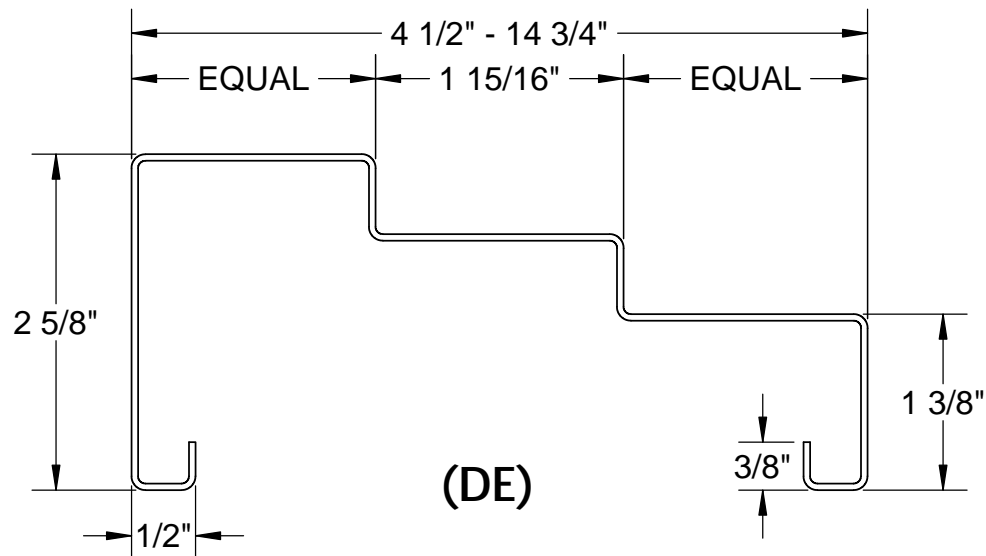
FDJ SERIES
THERMAL BREAK

RESERVED

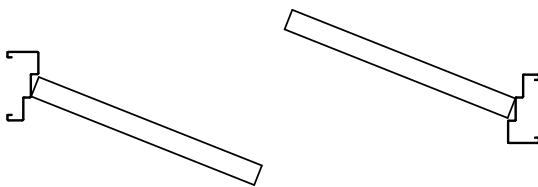


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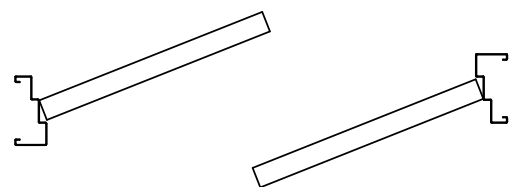
**FDJ SERIES - DRYWALL FRAMES
PROFILES - DOUBLE EGRESS**



**HEADER
JUNCTION**



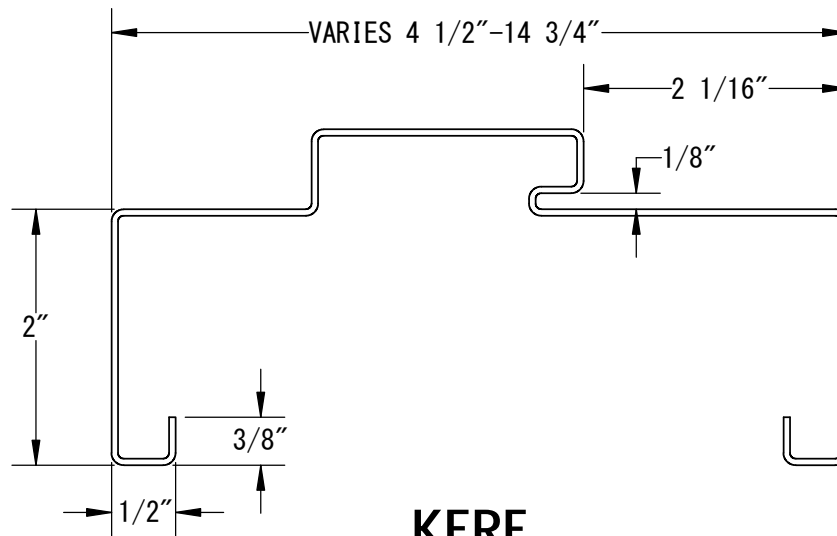
LHR (RH) SWING



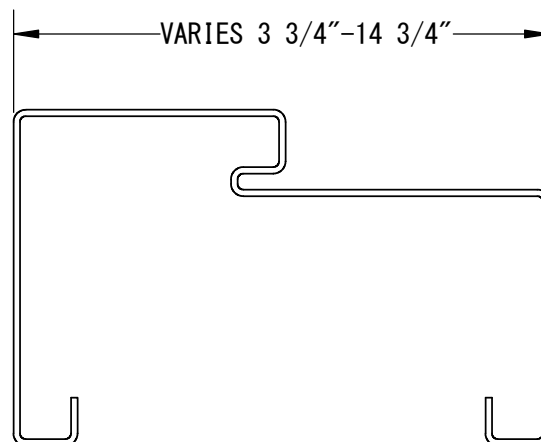
RHR (LH) SWING



**FDJ SERIES
PROFILE - KERFED FOR WEATHERSTRIPPING**



**KERF
(K)**



SINGLE RABBET

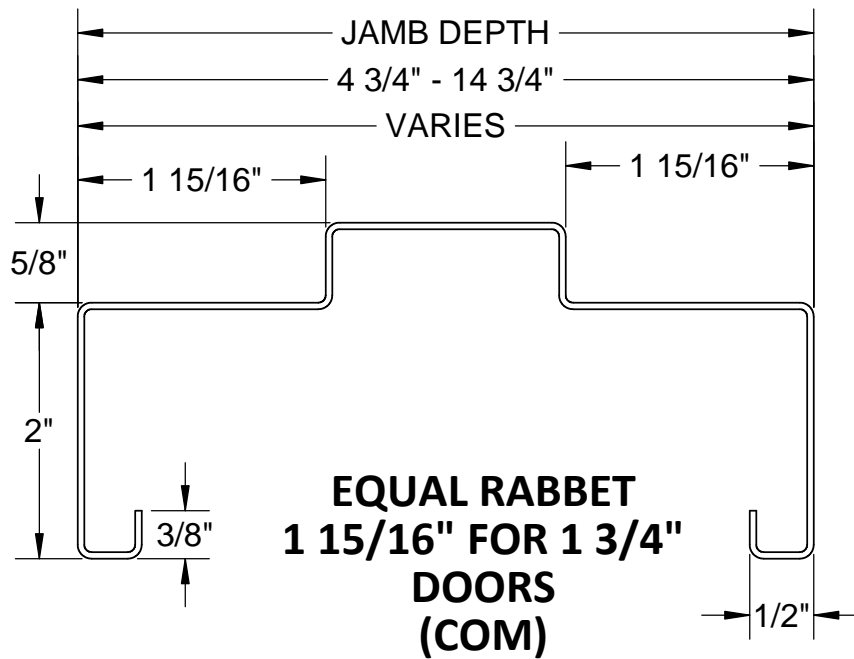
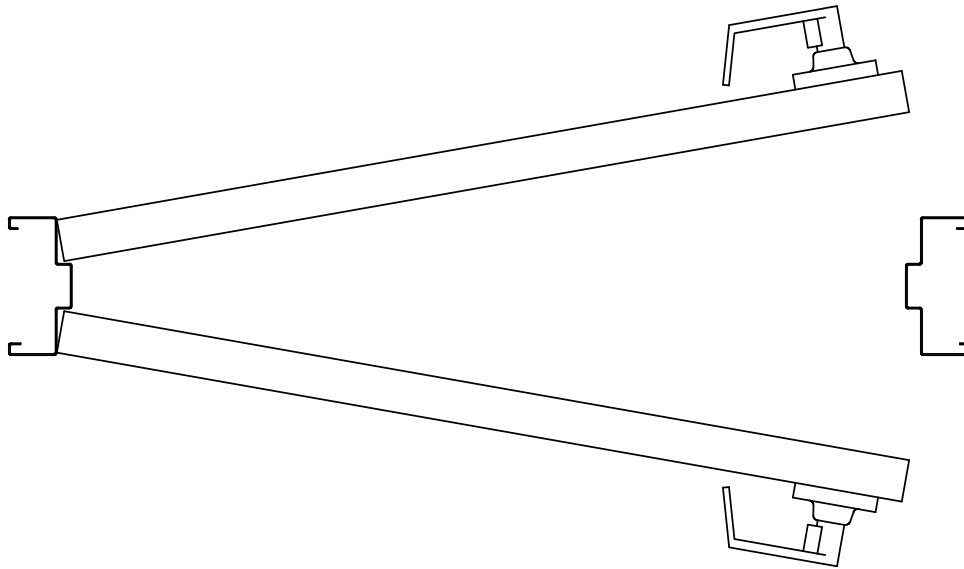
AVAILABLE IN 14 OR 16 GAUGE

**PHYSICAL ENDURANCE LEVEL: MEETS ANSI A250.4
PERFORMANCE TEST--16 GAUGE STEEL: LEVEL A (1,000,000 CYCLES)
FIRE RATED UP TO 90 MINUTES.**

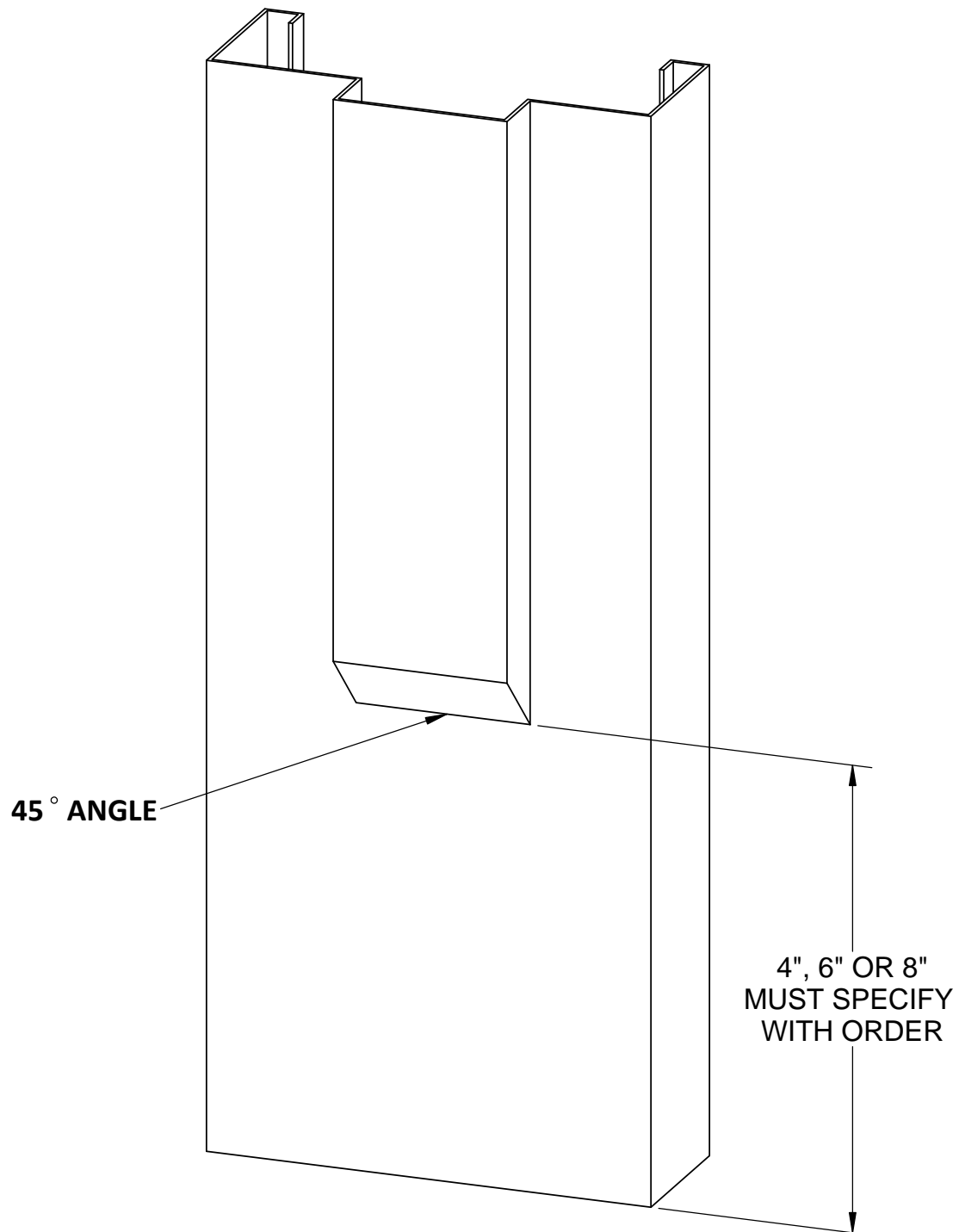


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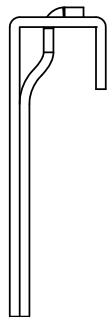
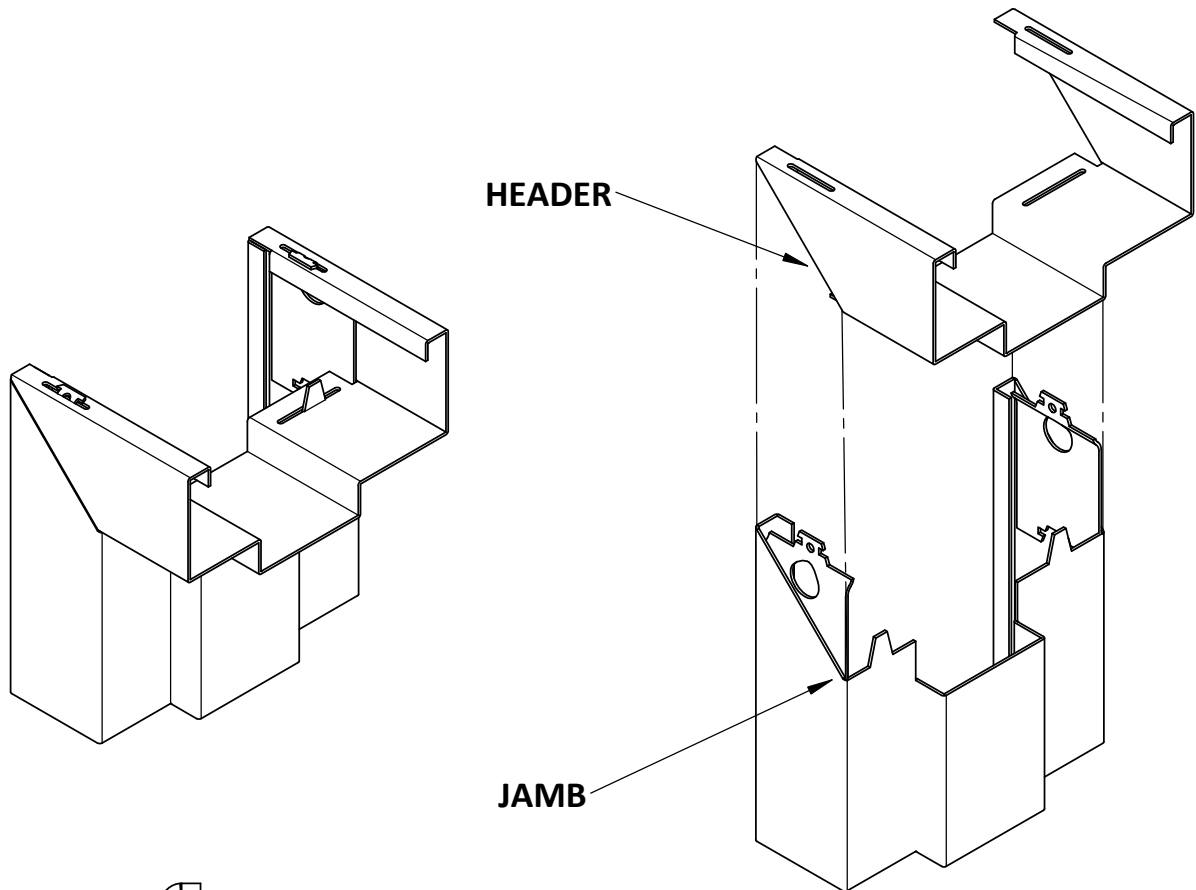
**FDJ SERIES
PROFILES - COMMUNICATING FRAME**



FDJ SERIES
DETAILS - HOSPITAL STOP



**FDJ SERIES
FRAME CORNER - DOUBLE RABBET - KD**



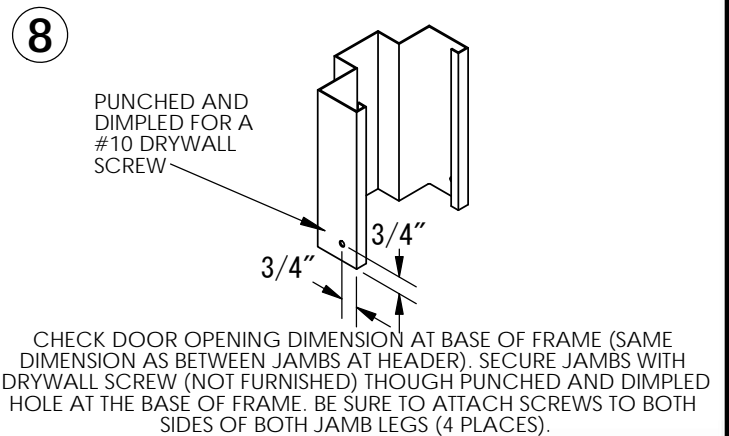
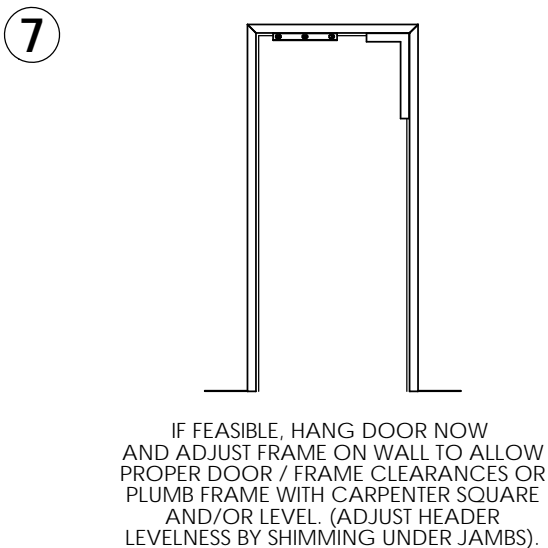
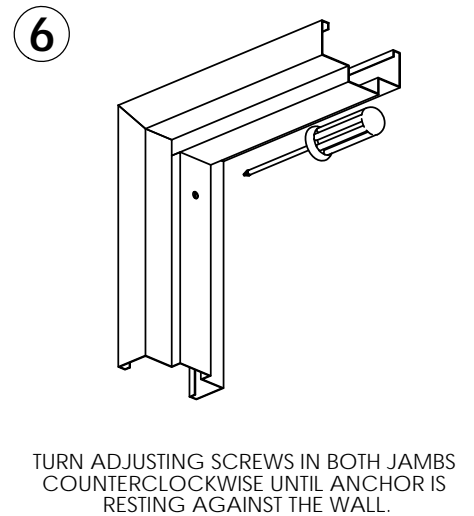
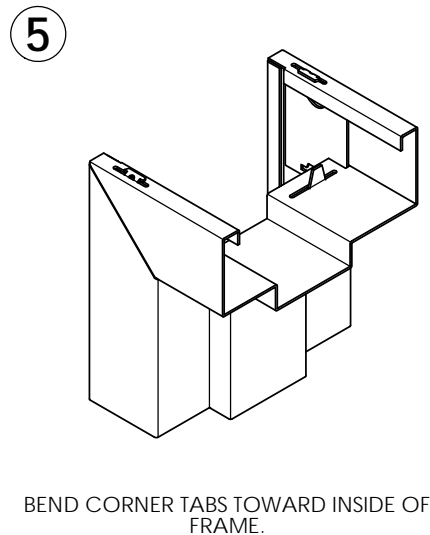
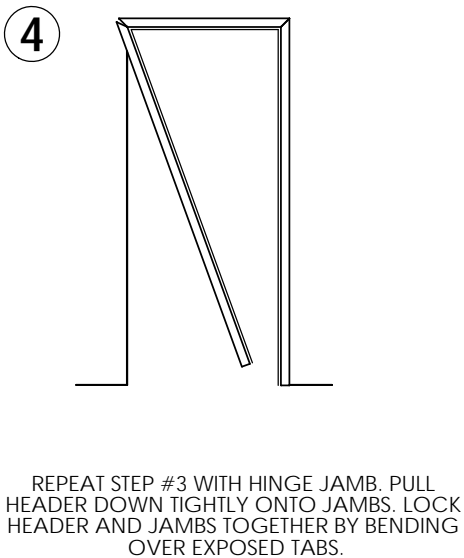
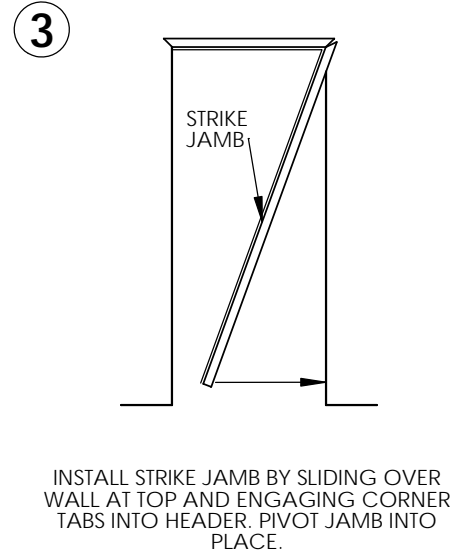
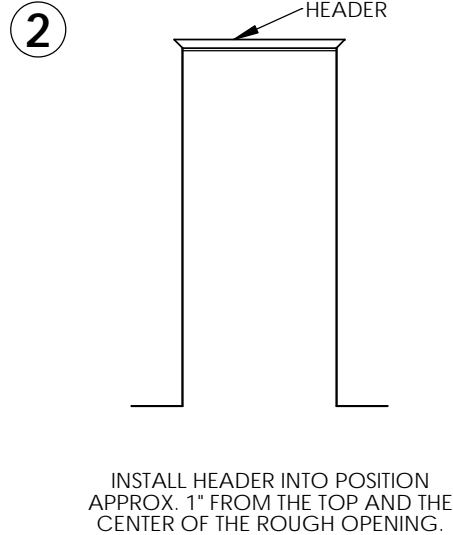
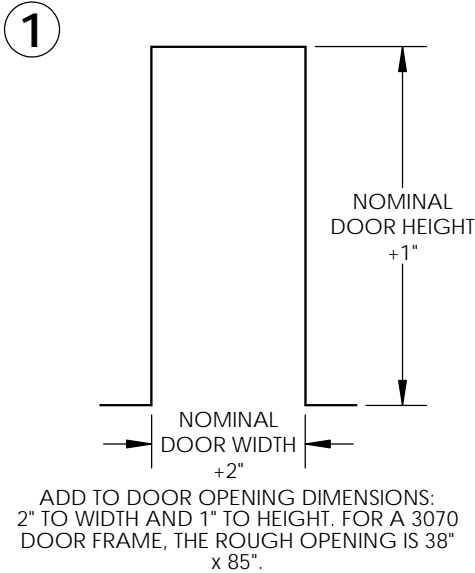
**TAB IS OFFSET TO OBTAIN
SMOOTH BEND ALONG
TOP OF FRAME HEAD.**

SECTION THRU TAB



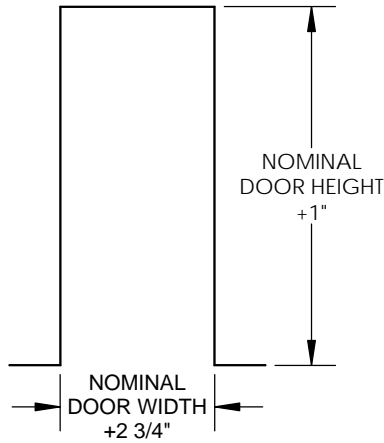
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FDJ SERIES FRAME INSTALLATION



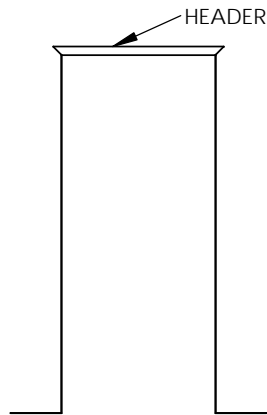
**FDJ SERIES
FRAME INSTALLATION - CASSED OPENING**

①



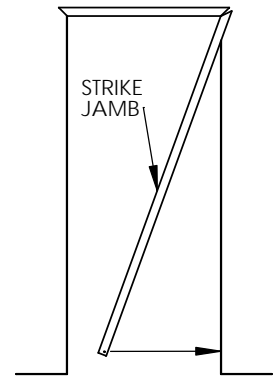
ADD TO DOOR OPENING DIMENSIONS:
2 3/4" TO WIDTH AND 1" TO HEIGHT. FOR A
3070 DOOR FRAME, THE ROUGH OPENING IS
38 3/4" x 85".

②



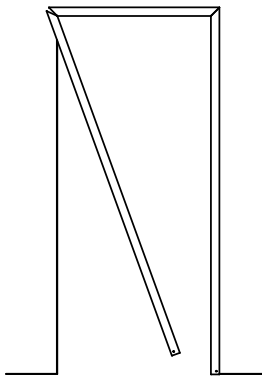
INSTALL HEADER INTO POSITION
APPROX. 1" FROM THE TOP AND THE
CENTER OF THE ROUGH OPENING.

③



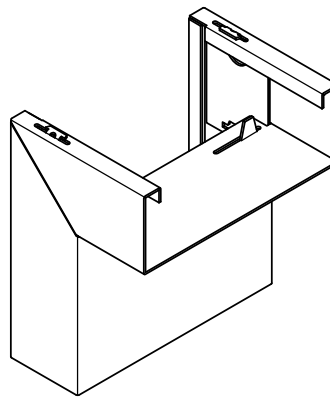
INSTALL STRIKE JAMB BY SLIDING OVER
WALL AT TOP AND ENGAGING CORNER
TABS INTO HEADER. PIVOT JAMB INTO
PLACE.

④



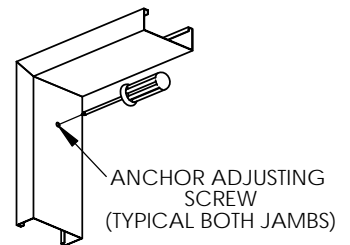
REPEAT STEP #3 WITH HINGE JAMB. PULL
HEADER DOWN TIGHTLY ONTO JAMBS. LOCK
HEADER AND JAMBS TOGETHER BY BENDING
OVER EXPOSED TABS.

⑤



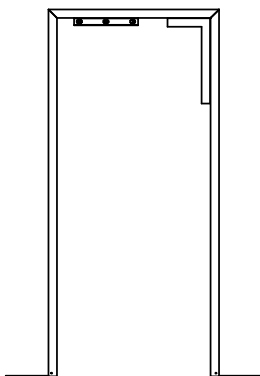
BEND CORNER TABS TOWARD INSIDE OF
FRAME.

⑥



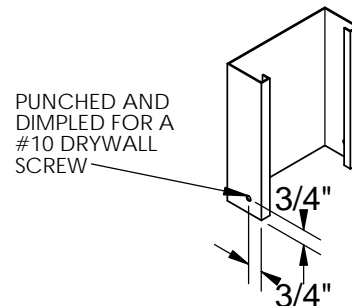
TURN ADJUSTING SCREWS IN BOTH JAMBS
COUNTERCLOCKWISE UNTIL ANCHOR IS
RESTING AGAINST THE WALL.

⑦



IF FEASIBLE, HANG DOOR NOW
AND ADJUST FRAME ON WALL TO ALLOW
PROPER DOOR / FRAME CLEARANCES OR
PLUMB FRAME WITH CARPENTER SQUARE
AND/OR LEVEL. (ADJUST HEADER
LEVELNESS BY SHIMMING UNDER JAMBS).

⑧

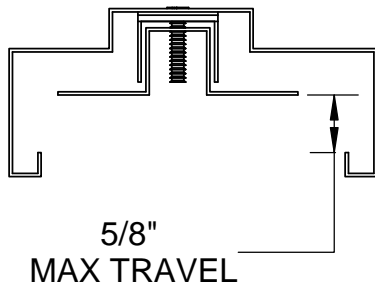


CHECK DOOR OPENING DIMENSION AT BASE OF FRAME (SAME
DIMENSION AS BETWEEN JAMBS AT HEADER). SECURE JAMBS WITH
DRYWALL SCREW (NOT FURNISHED) THOUGH PUNCHED AND DIMPLED
HOLE AT THE BASE OF FRAME. BE SURE TO ATTACH SCREWS TO BOTH
SIDES OF BOTH JAMB LEGS (4 PLACES).

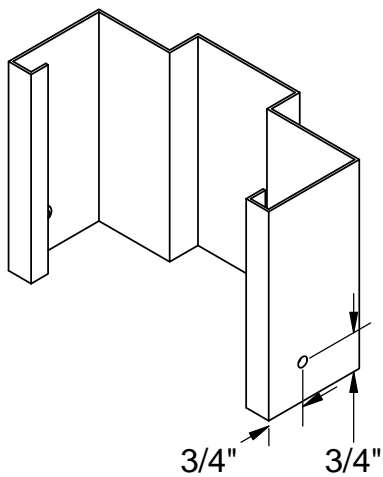
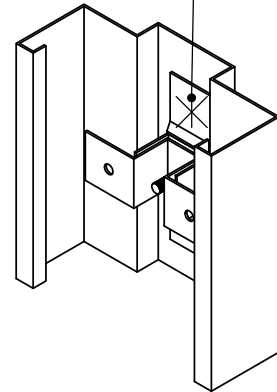


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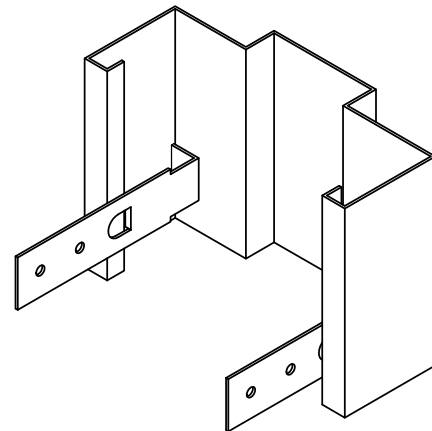
**FDJ SERIES
FRAME ANCHOR - FDJ COMPRESSION ANCHOR**



**SPOT WELD
BOTH ENDS**



**STANDARD BASE
ANCHOR HOLES**



OPTIONAL

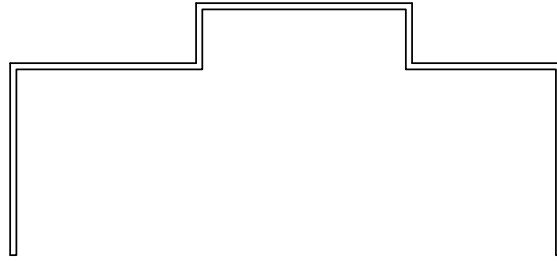


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RF Series Installation	FS-6
RF Adjustable Frame Series Specifications	FS-7
RF Adjustable Frame Series Profile and Specifications	FS-8
RF Adjustable Frame Series Installation.....	FS-9
RF Prohung Frame Series	FS-10

FF SERIES - FLUSH FACE**Frame Construction**

14 or 16 gauge, cold-rolled, galvanized A60, or galvanized G90 steel to be break-formed to the design specifications required. Frames shall be furnished knocked-down or welded, ground smooth upon request. Frames will have no returns; Standard stop heights to be 5/8" high. Soffit dimensions can vary. Faces will be drilled for multiple fastening options.

Installation & Applications

Frames to be installed in accordance with ANSI A250.11-2001. Standard series frames to be used in a number of applications including masonry, wood stud and steel stud construction.

Hardware Reinforcements

Frames to be furnished with 4 1/2" or 5" standard or heavy weight 7 gage steel hinge reinforcements and shall be adequately reinforced for all hardware. Standard arm or parallel closer reinforcements available upon request.

Strike and hinge reinforcements shall be protected by plaster guards. Single frames shall be prepared to receive (3) rubber mutes.

Finish

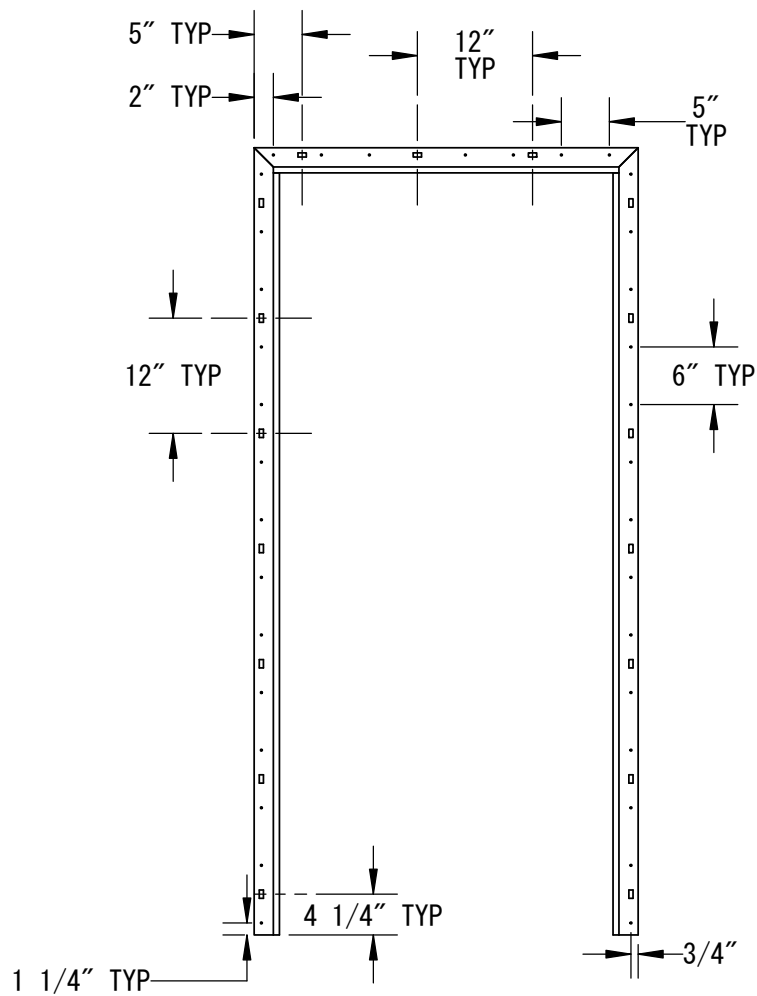
Exposed frame surfaces to be cleaned and treated then coated with rust inhibitive primer. Color painted frames to receive a durable, flow coated, baked on finish. Water-based primer and color paint finishes to be free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

Compliance

All Mesker frame components comply with ANSI A250.8(R2008). Fire labeling in accordance NFPA and available in FM (standard), WHI (Intertek) and Underwriters Laboratories. For a complete list of product compliance per ANSI/ASTM test methods, consult the labeling section.

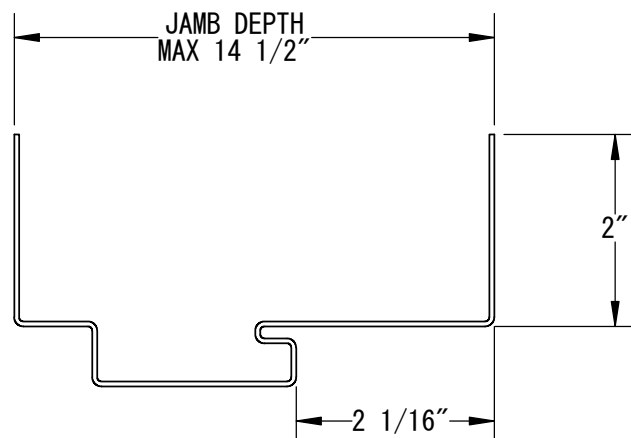


**FF SERIES
FLUSH FACE W/KERF FRAME**

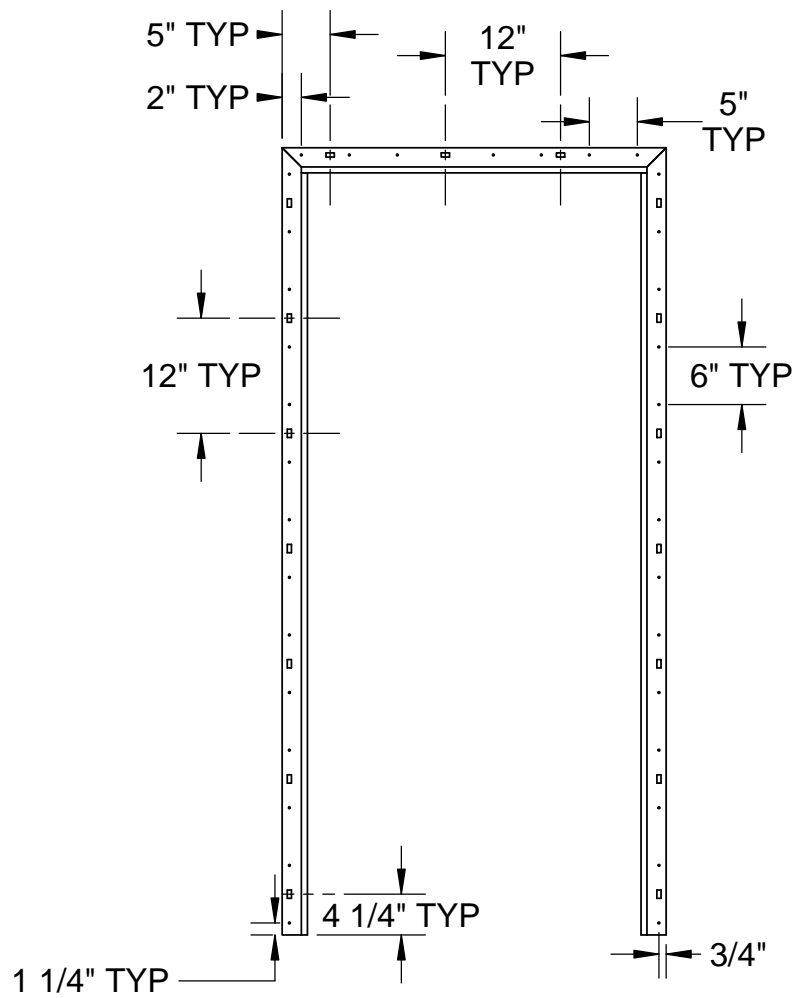


**SLOT SIZE MAY VARY FROM
7/16" X 7/8" TO 1/2" X 1 1/2"**

**NUMBER AND LOCATION OF
SLOTS MAY VARY**

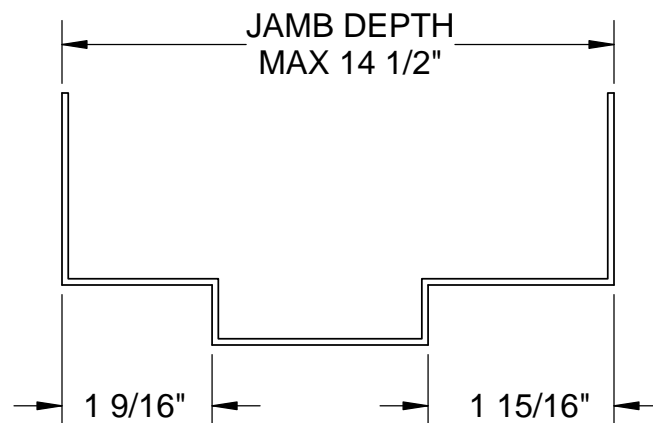


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**FF SERIES
FLUSH FACE FRAME**

SLOT SIZE MAY VARY FROM
7/16" X 7/8" TO 1/2" X 1 1/2"

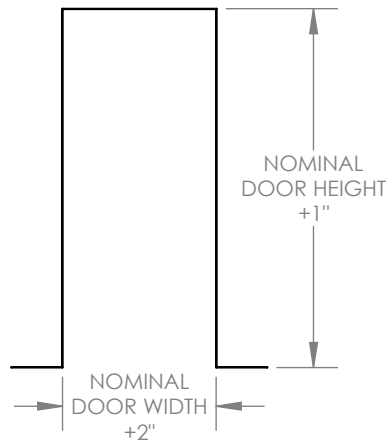
NUMBER AND LOCATION OF
SLOTS MAY VARY



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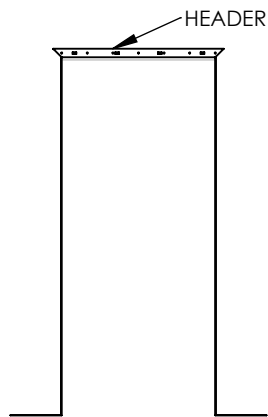
FLUSH FACE FRAME FRAME INSTALLATION

①



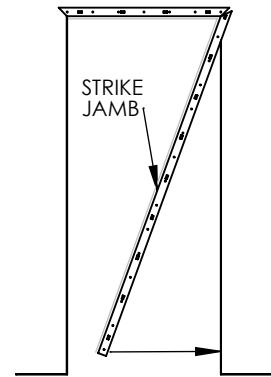
ADD TO DOOR OPENING DIMENSIONS:
2" TO WIDTH AND 1" TO HEIGHT. FOR A 3070
DOOR FRAME, THE ROUGH OPENING IS 38"
x 85".

②



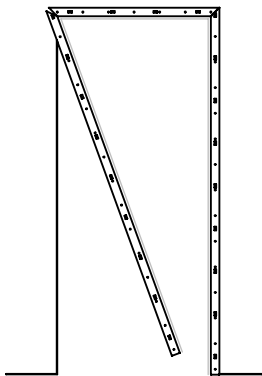
INSTALL HEADER INTO POSITION
APPROX. 1" FROM THE TOP AND THE
CENTER OF THE ROUGH OPENING.

③



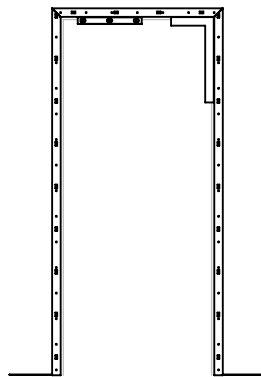
INSTALL STRIKE JAMB BY SLIDING OVER
WALL AT TOP AND ENGAGING CORNER
TABS INTO HEADER. PIVOT JAMB INTO
PLACE.

④



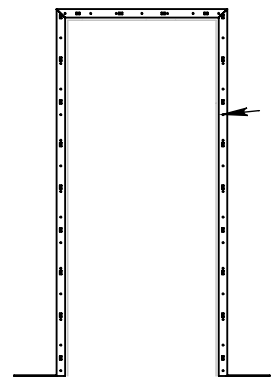
REPEAT STEP #3 WITH HINGE JAMB. PULL
HEADER DOWN TIGHTLY ONTO JAMBS.

⑤



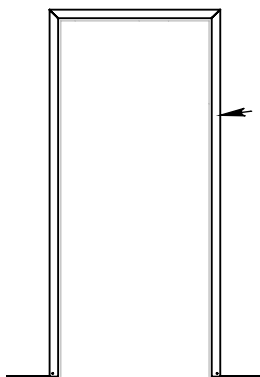
ADJUST FRAME ON WALL TO ALLOW
FRAME CLEARANCES AND
PLUMB FRAME WITH CARPENTER SQUARE
AND/OR LEVEL. (ADJUST HEADER
LEVELNESS BY SHIMMING UNDER JAMBS).

⑥



ANCHOR THOUGH FACE WITH
ANCHORS APPROPRIATE
FOR WALL CONSTRUCTION.

⑦

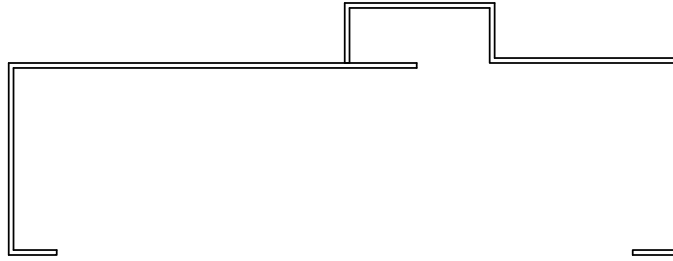


APPLY TRIM OR CASING (PROVIDED BY OTHERS) AS DESIRED.



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RF SERIES - REMODELING FRAMES



Frame Construction

14 or 16 gauge, cold-rolled, galvanized, or galvanized G90 steel to be break-formed to the design specifications required. Frames shall be furnished knocked-down for welding by others or welded, ground smooth upon request. Standard frame to have 1/2" returns; Standard stop heights to be 5/8" high. Soffit dimensions can vary. Frames will be double rabbeted.

Installation & Applications

Frames to be installed in accordance with ANSI A250.11-2001. Standard series frames to be used in a number of applications including masonry, wood stud and steel stud construction.

Hardware Reinforcements

Frames to be furnished with 4 1/2" or 5" standard or heavy weight 7 gauge steel hinge reinforcements and shall be adequately reinforced for all hardware. Standard arm or parallel closer reinforcements available upon request.

Strike and hinge reinforcements shall be protected by plaster guards. Single frames shall be prepared to receive (3) rubber mutes.

Finish

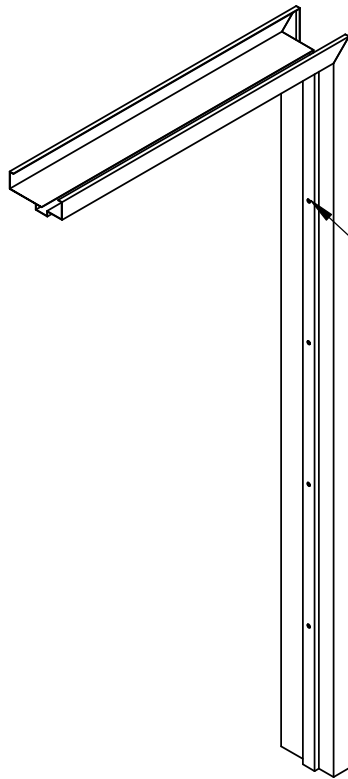
Exposed frame surfaces to be cleaned and treated then coated with rust inhibitive primer. Color painted frames to receive a durable, flow coated, baked on finish. Water-based primer and color paint finishes to be free of Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs).

Compliance

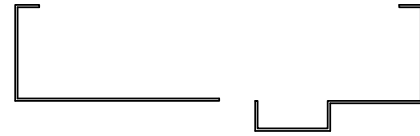
All Mesker frame components comply with ANSI A250.8(R2008). Fire labeling in accordance NFPA and available in FM (standard), WHI (Intertek) and Underwriters Laboratories. For a complete list of product compliance per ANSI/ASTM test methods, consult the labeling section.



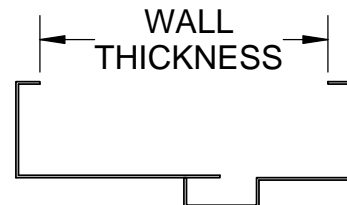
RF SERIES REMODELING FRAME



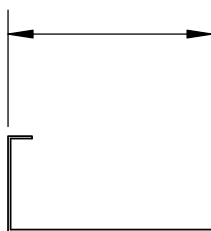
FOUR COUNTERSUNK
HOLES FOR #12 X 2 1/4"
PHILLIPS FLAT HEAD
SCREWS (BY OTHERS)



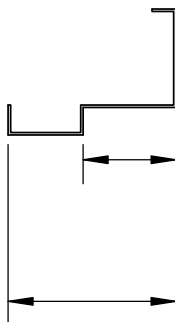
APART



TOGETHER



TRIM SECTION
AVAILABLE IN
2 1/4", 3 1/4",
4 1/4", 5 1/4",
7 1/4"



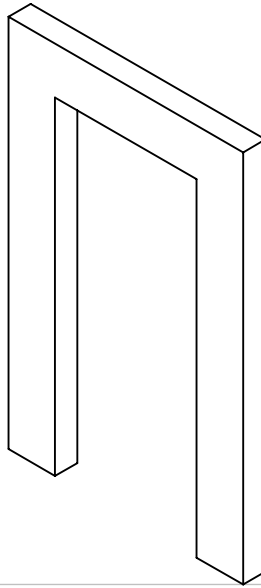
1 15/16" FOR 1 3/4" DOOR
1 9/16" FOR 1 3/8" DOOR

3 1/2" FOR 1 3/4" DOOR
3 1/8" FOR 1 3/8" DOOR

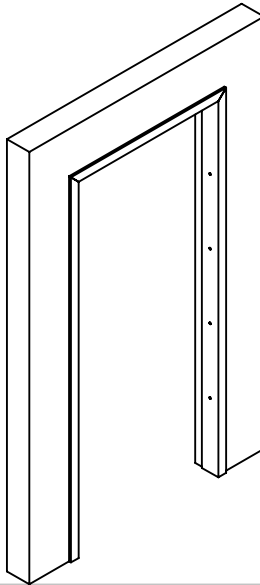
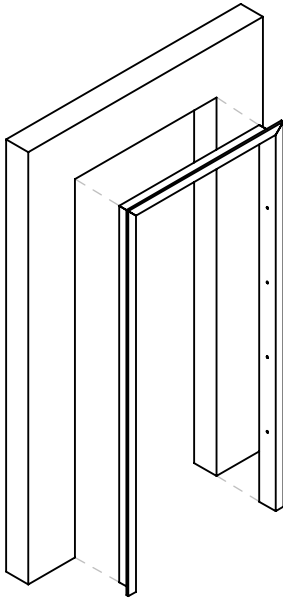
TRIM SIZE	FOR WALL THICKNESS
2 1/4"	3 1/4" THRU 4 1/16"
3 1/4"	4 1/8" THRU 5 11/16"
4 1/4"	5 3/8" THRU 6 13/16"
5 1/4"	7" THRU 8 3/16"
7 1/4"	8 1/4" THRU 9 7/16"



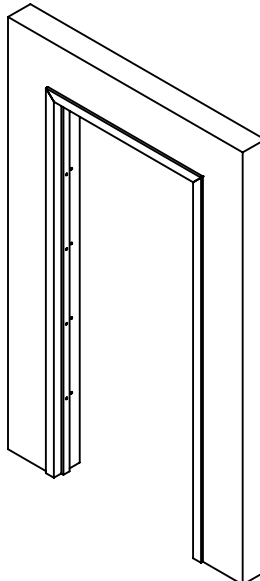
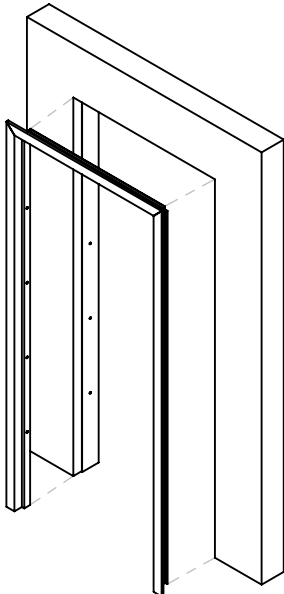
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**REMODELING FRAME
INSTALLATION****1**

**VERIFY PROPER ROUGH
OPENING. OPENING SHOULD BE
NOMINAL DOOR SIZE PLUS
1 1/2" TO PLUMB AND SHIM.**

**2**

**INSERT TRIM SECTION
INTO OPENING. ADJUST
FOR PLUMB AND SHIM AS
REQUIRED. FASTEN WITH
APPROPRIATE SCREWS.**

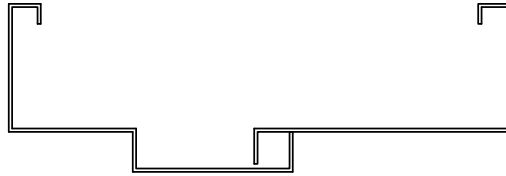
**3**

**INSERT HARDWARE
SECTION FROM OPPOSITE
SIDE OF THE TRIM SECTION.
PLUMB AND FASTEN
THROUGH STOP WITH
APPROPRIATE SCREWS.**



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ADJUSTABLE FRAMES



Frame Construction

14 or 16 gage galvanized steel to be break-formed to the design specifications required. Frames shall be furnished knocked-down. Standard frame to have 1/2" returns; Standard stop heights to be 5/8" high. Soffit dimensions can vary. Frames will be double rabbeted.

Installation & Applications

Frames to be installed in accordance with ANSI A250.11-2001. Standard series frames to be used in a number of applications including masonry, wood stud and steel stud construction.

Hardware Reinforcements

Frames to be furnished with 4 1/2" or 5" standard or heavy weight 7 gage steel hinge reinforcements and shall be adequately reinforced for all hardware. Standard arm or parallel closer reinforcements available upon request.

Single frames shall be prepared to receive (3) rubber mutes.

Finish

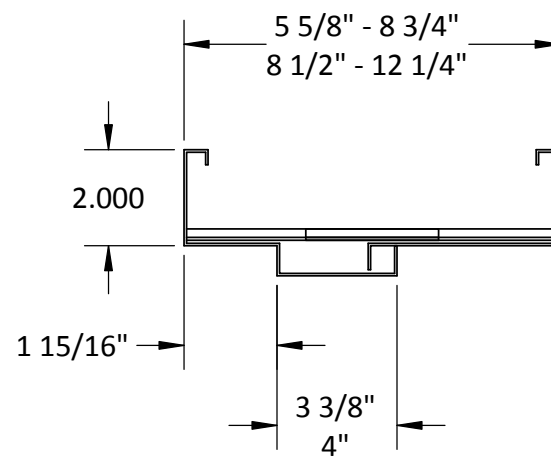
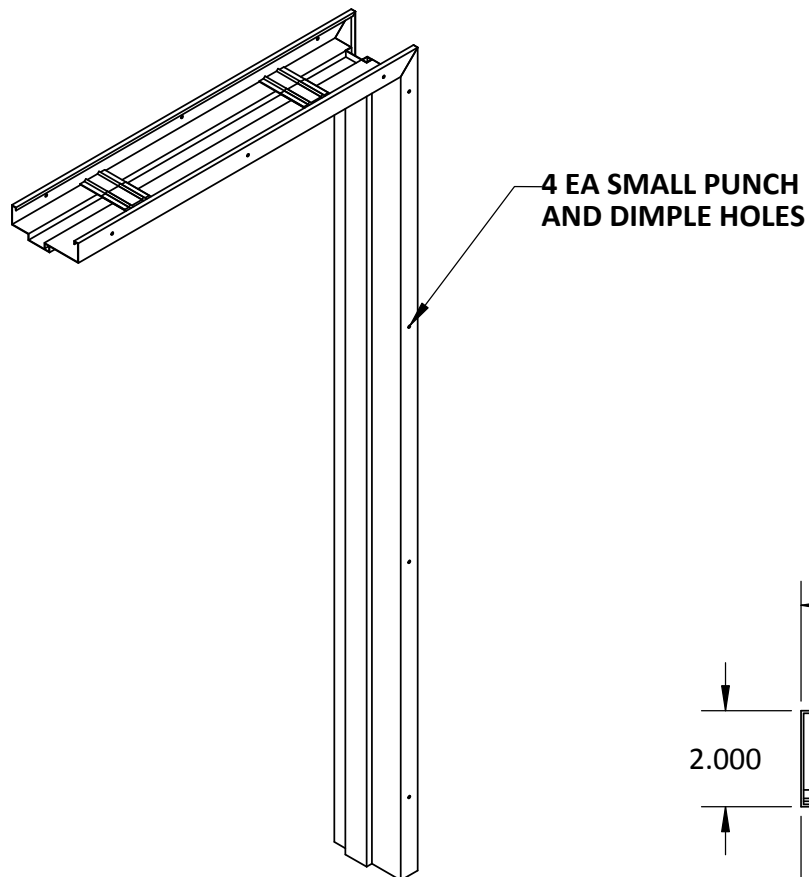
Galvanized only (NO PRIMER).

Compliance

All Mesker frame components comply with ANSI A250.8(R2008). Fire labeling in accordance NFPA and available in FM (standard), WHI (Intertek) and Underwriters Laboratories. For a complete list of product compliance per ANSI/ASTM test methods, consult the labeling section.



ADJUSTABLE FRAME

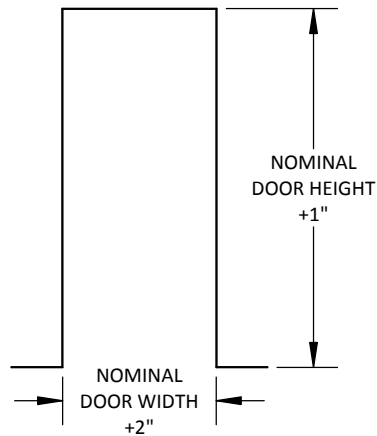


FRAME SIZE	JAMB DEPTH
SMALL	$5 \frac{5}{8}''$ THRU $8 \frac{3}{4}''$
LARGE	$8 \frac{1}{2}''$ THRU $12 \frac{1}{4}''$



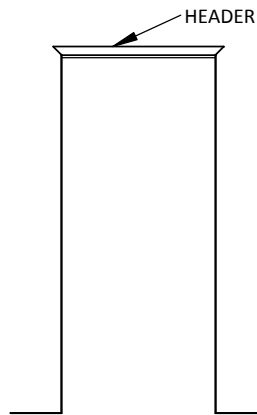
ADJUSTABLE FRAME INSTALLATION

①



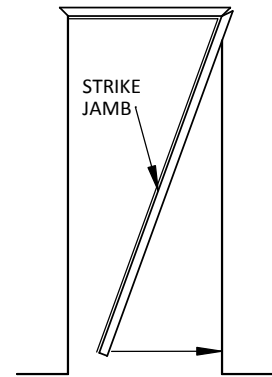
ADD TO DOOR OPENING DIMENSIONS:
2" TO WIDTH AND 1" TO HEIGHT. FOR A 3070 DOOR
FRAME, THE ROUGH OPENING IS 38"
x 85".

②



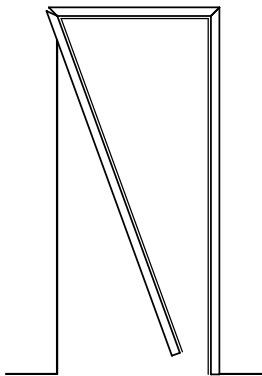
INSTALL HEADER INTO POSITION APPROX. 1"
FROM THE TOP AND THE CENTER OF THE
ROUGH OPENING.

③



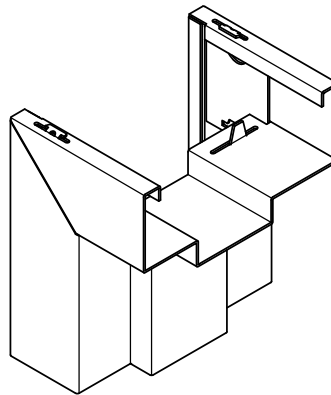
INSTALL STRIKE JAMB BY SLIDING OVER WALL
AT TOP AND ENGAGING CORNER TABS INTO
HEADER. PIVOT JAMB INTO PLACE.

④



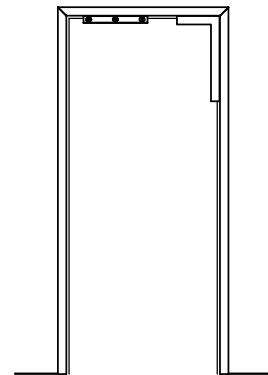
REPEAT STEP #3 WITH HINGE JAMB. PULL
HEADER DOWN TIGHTLY ONTO JAMBS. LOCK
HEADER AND JAMBS TOGETHER BY BENDING
OVER EXPOSED TABS.

⑤



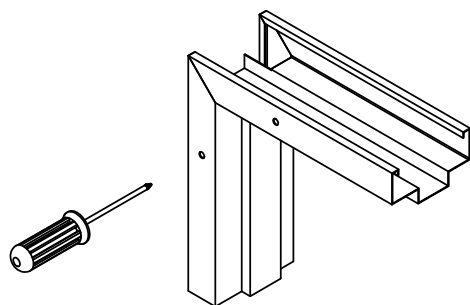
BEND CORNER TABS TOWARD INSIDE OF FRAME.

⑥



IF FEASIBLE, HANG DOOR NOW
AND ADJUST FRAME ON WALL TO ALLOW
PROPER DOOR / FRAME CLEARANCES OR
PLUMB FRAME WITH CARPENTER SQUARE
AND/OR LEVEL. (ADJUST HEADER
LEVELNESS BY SHIMMING UNDER JAMBS).

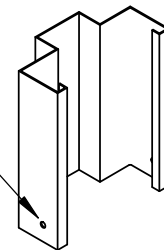
⑦



HEADER AND JAMBS PUNCHED AND DIMPLED TO RECEIVE
SCREWS TO SECURE FRAME.

⑧

PUNCHED AND
DIMPLED FOR
#10 DRYWALL
SCREWS
(4 EA JAMB FACE)



CHECK DOOR OPENING DIMENSION AT BASE OF FRAME (SAME
DIMENSION AS BETWEEN JAMBS AT HEADER). SECURE JAMBS WITH
DRYWALL SCREW (NOT FURNISHED) THROUGH PUNCHED AND DIMPLED
HOLES IN FACE OF FRAME. BE SURE TO ATTACH SCREWS TO BOTH
SIDES OF BOTH JAMB LEGS (8 PLACES).



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PROHUNG FRAME

COMING SOON



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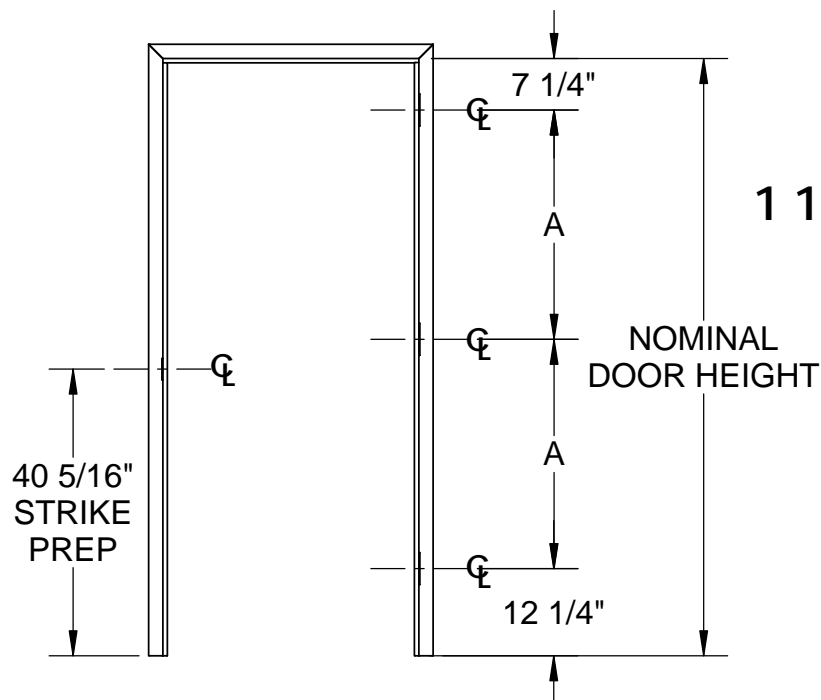
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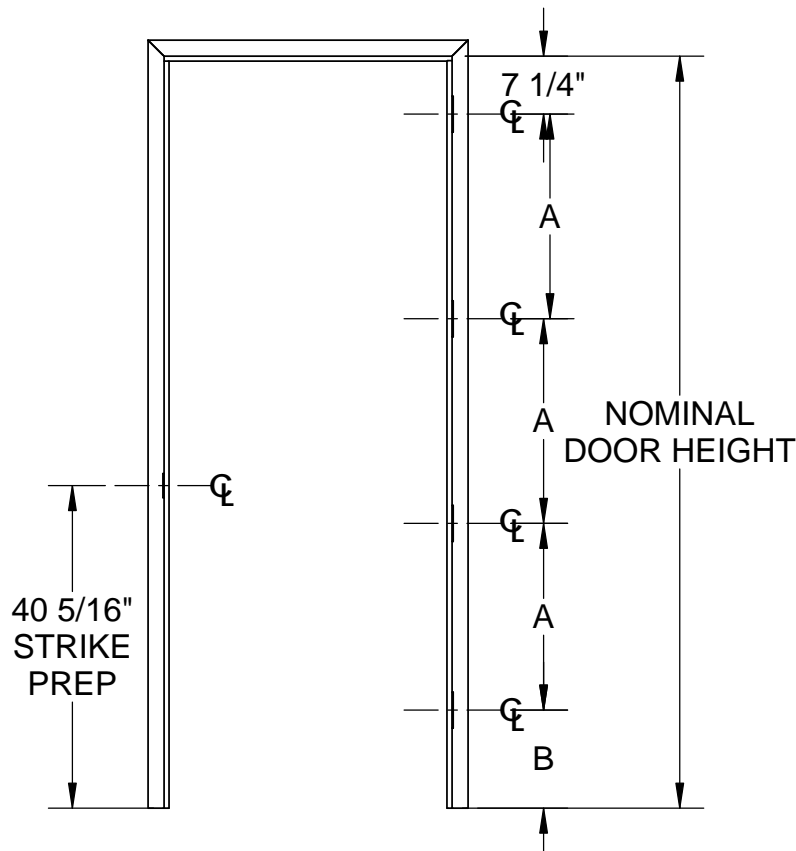
FRAME DETAILS

1 3/4" FRAMES - HINGE AND LOCK LOCATIONS



6'8", 7'0", 7'2"
1 1/2 PAIR OF HINGES

FRAME HEIGHT	DIM A
6'8"	30 1/4"
7'0"	32 1/4"
7'2"	33 1/4"



7'10", 8'0"
2 PAIR OF HINGES

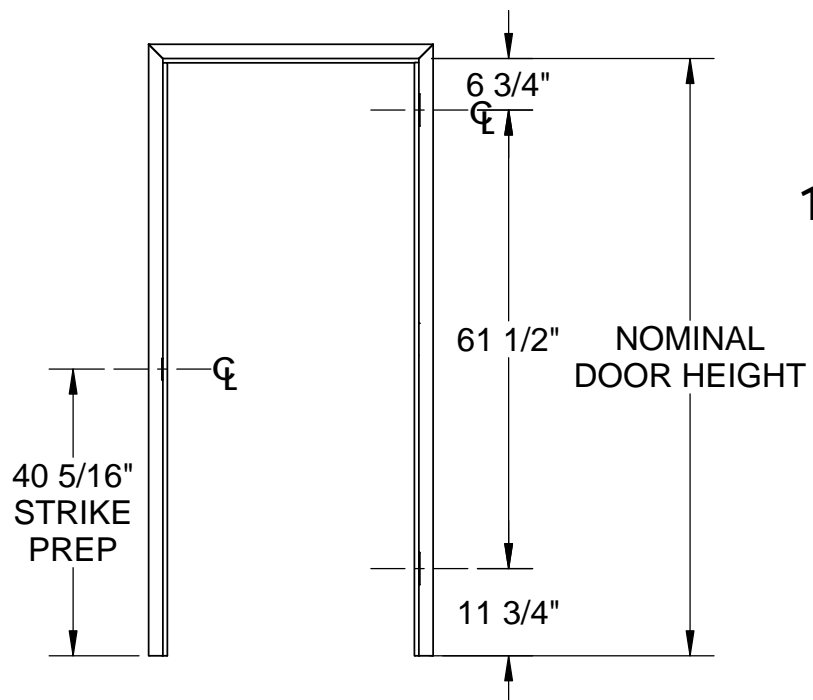
FRAME HEIGHT	DIM A	DIM B
7'10"	25 1/2"	10 1/4"
8'0"	25 1/2"	12 1/4"



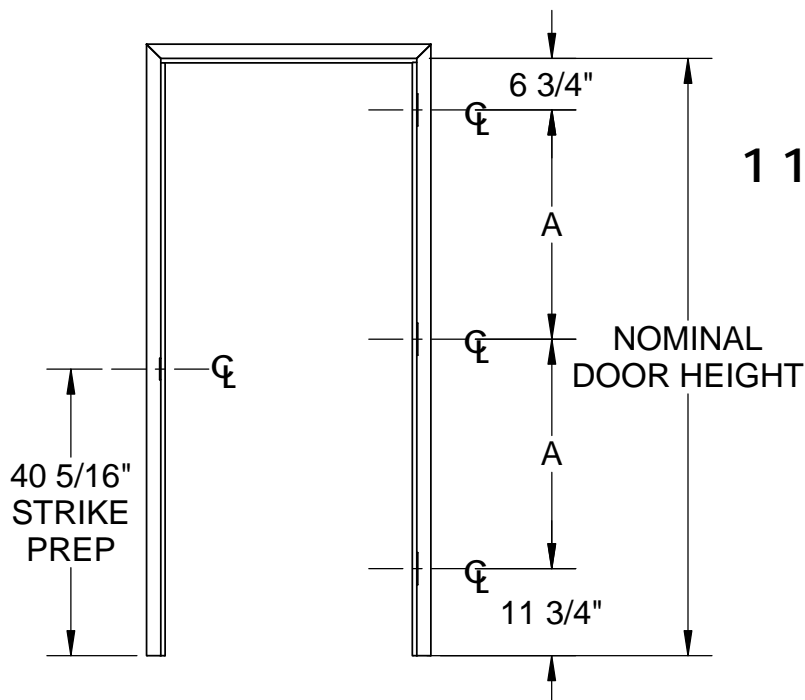
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FRAME DETAILS

1 3/8" FRAMES - HINGE AND LOCK LOCATIONS



6'8"
1 PAIR OF HINGES



7'0", 7'2"
1 1/2 PAIR OF HINGES

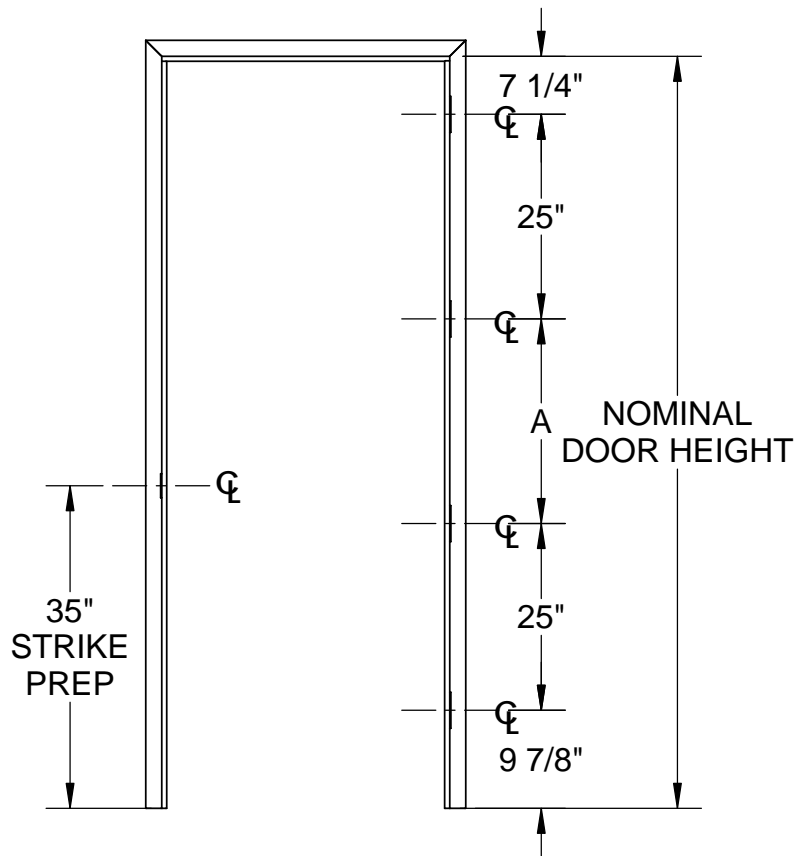
FRAME HEIGHT	DIM A
7'0"	32 3/4"
7'2"	33 3/4"



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FRAME DETAILS

1 3/4" FRAMES - HINGE AND LOCK LOCATIONS FOR DUTCH DOORS



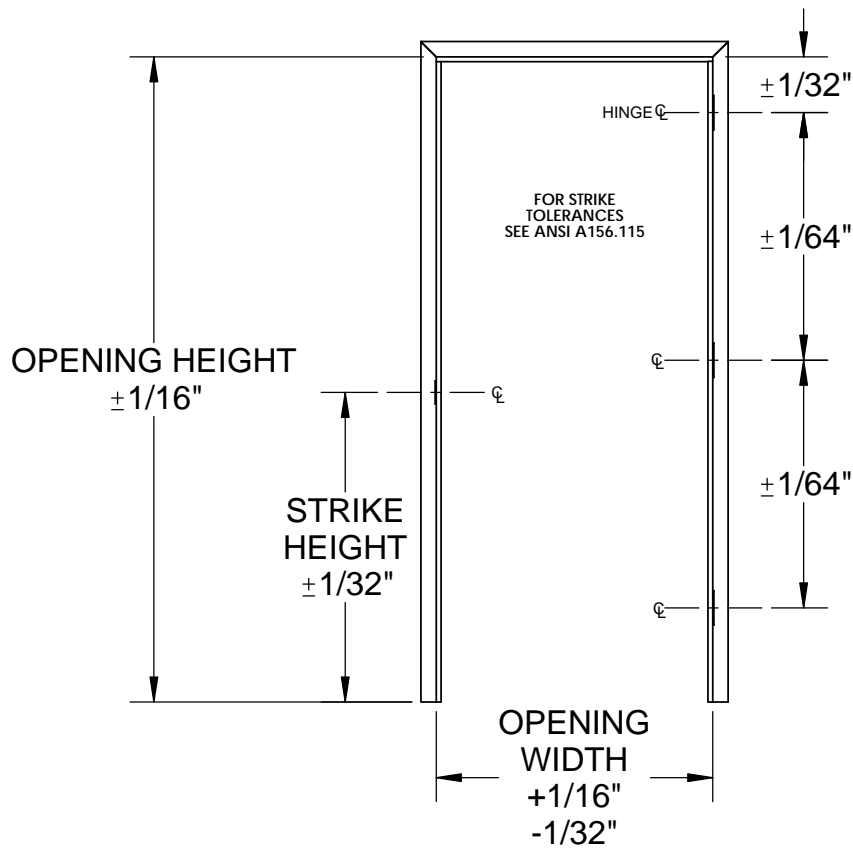
6'8", 7'0", 7'2"
2 PAIR OF HINGES

FRAME HEIGHT	DIM A
6'8"	12 7/8"
7'0"	16 7/8"
7'2"	18 7/8"

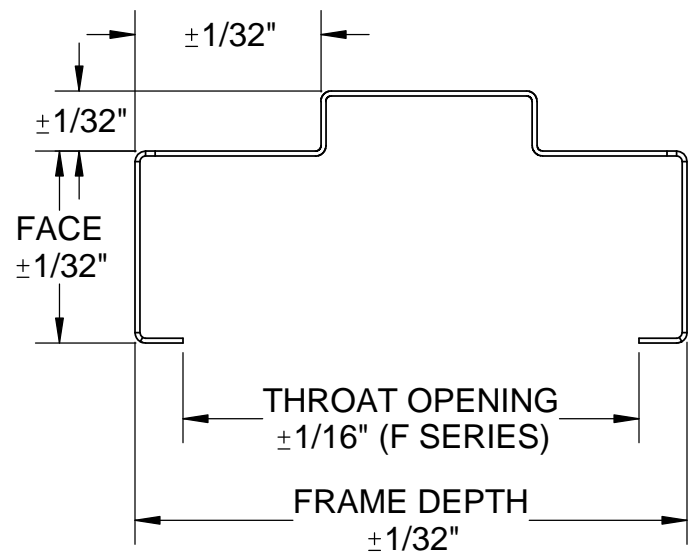
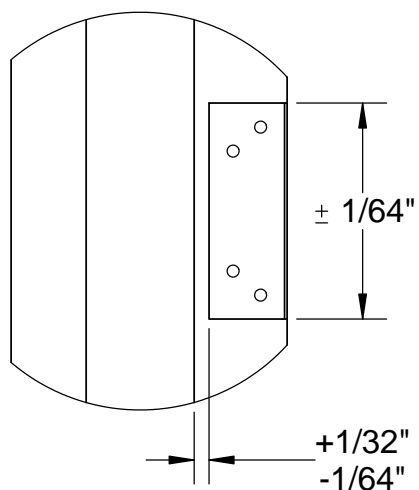


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FRAME DETAILS FRAME TOLERANCES



HINGE PREPARATION



*TOLERANCES BETWEEN HINGE CENTERLINES ARE NON-ACCUMULATIVE

**BASED ON NOMINAL HINGE HEIGHT $\pm 1/32"$

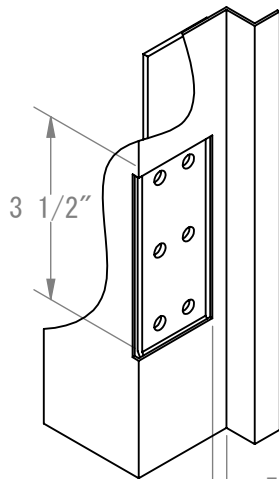
*THROAT OPENING-FDJ DRYWALL $\pm 1/16"$



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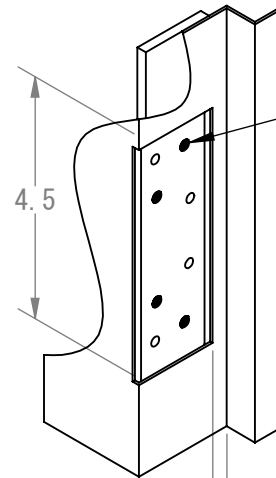
FRAME DETAILS

HINGE PREP 3 1/2", 4 1/2", AND 5"



Machine Screw Size:
10-24 x 1/2" F.H. with No. 9 Head

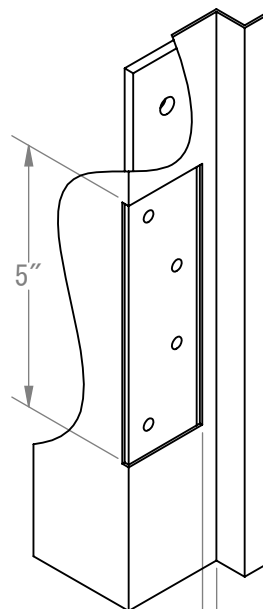
5/16" BACKSET



• GRIND OFF ALL
PROJECTIONS
FOR HEAVY
WEIGHT HINGES

5/16" BACKSET

Machine Screw Size:
12-24 x 1/2" F.H.

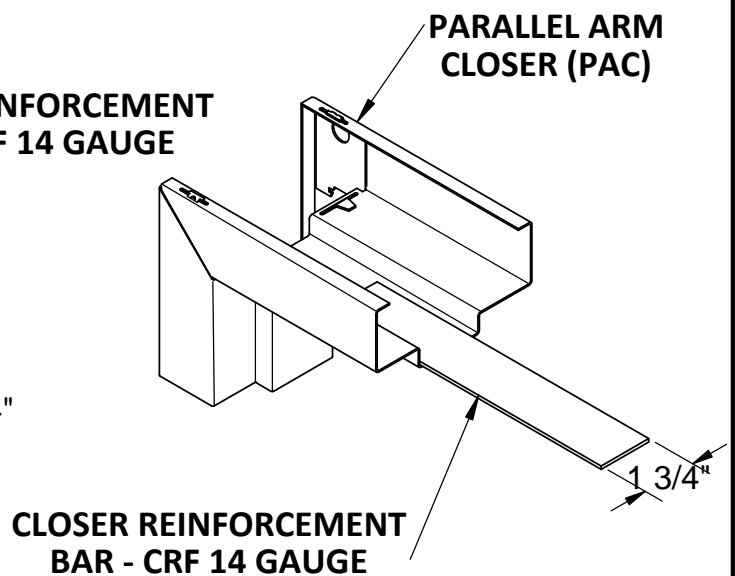
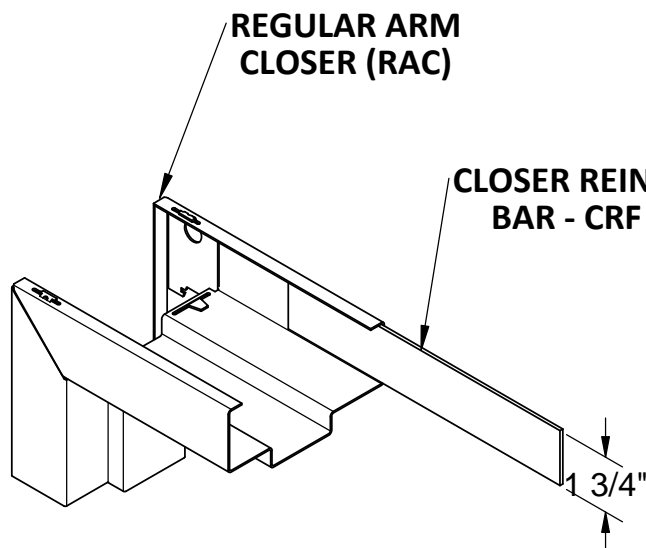
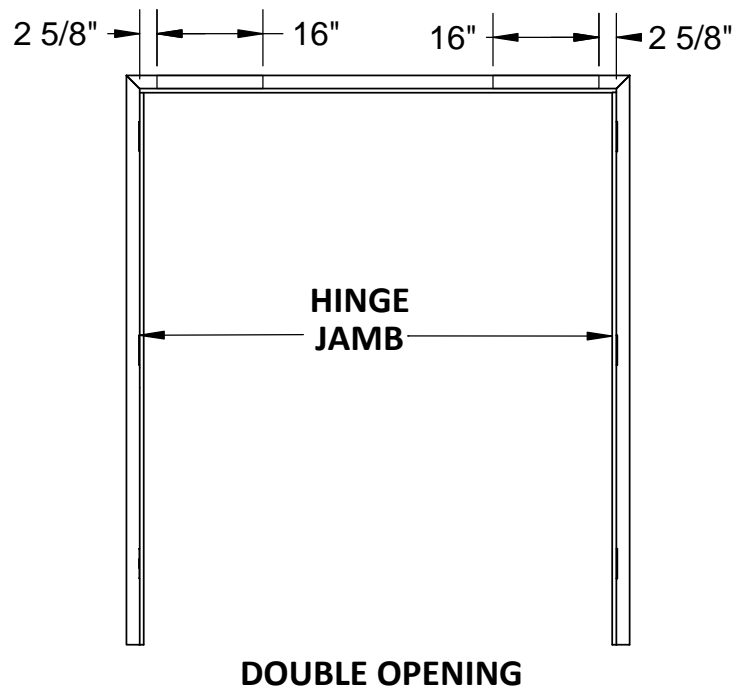
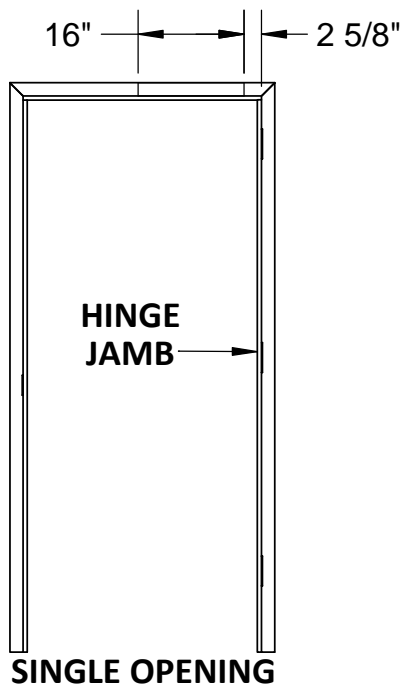


5/16" BACKSET

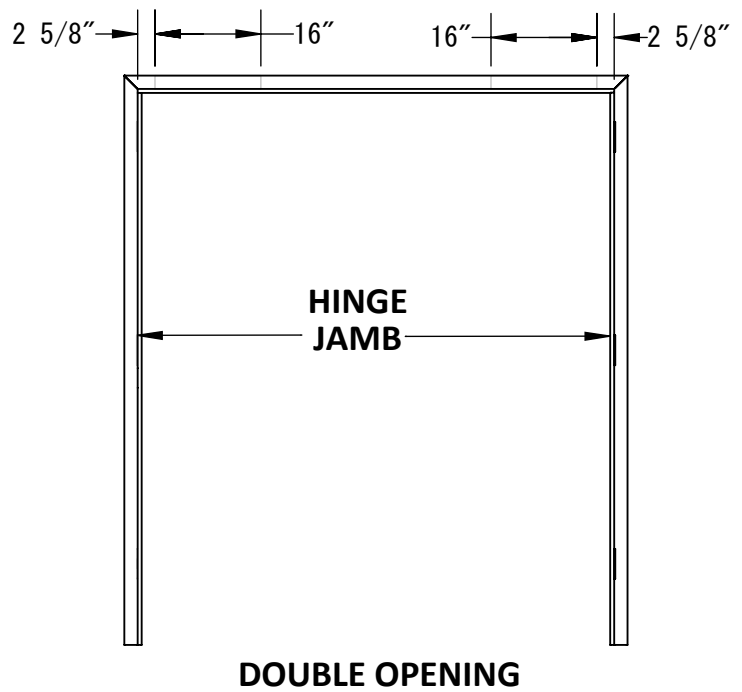
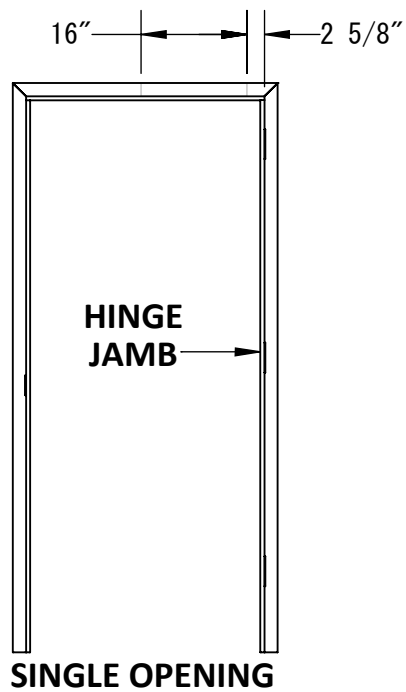


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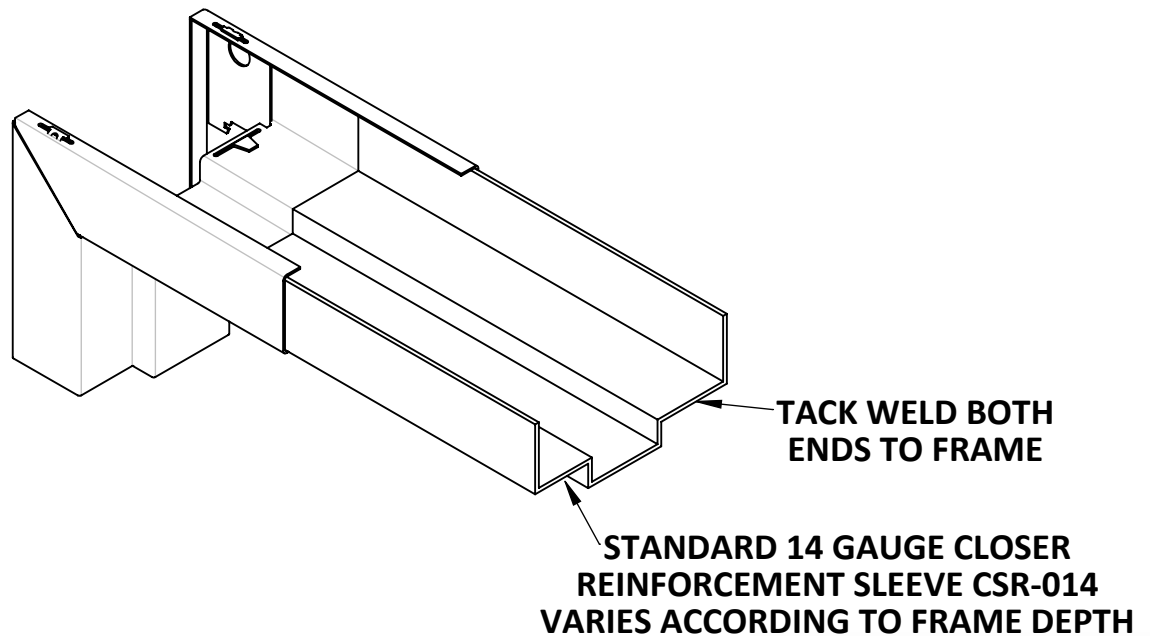
**FRAME DETAILS
STANDARD CLOSER REINFORCEMENT BAR**



**FRAME DETAILS
STANDARD CLOSER REINFORCEMENT SLEEVE**

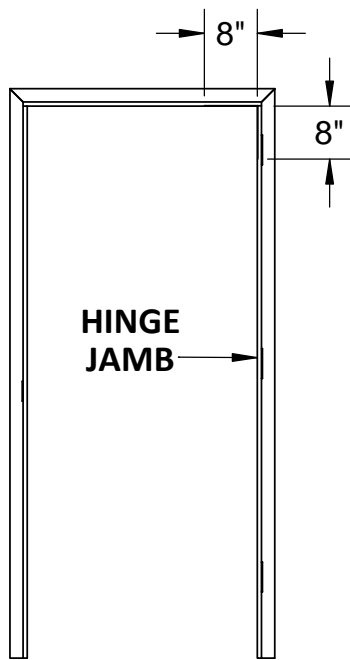


**INSERT CLOSER SLEEVE REINFORCEMENT
BEFORE ASSEMBLING FRAME.**

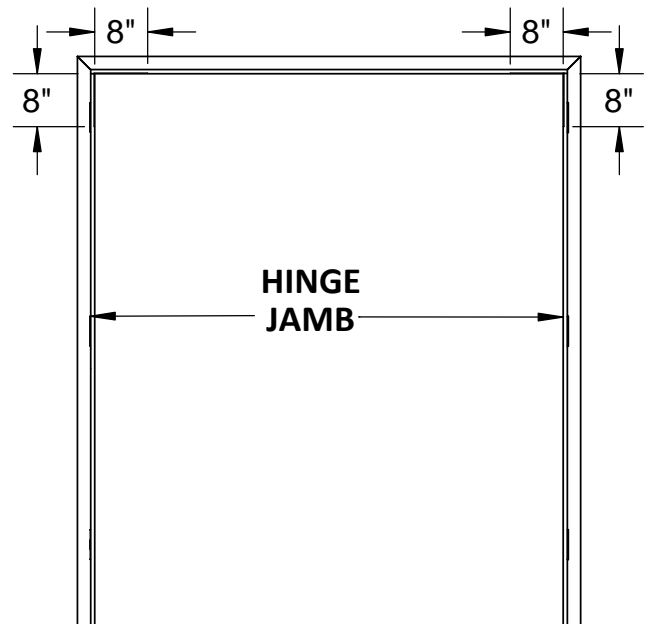


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**FRAME DETAILS
CORNER BRACKET MOUNTED CLOSER REINFORCEMENT**

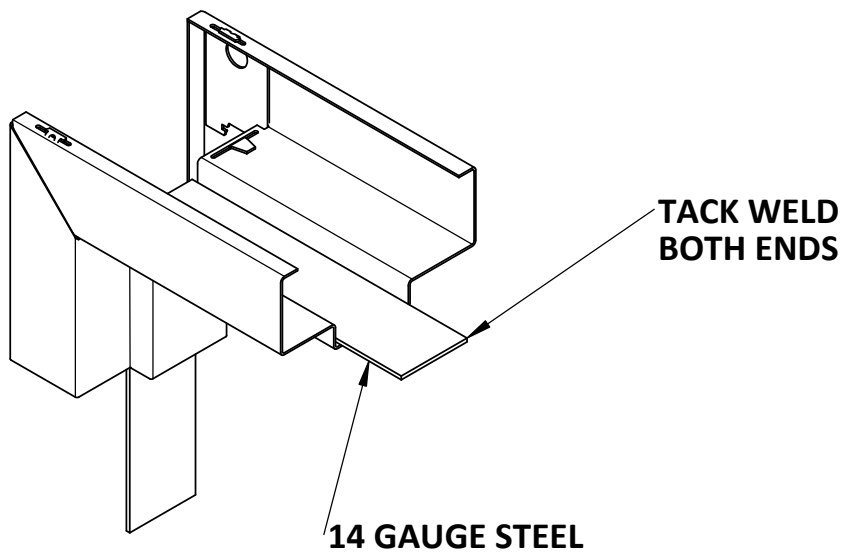


SINGLE OPENING



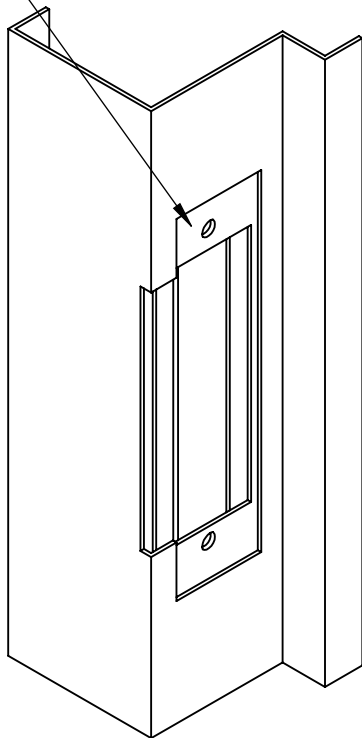
DOUBLE OPENING

**VARIES IN WIDTH
ACCORDING TO FRAME DEPTH**



**FRAME DETAILS
STANDARD STRIKE PREPARATIONS**

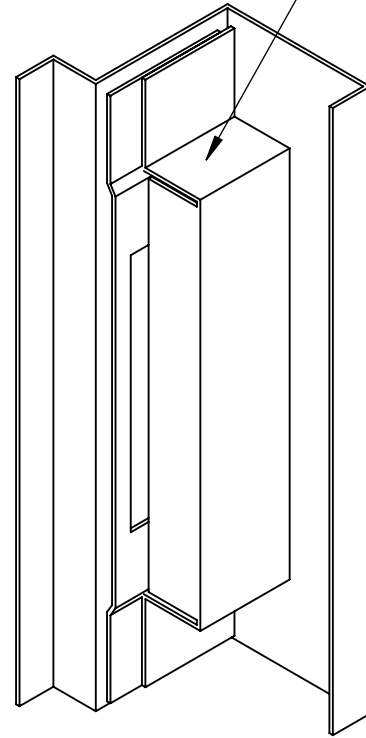
**A 14 GAUGE STRIKE REINFORCEMENT
PROJECTION WELDED TO FRAME.
STRIKE MORTISE CONFORMS TO ANSI A156.115.**



PART # PFSRU

**"U" STRIKE MORTISE
(ASA STRIKE)**

**A 20 GAUGE STEEL PLASTER GUARD PROJECTION
WELDED TO STRIKE REINFORCEMENT.**



PART # PFUPG

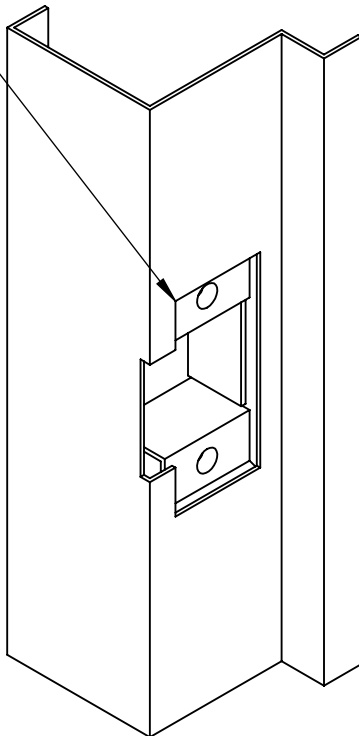
BACK VIEW



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**FRAME DETAILS
STANDARD STRIKE PREPARATIONS**

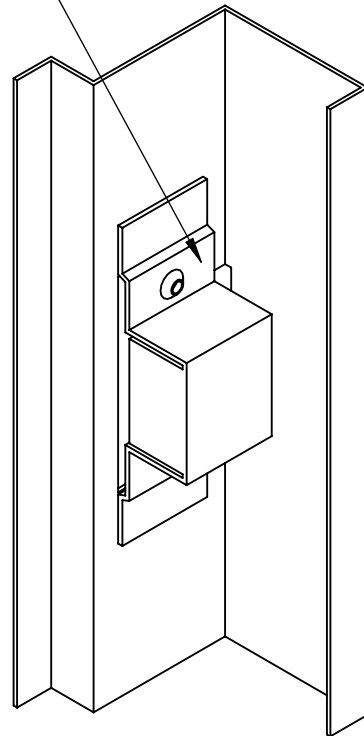
**A 14 GAUGE STRIKE REINFORCEMENT
PROJECTION WELDED TO FRAME.
STRIKE MORTISE CONFORMS TO ANSI A156.115.**



PART # PVSRC

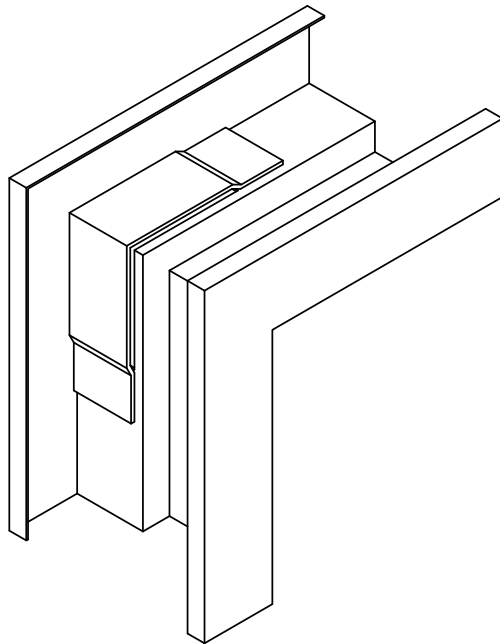
**"C" STRIKE MORTISE
(T STRIKE)**

**A 14 GAUGE STRIKE REINFORCEMENT
WITH PLASTER GUARD.**

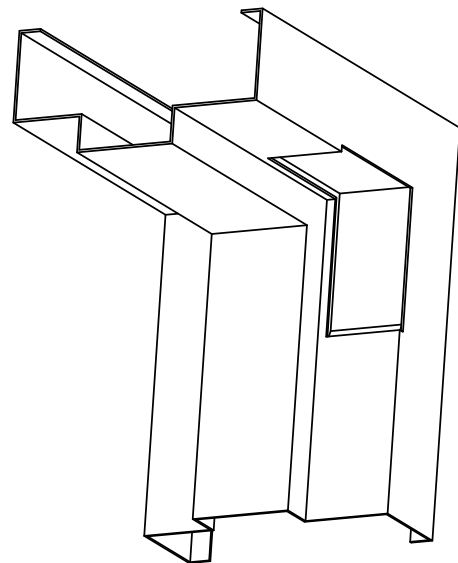


BACK VIEW

**FRAME DETAILS
ANCHOR HINGE PREPARATION**

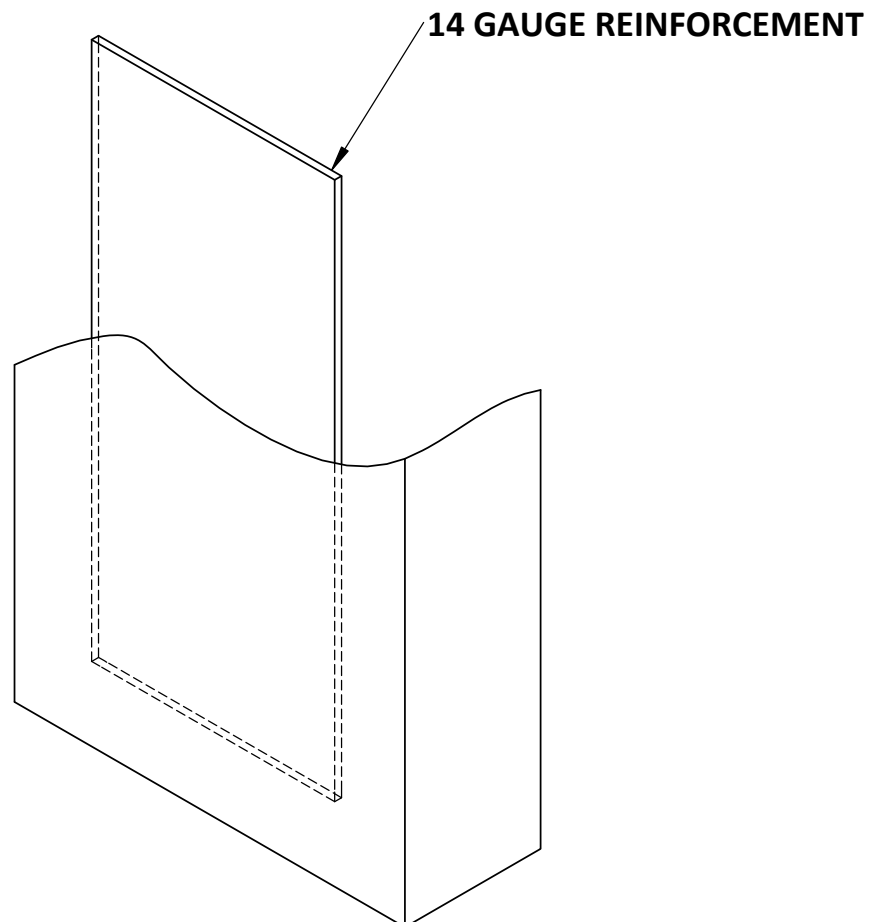


**7 GAUGE
REINFORCED PER TEMPLATE
FOR DRILL AND TAP BY OTHERS**

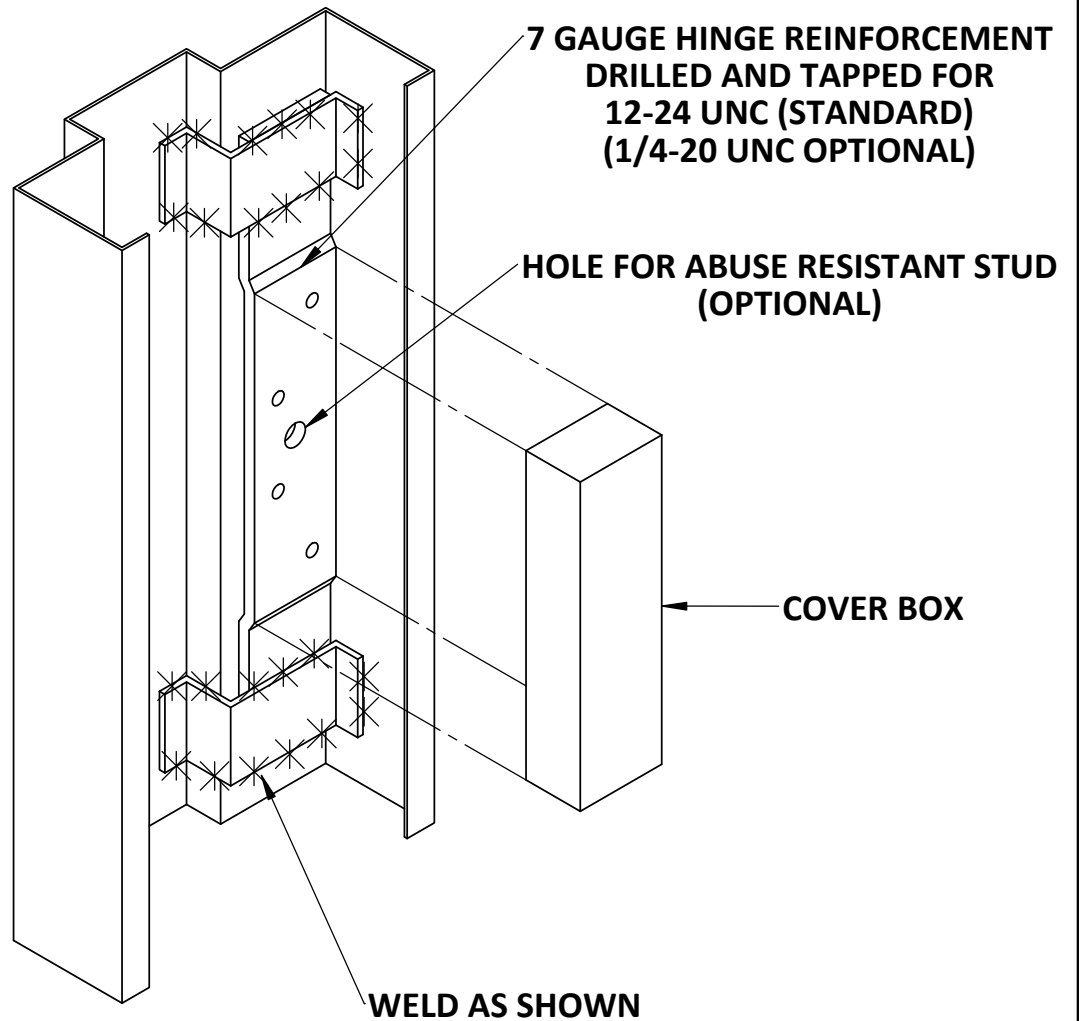


FRAME DETAILS
DOUBLE ACTING HINGE REINFORCEMENT

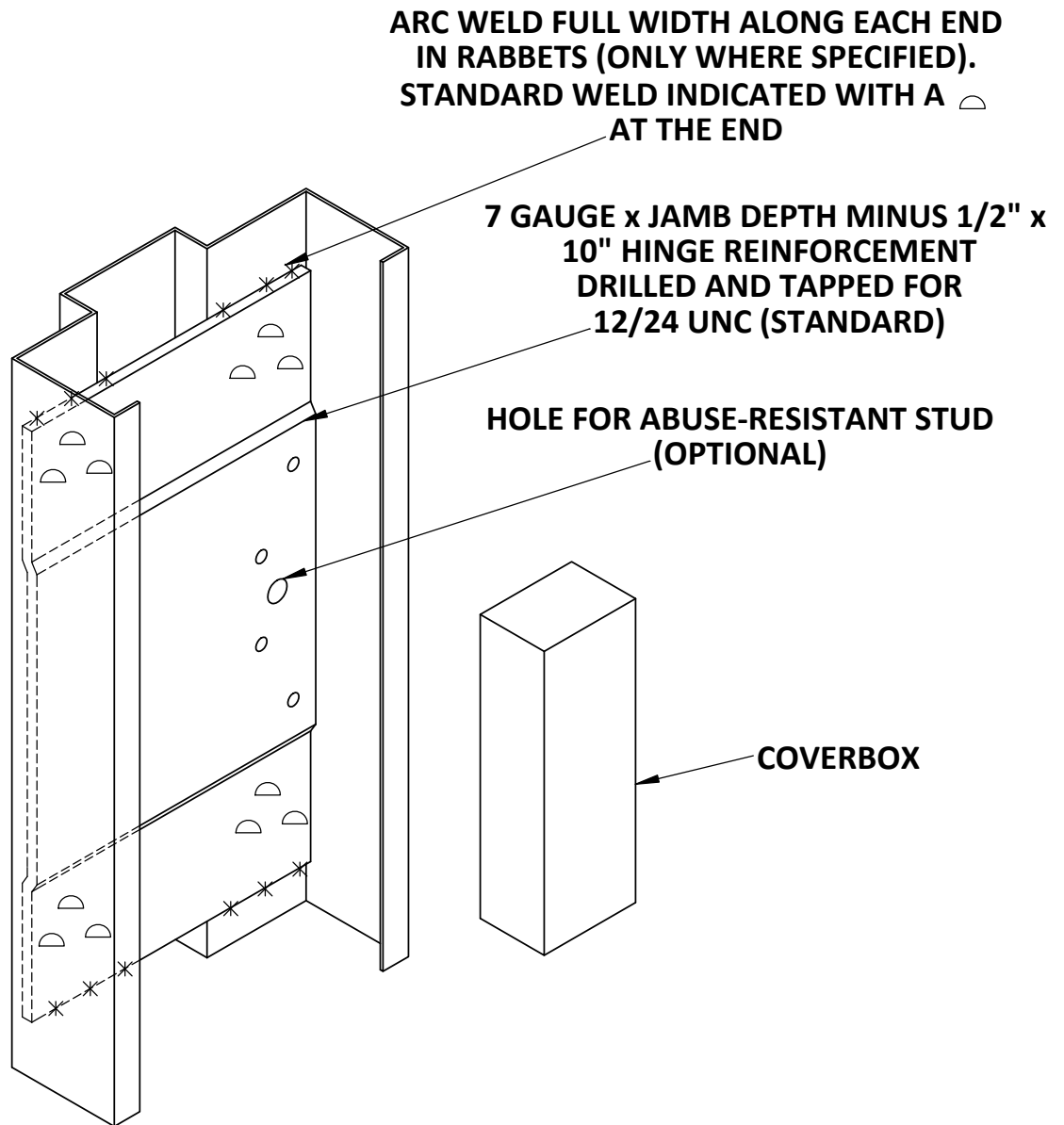
REINFORCEMENT SIZED AND PLACED PER MANUFACTURING LOCATION



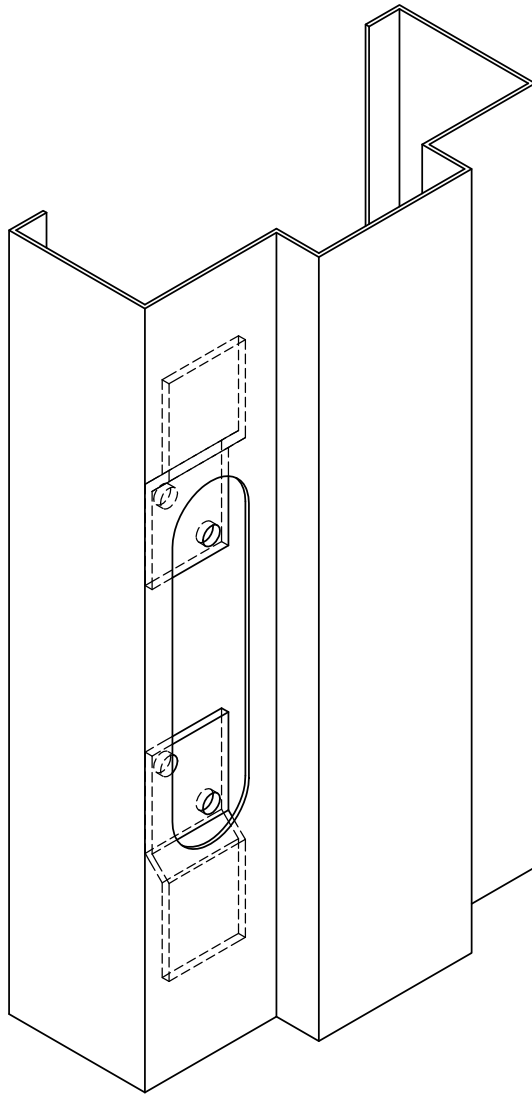
**FRAME DETAILS
HIGH FREQUENCY HINGE REINFORCEMENT**



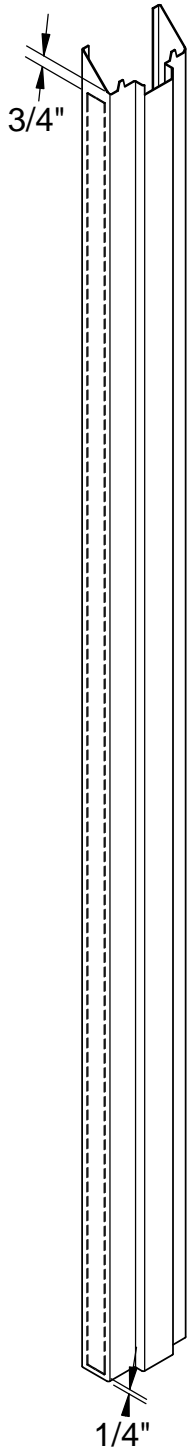
**FRAME DETAILS
FULL DEPTH REINFORCEMENT**



**FRAME DETAILS
INVISIBLE HINGE PREPARATION**

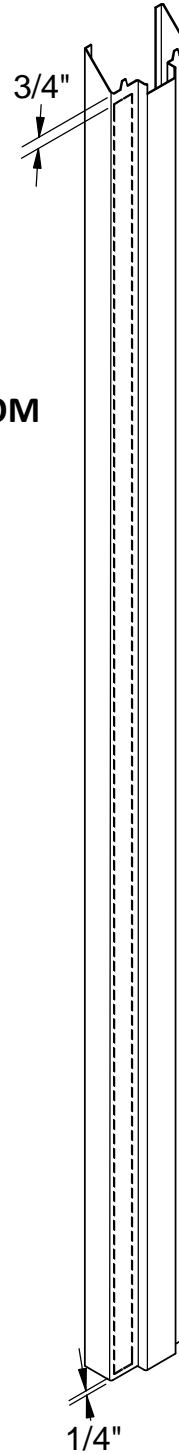


**FRAME DETAILS
CONTINUOUS HINGE REINFORCEMENT**



**HINGE REINFORCEMENTS ARE
WELDED IN PLACE.**

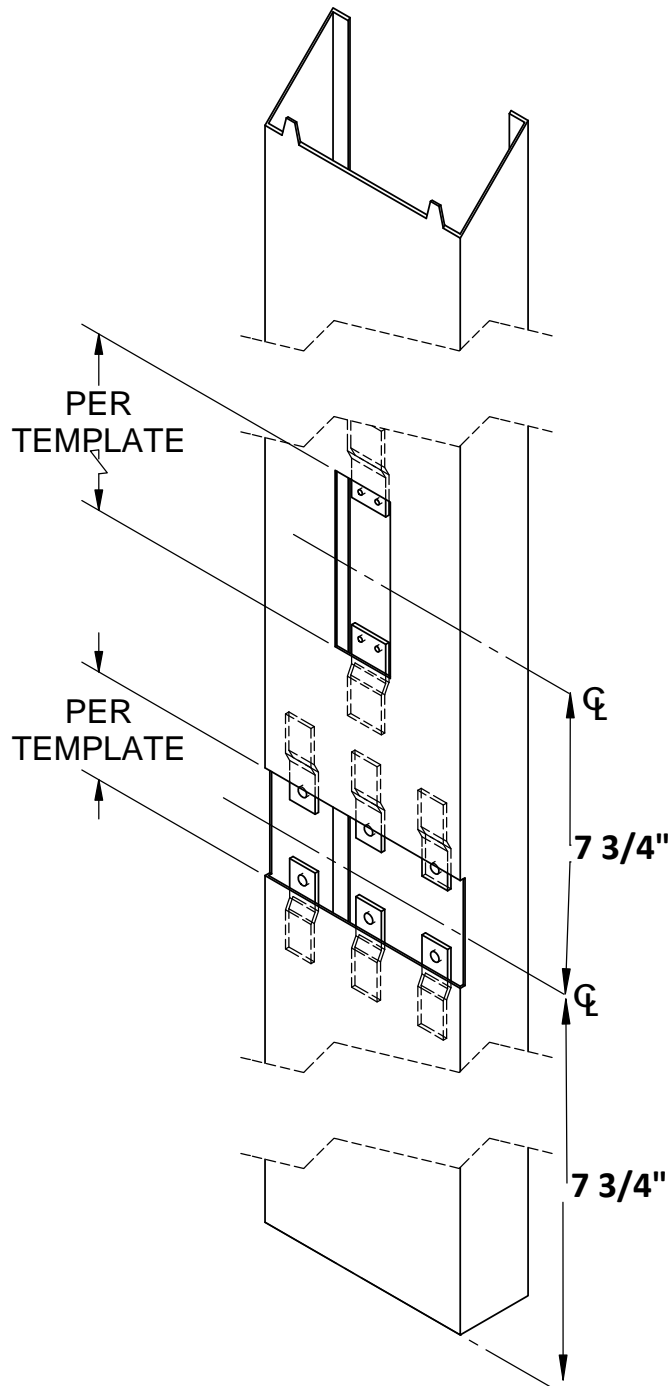
**REINFORCEMENTS ARE MADE FROM
14 GAUGE STEEL.**



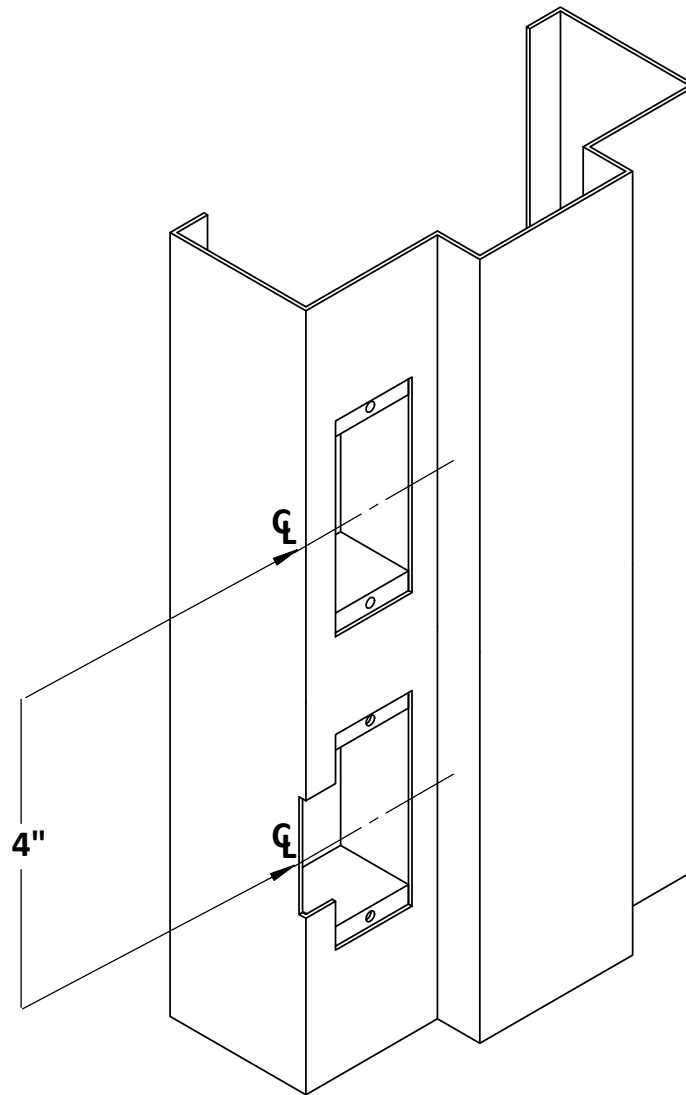
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FRAME DETAILS

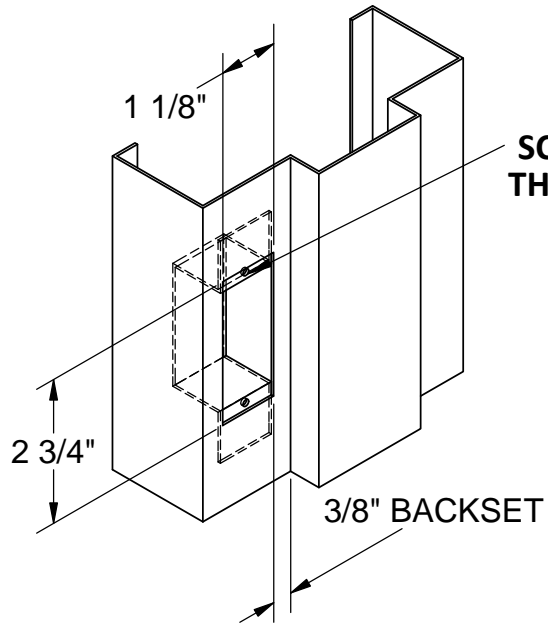
RESCUE HARDWARE - EMERGENCY STOP AND DOUBLE LIP STRIKE



**FRAME DETAILS
INTERCONNECTED LOCK STRIKE PREPARATION**

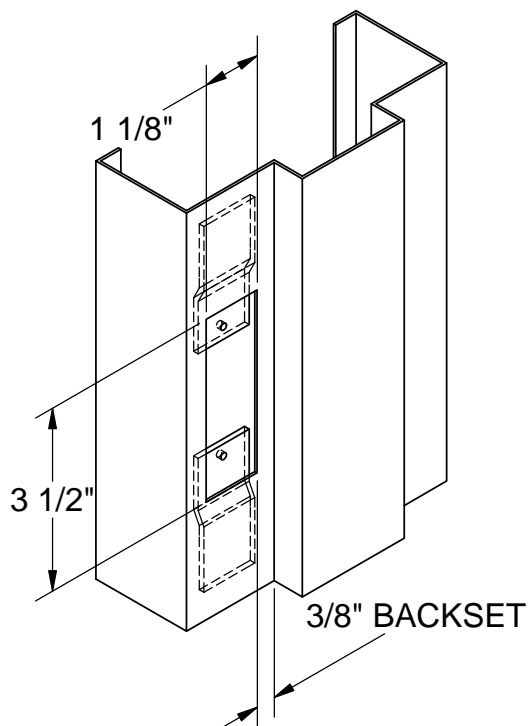


**FRAME DETAILS
DEADLOCK STRIKES**



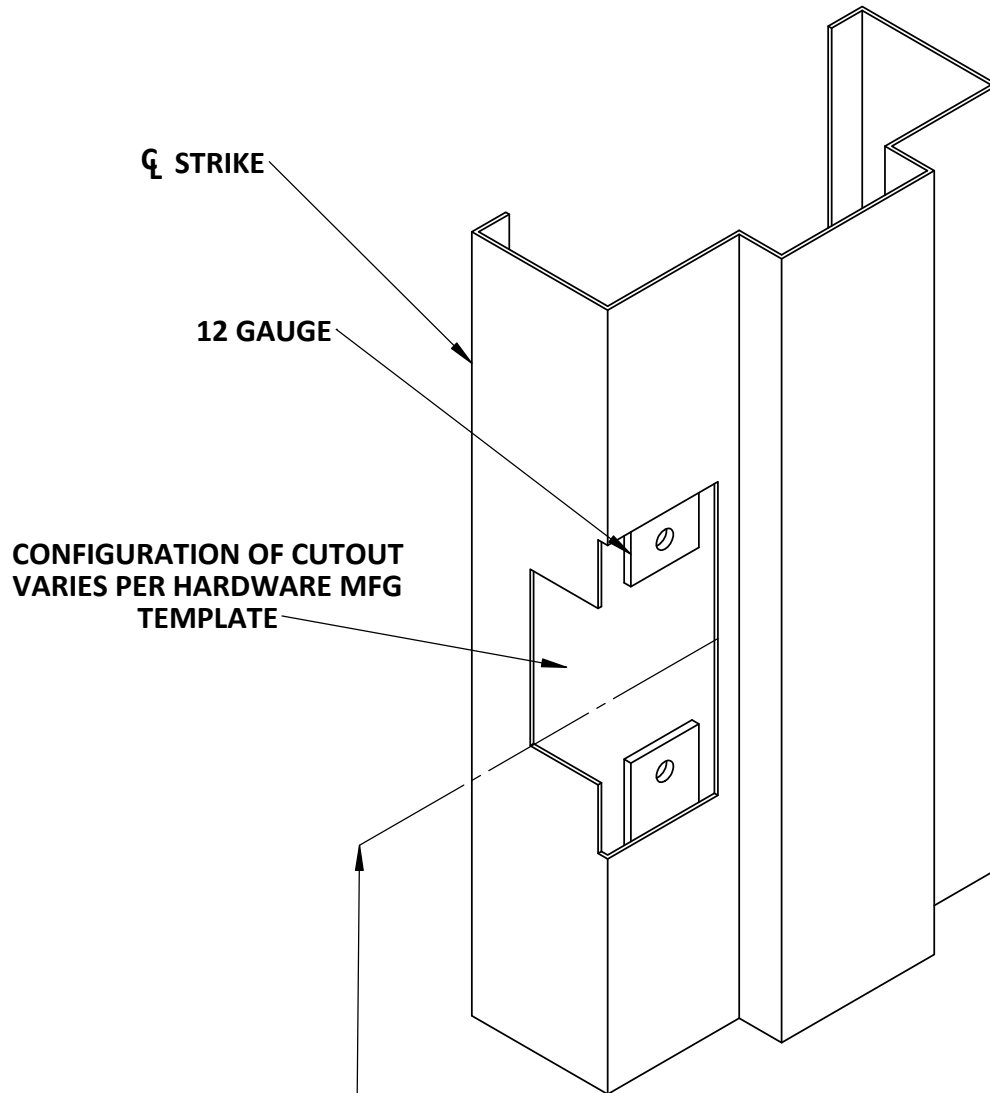
**SCREW HOLES ARE EXTRUDED TO PROVIDE
THREAD DEPTH EQUAL TO 12 GAUGE PLATE**

SIZE AND TAP PER ANSI 115.4



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FRAME DETAILS ELECTRIC STRIKE

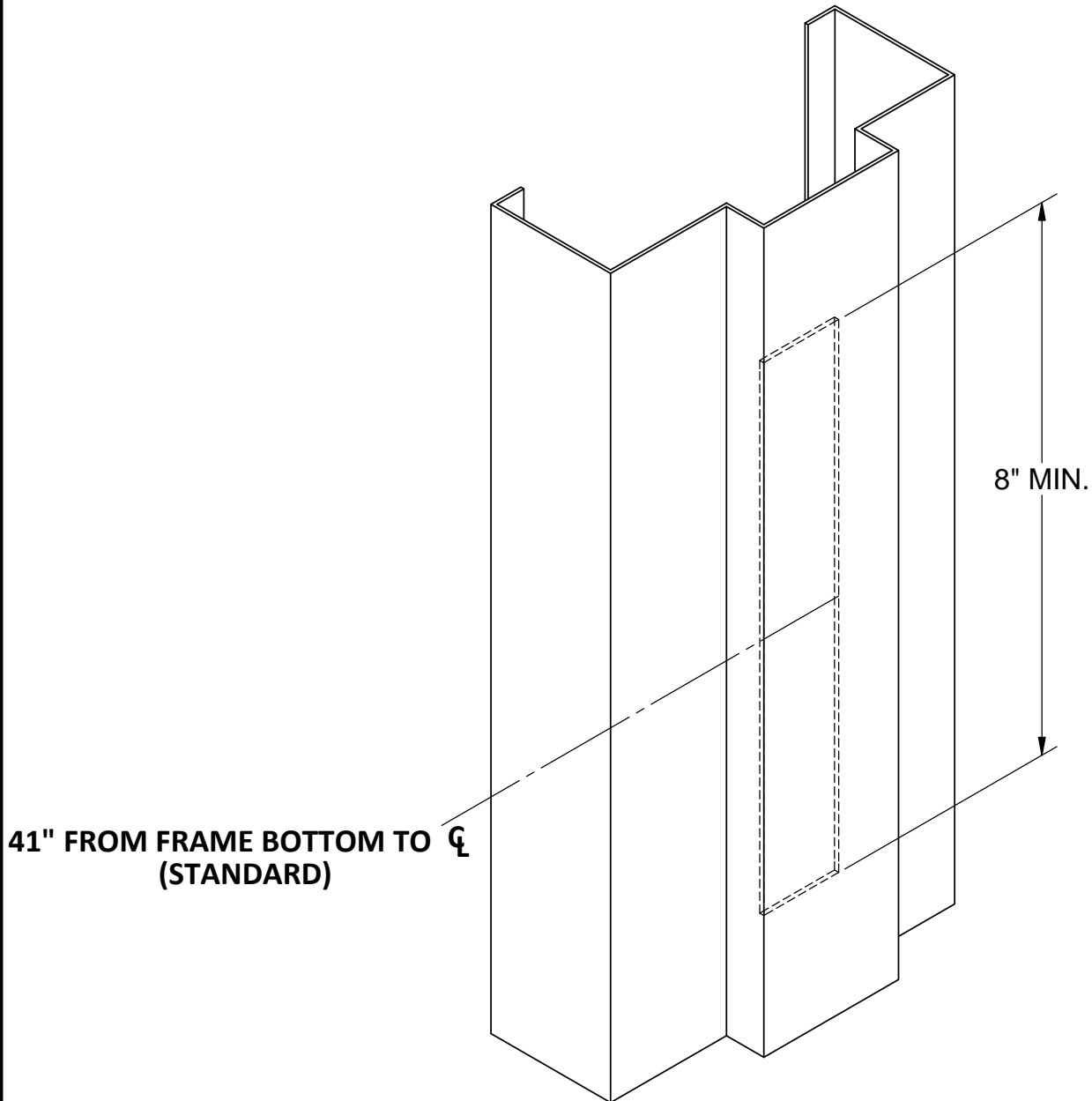


VERTICAL LOCATION OF ELECTRIC STRIKE WILL VARY WITH THE HARDWARE MANUFACTURER, WHEN ORDERING FRAMES PREPARED FOR AN ELECTRIC STRIKE, SPECIFY THE TYPE OF LOCK BEING USED ALONG WITH CENTERLINE DIMENSION REQUIRED OF THE LOCK.

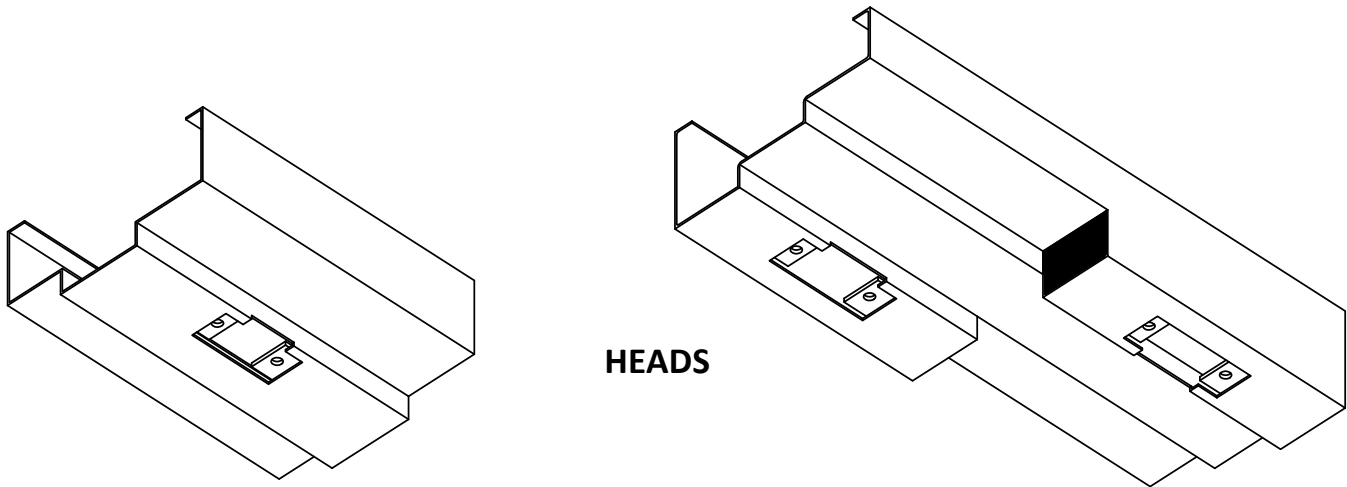
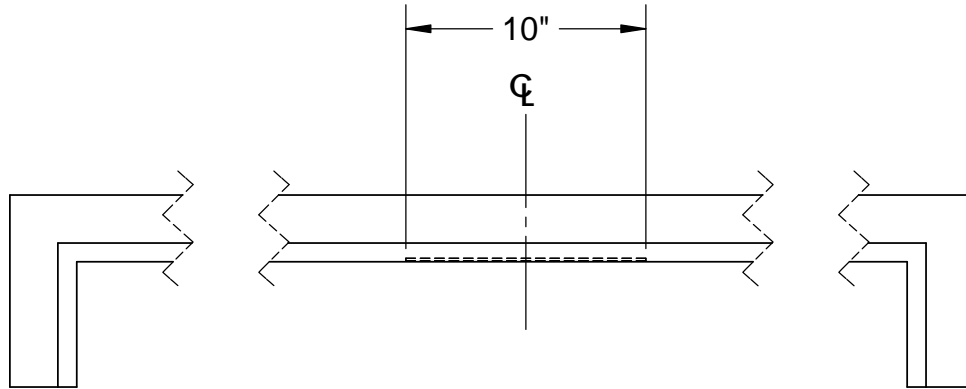


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FRAME DETAILS
RIM EXIT DEVICE STRIKE REINFORCEMENT



**FRAME DETAILS
SVR EXIT DEVICE STRIKE REINFORCEMENT / PREPARATION**



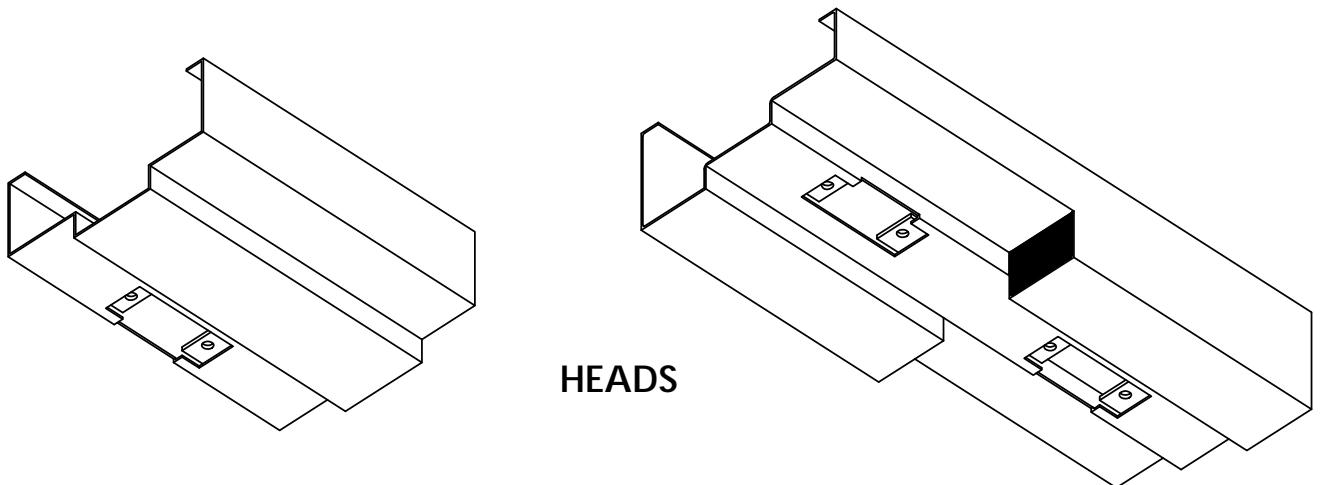
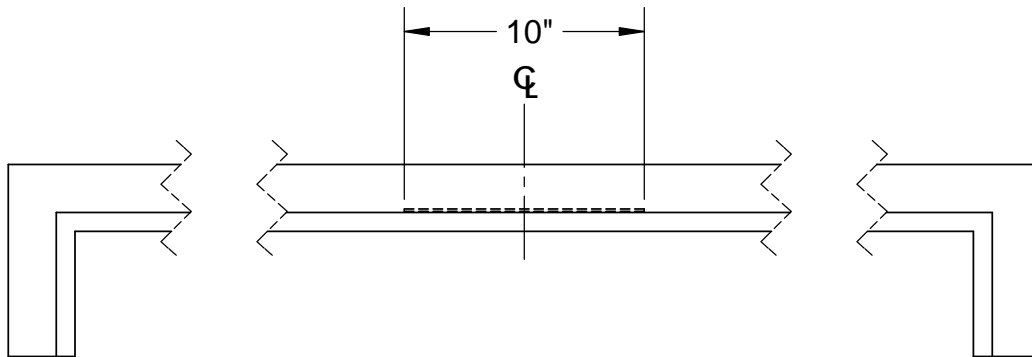
**PREPARED FOR MORTISE STRIKES PER
TEMPLATE OF HARDWARE MANUFACTURER**

**SPECIFY EXIT DEVICE AND STRIKE
BEING USED WHEN ORDERING**



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**FRAME DETAILS
CVR EXIT DEVICE STRIKE REINFORCEMENT / PREPARATION**



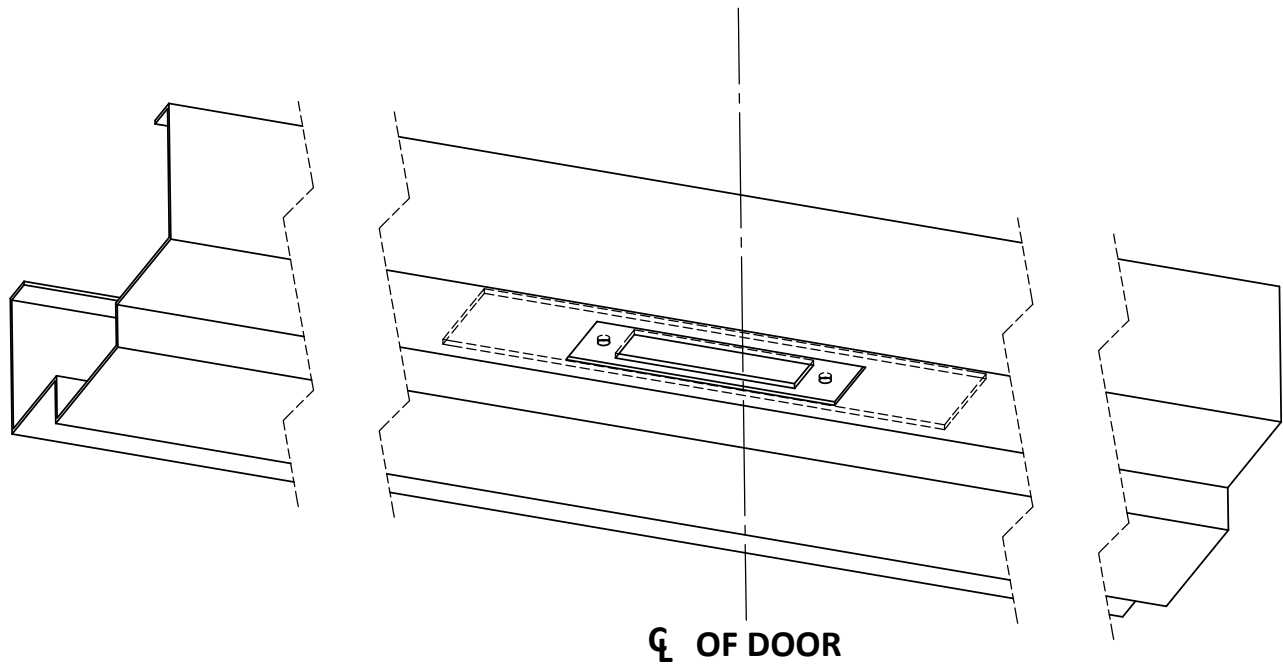
**PREPARED FOR MORTISE STRIKES PER
TEMPLATE OF HARDWARE MANUFACTURER**

**SPECIFY EXIT DEVICE AND STRIKE
BEING USED WHEN ORDERING**

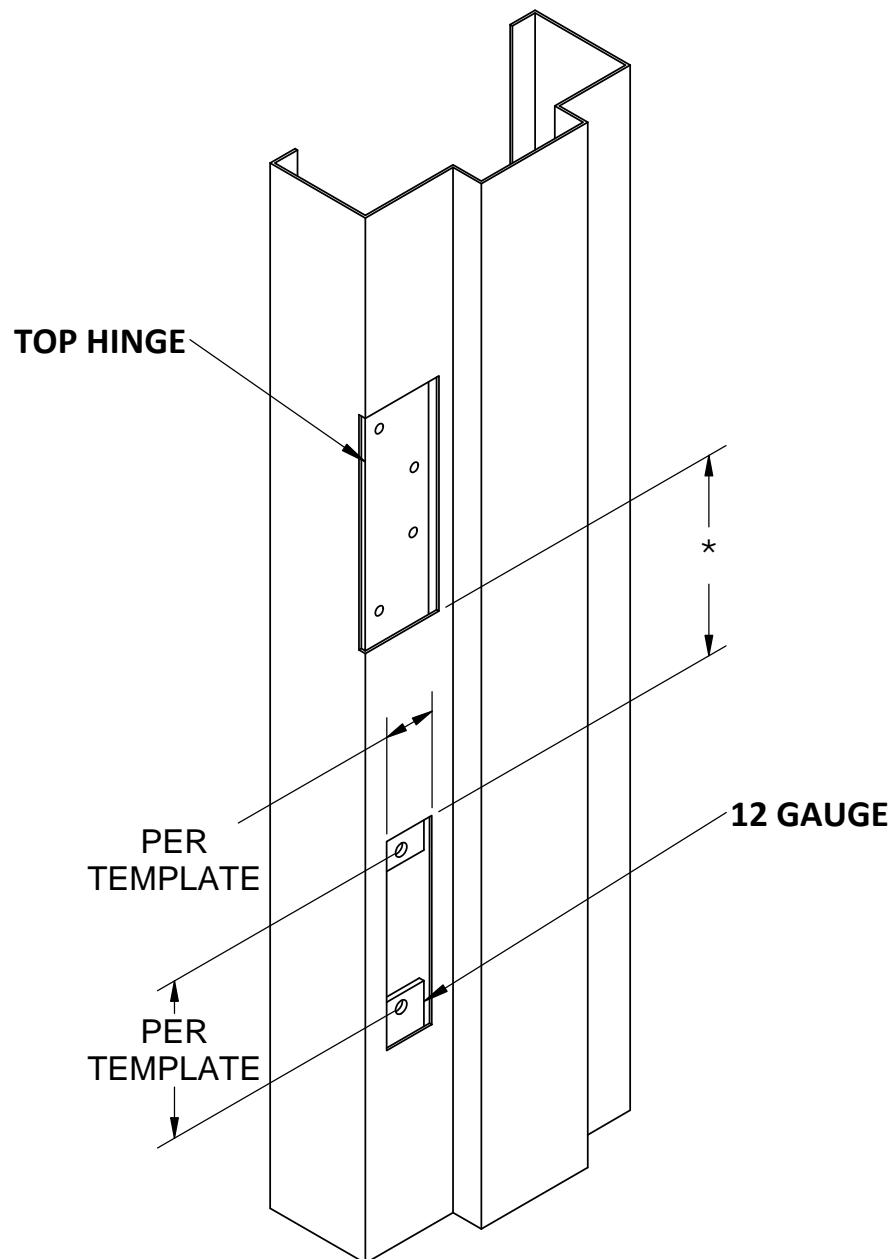


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FRAME DETAILS
FLUSHBOLT STRIKE PREPARATION

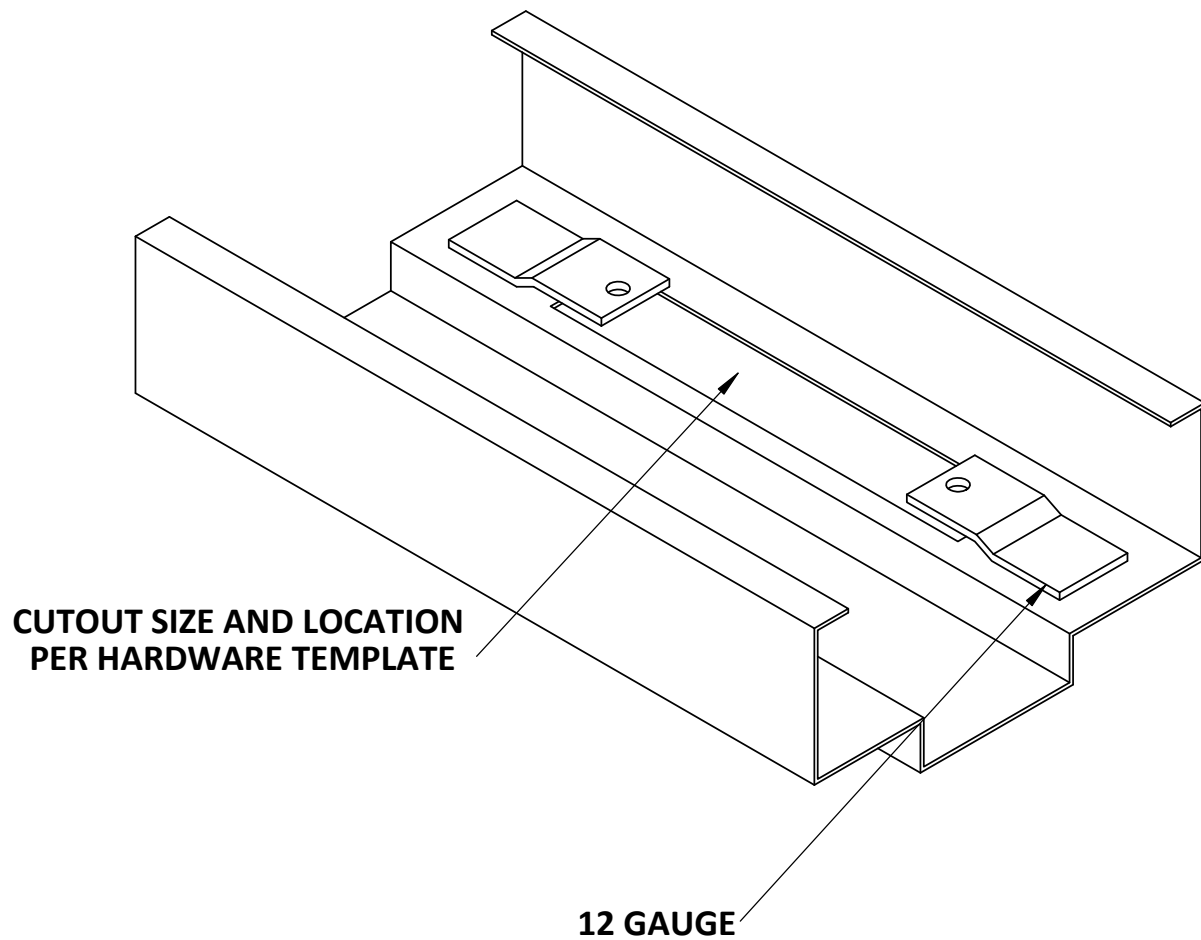


**FRAME DETAILS
ELECTRIC POWER TRANSFER (EPT)**



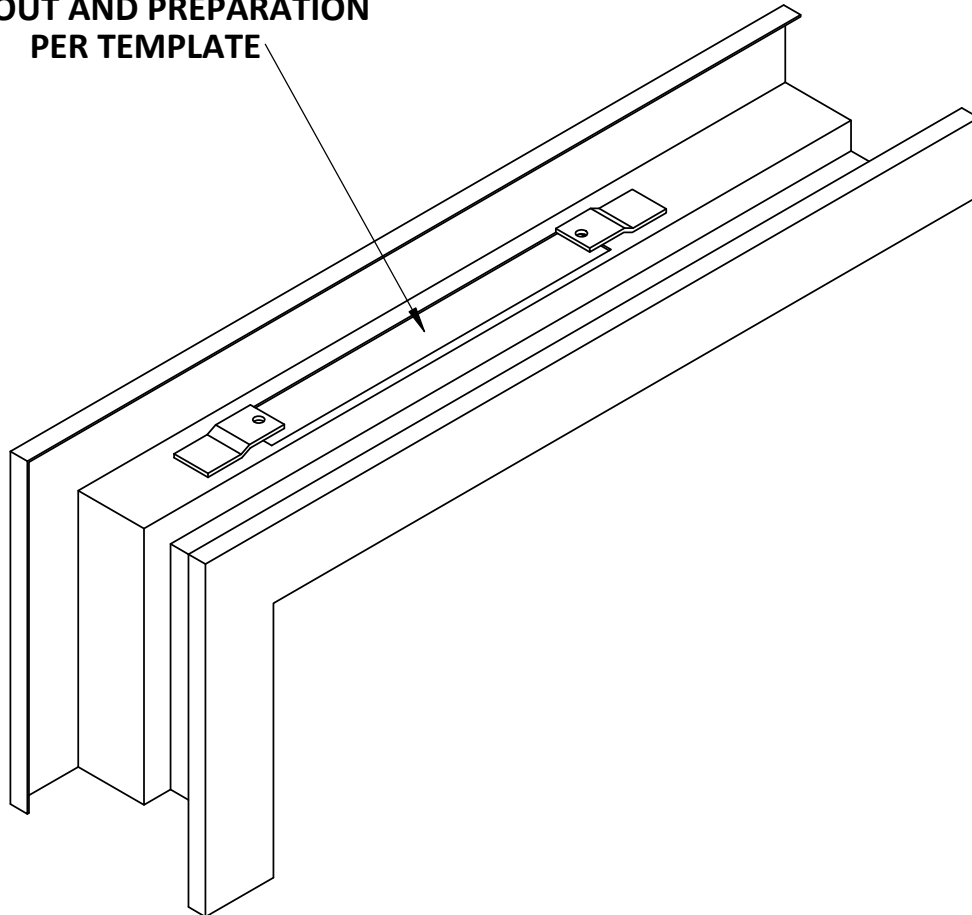
*** LOCATION PER TEMPLATE. IF NO LOCATION ON TEMPLATE, THEN LOCATION MUST BE SPECIFIED WITH ORDER. THE QUANTITY OF HINGES MAY REQUIRE COORDINATION OF LOCATION WITH DOOR, (EX. 4 HINGES ON A 7'0") WOOD DOORS MAY REQUIRE OTHER LOCATIONS.**

**FRAME DETAILS
CONCEALED DOOR POSITION SWITCH**



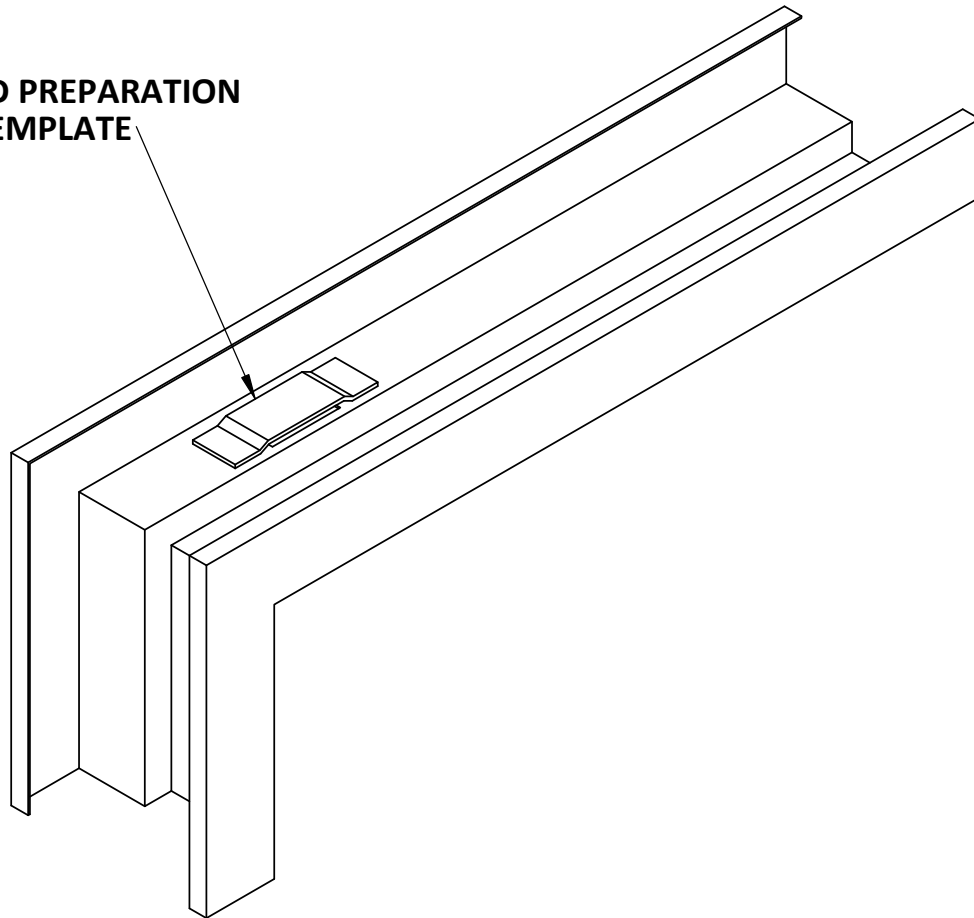
**FRAME DETAILS
CONCEALED CLOSER PREPARATION**

**CUT OUT AND PREPARATION
PER TEMPLATE**

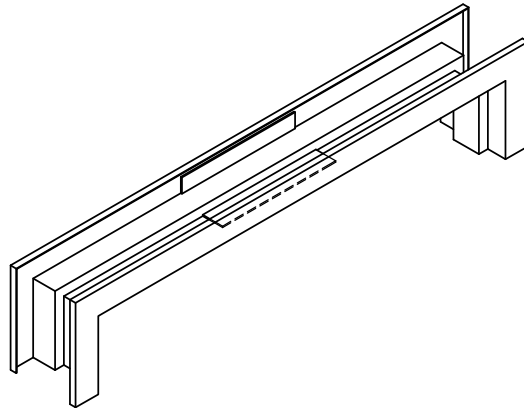
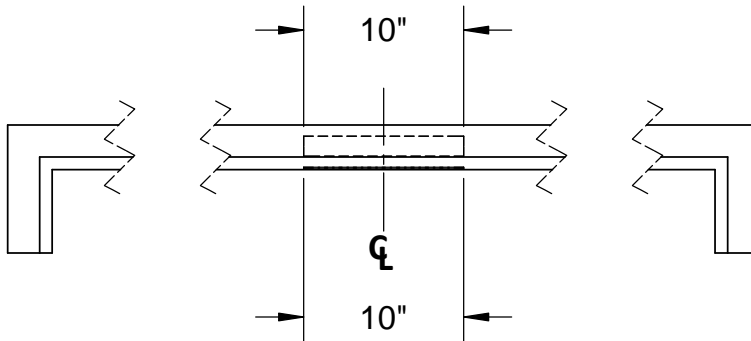


**FRAME DETAILS
CONCEALED STOP AND HOLDER**

**CUT OUT AND PREPARATION
PER TEMPLATE**

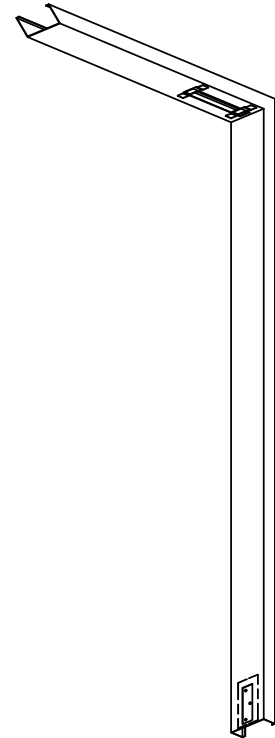


FRAME DETAILS
SURFACE BOLT STRIKE REINFORCEMENT



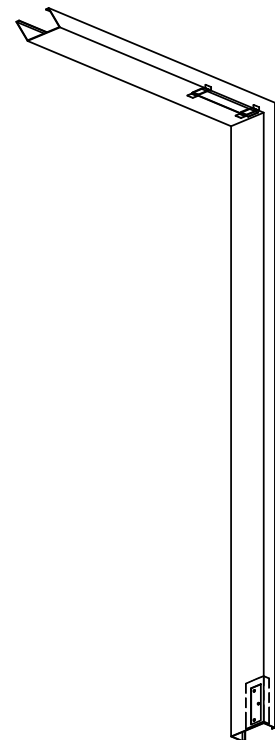
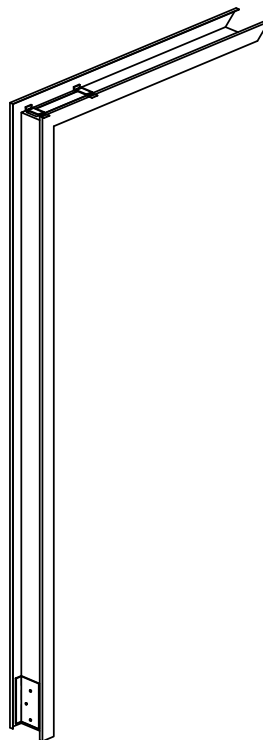
**FRAME DETAILS
PIVOTS- TOP AND BOTTOM**

CENTER HUNG



**SIZED, DRILLED, AND TAPPED
PER TEMPLATE**

EDGE HUNG

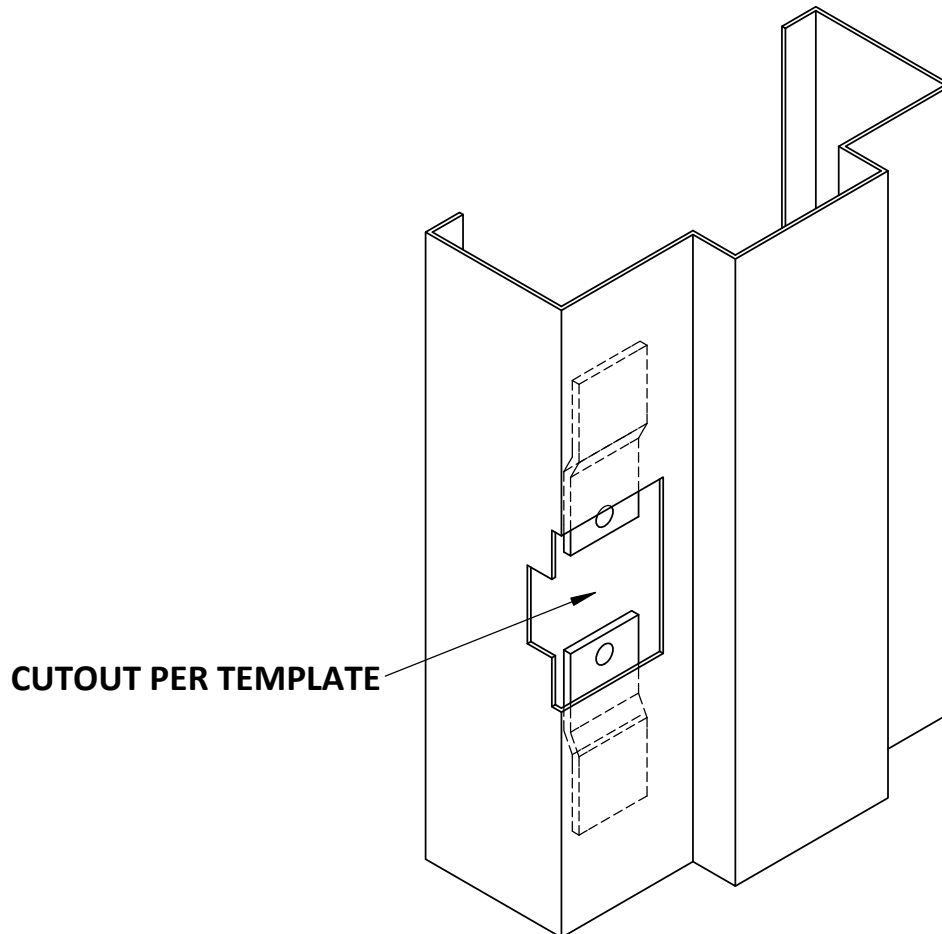


**SIZED, DRILLED, AND TAPPED
PER TEMPLATE**



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FRAME DETAILS
POCKET PIVOTS

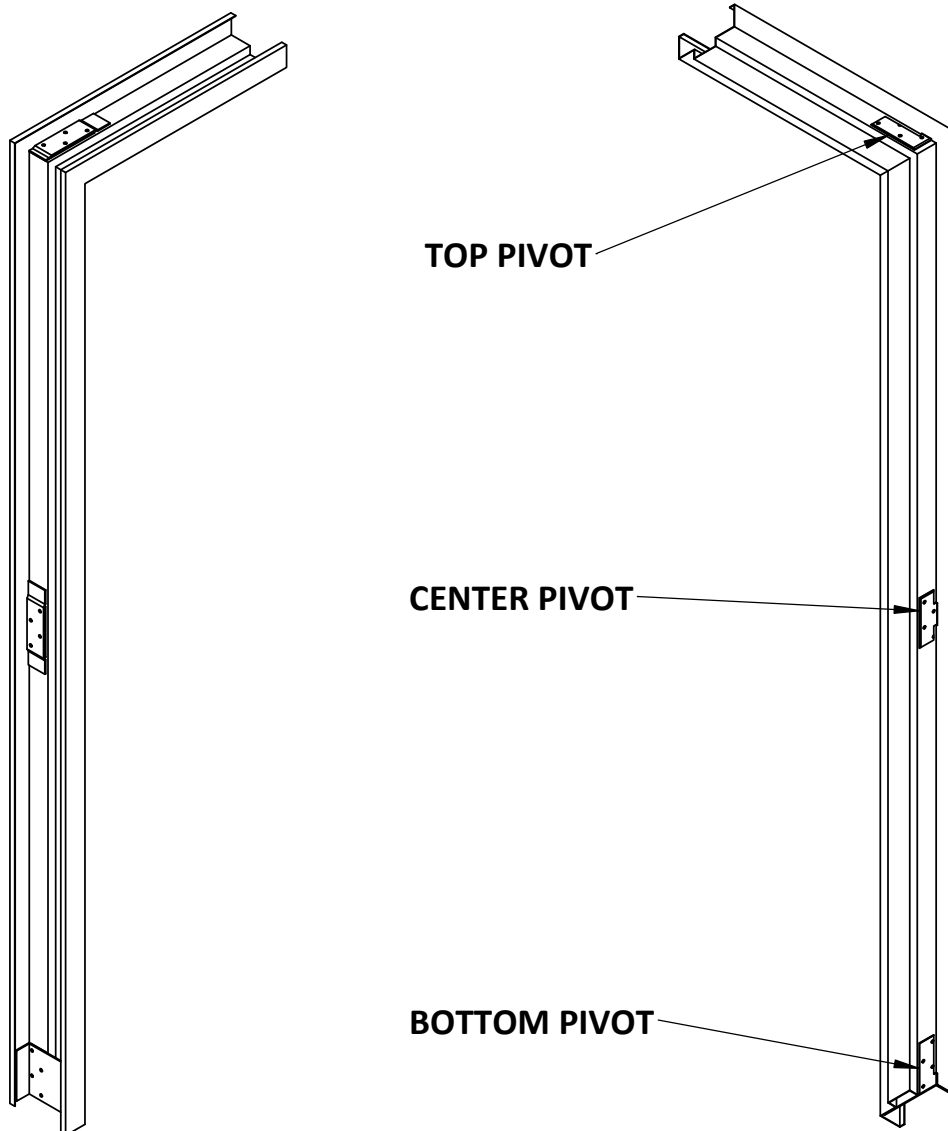


SIZE, DRILL, AND TAP PER TEMPLATE



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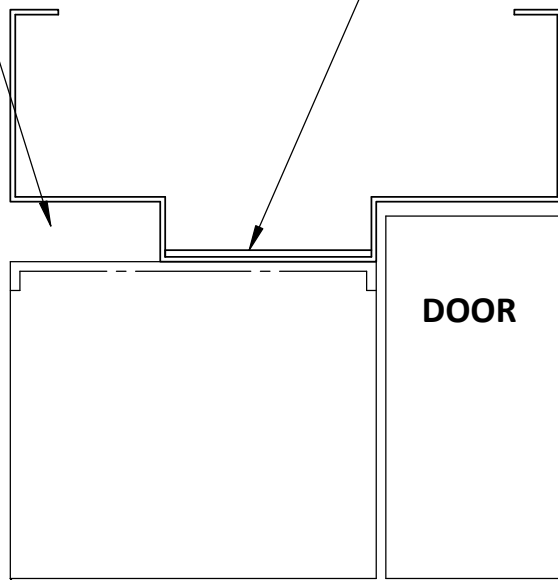
**FRAME DETAILS
OFFSET PIVOTS, TOP, CENTER, AND BOTTOM**



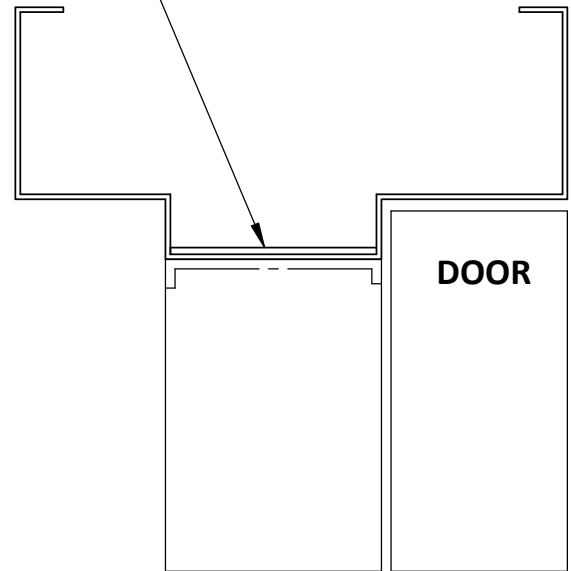
**FRAME DETAILS
REMOVABLE HARDWARE MULLION REINFORCEMENT**

FILLER BLOCK NOT INCLUDED

12 GAUGE REINFORCING PLATE



HARDWARE MULLION ASSEMBLY



HARDWARE MULLION ASSEMBLY



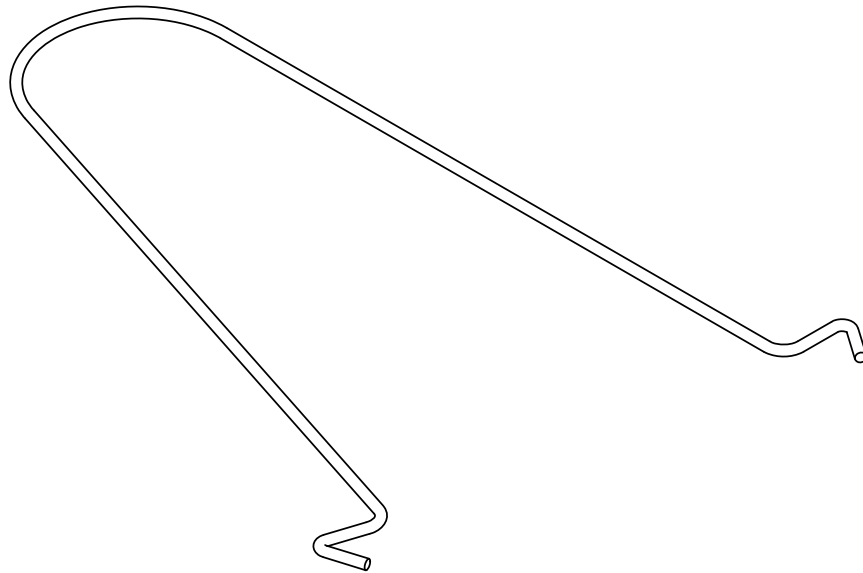
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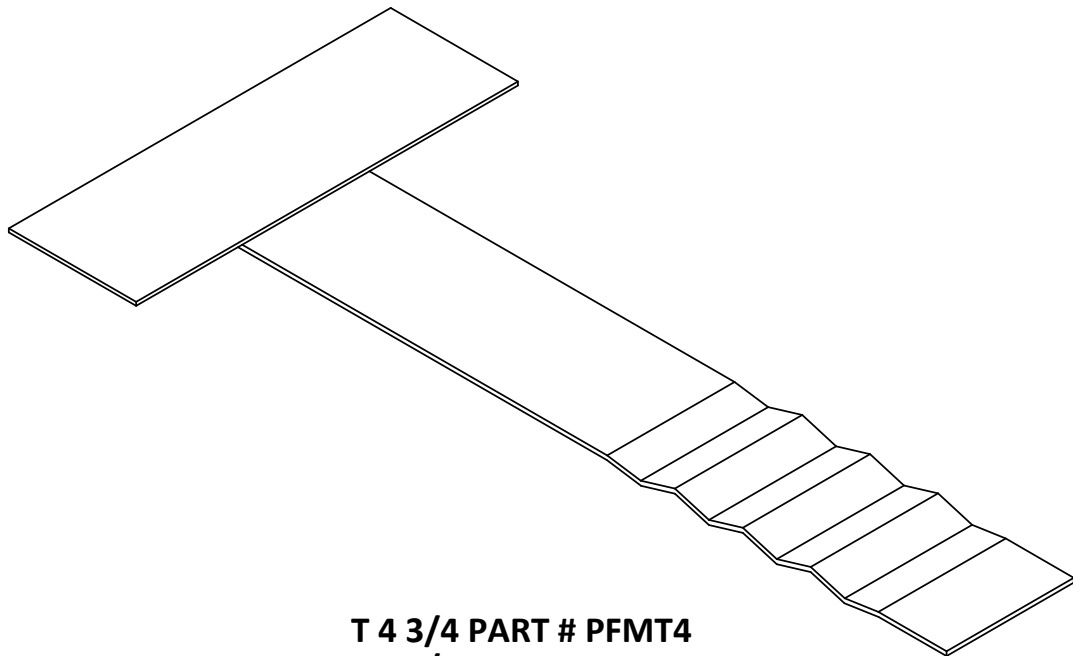
**PARTS - FRAME
MASONRY WIRE ANCHOR**



**PART # PFWA
MASONRY WIRE ANCHOR**



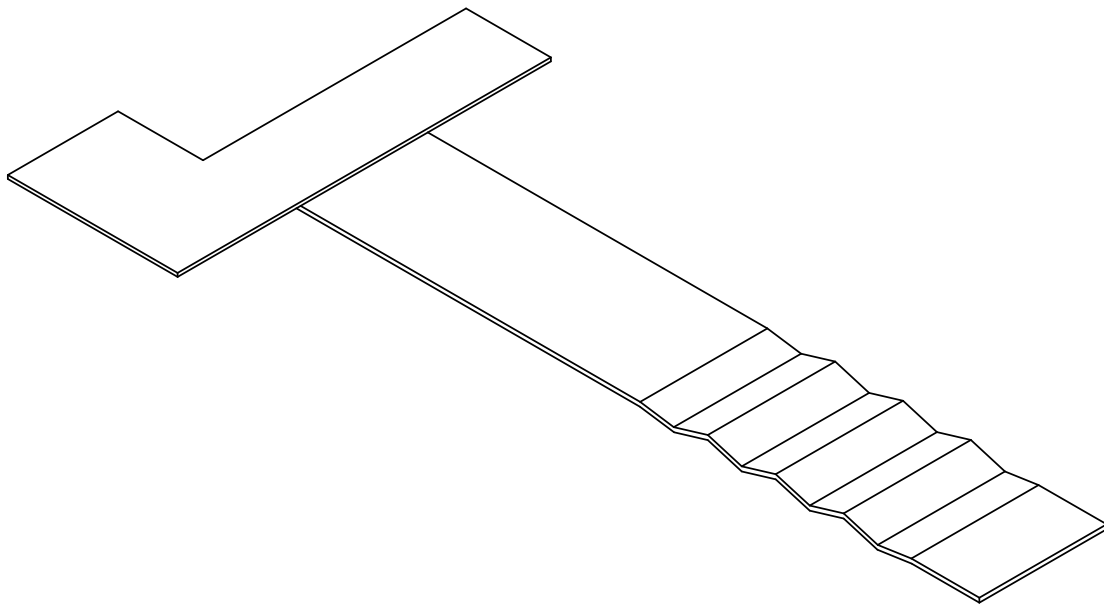
**PARTS - FRAME
MASONRY "T" ANCHOR**



**T 4 3/4 PART # PFMT4
T 5 3/4 PART # PFMT5
T 6 3/4 PART # PFMT6
T 7 3/4 PART # PFMT7
T 8 3/4 PART # PFMT8**



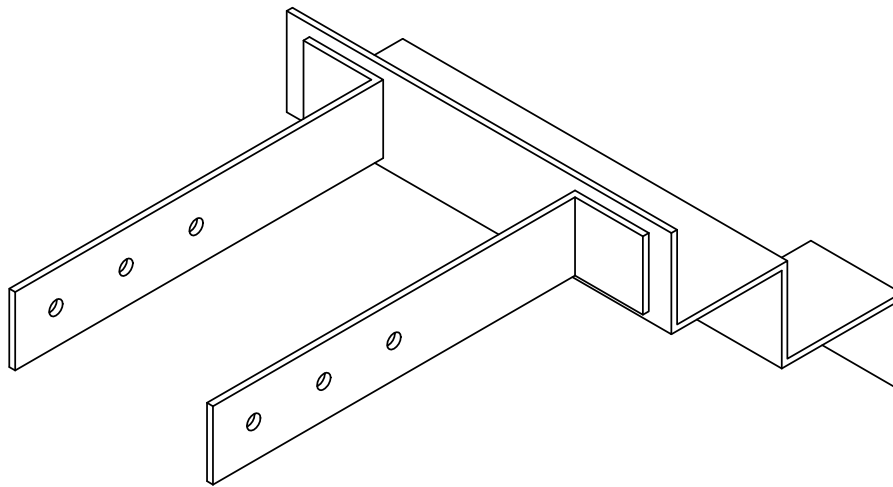
**PARTS - FRAME
MASONRY "T" ANCHOR**



T 5 3/4 DOUBLE EGRESS PART # PFDE684



PARTS - FRAME
MULTI-PURPOSE EGRESS ANCHOR

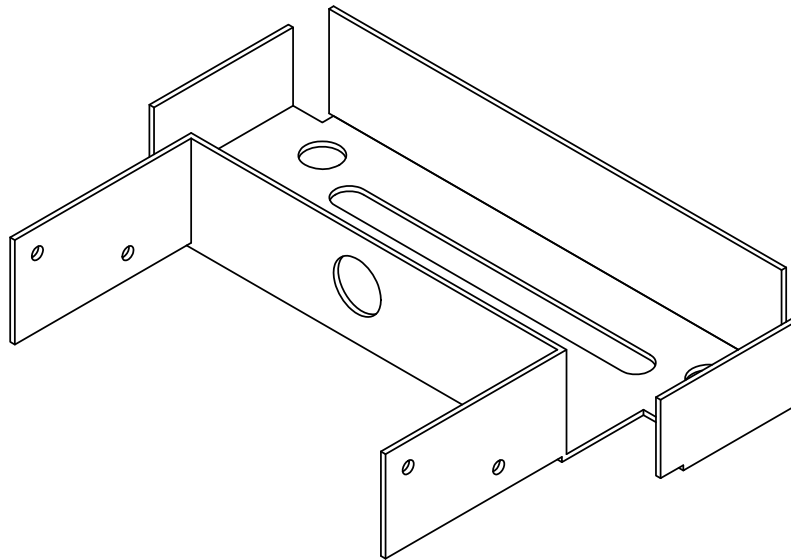


PART # PFDE680



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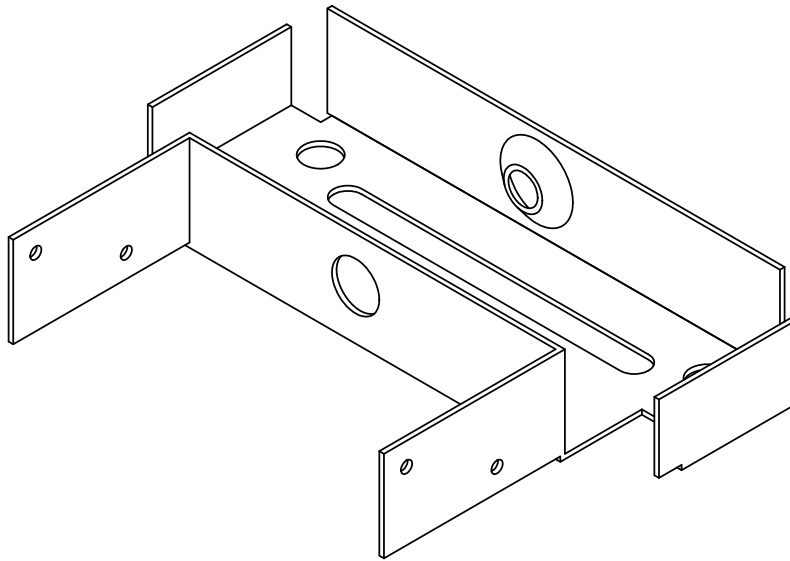
**PARTS - FRAME
UNIVERSAL ANCHOR**



4 3/4 PART # PFUA4
6 3/4 PART # PFUA6
7 1/4 PART # PFUA725
7 3/4 PART # PFUA7
8 1/4 PART # PFUA825
8 3/4 PART # PFUA8



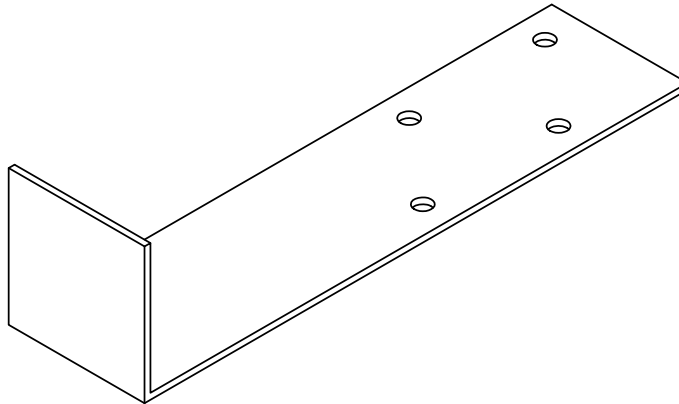
PARTS-FRAME
5 3/4" UNIVERSAL ANCHOR



5 3/4" PART # PFUA5



PARTS - FRAME
WOOD STUD STRAP ANCHOR

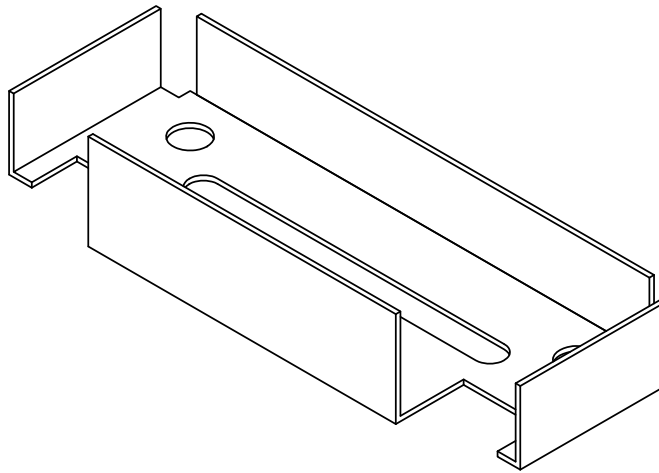


PART # PFWSSA



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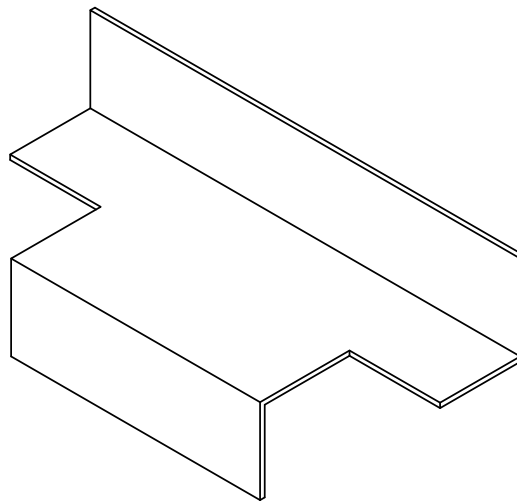
PARTS - FRAME
STEEL STUD ANCHOR 5 3/4



PART # PFSSA5



**PARTS - FRAME
ZEE ANCHOR**

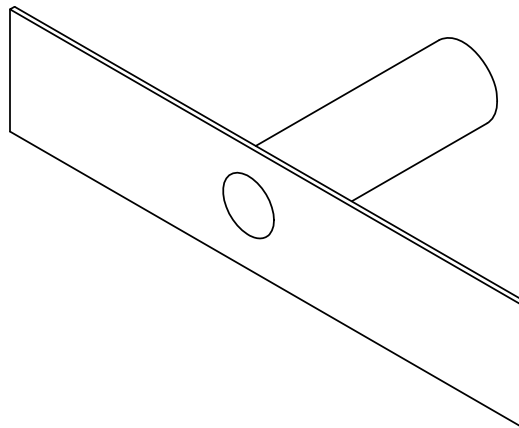


**4 3/4" PART # PFZA475
5 3/4" PART # PFZA575
6 3/4" PART # PFZA675
7 3/4" PART # PFZA775
8 3/4" PART # PFZA875**



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**PARTS - FRAME
TUBE**



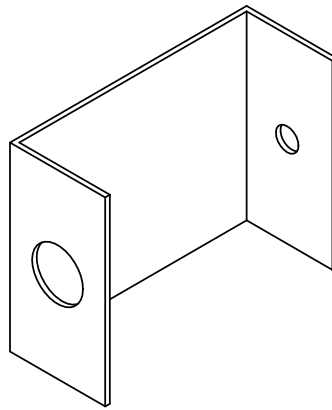
PART # PFMTA

CUT TO MATCH JAMB DEPTH BY OTHERS



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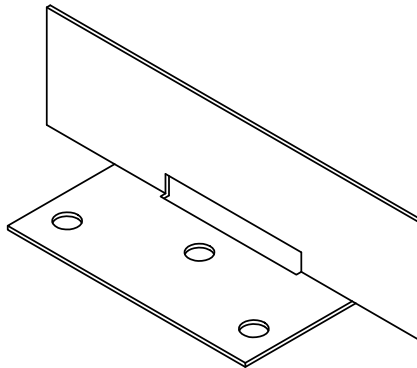
**PARTS - FRAME
AEW**



PART # PFAEW



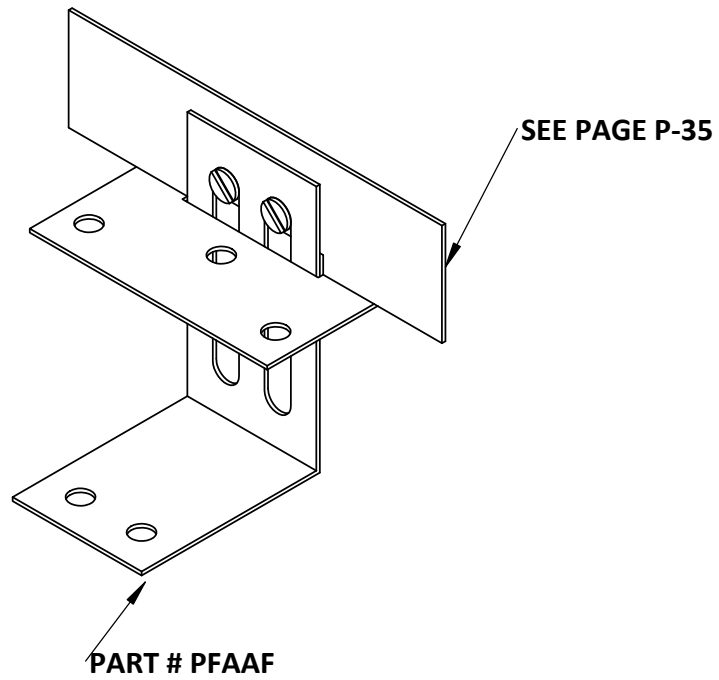
**PARTS - FRAME
SILL ANCHOR**

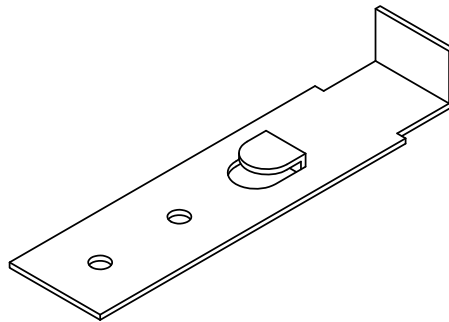


**4 3/4" PART # PFSA4
5 3/4" PART # PFSA5
6 3/4" PART # PFSA6
7 3/4" PART # PFSA7
8 3/4" PART # PFSA8**

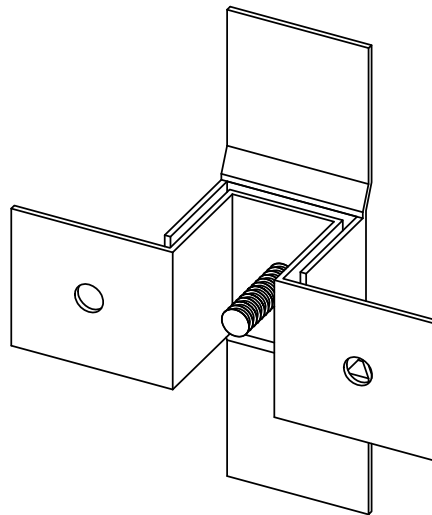


PARTS - FRAME
ADJUSTABLE FLOOR ANCHOR (4 3/4 THRU 8 3/4)



PARTS - FRAME**DRYWALL SNAP IN ANCHOR (2 NEEDED PER JAMB)****PART # PFDSNA**

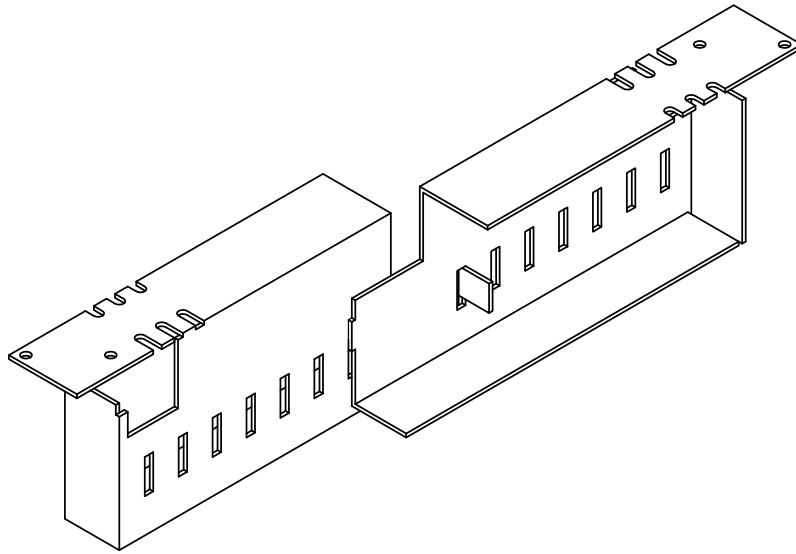
PARTS - FRAME
DRYWALL COMPRESSION ANCHOR



PART # PFDCA



**PARTS - FRAME
ADJUSTABLE ANCHOR (110) (380) & (380A)**

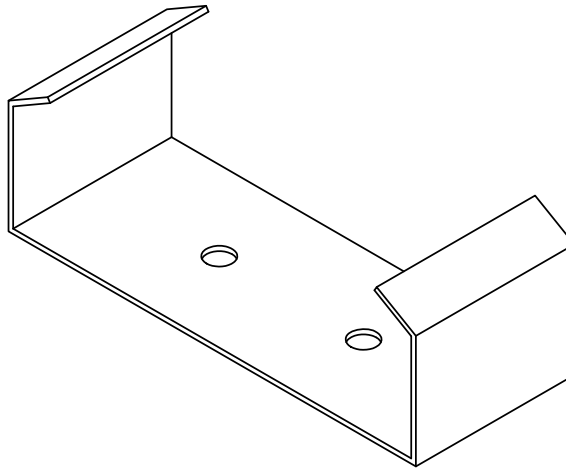


**4 3/4" - 6 3/4" PART # PFA110
5 3/4" - 8 3/4" PART # PFA380
7" - 12" PART # PFA380A**



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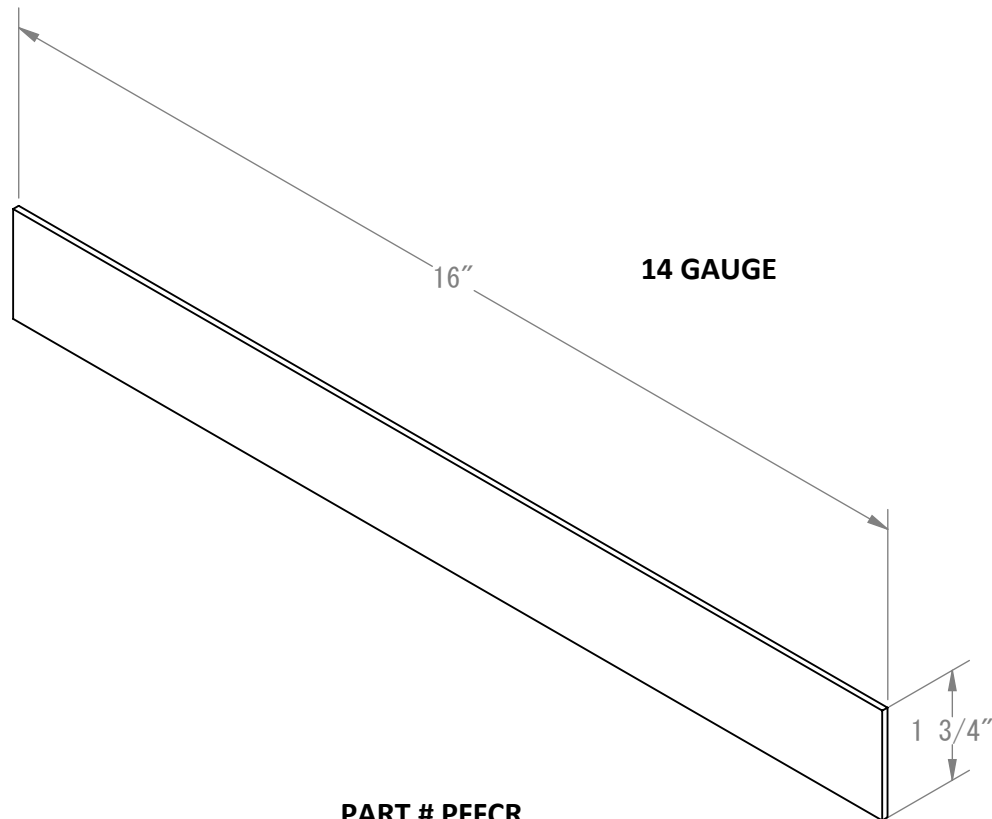
**PARTS - FRAME
MULLION ANCHOR**



**4 3/4" PART # PFMUA4
5 3/4" PART # PFMUA5
6 3/4" PART # PFMUA6
7 3/4" PART # PFMUA7
8 3/4" PART # PFMUA8**



PARTS - FRAME
CLOSER REINFORCEMENT FRAME FACE (CRF)

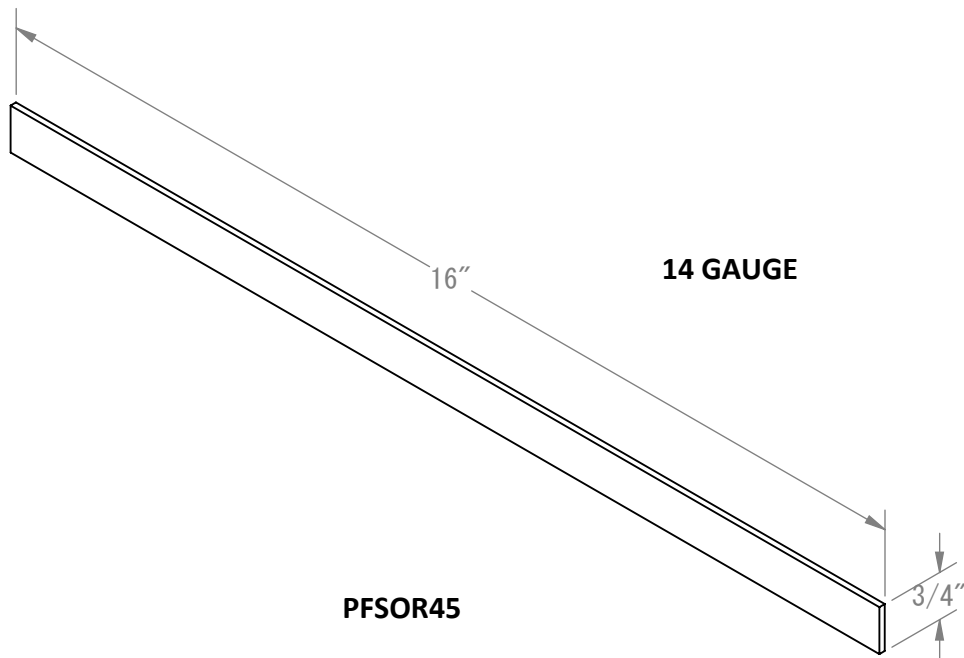


PART # PFFCR

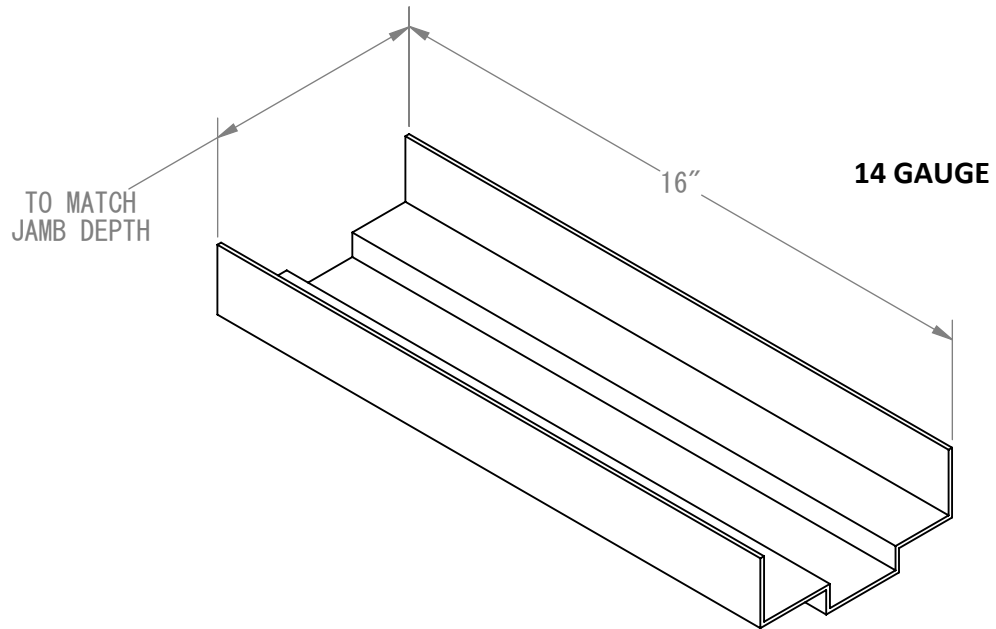


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PARTS - FRAME
CLOSER REINFORCEMENT 4 1/2" FRAME (CRB)



PARTS - FRAME
CLOSER SLEEVE (SPECIFY PROFILE)

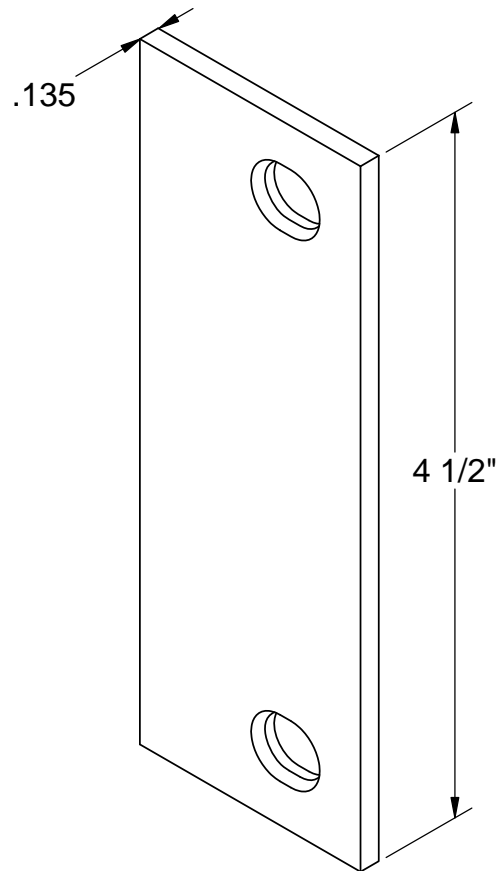


4 3/4" PART # PFSCR47
5 3/4" PART # PFSCR57
5 5/8" PART # PFSCR56
5 7/8" PART # PFSCR58
6 3/4" PART # PFSCR67
8 1/4" PART # PFSCR82
8 3/4" PART # PFSCR87



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PARTS - FRAME
FRAME FILLER PLATE

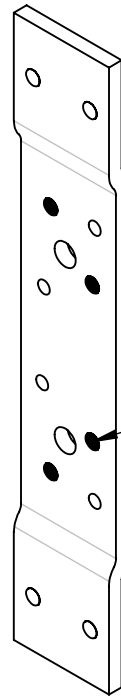


PART # PF402



**PARTS - FRAME
HINGE REINFORCEMENT**

7 GAUGE



**GRIND OFF FOR
HEAVY WEIGHT**

3 1/2" PART # PF3HR

4 1/2" PART # PF4HR

5" PART # PF5HR

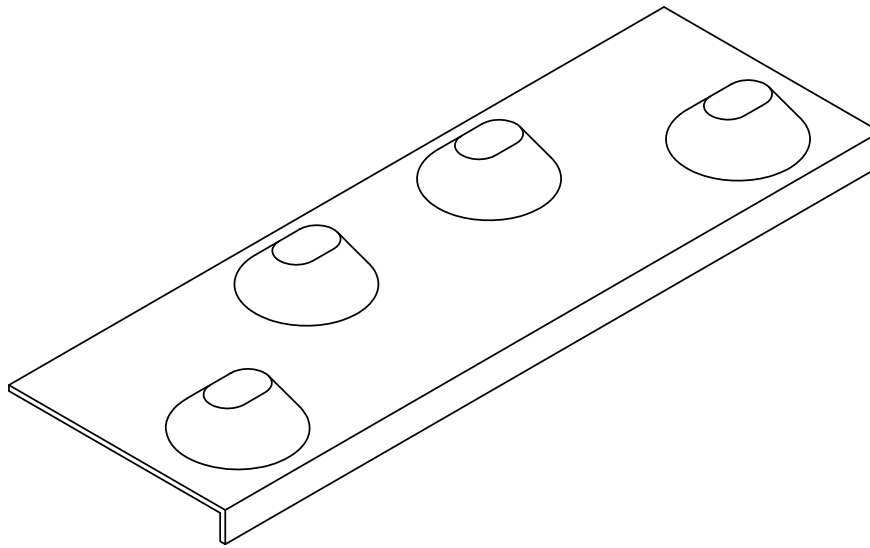
4 1/2" HEAVY WEIGHT PART # PF4HHR

5" HEAVY WEIGHT PART # PF5HHR



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PARTS - FRAME
HINGE PLASTER GUARD

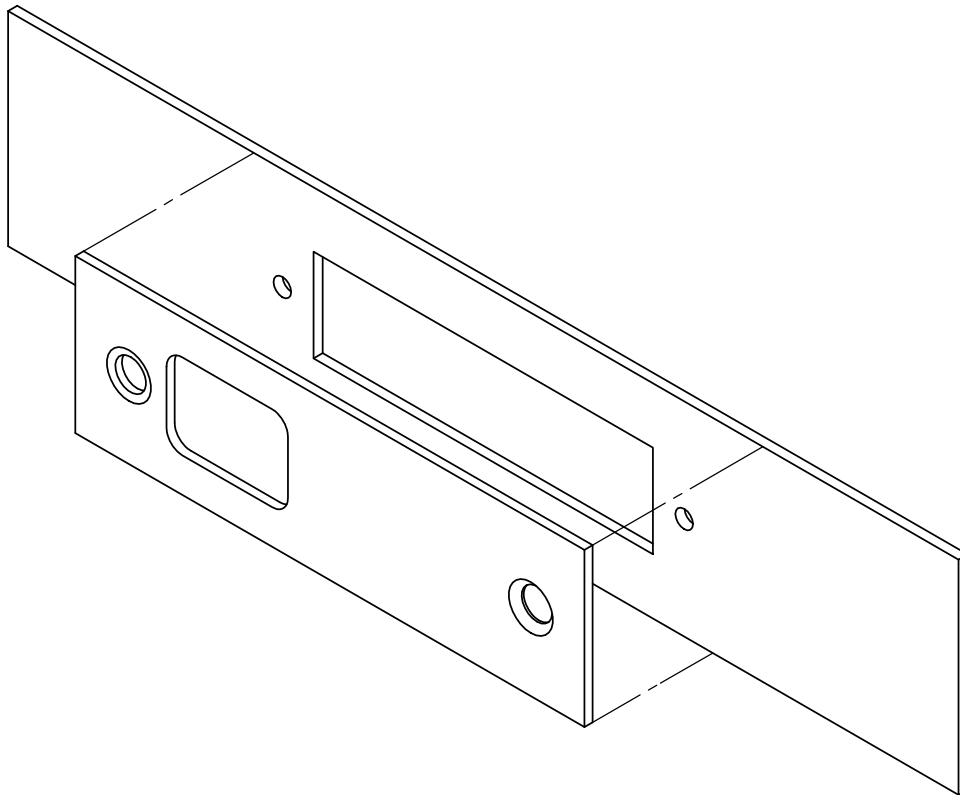


3 1/2" PART # PF3PG
4 1/2" PART # PF4PG



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PARTS - FRAME
REVERSIBLE FLUSH BOLT STRIKE AND REINFORCEMENT

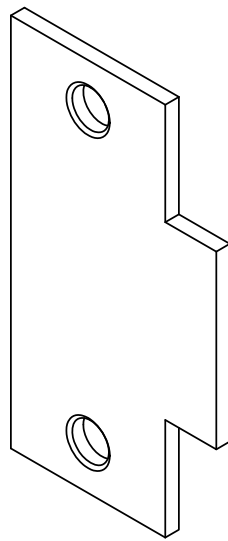


PART # PFFBREV

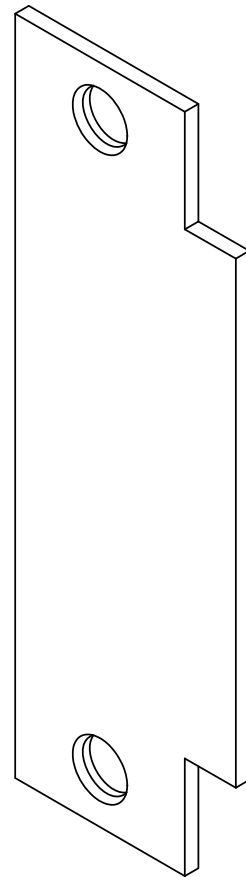


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**PARTS - FRAME
STRIKE FILLER**



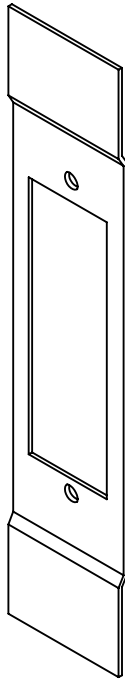
2 3/4" PART # PFFCS



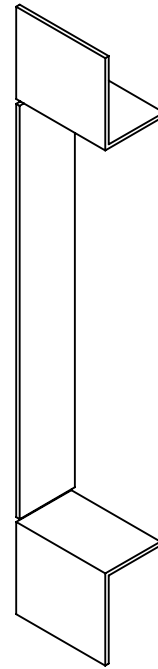
4 7/8" PART # PFFUS



PARTS - FRAME
U STRIKE (ASA) REINFORCEMENT AND PLASTER GUARD



PART # PFSRU

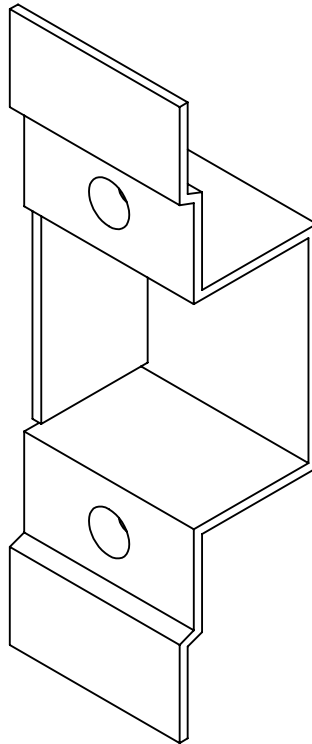


PART # PFUPG

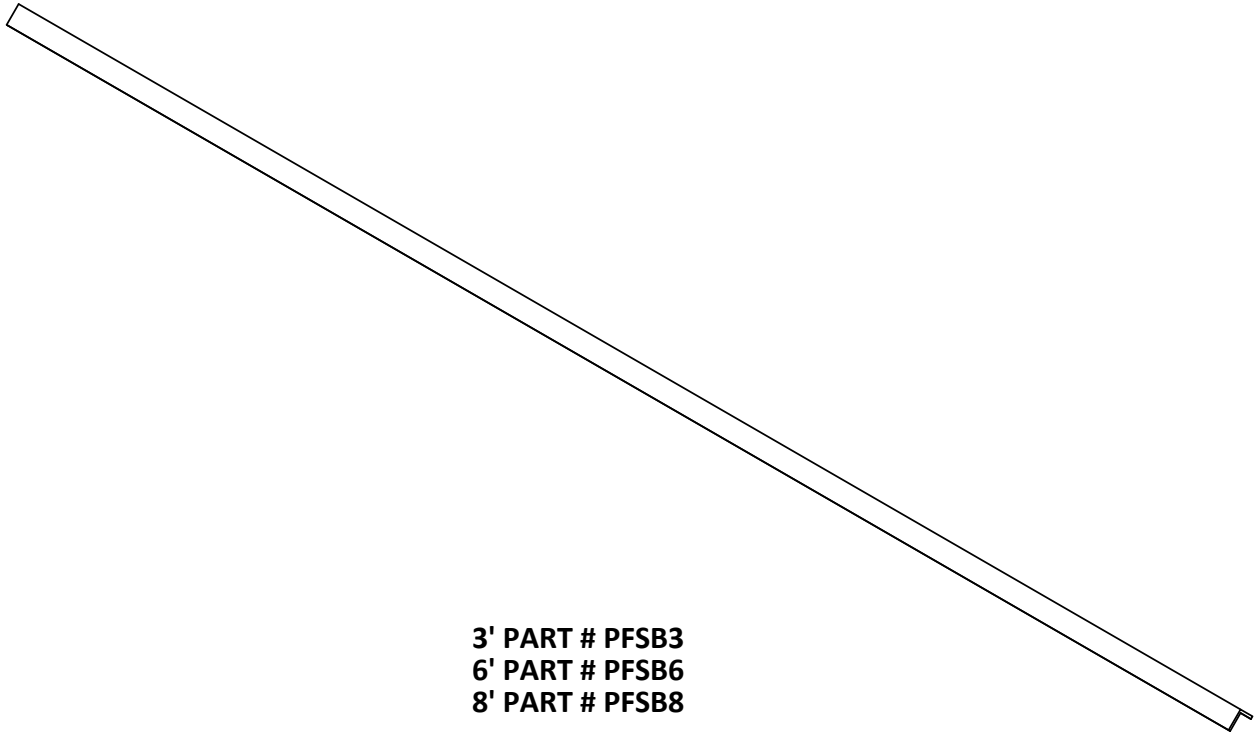
14 GAUGE



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PARTS - FRAME**C STRIKE (T) REINFORCEMENT WITH PLASTER GUARD****PART # PFSRC****14 GAUGE****MESKER™**
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**PARTS - FRAME
SPREADER BAR**

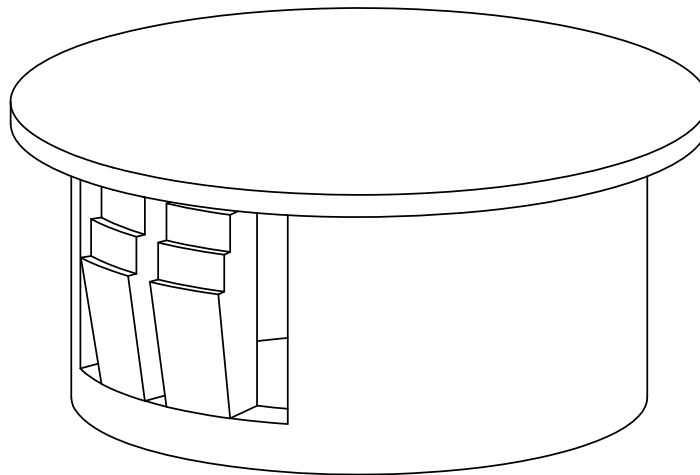


3' PART # PFSB3
6' PART # PFSB6
8' PART # PFSB8



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PARTS - FRAME
PLASTIC PLUG FOR UNA 5 3/4"

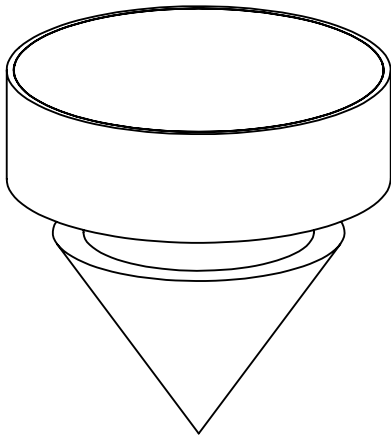


PART # PFPP

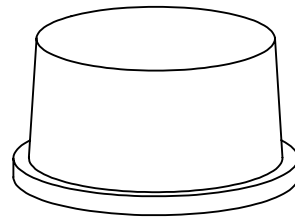


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**PARTS - FRAME
MUTES**



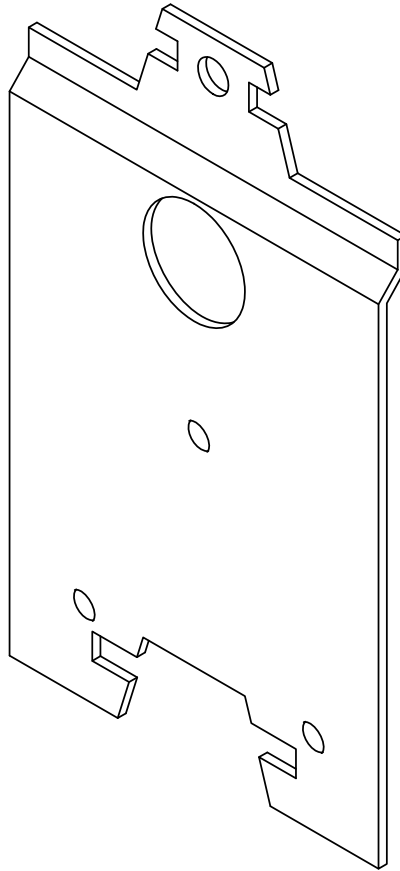
PUSH THROUGH PART # PFPTM



STICK ON PART # PFSOM

**DOUBLE HEADERS AND MULLIONS ARE NOT DRILLED
THEREFORE STICK-ON MUTES ARE RECOMMENDED.**

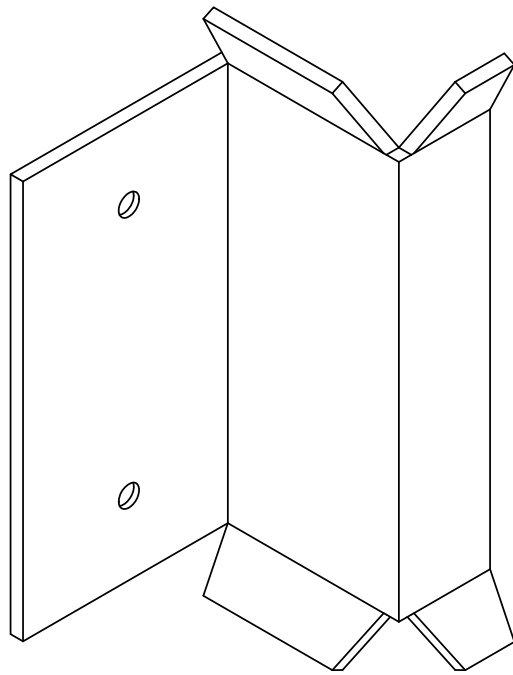
PARTS - FRAME
CORNER FRAME TAB



PART # PFTAB



**PARTS - FRAME
MULLION CLIP**



PART # PFMC



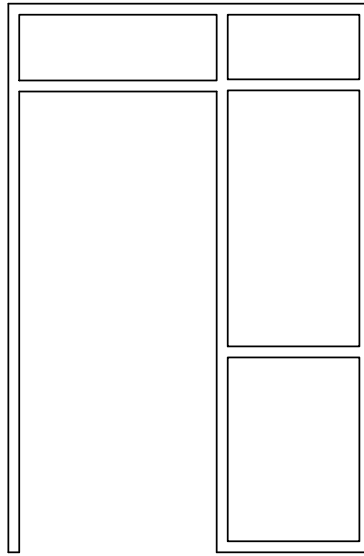
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STICK AND MULLION HOW TO ORDER



1 2 3 4 5 6 7 8 9 10

1 STICK DESIGNATION
S - STICK
M - MULLION

7 LENGTH
107 - 10' 7"

2 METAL TYPE
LEAVE BLANK - COLD ROLLED
Z - GALVANNEALED
G90 - GALVANIZED (G90)

8 HAND
R - RIGHT
L - LEFT

3 PREP SIDE AND GAUGE
4 - PREP ON 400 SIDE
8 - PREP ON 800 SIDE
THEN DESIGNATE GAUGE

9 FACE
W4F - 4"
W6F - 6"
W1 1/2F - 1 1/2"
LEAVE BLANK - 2"

4 JAMB DEPTH

10 PROFILE
DE - DOUBLE EGRESS
ER - EQUAL RABBIT
SR - SINGLE RABBIT
COS - CASSED OPEN
LEAVE BLANK - UNEQUAL RABBIT

5 STICK TYPE
BS - BLANK STICK BM - BLANK MULLION
HS - HINGE STICK HM - HINGE MULLION
SS - STRIKE STICK SM - STRIKE MULLION
CS - CASSED OPEN CM - CASSED OPEN
HA - HAT HAC - CASSED OPEN HAT

6 HINGE PREP LAYOUT
68 - 6'8"
70 - 7'0"
80 - 8'0"
...

**USE THE APPROPRIATE SYMBOL AS DESIGNATED
ABOVE FOR POSITIONS 1 THRU 10.**

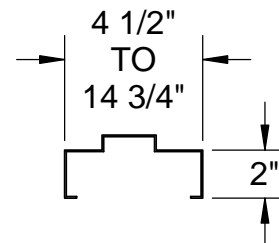
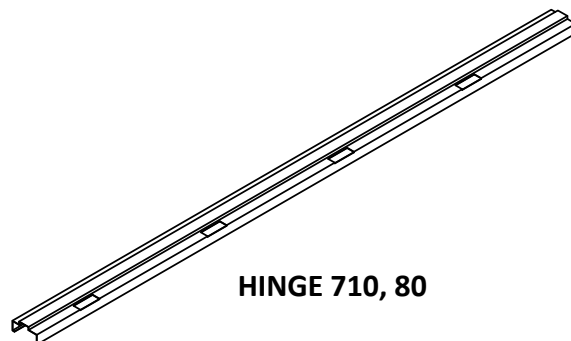
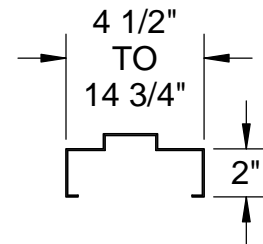
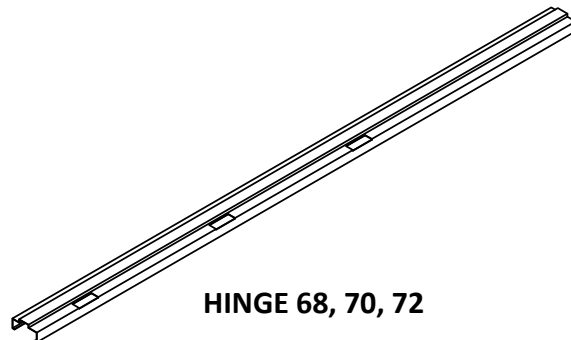
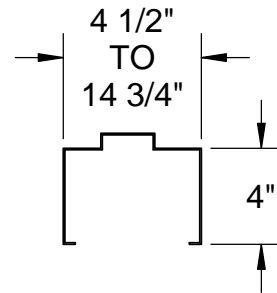
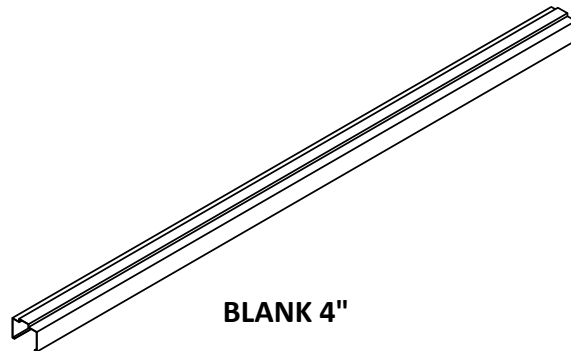
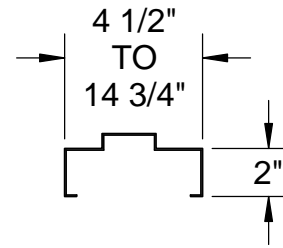
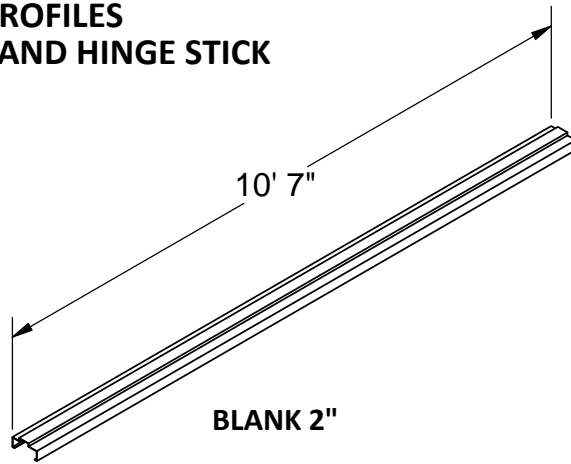
EXAMPLE

S	Z	416	5 3/4	HS	70	107	R	W4F	SR
1	2	3	4	5	6	7	8	9	10

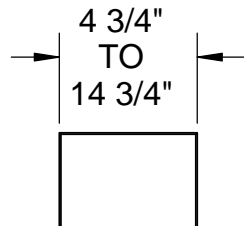
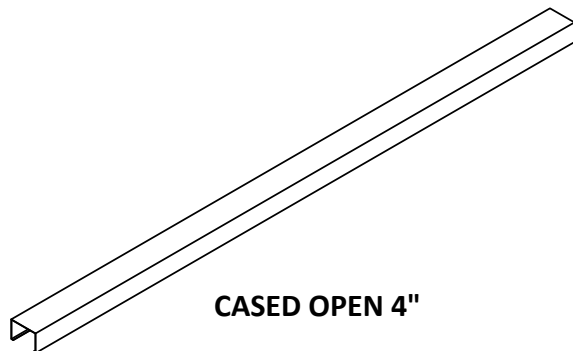
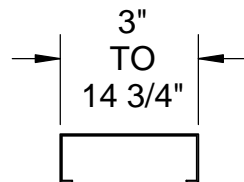
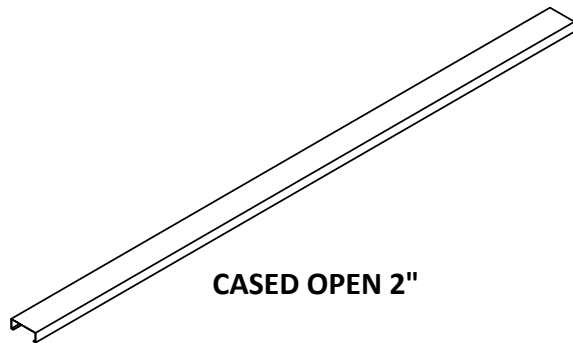
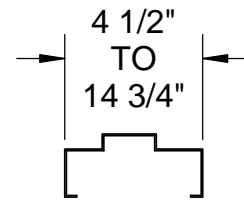
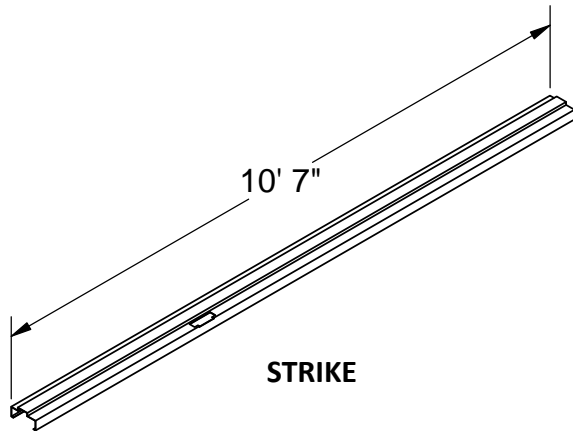


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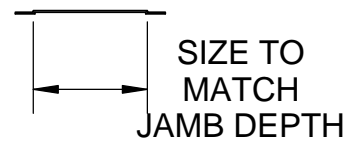
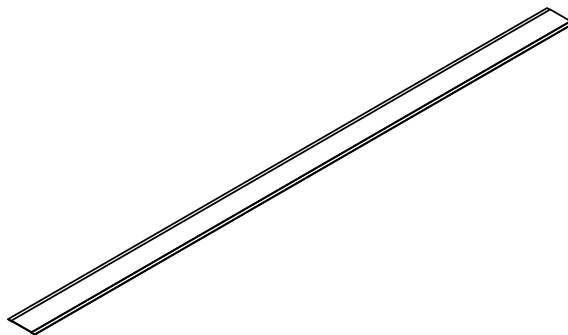
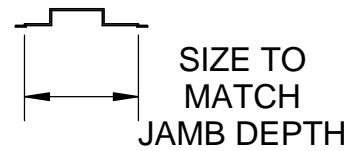
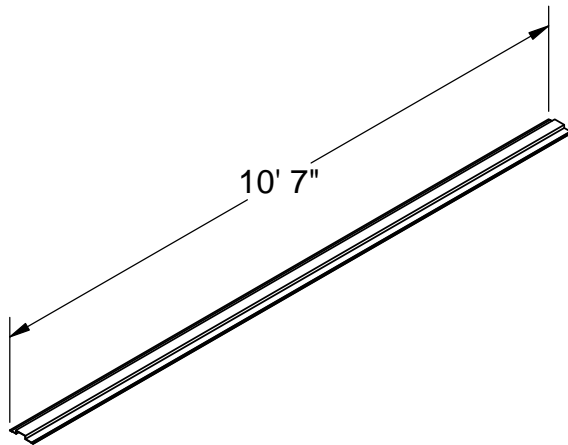
**STICK PROFILES
BLANK AND HINGE STICK**



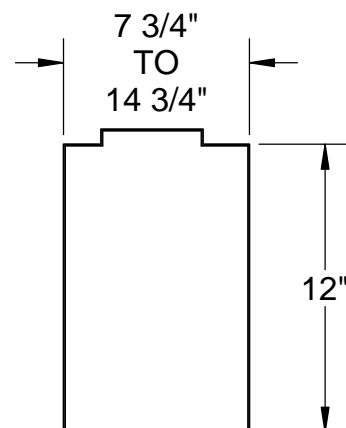
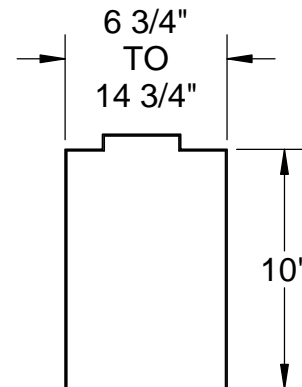
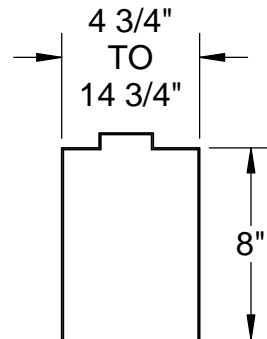
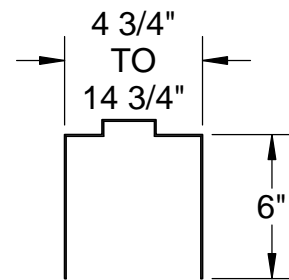
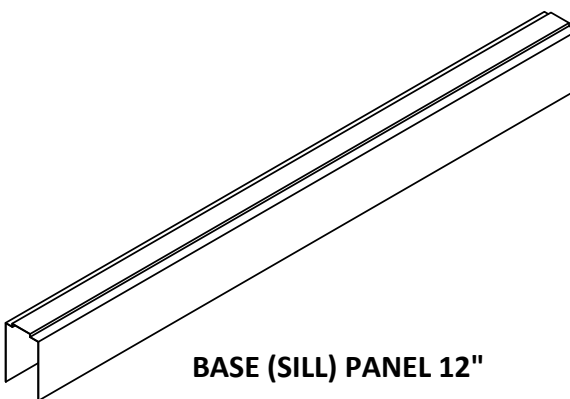
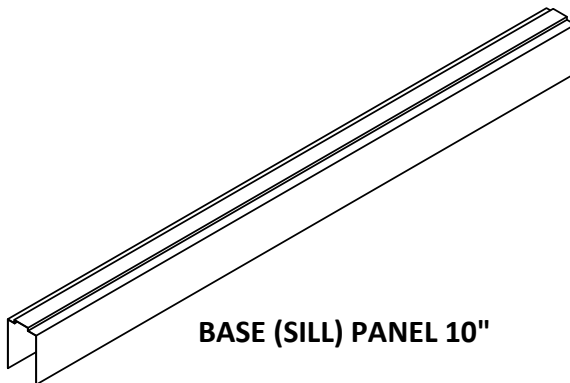
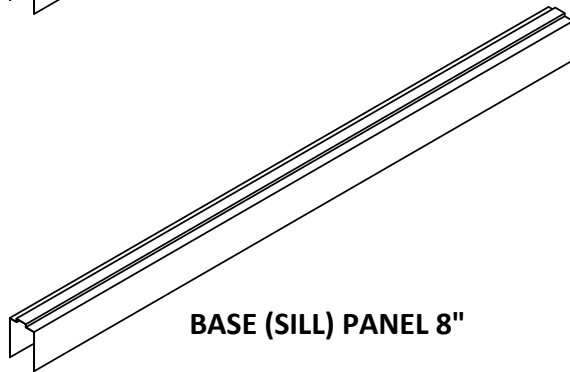
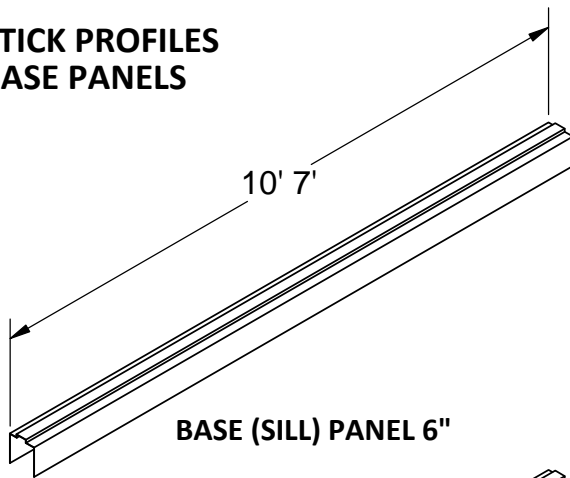
**STICK PROFILES
STRIKE AND CASED OPEN STICK**



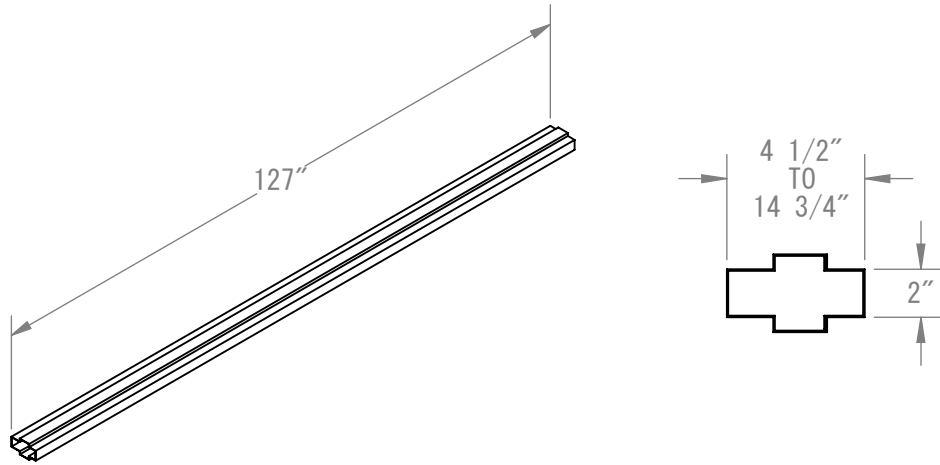
STICK PROFILES
HAT STICK



**STICK PROFILES
BASE PANELS**



MULLION PROFILES

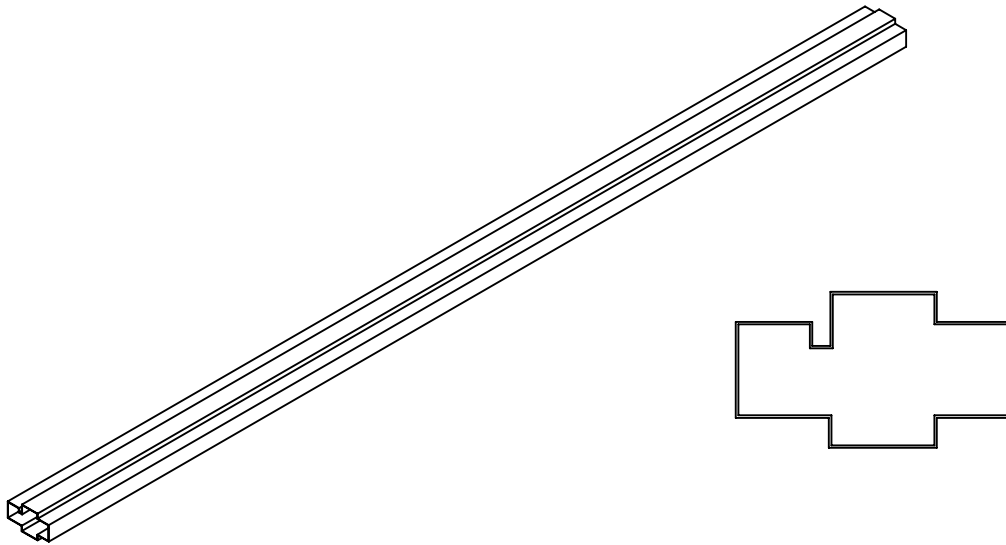


STANDARD HARDWARE PREPS.
AVAILABLE
OTHER FACES AVAILABLE 1" TO 12"
NO MUTE HOLES IN MULLIONS



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KERFED MULLION



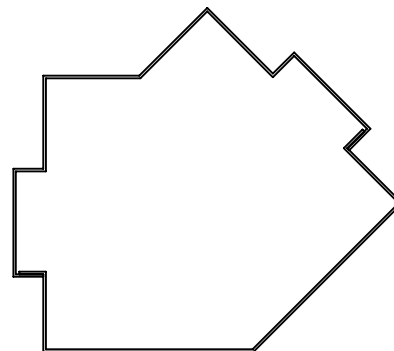
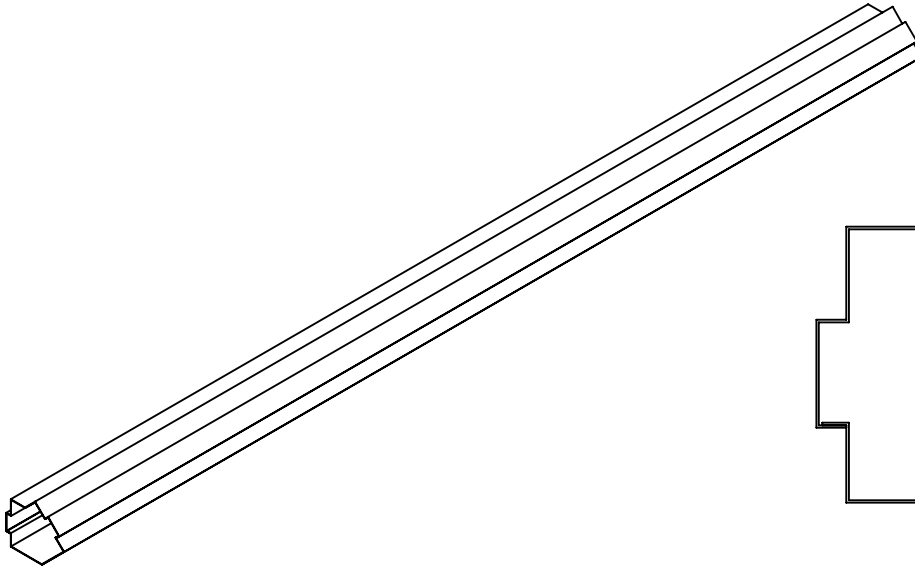
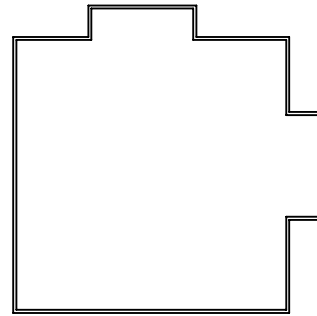
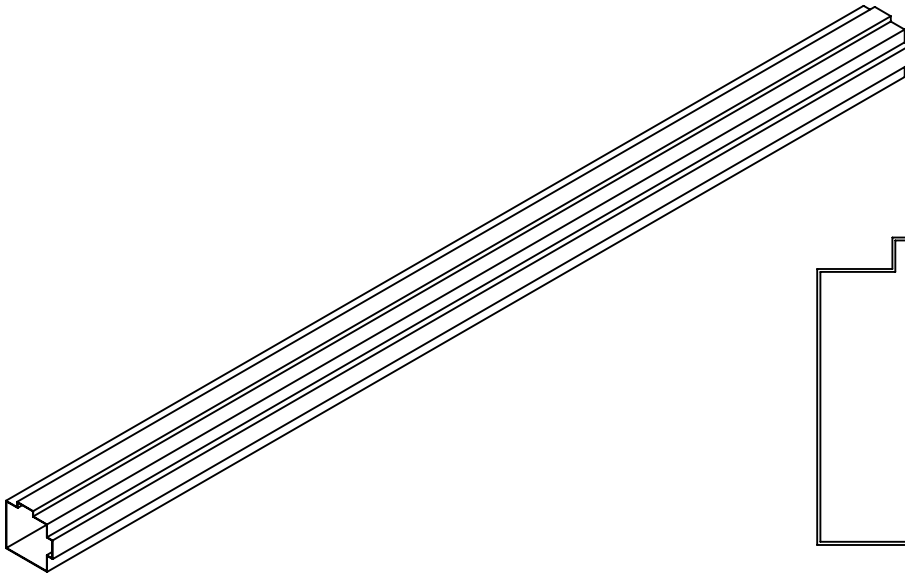
CONTACT FACTORY FOR AVAILABLE SIZES.



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CORNER POST

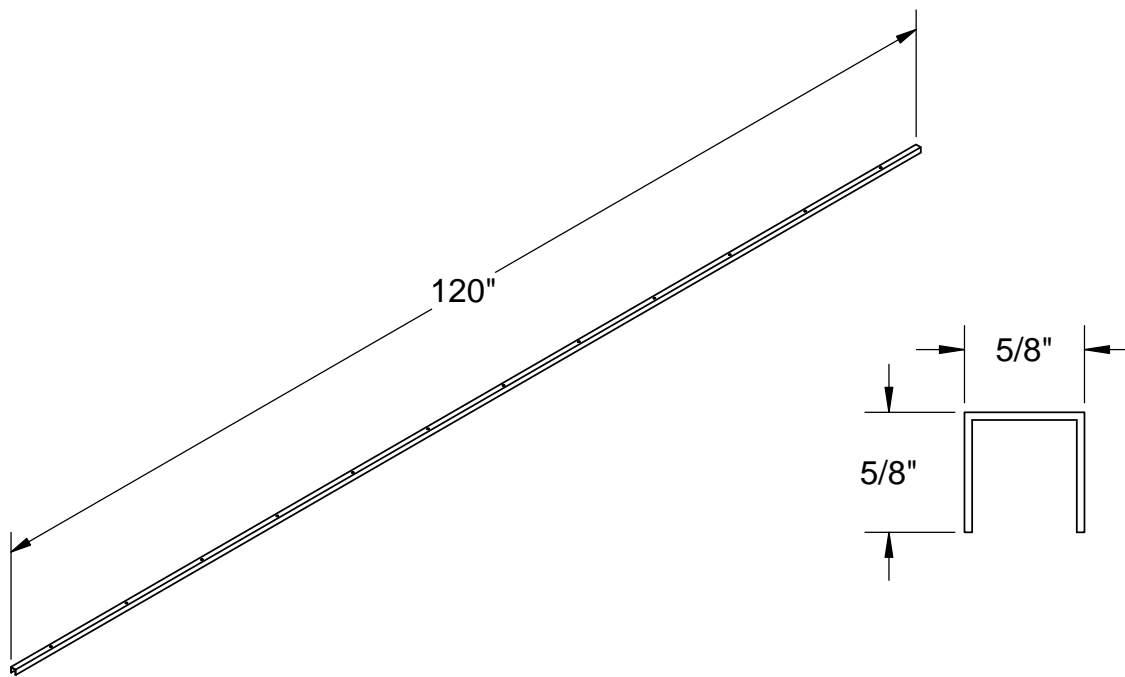


RABBETS AND DIMENSIONS CAN VARY.
PLEASE CONTACT FACTORY



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GLAZING BEAD

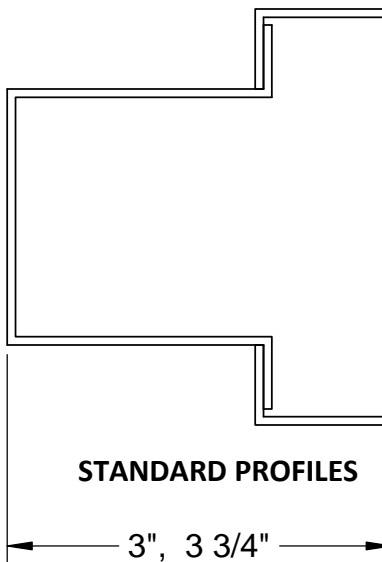
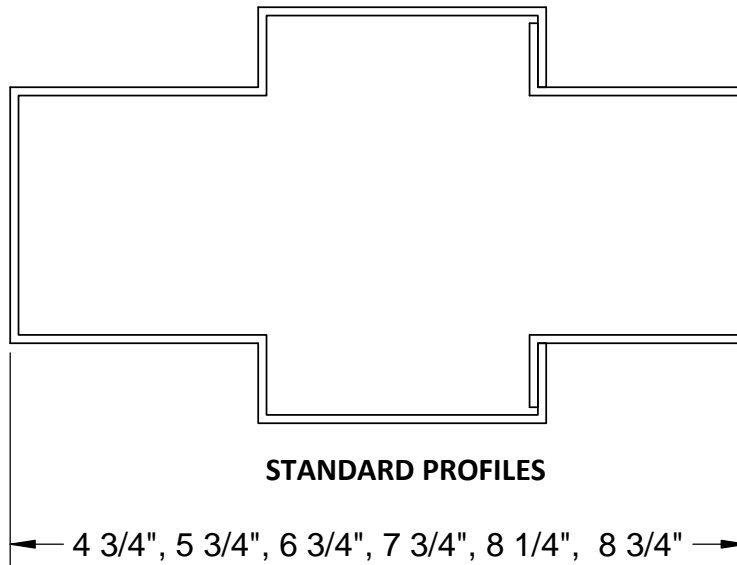


PREPARED FOR #10 X 1 1/4" SCREW

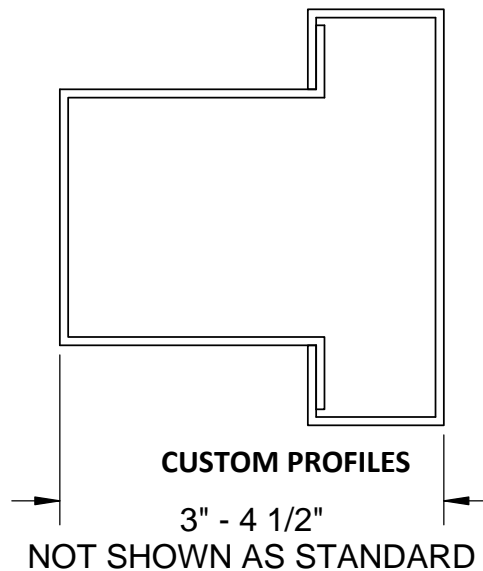
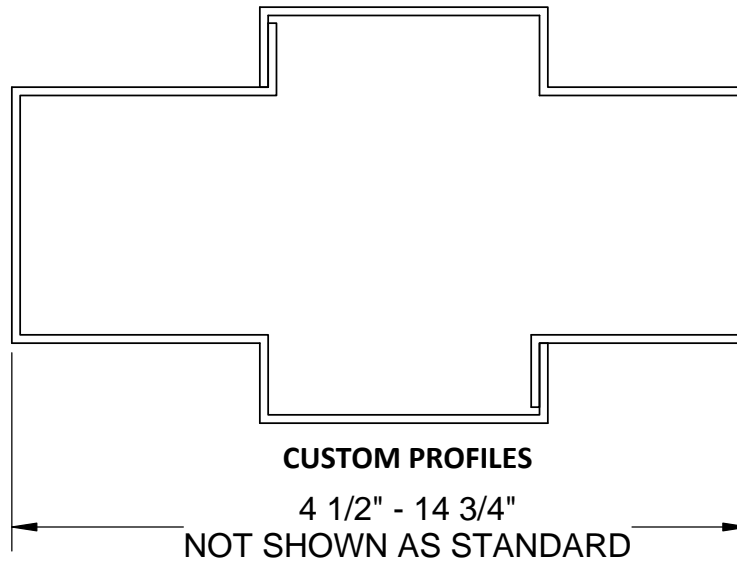


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**STICK AND MULLION
MULLION STANDARD PROFILES**

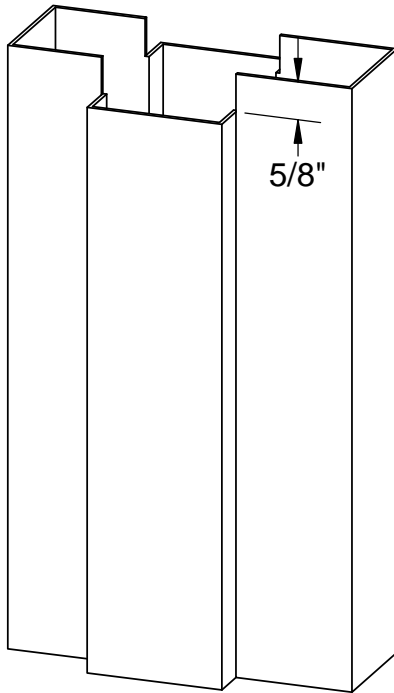


**STICK AND MULLION
MULLION CUSTOM PROFILES**

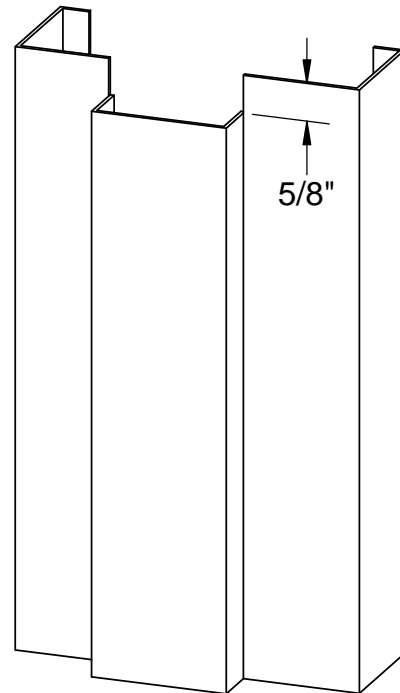


STICK AND MULLION NOTCHES

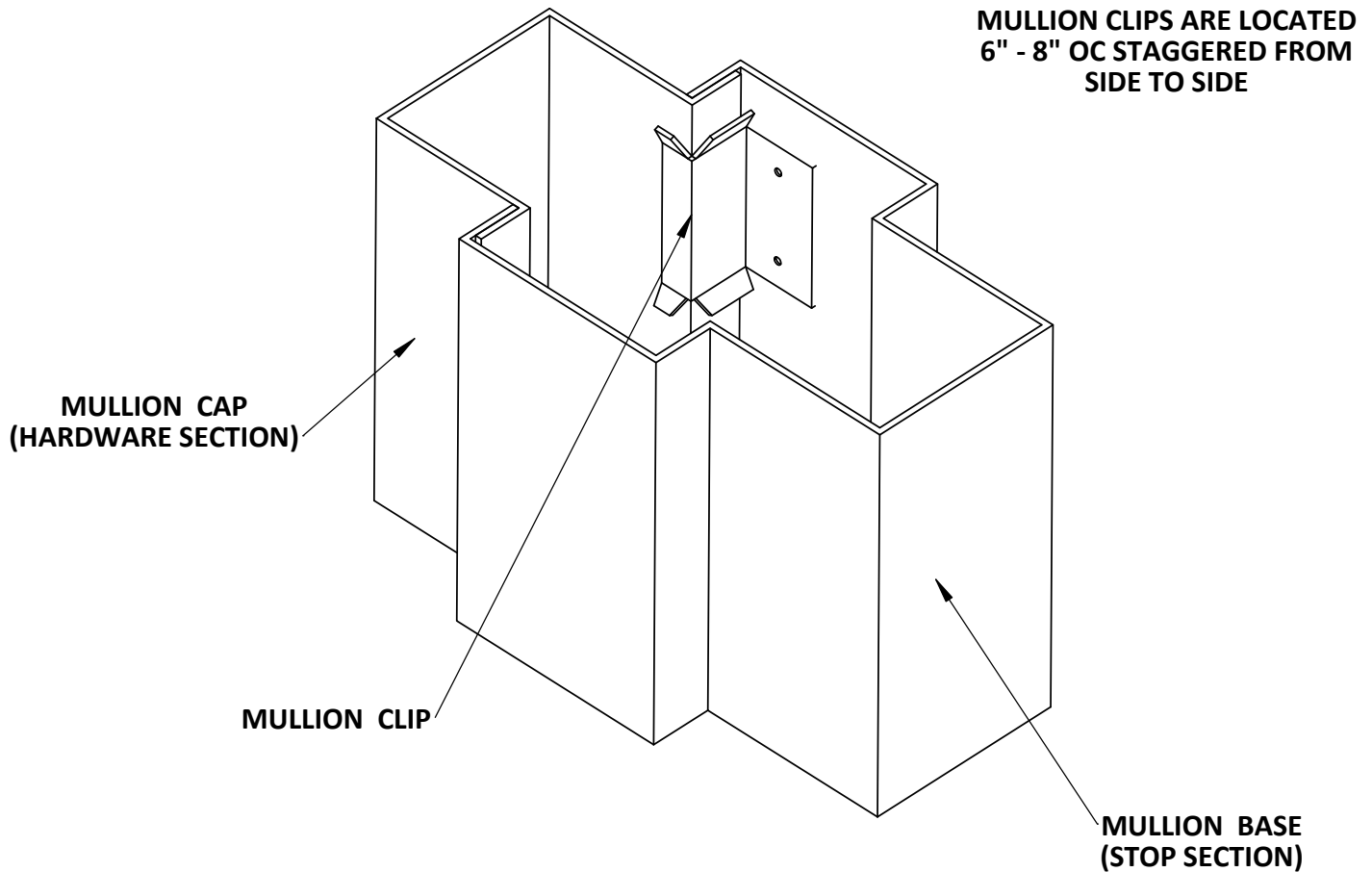
MULLION NOTCH



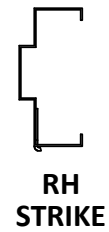
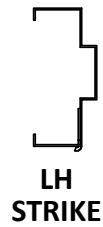
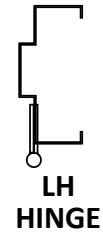
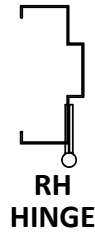
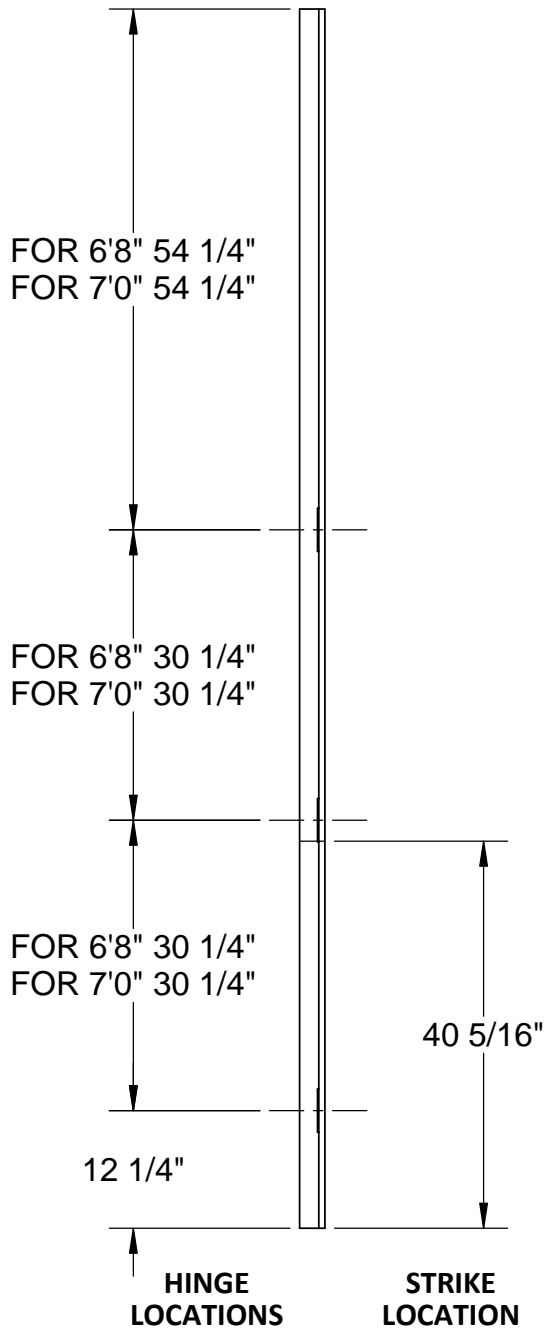
STICK NOTCH



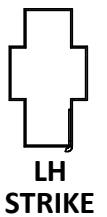
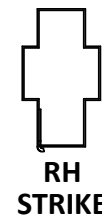
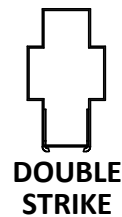
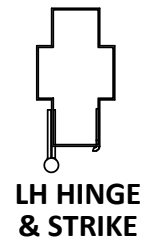
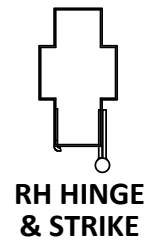
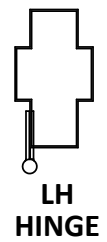
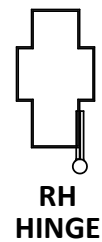
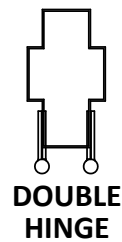
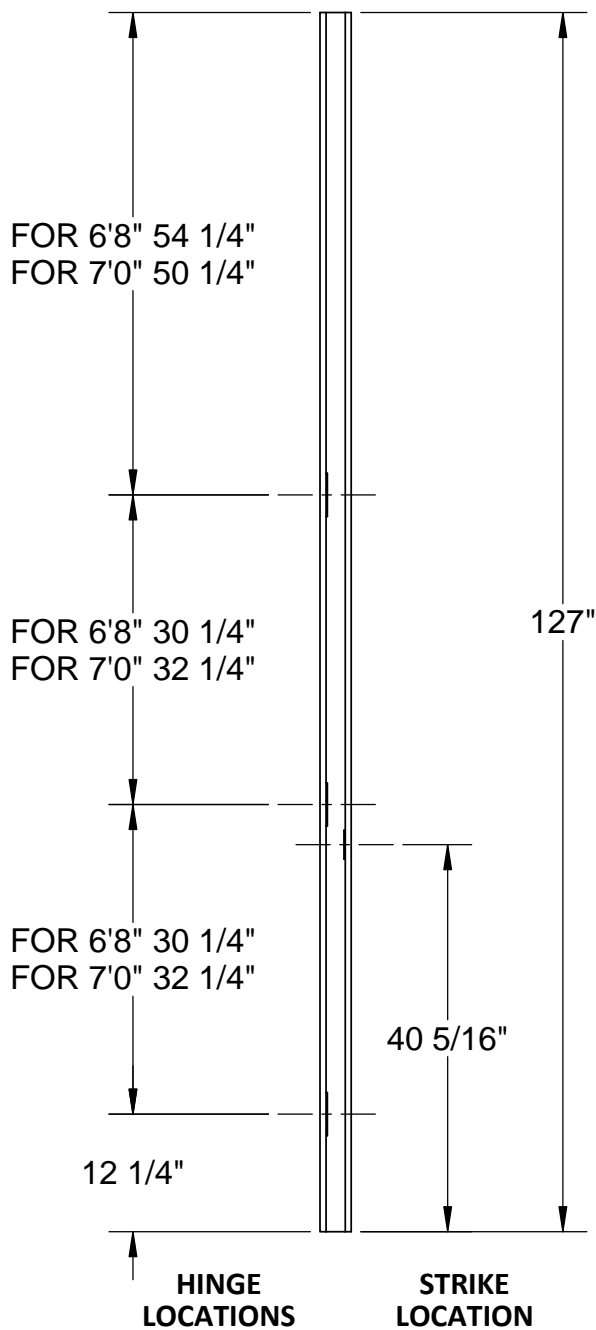
MULLION DETAIL



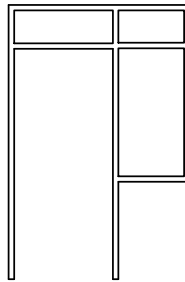
S416 STANDARD FRAME COMPONENTS
TRANSOM HINGE JAMBS 6'8" & 7'0" HIGH DOORS



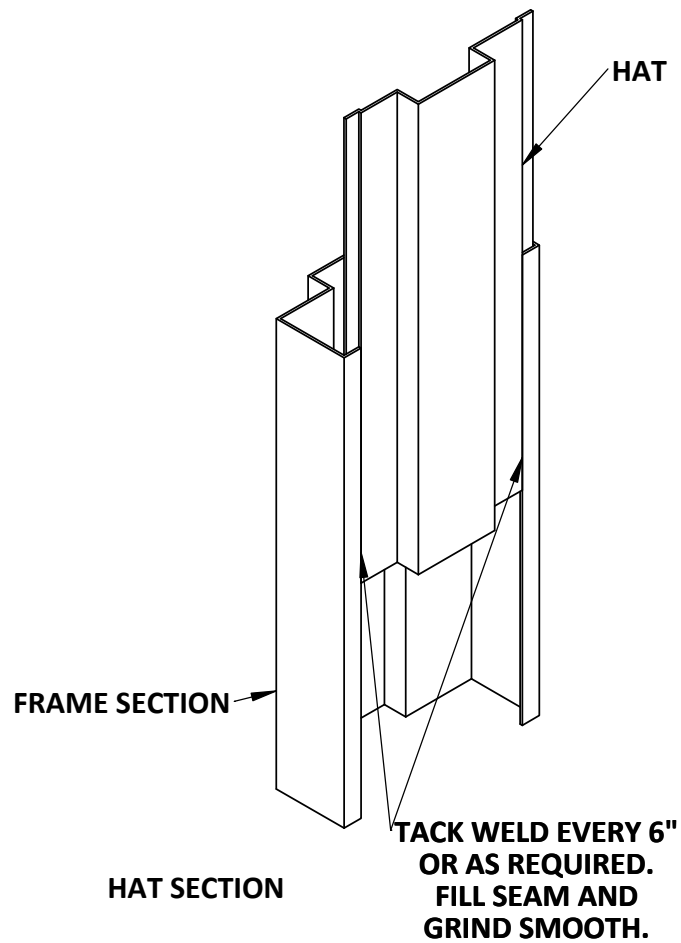
M416 STANDARD FRAME COMPONENTS
MULLION 6'8" & 7'0"



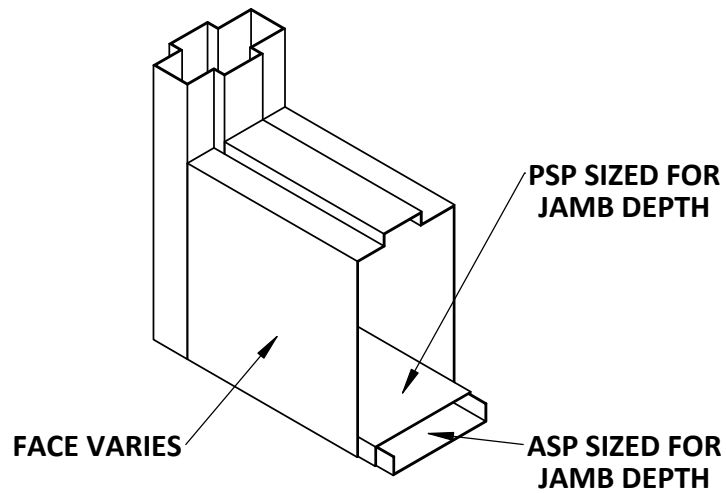
STICK MODIFICATION DETAILS



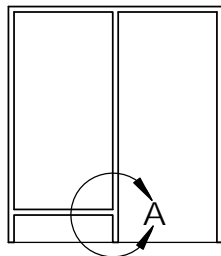
TYPICAL SECTION



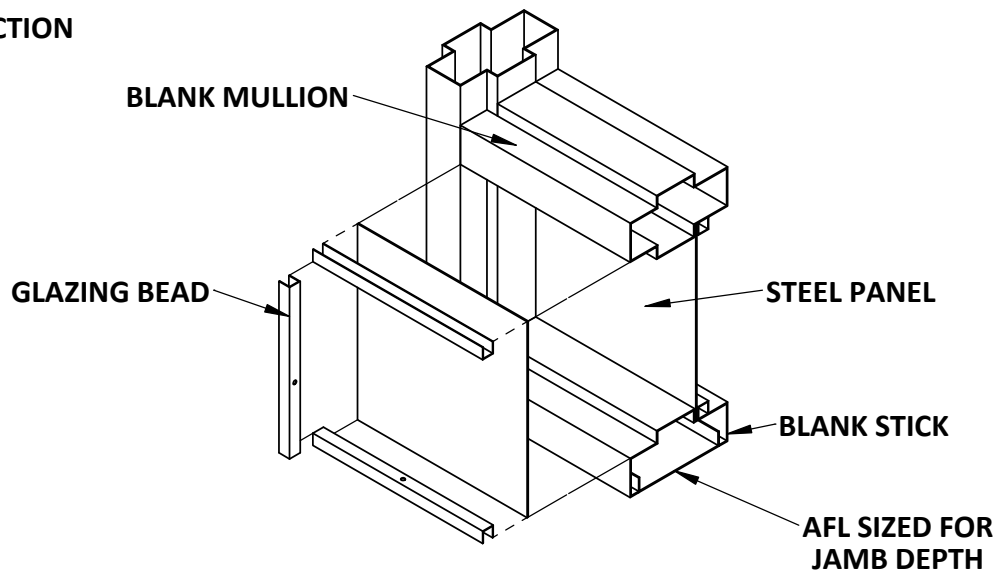
STICK MODIFICATION DETAILS



STANDARD BASE PANEL



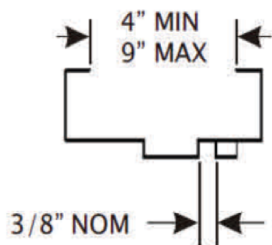
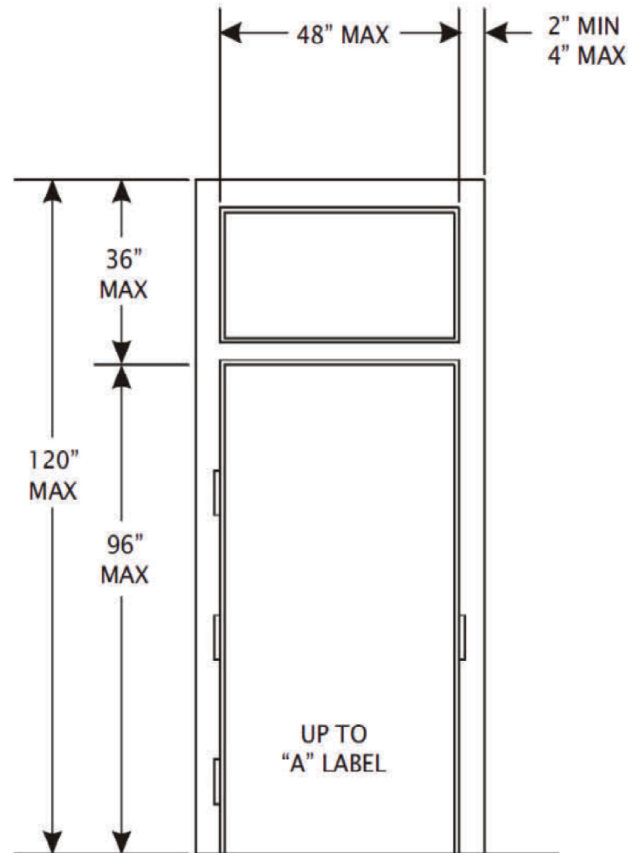
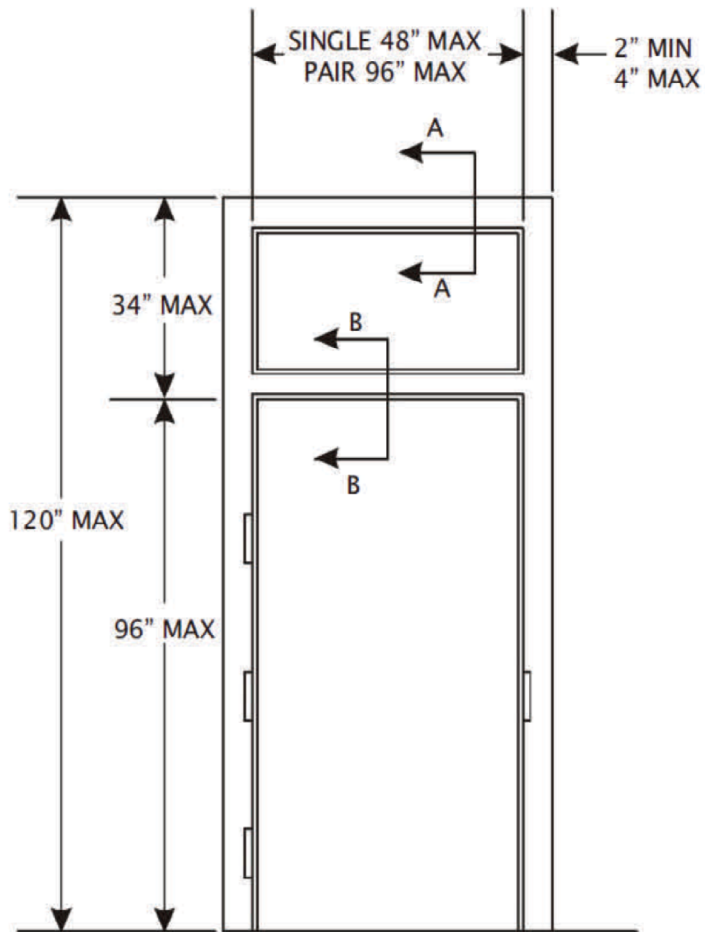
TYPICAL SECTION



ALTERNATE BASE PANEL ASSEMBLY



UNDERWRITERS LABORATORIES
APPROVED TRANSOM FRAMES



SECTION A-A



SECTION B-B

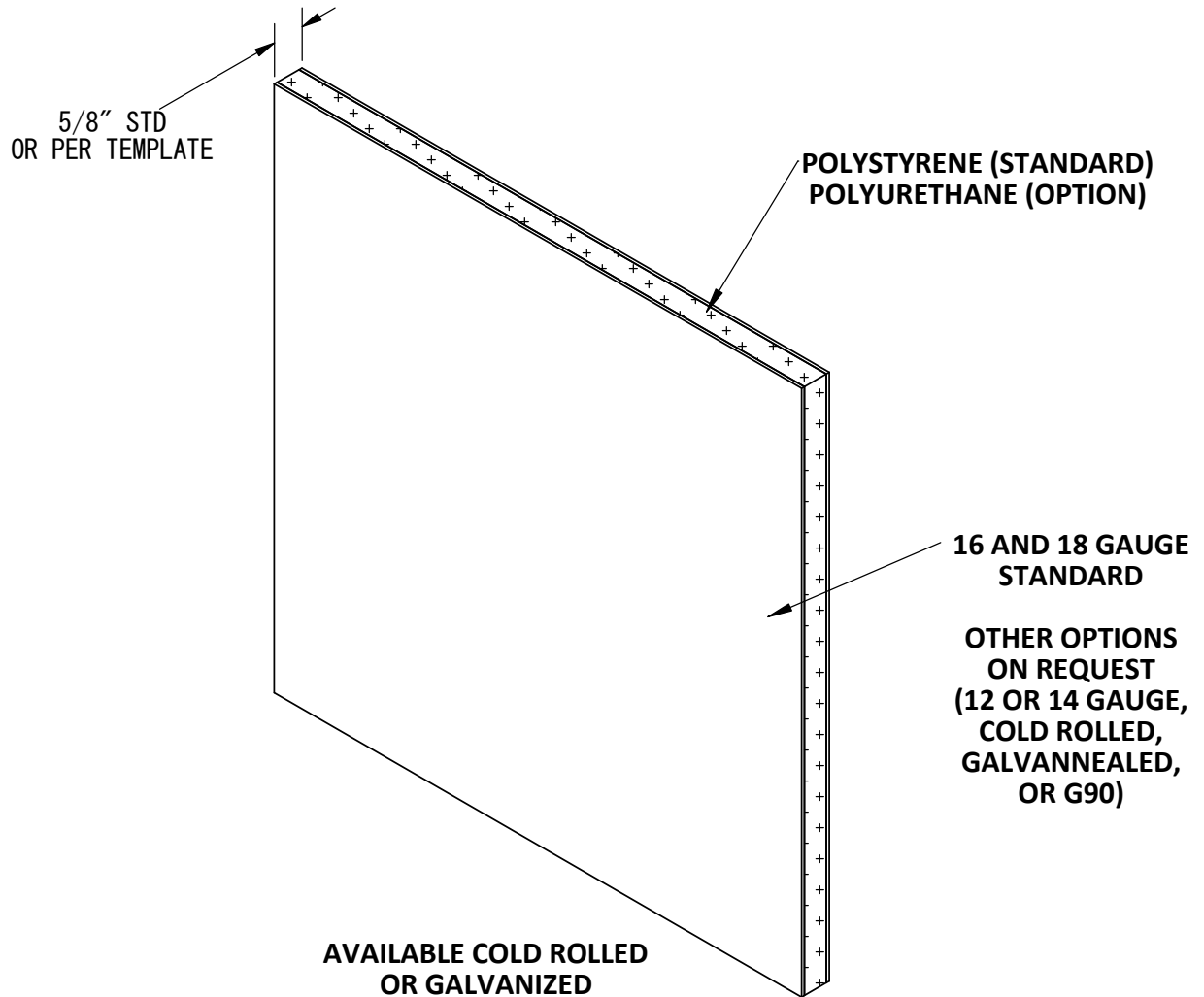
MATERIAL: 16 GA C.R. STEEL
JAMB DEPTH: 4 MIN - 12 3/4" MAX
PANEL: 20 GA x 1 3/4"

MATERIAL: 16 GA C.R. STEEL
JAMB DEPTH: 4" MIN TO 9" MAX
PANEL: 20 GA MIN TO 16 GA
MAX STEEL OR 1296 SQ

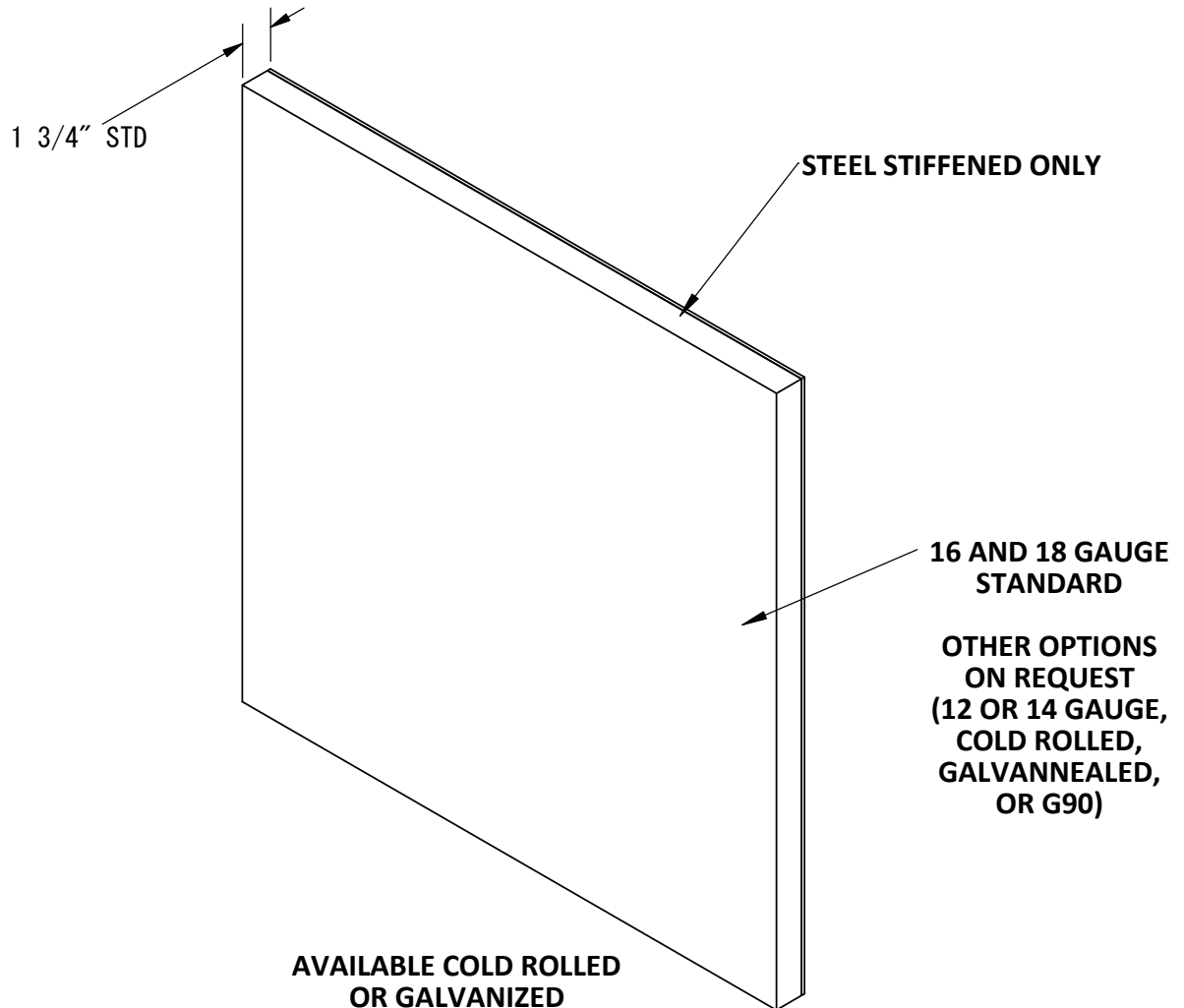


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TRANSOM / SIDE LITE PANEL



UL TRANSOM / SIDE LITE PANEL



FOR SIZES AVAILABLE SEE PAGE L-14, L-16, L23



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Doors 3 of 4.....	L-28
Doors 4 of 4.....	L-29

GENERAL NOTES:

1. Chart is intended for reference only. Changes to frames or glazing options are frequently occurring. Please check website [www.mesker.com] for most current information.
2. Profiles are shown as double rabbet for illustration purposes only. Single rabbet frames are available with door side face sizes same as double rabbet.
3. Profiles are shown for basic information only. They are not intended for use as submittal drawings.
4. All frames are for use in positive pressure or neutral pressure conditions.
5. All frames are series F.
6. All stop height• are 5/8" based on using listed glass, glazing and glazing installation combinations.
7. All bars and mullions are welded (non-removable).
8. In the anchor column ** indicates that this anchor type is allowed up to 10'0" overall height.

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U.L. FIRE WINDOW FRAMES

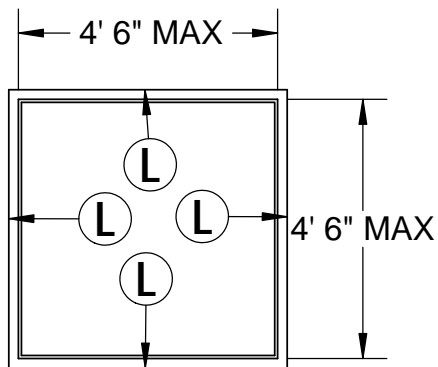
L-& MAR 2014

MAX RATING	DETAIL/ GLAZING	FRAME FACE	BAR OR MULL FACES	PROFILE	KD	WELD	GAUGE				THROAT		ANCHOR TYPE									
							18	16	14	12	MIN.	MAX.	AUM MASONRY	AMT MASONRY	AMT MAS TEE	WIRE MASONRY	AER EXIST MAS CONCRETE	ASW/ STUD	UNA STUD	UNA EXIST MAS CONCRETE	WELD ANCHOR	LOOSE ANCHOR
1	W1 FIRE LTE	1 1/4" TO 4"	N/A	L		•	•	•	•	•	4"	13"	•				•		**	**	•	
3/4	W2 1/4" GL	1 1/4" TO 4"	N/A	L		•	•	•	•	•	4"	13"	•				•	•	**	**	•	
20 min	W3 1/4" GL	2" TO 4"	N/A	M		•	•	•	•	•	4"	13"	•	•	•	•	•	•	•	•	•	•
1	W4 FIRE LTE	1 1/4" TO 4"	2" TO 4"	L-K		•	•	•	•	•	4"	9"	•				•		**	**	•	
3/4	W5 1/4" GL	1 1/4" TO 4"	2" TO 4"	L-K		•	•	•	•	•	4"	9"	•				•		**	**	•	
20 min	W6 1/4" GL	2" TO 4"	2" TO 4"	M-K		•	•	•	•	•	4"	13"	•	•	•	•	•	•	•	•	•	•
1	W7 FIRE LTE	1 1/4" TO 4"	2" TO 4"	L-K		•	•	•	•	•	4"	9"	•				•		**	**	•	
3/4	W8 1/4" GL	1 1/4" TO 4"	2" TO 4"	L-K		•	•	•	•	•	4"	9"	•				•		**	**	•	
20 min	W9 1/4" GL	2" TO 4"	2" TO 4"	M-K-N		•	•	•	•	•	4"	13"	•	•	•	•	•	•	•	•	•	•



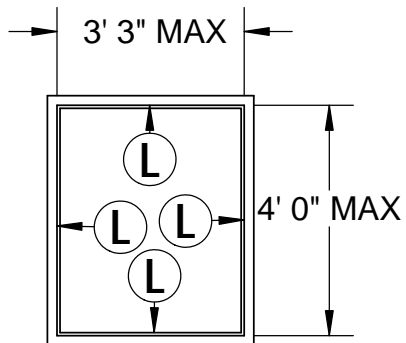
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U.L. FIRE WINDOW FRAMES



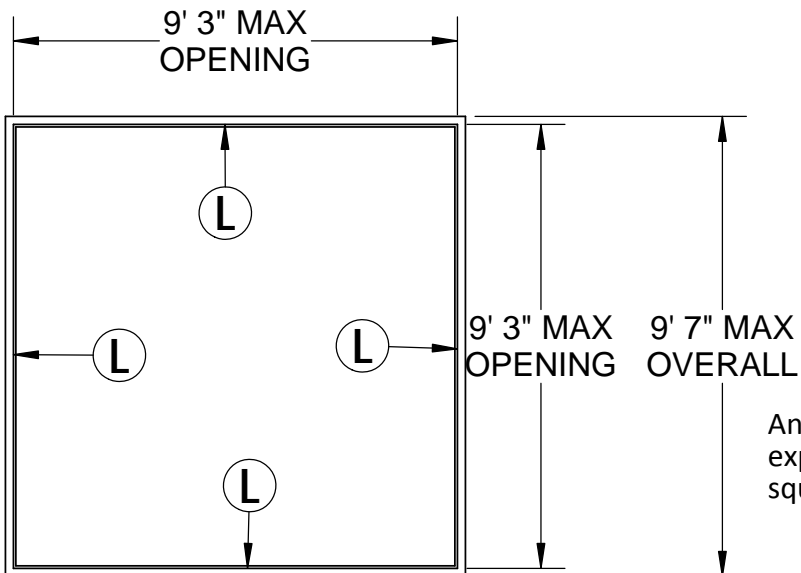
W1 SINGLE LITE
ABOVE FLOOR

Fire Lite used with listed glazing material combinations. 4'-6" maximum width or height not to exceed 2,721 square inches of exposed.



W2 SINGLE LITE
ABOVE FLOOR

1/4" wire glass used with listed glazing material combinations. 3'-3" maximum opening width or 4'-0" maximum opening height not to exceed 1,296 square inches exposed light.



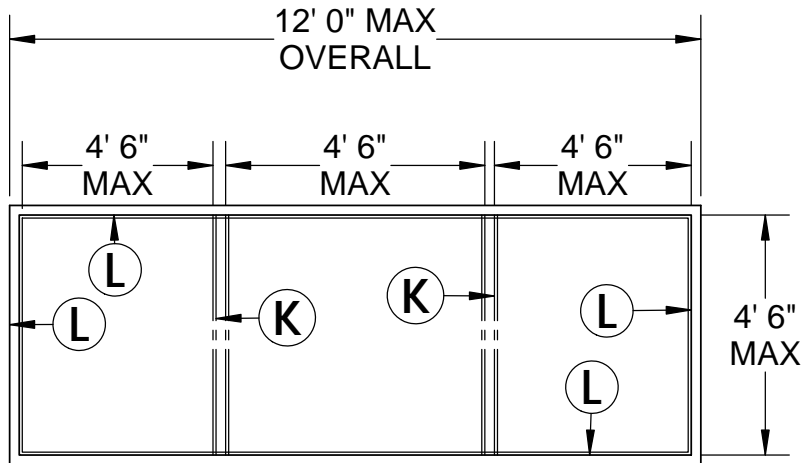
W3 SINGLE LITE
ABOVE FLOOR

Any listed glazing combinations. 9'-1 3/4" maximum exposed light width or height not to exceed 5,268 square inches exposed light.



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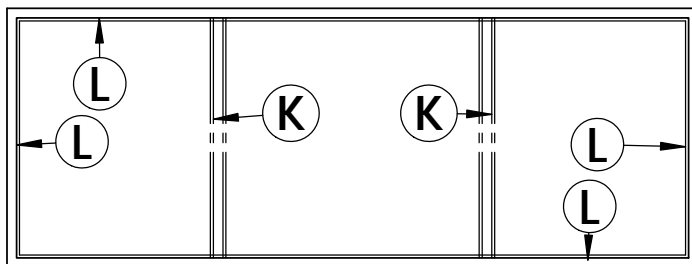
U.L. FIRE WINDOW FRAMES



Fire Lite used with listed glazing material combinations. 4'-6" maximum width or height not to exceed 2,721 square inches of exposed light.

W4

**MULTIPLE LITE
ABOVE FLOOR**



1 1/4" wire glass used with listed glazing material combinations. 3'-3" maximum opening width or 4'-0" maximum opening height not to exceed 1,296 square inches exposed light.

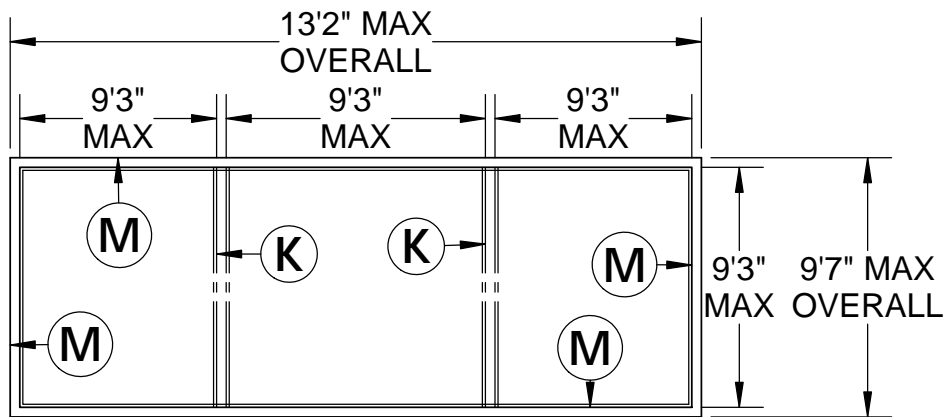
W5

**MULTIPLE LITE
ABOVE FLOOR**



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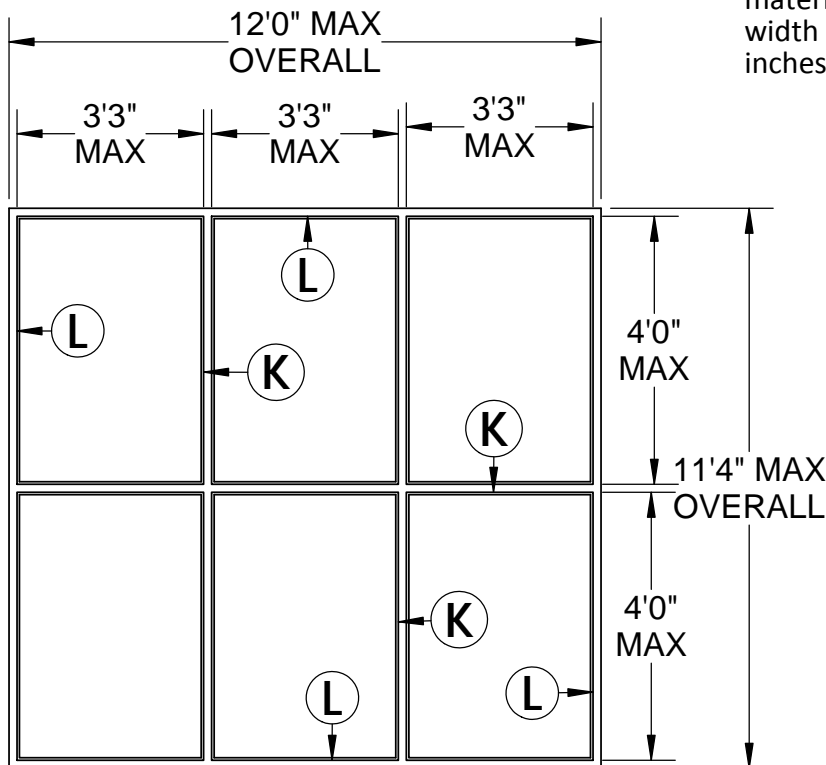
U.L. FIRE WINDOW FRAMES



Any listed glazing combinations. 9'-1 3/4" maximum exposed light width or height not to exceed 5,268 square inches exposed lite.

W6 MULTIPLE LITE ABOVE FLOOR

M



W7 = Fire Lite used with listed glazing material combinations. 4'-6" maximum width or height not to exceed 2,721 square inches of exposed lite.

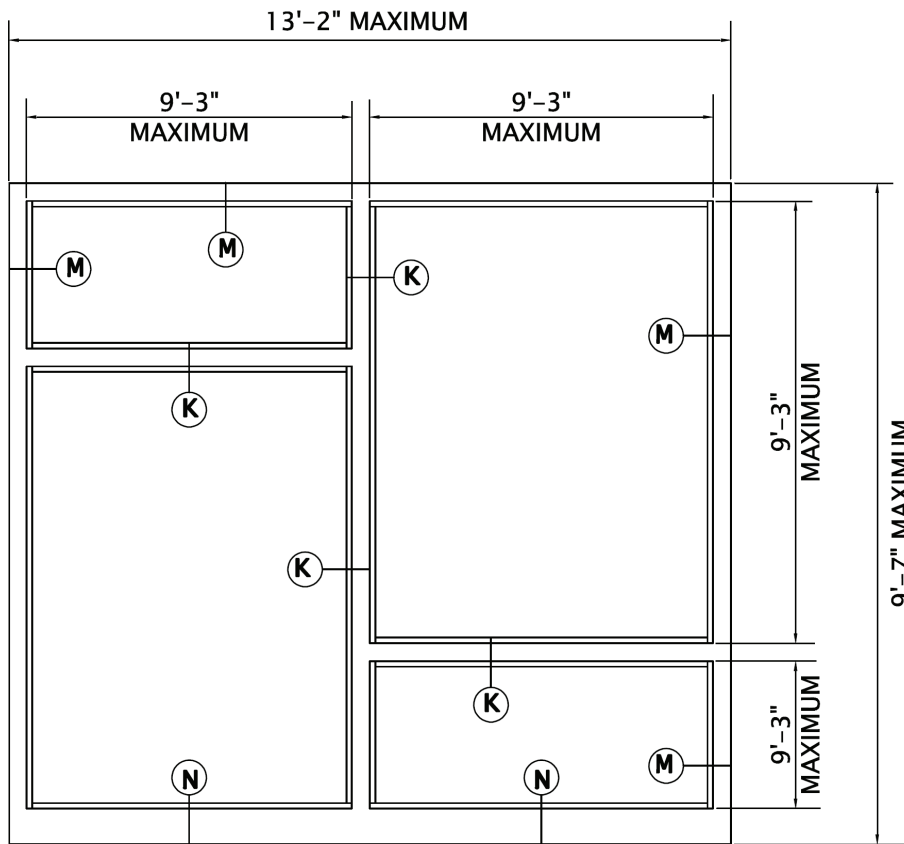
W8 = 1 1/4" wire glass used with listed glazing material combinations. 3'-3" maximum opening width or 4'-0" maximum opening height not to exceed 1,296 square inches exposed lite.

W7 **W8** MULTIPLE LITE FLOOR MOUNTED

W7 & W8-QUANTITY OF INDIVIDUAL LITES MAY VARY AS LONG AS OVERALL SIZE IS NOT EXCEEDED.



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W9

**MULTIPLE LIGHT
FLOOR MOUNTED**

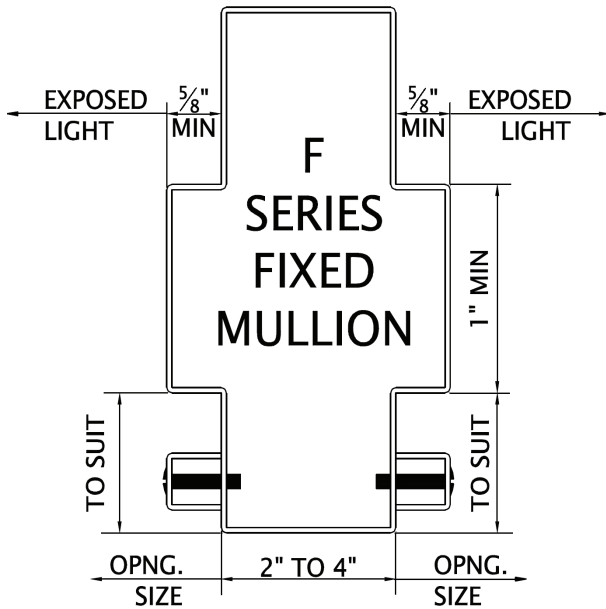
Any listed glazing combinations. 9'-1 3/4" maximum exposed light width or height not to exceed 5,268 square inches exposed light.

Quantity of individual lights may vary as long as overall size is not exceeded.



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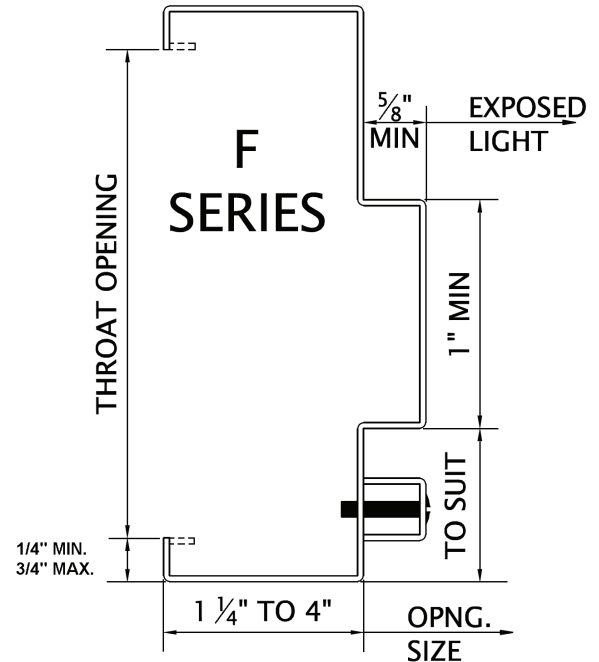
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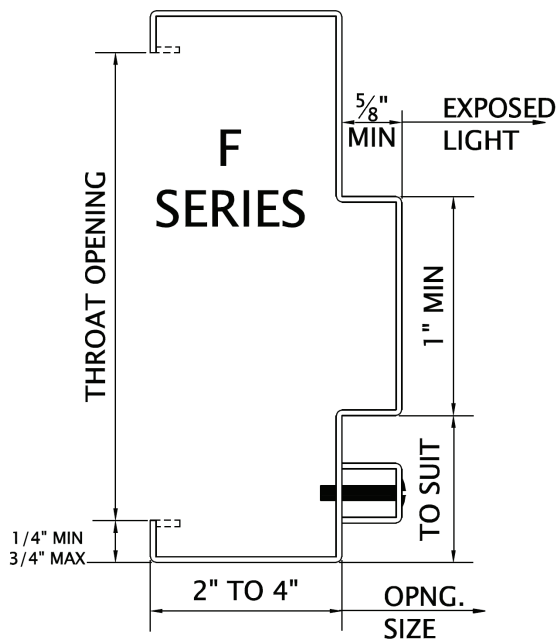
K

MULLION WELDED
AT BOTH FACES

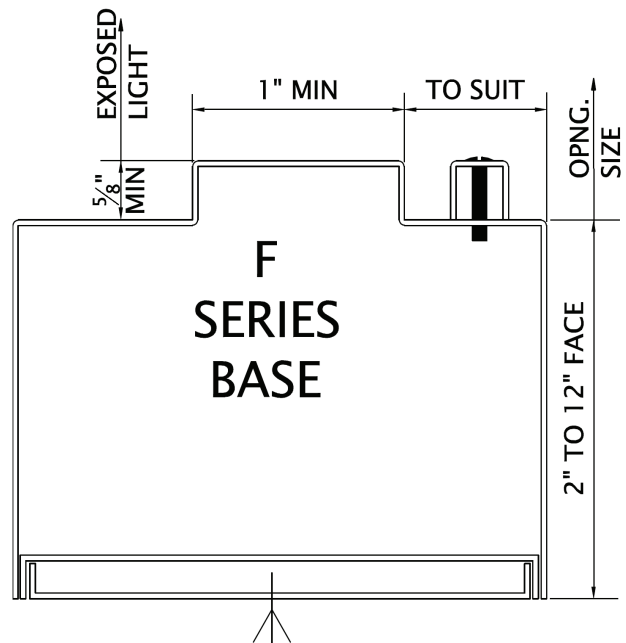
NOTE: DOUBLE RABBIT PROFILE
RECOMMENDED FOR ASTHETICS



L



M



N



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3-SIDED U.L. F SERIES FIRE DOOR FRAMES

MAX RATING	SERIES	SINGLE	DOUBLE	MAX OPENING		PROFILE	KD	WELD	GAUGE			THROAT		ANCHOR TYPE							WELD ANCHOR	LOOSE ANCHOR
				WIDTH	HEIGHT				18	16	14	MIN.	MAX.	AUM MASONRY	AMT MAS TEE	WIRE MASONRY	AER EXIST MAS CONCRETE	ASW STUD	UNA STUD	UNA EXIST MAS CONCRETE		
3	F	•		4'-0"	10'-0"	A B1	•	•	•	•	•	4"	13"	•			•				•	
3	F		•	8'-0"	10'-0"	A B1	•	•	•	•	•	4"	13"	•			•				•	
1 1/2	F	•		4'-0"	10'-0"	B2	•	•	•	•	•	2"	4"	•			•	•	•		•	
3	F	•		4'-0"	8'-0"	A B1	•	•	•	•	•	4"	13"		•	•					•	
3	F		•	8'-0"	10'-0"	B2	•	•	•	•	•	2"	4"	•			•				•	
1 1/2	F		•	8'-0"	10'-0"	A B1	•	•	•	•	•	4"	13"				•	•	•		•	
3	F		•	8'-0"	8'-0"	A B1	•	•	•	•	•	4"	13"								•	
1 1/2	F	•		4'-0"	8'-0"	A B1	•	•	•	•	•	4"	13"								•	

NOTE: THIS CHART ABOVE REPRESENTS 3 SIDED FIRE DOOR FRAMES IN MESKER™ U.L. PROCEDURES AS OF JAN 2011. FRAMES ARE ELIGIBLE TO BEAR U.L. LISTING MARKS (LABELS) UNDER UL10C (POSITIVE PRESSURE), UL10B (NEUTRAL PRESSURE) AND NFPA 252 TEST STANDARDS.

CHART IS SUBJECT TO REVISION AS NEW PRODUCTS ARE ADDED.



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3-SIDED U.L. FDJ, DOUBLE EGRESS, FR SERIES FRAMES

L-9 MAR 2014

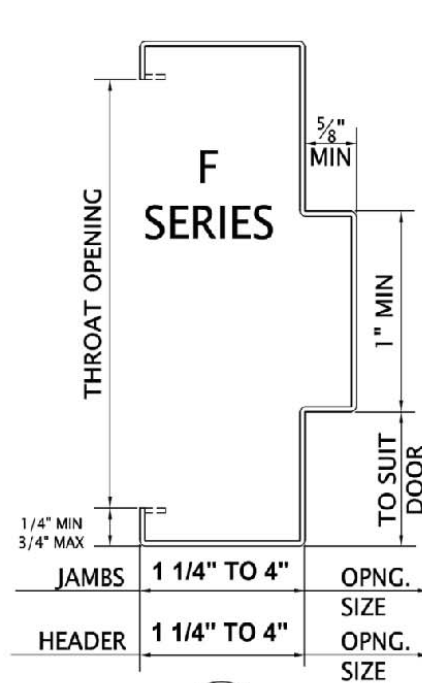
MAX RATING	SERIES	SINGLE	DOUBLE	MAX OPENING		PROFILE	KD	WELD	GAUGE				THROAT		ANCHOR TYPE								WELD ANCHOR	LOOSE ANCHOR
				WIDTH	HEIGHT				18	16	14	12	MIN.	MAX.	AUM MASONRY	AMT MAS TEE	WIRE MASONRY	AER EXIST MAS CONCRETE	ASW STUD	UNA STUD	UNA EXIST MAS CONCRETE			
1 1/2	FDJ	*		4'-0"	8'-0"	C	*			*			3 5/8"	8"	SLIP ON DRYWALL									
1 1/2	FDJ		*	8'-0"	8'-0"	C	*			*			3 5/8"	8"	SLIP ON DRYWALL									
3	F D/E		*	8'-0"	8'-0"	D	*	*		*	*	*	3"	13"	*	*	*				*	*		
1 1/2	F D/E		*	8'-0"	8'-0"	D	*	*		*	*	*	3"	13"					*		*			
1 1/2	FR	*		4'-0"	7'-0"	E	*			*	*	*		13"	REMODELING FRAME SEE PAGE FS-5									
1 1/2	FR	*		4'-0"	7'-0"	F	*			*	*	*		13"	REMODELING FRAME SEE PAGE FS-5									
3	F		*	2@ 4'-0"	8'-0"	A-B1 G-H		*		*	*	*	4"	9"	*				*	*		*		
1 1/2	F		*	2@ 4'-0"	8'-0"	A-B1 G-H		*		*	*	*	4"	9"	*				*	*		*		

NOTE: THIS CHART ABOVE REPRESENTS 3 SIDED FIRE DOOR FRAMES IN MESKER™ U.L. PROCEDURES AS OF JAN 2011. FRAMES ARE ELIGIBLE TO BEAR U.L. LISTING MARKS (LABELS) UNDER UL10C (POSITIVE PRESSURE), UL10B (NEUTRAL PRESSURE) AND NFPA 252 TEST STANDARDS.
CHART IS SUBJECT TO REVISION AS NEW PRODUCTS ARE ADDED.

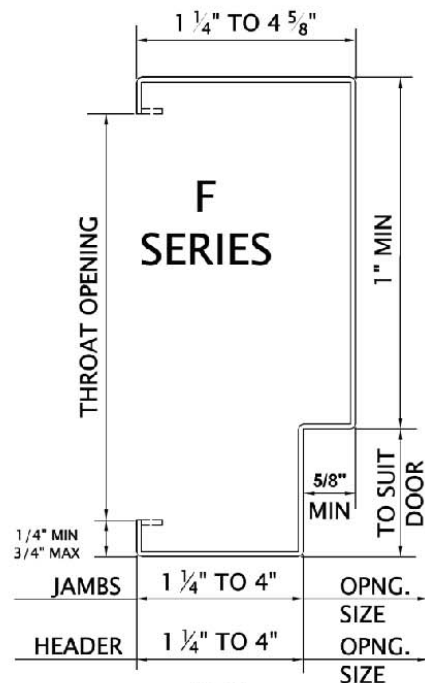
MULLION BETWEEN
DOORS
MULLION BETWEEN
DOORS

MODIFY TO FIT
MODIFY TO FIT

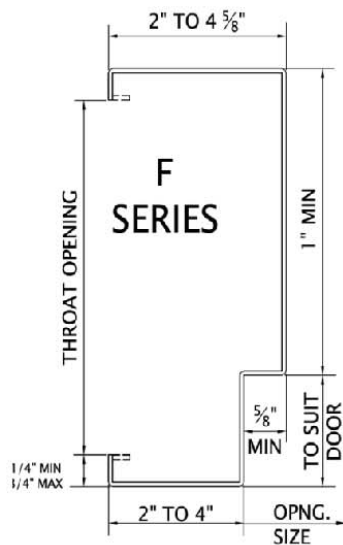
3 - SIDED U.L. FIRE DOOR FRAME



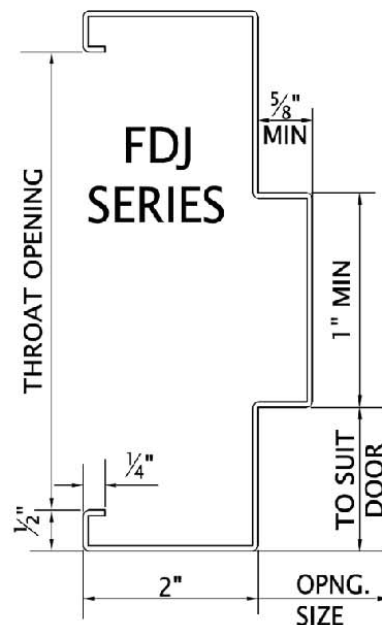
A



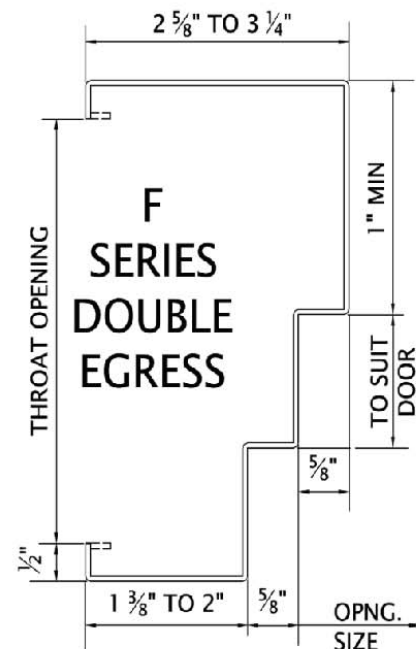
B1



B2



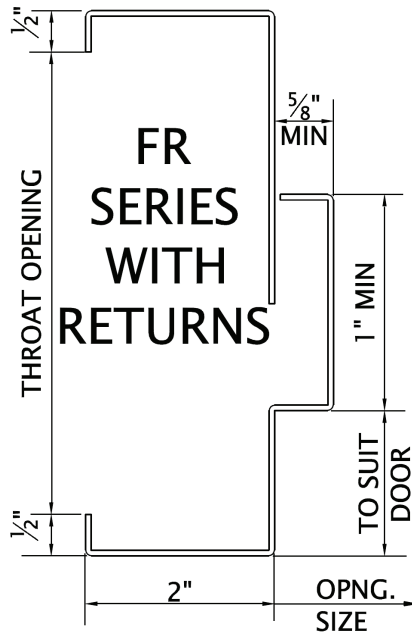
C



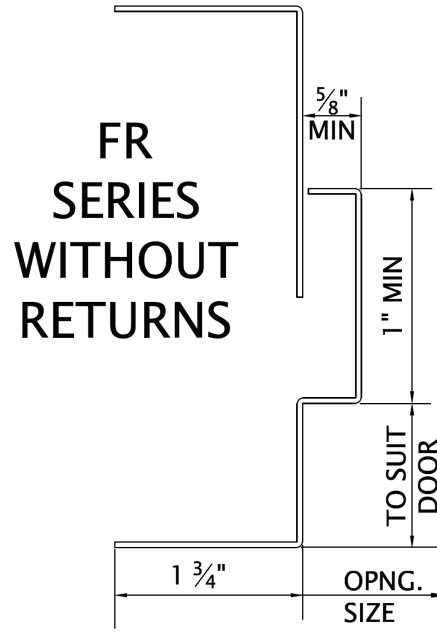
D



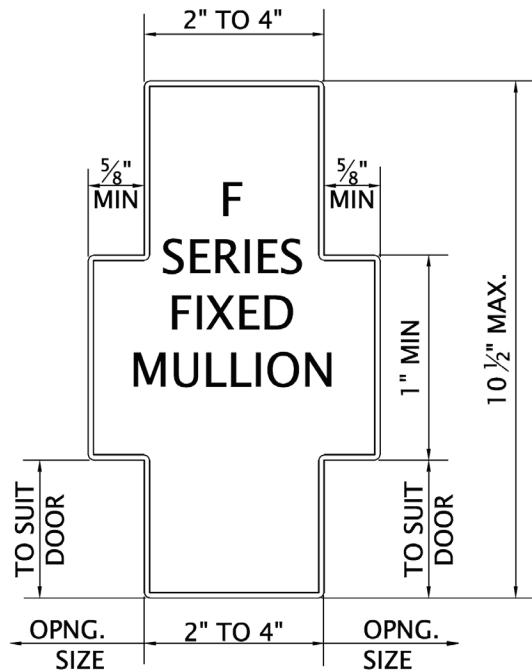
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E

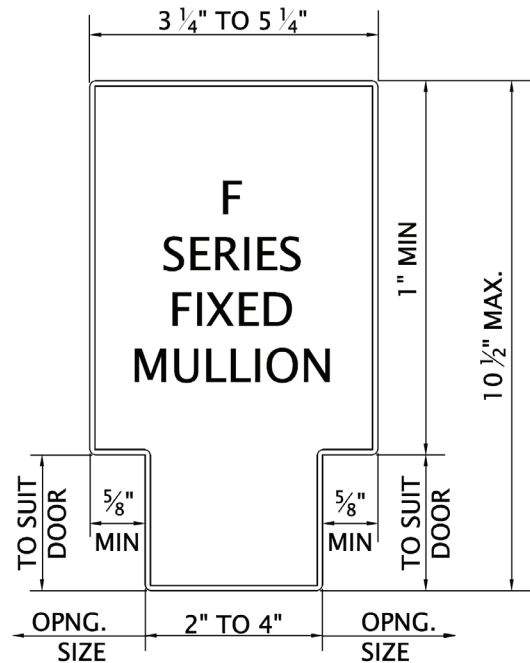


F



G

MULLION WELDED AT
BOTH FACES



H

MULLION WELDED AT
BOTH FACES

NOTE: TYPE G & H —DOORS SHALL
NOT BE HINGED FROM MULLION.



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8. All transom bars and mullions are welded (non-removable).
9. ** ⓐ anchor column indicates that this anchor type is allowed up to 10'-0" overall height. Anchor must be welded to frame.

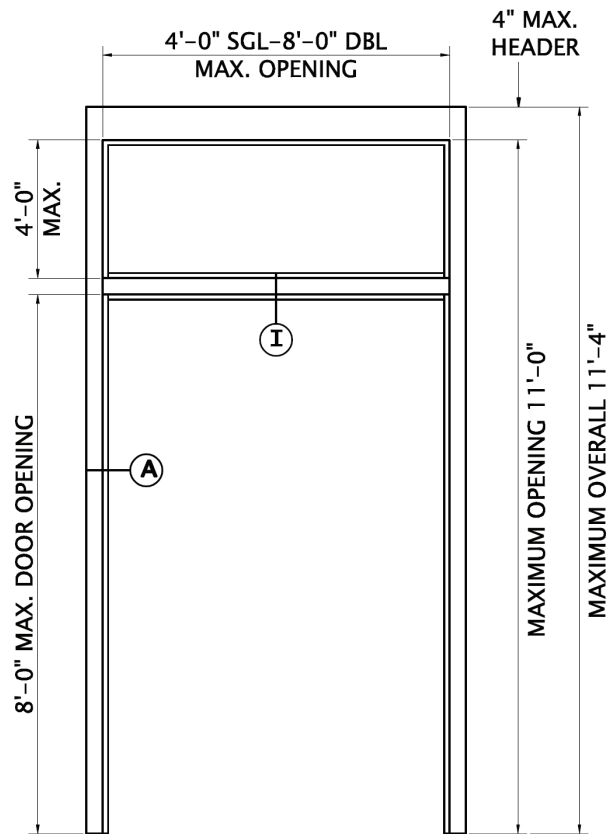
U.L. TRANSOM FRAMES

L-13 · MAR 2014

MAX RATING	SERIES	PANEL	SINGLE	DOUBLE	FRAME FACES	TRAN BAR OR MULL FACES	PROFILE	KD	WELD	GAUGE				THROAT		ANCHOR TYPE					WELD ANCHOR	LOOSE ANCHOR	
										18	16	14	12	MIN.	MAX.	AUM MASONRY	AMT MAS TEE	WIRE MASONRY	AER EXIST MAS CONCRETE	ASW STUD			UNA STUD
3	T1	1 3/4" HM	•	•	1 1/4" TO 4"	2" TO 4"	A-1		•	•	•	•	•	5"	13"	•			**	**		•	
1 1/2	T2	3/8" COMP	•	•	1 1/4" TO 4"	2" TO 4"	A-1-K		•	•	•	•	•	5"	13"	•			**	**	**	•	
1	T3	FIRE LITE	•	•	1 1/4" TO 4"	2" TO 4"	A-1-K		•	•	•	•	•	5"	13"	•			**	**	**	•	
3/4	T4	WIRE GL	•	•	1 1/4" TO 4"	2" TO 4"	A-1-K		•	•	•	•	•	5"	13"	•			**	**	**	•	
3	T5	1 3/4" COMP	•		2" TO 4"	2" TO 4"	A1-I	•	•	•	•	•	•	4"	13"	•	•	•	•	•	•	•	•
1 1/2	T6	1 3/4" HC	•		1 1/4" TO 4"	N/A	A		•	•	•	•	•	4"	13"	•	•	•	•	**	**	•	
1 1/2	T7	1 3/4" WD	•		1 1/4" TO 4"	N/A	A	•	•	•	•	•	•	4"	13"	•	•	•	•	•	•	•	•
1 1/2	T8	1 3/4" WD	•		2" TO 4"	2" TO 4"	A1-I		•	•	•	•	•	4"	9"	•	•	•	•	•	•	•	•
3	T9	3/8" COMP	•	•	2" TO 4"	2" TO 4"	A1-I		•	•	•	•	•	4"	9"	•				•	•	•	
3/4	T10	WIRE GL	•		2" TO 4"	2" TO 4"	A1-I-K		•	•	•	•	•	4"	9"	•				•	•	•	
20 MIN	T11	GLAZE	•	•	2" TO 4"	2" TO 12"	A1-I		•	•	•	•	•	4"	13"	•	•	•	•	•	•	•	•

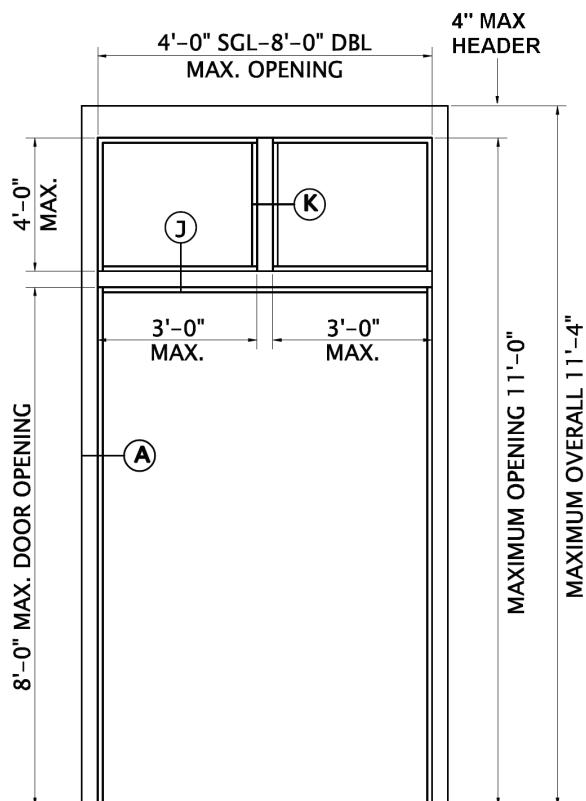


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T1

1 3/4" Steel Stiffened Hollow Metal Panel



T2

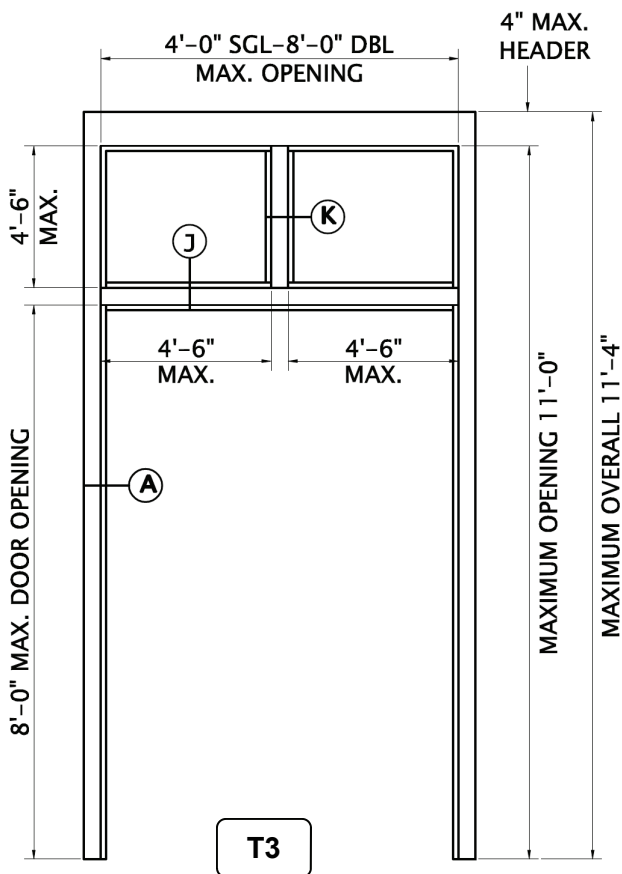
3/8" Thick Laminate Panel.
3'-0" x 4'-0" Maximum Opening



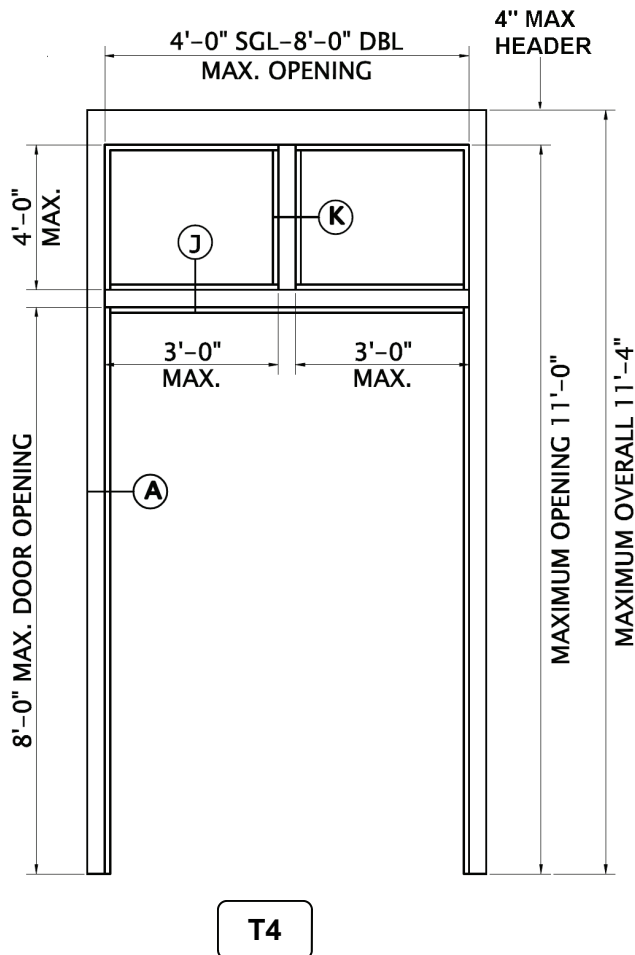
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U.L. TRANSOM FRAMES

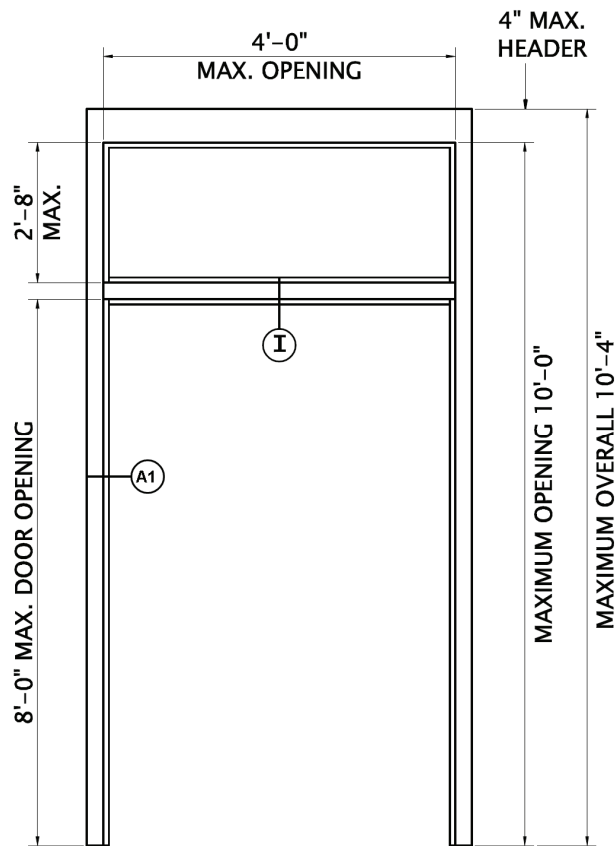
L-15 · MAR 2014



Fire Lite used with listed glazing material combinations. 4'-6" maximum width or height not to exceed 2,721 square inches exposed light.

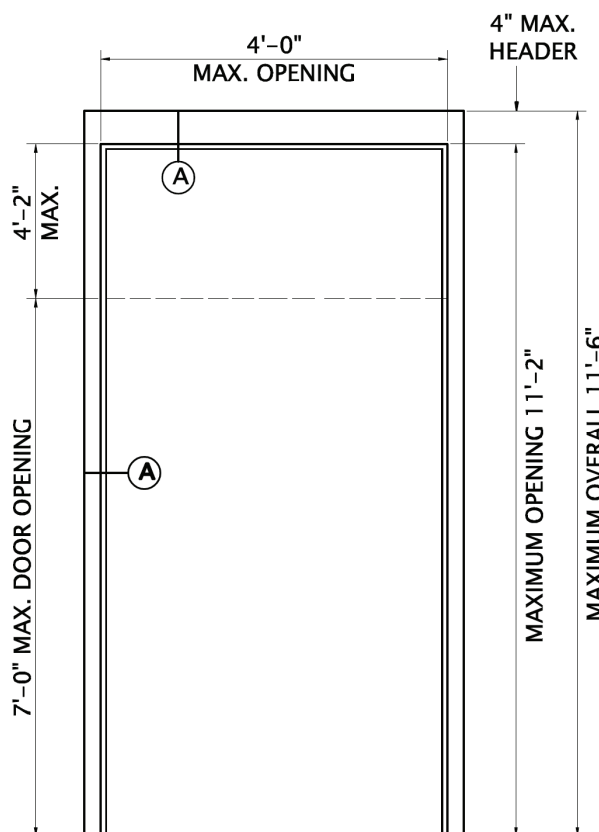


1/4" Wire glass used with listed glazing material combinations. 3'-0" maximum opening width or 4'-0" maximum opening height not to exceed 1,296 square inches exposed light.



T5

**1 3/4" Thick Composite Panel
with steel faces, non-removable.**



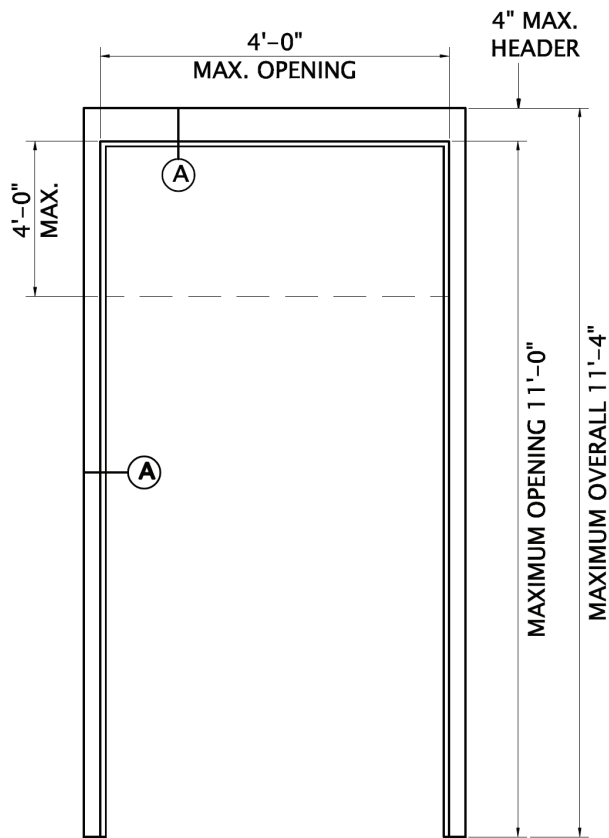
T6

**1 3/4" Thick Honeycomb Core
Panel non-removable.**



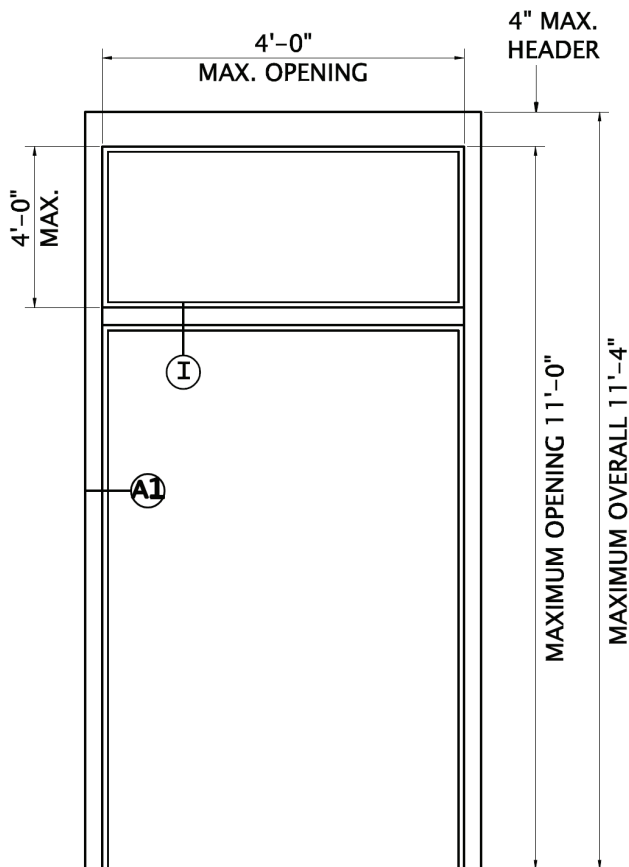
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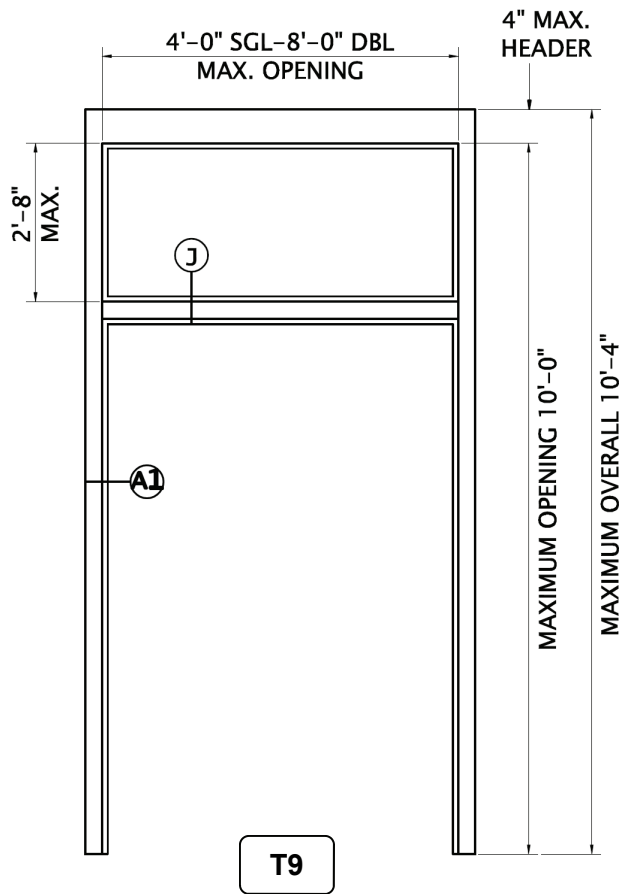
T7

1 3/4" Wood Panel with spring bolts non-removable.

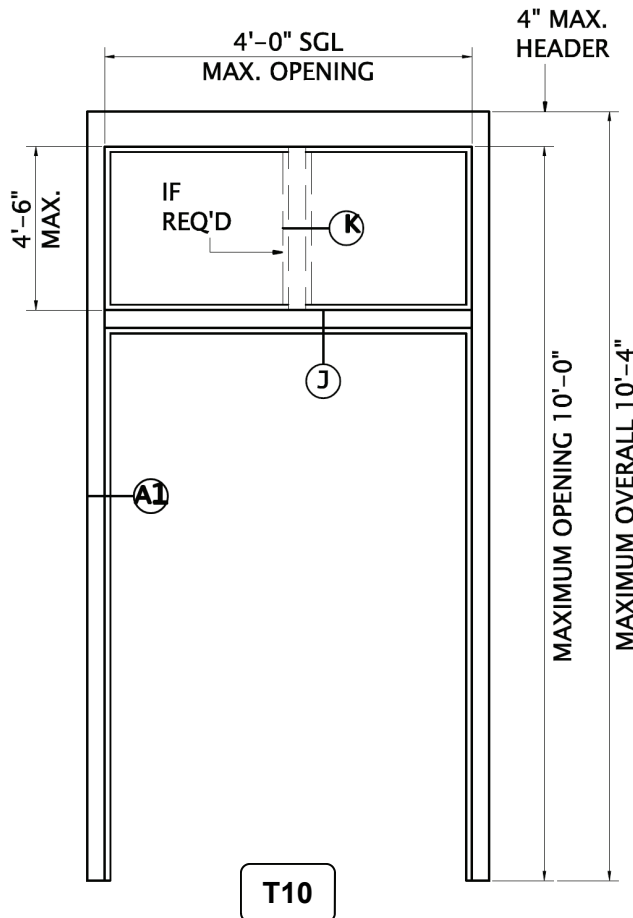


T8

1 3/4" Wood Panel with spring bolts non-removable.



**3/8" Cement Board Panel
non-removable.**



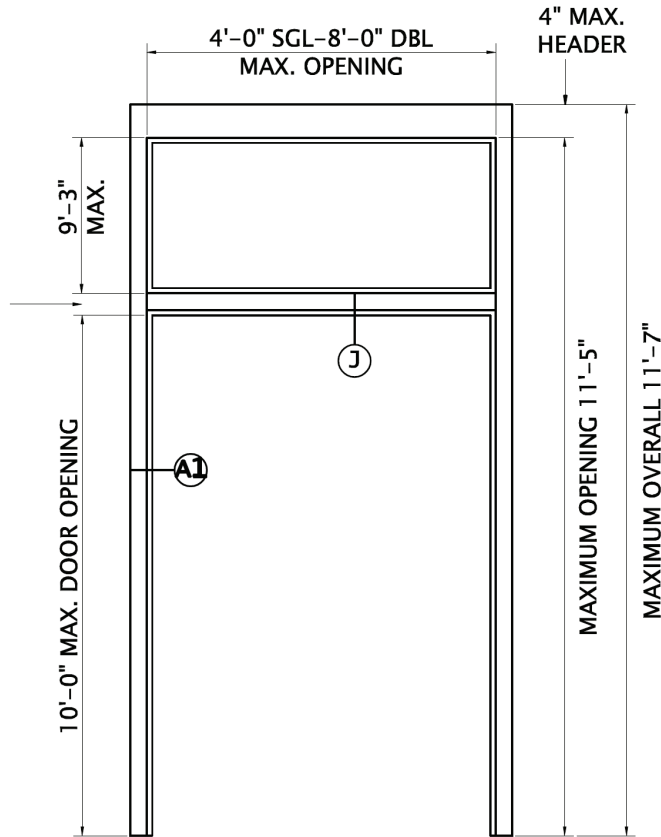
**1/4" Wire glass. 4'-6" maximum opening
not to exceed 1,296 square inches
exposed light with conventional glazing
systems and 3/4" high stops at
transom.**

**See Elevation T4 for optional
information in lieu of this design.**



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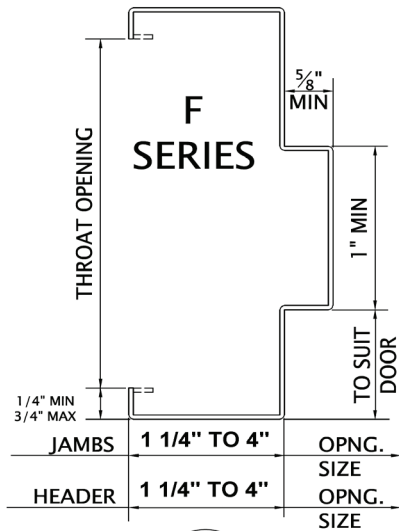
T11

1/4" Listed glazing material combinations up to 9'-3" opening width or height not to exceed 5,268 square inches exposed light.

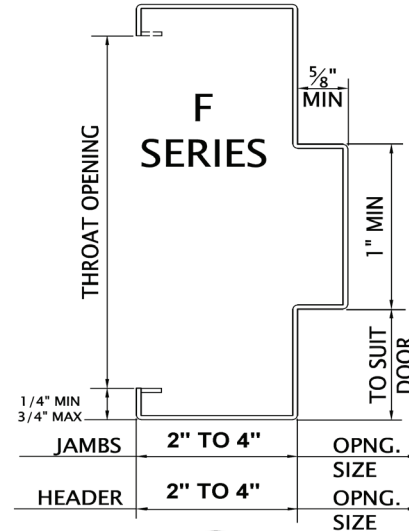


MESKER™

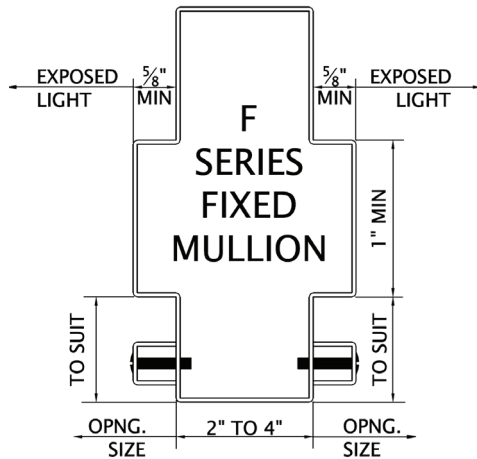
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A

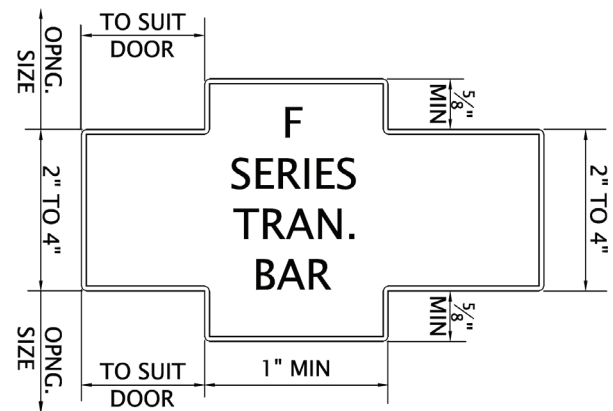


A1



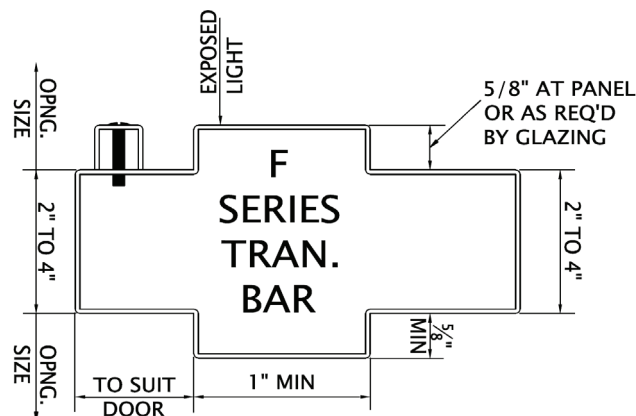
K

MULLION WELDED
AT BOTH FACES



I

NOTE: DOUBLE RABBET PROFILE
RECOMMENDED FOR ASTHETICS



J



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GENERAL NOTES:

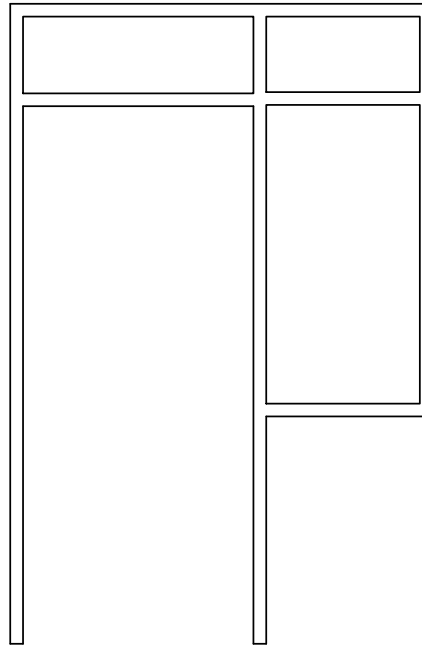
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8. All transom bars and mullions are welded (non-removable).
9. ** ⓐ anchor column indicates that this anchor type is allowed up to 10'-0" overall height. Anchor must be welded to frame.

U.L. TRANSOM AND SIDE LIGHTS OR PANELS ABOVE FLOOR

L-22 MAR 2014

MAX RATING	DETAIL	FRAME FACES	BAR OR MULL FACES	LIGHT OR PANEL MATERIAL	PROFILE	KD	WELD	GAUGE				THROAT		ANCHOR TYPE						WELD ANCHOR	LOOSE ANCHOR	
								18	16	14	12	MIN.	MAX.	AUM MASONRY	AMT MAS TEE	WIRE MASONRY	AER EXIST MAS CONCRETE	ASW STUD	UNA STUD			UNA EXIST MAS CONCRETE
3	TS1	1 1/4" TO 4"	2" TO 4"	1 3/4" STEEL STIFFENED PANEL	A-J-K-L		*	*	*	*		4"	9"	*							*	
3	TS2	1 1/4" TO 4"	2" TO 4"	STIFFENED PANEL	A-J-K-L		*	*	*	*		4"	9"			*	*	**	**		*	
1 1/2	TS1	1 1/4" TO 4"	2" TO 4"	3/8" LAM CEMENT BOARD	A-J-K-L		*	*	*	*		4"	9"	*							*	
1 1/2	TS2	1 1/4" TO 4"	2" TO 4"	CEMENT BOARD	A-J-K-L		*	*	*	*		4"	9"			*	*	**	**		*	
1	TS1	1 1/4" TO 4"	2" TO 4"	LISTED FIRELITE	A-J-K-L		*	*	*	*		4 7/8"	9"	*							*	
1	TS4	1 1/4" TO 4"	2" TO 4"	LISTED FIRELITE	A-J-K-L		*	*	*	*		4 7/8"	9"			*	*	**	**		*	
3/4	TS5	1 1/4" TO 4"	2" TO 4"	LISTED 1/4" GLAZING COMBO	A-J-K-L		*	*	*	*		4"	9"	*							*	
3/4	TS6	1 1/4" TO 4"	2" TO 4"	LISTED 1/4" GLAZING COMBO	A-J-K-L		*	*	*	*		4"	9"			*	*	**	**		*	
20 MIN	TS7	2" TO 4"	2" TO 4"	ANY LISTED GLAZING	A1-J-K-M		*	*	*	*		4"	13"	*	*	*	*	*	*	*	*	*

U.L. TRANSOM AND SIDE LITE OR PANELS ABOVE FLOOR



DETAIL	DOOR OPENING	OVERALL		TRANSOM		SIDE		MAX EXPOSED LIGHT
		WIDTH	HEIGHT	WIDTH	HEIGHT	WIDTH	HEIGHT	
TS1	4080 SNG 8080 DBL	12'-0"	11'-4"	3'-0"	4'-0"	2'-9"	4'-6"	N/A
TS2	4080 SNG 8080 DBL	8'-0"	10'-0"	3'-0"	4'-0"	2'-9"	4'-6"	N/A
TS3	4080 SNG 8080 DBL	12'-0"	11'-4"	4'-6"	6'-5 3/4"	4'-6"	6'-5 3/4"	2,721 SQ. IN.
TS4	4080 SNG 8080 DBL	8'-0"	10'-0"	4'-6"	6'-5 3/4"	4'-6"	6'-5 3/4"	2,721 SQ. IN.
TS5	4080 SNG 8080 DBL	12'-0"	11'-4"	3'-0"	4'-0"	2'-9"	4'-6"	1,296 SQ. IN.
TS6	4080 SNG 8080 DBL	8'-0"	11'-4"	3'-0"	4'-0"	2'-9"	4'-6"	1,296 SQ. IN.
TS7	4'-0" x 10'-0" SNG 8'-0" x 10'-0" DBL	13'-2"	11'-7"	9'-3"	9'-3"	9'-3"	9'-3"	5,268 SQ. IN.



U.L. TRANSOM AND SIDE LIGHTS OR PANELS MOUNTED ON FLOOR

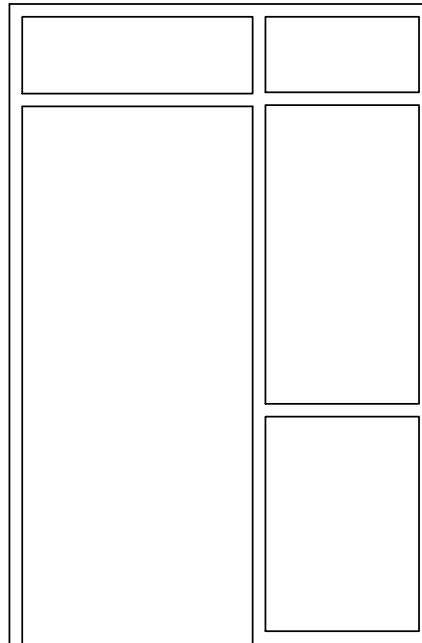
L-24 MAR 2014

MAX RATING	DETAIL	FRAME FACES	BAR OR MULL FACES	LIGHT OR PANEL MATERIAL	PROFILE	KD	WELD	GAUGE				THROAT		ANCHOR TYPE								
								18	16	14	12	MIN.	MAX.	AUM MASONRY	AMT MAS TEE	WIRE MASONRY	AER EXIST MAS CONCRETE	ASW STUD	UNA STUD	UNA EXIST MAS CONCRETE	WELD ANCHOR	LOOSE ANCHOR
3	TS8	1 1/4" TO 4"	2" TO 4"	1 3/4" STEEL STIFFENED PANEL	A-1-K-L		*	*	*	*		4"	9"	*							*	
3	TS9	1 1/4" TO 4"	2" TO 4"	STIFFENED PANEL	A-1-K-L		*	*	*	*		4"	9"					*	*	**	**	*
1 1/2	TS8	1 1/4" TO 4"	2" TO 4"	3/8" LAM CEMENT BOARD	A-1-K-L		*	*	*	*		4"	9"	*							*	
1 1/2	TS9	1 1/4" TO 4"	2" TO 4"	3/8" LAM CEMENT BOARD	A-1-K-L		*	*	*	*		4"	9"				*	*	**	**	*	
1	TS10	1 1/4" TO 4"	2" TO 4"	LISTED FIRELITE	A-1-K-L		*	*	*	*		4 7/8"	9"	*							*	
1	TS11	1 1/4" TO 4"	2" TO 4"	LISTED FIRELITE	A-1-K-L		*	*	*	*		4 7/8"	9"				*	*	**	**	*	
3/4	TS12	1 1/4" TO 4"	2" TO 4"	LISTED 1/4" GLAZING COMBO	A-1-K-L		*	*	*	*		4"	9"	*							*	
3/4	TS13	1 1/4" TO 4"	2" TO 4"	LISTED 1/4" GLAZING COMBO	A-1-K-L		*	*	*	*		4"	9"				*	*	**	**	*	
20 MIN	TS14	2" TO 4"	2" TO 4"	ANY LISTED GLAZING	A-1-K-M		*	*	*	*		4"	13"	*	*	*	*	*	*	*	*	*



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U.L. TRANSOM AND SIDE LITES OR PANELS MOUNTED ON FLOOR



DETAIL	DOOR OPENING	OVERALL		TRANSOM		SIDE		MAX EXPOSED LIGHT
		WIDTH	HEIGHT	WIDTH	HEIGHT	WIDTH	HEIGHT	
TS8	4080 SNG 8080 DBL	12'-0"	11'-4"	3'-0"	4'-0"	2'-9"	4'-6"	N/A
TS9	4080 SNG 8080 DBL	8'-0"	10'-0"	3'-0"	4'-0"	2'-9"	4'-6"	N/A
TS10	4080 SNG 8080 DBL	12'-0"	11'-4"	4'-6"	6'-5 3/4"	4'-6"	6'-5 3/4"	2,721 SQ. IN.
TS11	4080 SNG 8080 DBL	8'-0"	10'-0"	4'-6"	6'-5 3/4"	4'-6"	6'-5 3/4"	2,721 SQ. IN.
TS12	4080 SNG 8080 DBL	12'-0"	11'-4"	3'-0"	4'-0"	2'-9"	4'-6"	1,296 SQ. IN.
TS13	4080 SNG 8080 DBL	8'-0"	11'-4"	3'-0"	4'-0"	2'-9"	4'-6"	1,296 SQ. IN.
TS14	4'-0" x 10'-0" SNG 8'-0" x 10'-0" DBL	13'-2"	11'-7"	9'-3"	9'-3"	9'-3"	9'-3"	5,268 SQ. IN.



GENERAL NOTES:

1. All doors shall be prepared for swinging, closing and latching hardware. Generally types include:

Swinging:

- Butt hinges per NFPA 80
- UL Listed continuous hinges
- UL Listed pivots or pivot sets (single acting)

Closing:

- Surface closers
- Concealed closers
- Track type closers
- Mortise (indoor) closers
- UL Listed spring hinges (single acting)
- UL Listed floor closers (single acting)

Latching:

- UL Listed single point latches (mortise, cylindrical, unit, hospital)
- UL Listed mortise or rim fire exit devices (single doors)
- UL Listed rim fire exit devices with mullion (double doors)
- UL Listed mortise x vertical rod fire exit devices (double doors)
- UL Listed vertical rod fire exit devices (2) (double doors)
- UL Listed auxiliary-supplemental lock with primary latching
- UL Listed flush or surface bolts (inactive doors)

2. All doors have been tested or evaluated for compliance with UL-10C (positive pressure) or UL-10B (neutral pressure) or NFPA-252.

3. All doors may bear smoke control marking (S-Labels) validated by installation (at jobsite) of listed gaskets.

4. All doors 1 3/4" thick unless noted.

5. Louvers cannot be used in doors rated over 1 1/2 hours or in doors having glazing, temperature rise rating or fire exit hardware. Where permitted, louvers cannot exceed 24" in width or height.

6. See page XX for glazing dimensions, rating, material, etc.

7. Chart is intended for reference only. Changes will frequently occur increasing capability or data noted.

U.L. FIRE RATED COMPOSITE DOORS

L-27 MAR 2014

MAX RATING	SINGLE	DOUBLE	MAX SIZE EACH DOOR LEAF	GAUGE				CORE				ASTRAGAL			LATCHING					LOUVER	GLAZING	250° TEMP RISE	
				20	18	16	14	POLYSTYRENE	HONEYCOMB	STEEL STIFFENED	TEMP RISE CORE BOARD	FULL FLUSH	SEAMLESS	REQUIRED	OPTION	N/A	SINGLE POINT	RIM FEH	MORT FEH				V-ROD FEH (2)
3	*	*	4'-0" x 8'-0"	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*
3	*	*	4'-0" x 7'-2"	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*
1 1/2	*	*	4'-0" x 8'-0"	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*
1 1/2	*	*	4'-0" x 7'-2"	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*
3	*	*	4'-0" x 8'-0"	*	*	*				*	*	*	*	*	*	*	*	*	*	*	*		*
1 1/2	*	*	4'-0" x 10'-0"	*	*	*		*			*	*	*	*	*	*	*	*	*	*	*		*
3	*	*	4'-0" x 8'-0"	*	*	*		*			*	*	*	*	*	*	*	*	*	*	*		*
1 1/2	*	*	4'-0" x 10'-0"	*	*	*		*			*	*	*	*	*	*	*	*	*	*	*		*
1 1/2	*	*	4'-0" x 8'-0"	*	*	*		*			*	*	*	*	*	*	*	*	*	*	*		*
1 1/2	*	*	4'-0" x 7'-2"	*	*	*			*			*	*	*	*	*	*	*	*	*	*		*
3	*	*	4'-0" x 8'-0"	*	*	*			*			*	*	*	*	*	*	*	*	*	*		*
1 1/2	*	*	4'-0" x 8'-0"	*	*	*			*			*	*	*	*	*	*	*	*	*	*		*



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U.L. FIRE RATED STEEL STIFFENED DOORS

L-28 MAR 2014

MAX RATING	SINGLE	DOUBLE	MAX SIZE EACH DOOR LEAF	GAUGE				CORE				ASTRAGAL				LATCHING							
				20	18	16	14	POLYSTYRENE	HONEYCOMB	STEEL STIFFENED	TEMP RISE CORE BOARD	FULL FLUSH	SEAMLESS	REQUIRED	OPTION	N/A	SINGLE POINT	RIM FEH	MORT FEH	V-ROD FEH (2)	MORT x VR-FEH	LOUVER	GLAZING
3		•	4'-0" x 8'-0"			•				•		•		•					•				
1 1/2		•	4'-0" x 8'-0"			•				•		•		•		•			•				
20 MIN	•	•	4'-0" x 9'-0"			•				•		•		•		•					•		
1 1/2	•	•	3'-8" x 7'-2"			•				•		•		•		•				•		•	



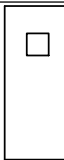
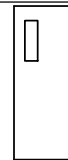
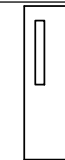


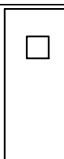
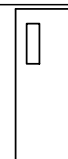
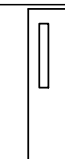
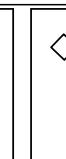
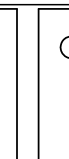
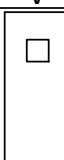
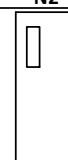
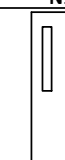
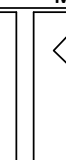

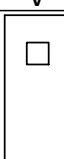
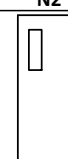

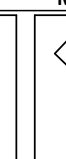

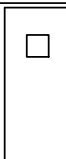

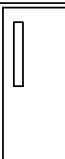
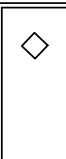
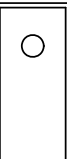
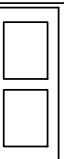




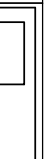
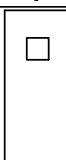
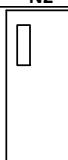
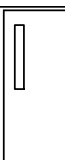
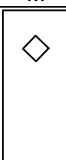
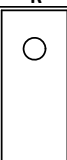
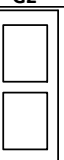
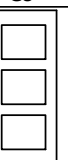




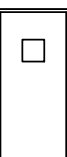
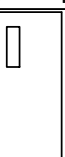

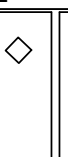



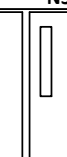
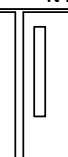



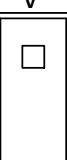
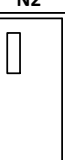

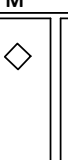
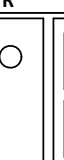


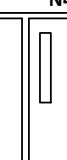
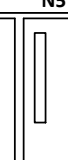



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GLAZING IN UL FIRE DOORS

RATING

GLAZING

DOOR STYLES (EXAMPLES ONLY)

ALL WITH 250 ° TEMP RISE	100 SQ. IN PER DOOR												
			V	N2	N1	M	R						
3 HOUR	100 SQ. IN FIRE LITE												
			V	N2	N1	M	R						
1 1/2 HOUR	100 SQ. IN												
			V	N2	N1	M	R						
1 HOUR	100 SQ. IN												
			V	N2	N1	M	R						
1 - 1 1/2 HOUR	PILKINGTON WIRE WITH FG 3000. 522 SQ. IN. EACH UP TO 4 LITE. 12" X 46" MAX.												
		V	N2	N1	M	R	G2	G3	N3	N4	N5	G	
3/4 HOUR	1,296 SQ. IN. PER LITE. 54" MAX WIDTH OR HEIGHT.												
		V	N2	N1	M	R	G2	G3	N3	N4	N5	G	
3/4 - 1/3 HOUR (20 MIN)	PILKINGTON WIRE WITH FG 3000. 2856 SQ. IN. PER LITE. 34" WIDE OR 84" HIGH												
		V	N2	N1	M	R	G2	G3	N3	N4	N5	G	FG
20 MIN	ANY GLAZING. 3,289 SQ.IN. PER LITE. MAX 35 3/4" WIDE OR 92" HIGH.												
		V	N2	N1	M	R	G2	G3	N3	N4	N5	G	FG

1. DOOR STYLE F IS PERMITTED FOR ALL HOURLY RATINGS.
2. STOP HEIGHT 5/8" UP TO 100 SQ. IN. EXPOSED OR WHERE LISTED GLASS IS USED IN COMBINATION WITH LISTED COMBINATIONS.



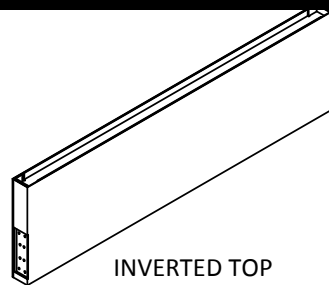
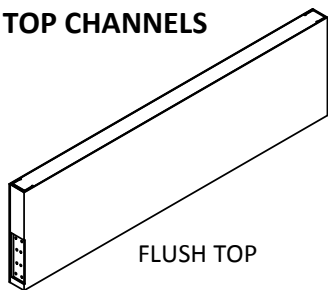
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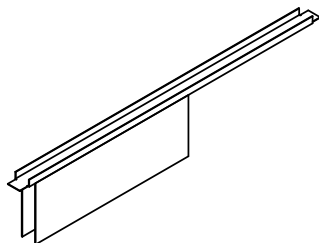
Submittals

NP Doors	SUB-1
NU Doors.....	SUB-2
NF Doors.....	SUB-3
NH Doors.....	SUB-4
ST Doors	SUB-5
NDD Doors	SUB-6
Bullet Assembly.....	SUB-7
Door Preps	SUB-8
F Series	SUB-9
FDJ Series	SUB-10
FF Series	SUB-11
RF Series.....	SUB-12
Anchors	SUB-13

① TOP CHANNELS



② CLOSER REINFORCEMENT



③ VERTICAL EDGE

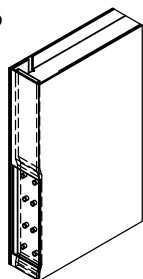
STANDARD



NVS

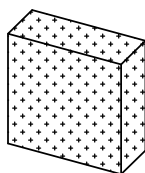


④ HINGE PREP



⑤ CORE

POLYSTRENE



⑥ LOCK EDGE

BEVELED EDGE



SQUARE EDGE



⑦ LOCK PREP

FOR LOCK PREPS
SEE DOOR PREP PAGE

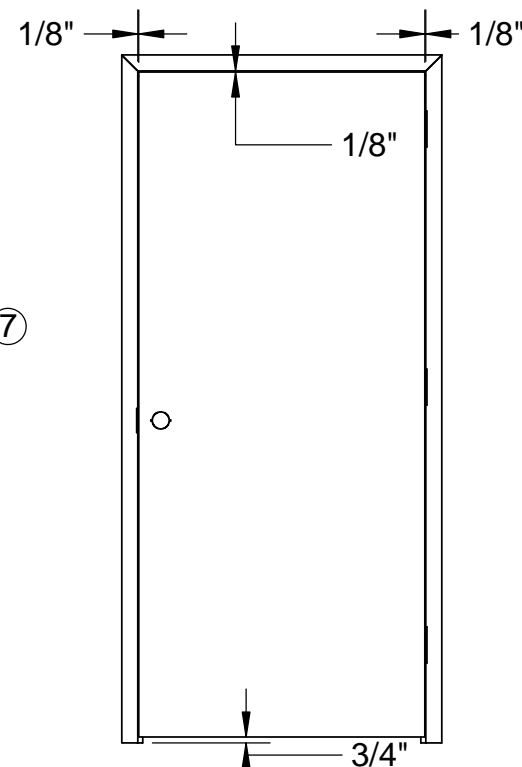
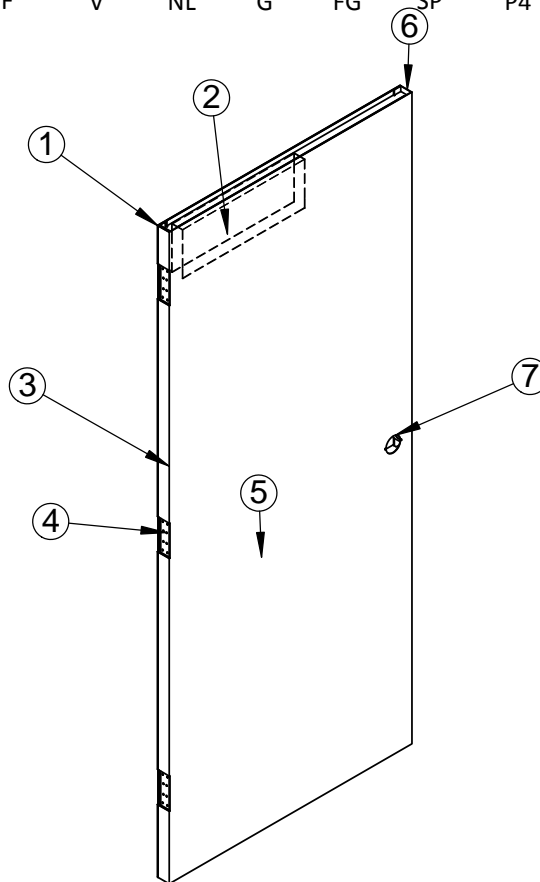
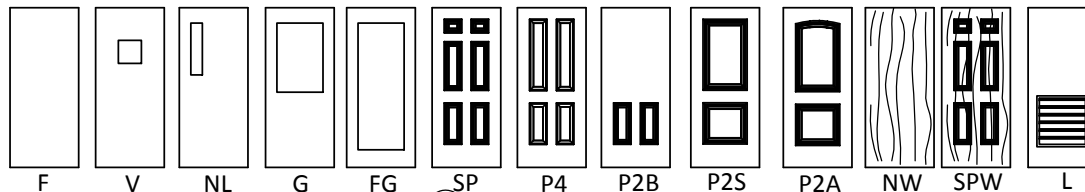
DOOR MEETS OR EXCEEDS ANSI 250.4
PERFORMANCE TEST:

20 GAUGE STEEL (500,000 CYCLES)

18 & 16 GAUGE STEEL (1,000,000
CYCLES)

DOORS MEET LEED REQUIREMENTS
AND BUY AMERICAN STANDARDS.

LABELING AGENCIES:
UNDERWRITES LABRATORY INC.
WARNOCK HERSEY INTL.
FACTORY MUTUAL SYSTEM



NP SERIES DOOR

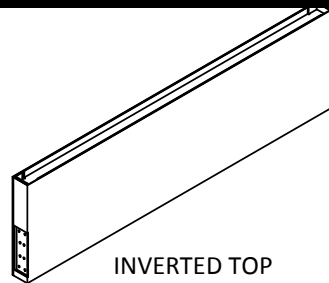
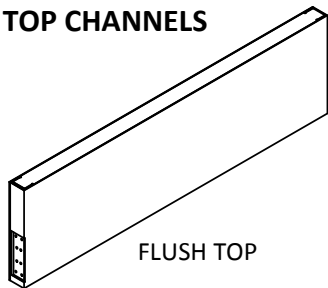
AVAILABLE IN:
14, 16, 18, 20
GAUGE
CR, A60



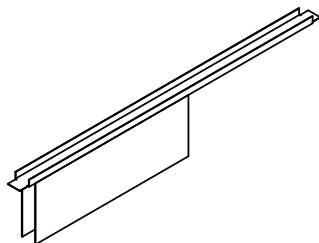
SUB-1

DRAWN BY _____DATE_____		ISSUE DATE	REVISIONS	BY
CHECKED _____DATE_____				
SHT OF	JOB NO.			

① TOP CHANNELS



② CLOSER REINFORCEMENT



③ VERTICAL EDGE

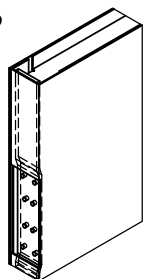
STANDARD



NVS

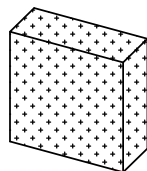


④ HINGE PREP

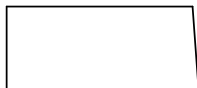


⑤ CORE

POLYURTHANE



⑥ LOCK EDGE BEVELED EDGE



SQUARE EDGE



⑦ LOCK PREP

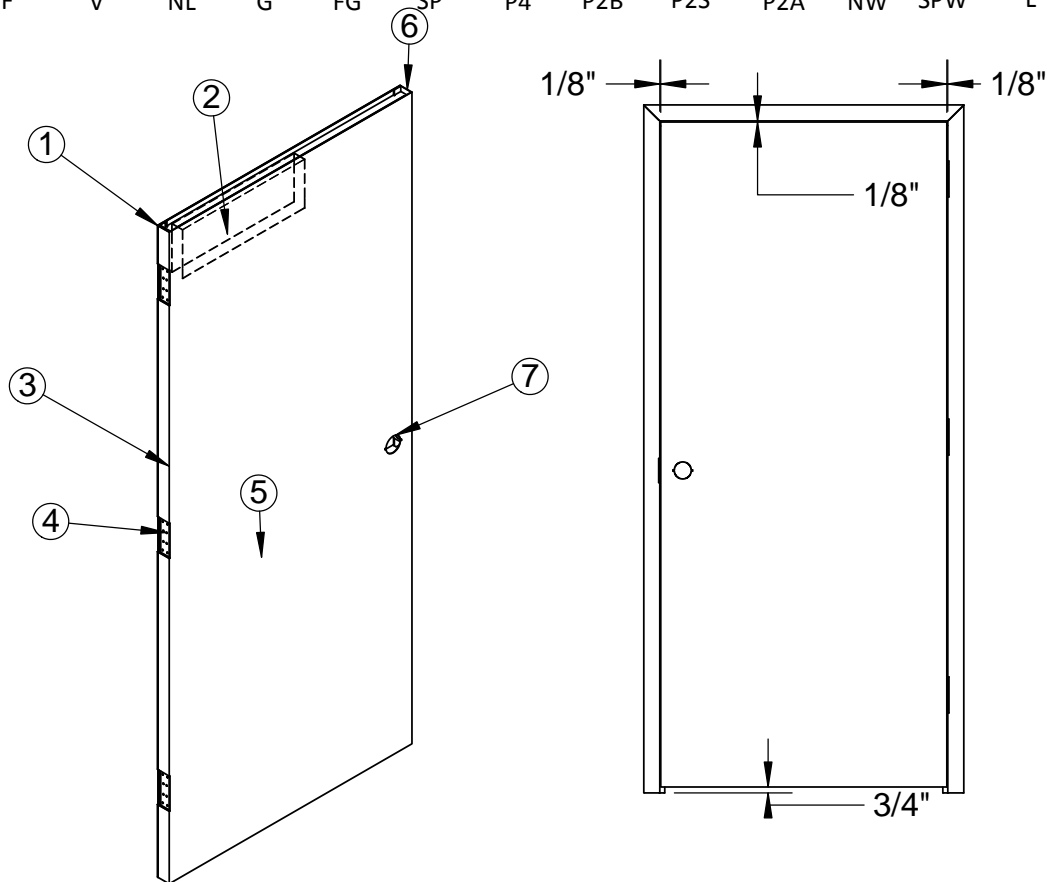
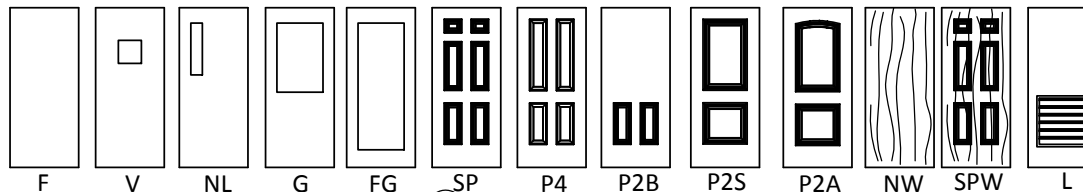
FOR LOCK PREPS
SEE DOOR PREP PAGE

DOOR MEETS OR EXCEEDS ANSI 250.4
PERFORMANCE TEST:

20 GAUGE STEEL (500,000 CYCLES)

18 & 16 GAUGE STEEL (1,000,000
CYLCLES)

DOORS MEET LEED REQUIREMENTS
AND BUY AMERICAN STANDARDS.



NU SERIES DOOR

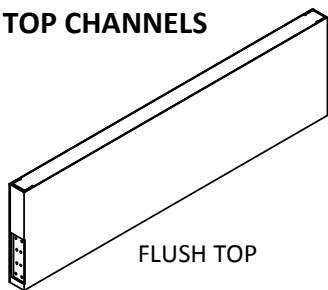
AVAILABLE IN:
14, 16, 18, 20
GAUGE
CR, A60



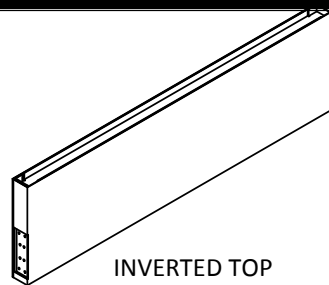
SUB-2

DRAWN BY _____DATE_____		ISSUE DATE	REVISIONS	BY
CHECKED _____DATE_____				
SHT OF	JOB NO.			

① TOP CHANNELS

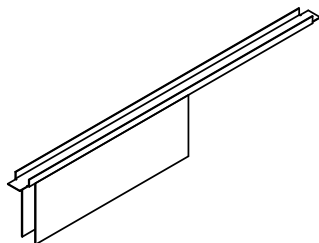


FLUSH TOP



INVERTED TOP

② CLOSER REINFORCEMENT

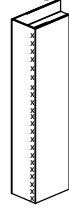


③ VERTICAL EDGE

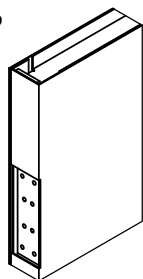
STANDARD



NVS

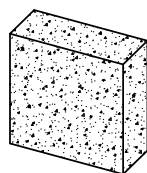


④ HINGE PREP

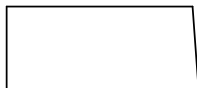


⑤ CORE

FIBER BOARD



⑥ LOCK EDGE BEVELED EDGE



SQUARE EDGE



⑦ LOCK PREP

FOR LOCK PREPS
SEE DOOR PREP PAGE

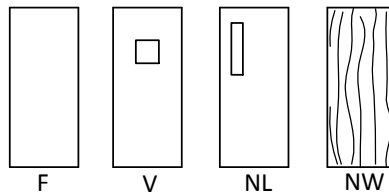
DOOR MEETS OR EXCEEDS ANSI 250.4
PERFORMANCE TEST:

20 GAUGE STEEL (500,000 CYCLES)

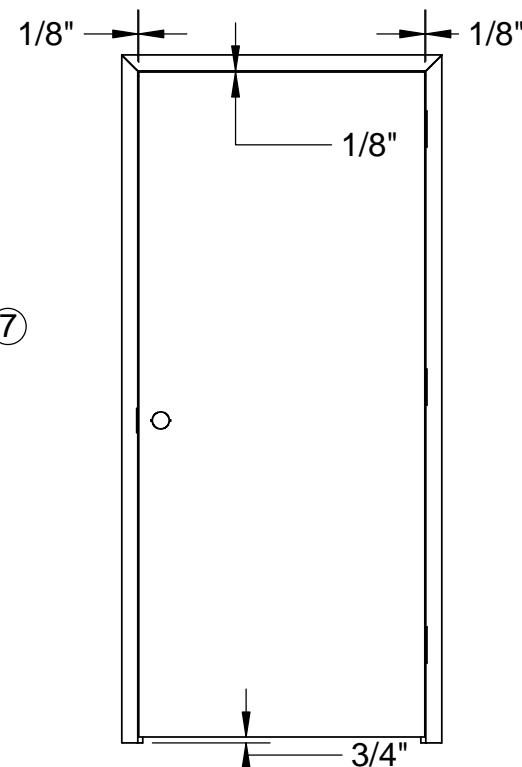
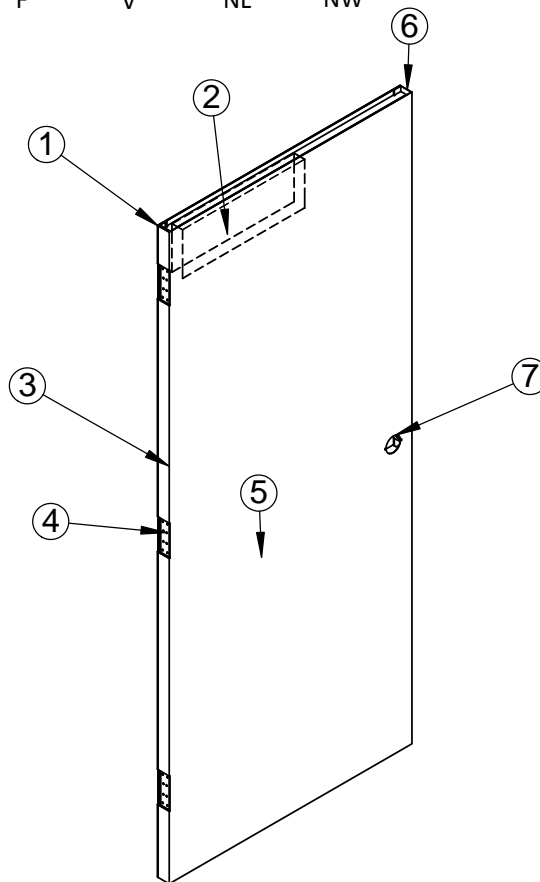
18 & 16 GAUGE STEEL (1,000,000
CYCLES)

DOORS MEET LEED REQUIREMENTS
AND BUY AMERICAN STANDARDS.

LABELING AGENCIES:
UNDERWRITES LABRATORY INC.
WARNOCK HERSEY INTL.
FACTORY MUTUAL SYSTEM



IF A TEMPERATURE RISE DOOR IS DESIRED, THEN
ONLY 100 SQUARE INCHES OF GLASS ALLOWED.



NF SERIES DOOR TEMPERATURE RISE (250)

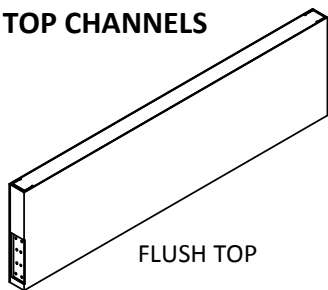
AVAILABLE IN:
14, 16, 18, 20
GAUGE
CR, A60



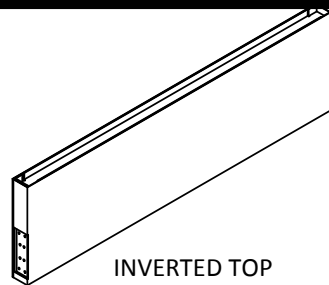
SUB-3

DRAWN BY _____ DATE _____		ISSUE DATE	REVISIONS	BY
CHECKED _____ DATE _____				
SHT OF	JOB NO.			

1 TOP CHANNELS

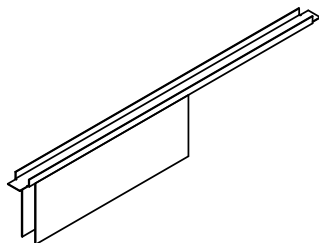


FLUSH TOP



INVERTED TOP

2 CLOSER REINFORCEMENT



3 VERTICAL EDGE

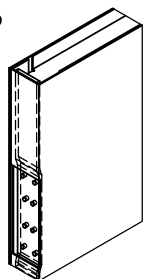
STANDARD



NVS

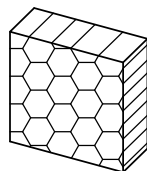


4 HINGE PREP



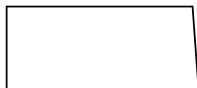
5 CORE

POLYSTRENE



6 LOCK EDGE

BEVELED EDGE



SQUARE EDGE



7 LOCK PREP

FOR LOCK PREPS
SEE DOOR PREP PAGE

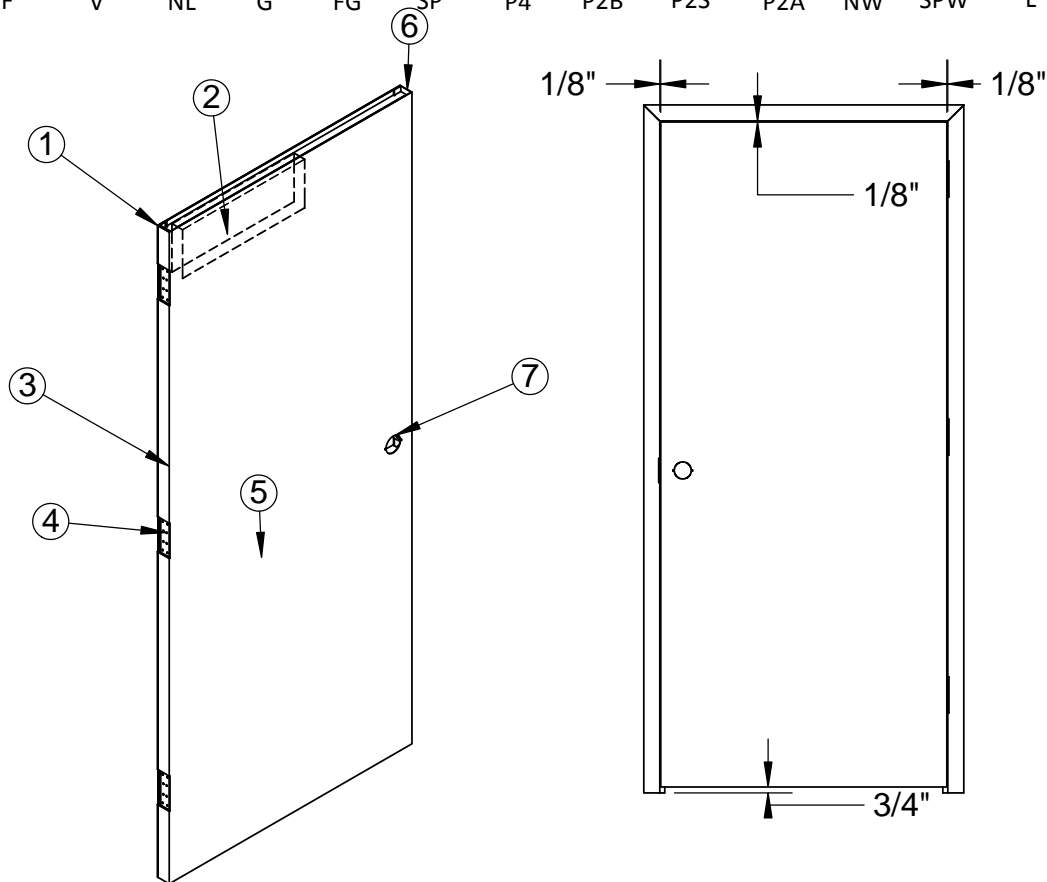
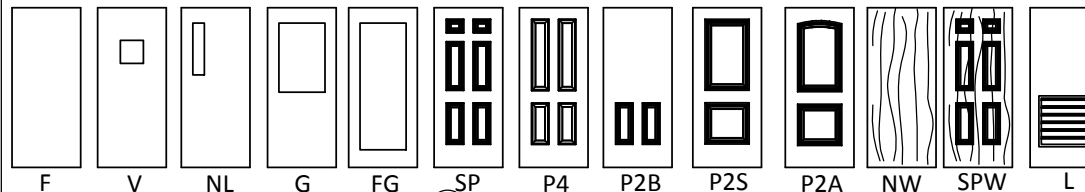
DOOR MEETS OR EXCEEDS ANSI 250.4
PERFORMANCE TEST:

20 GAUGE STEEL (500,000 CYCLES)

18 & 16 GAUGE STEEL (1,000,000
CYCLES)

DOORS MEET LEED REQUIREMENTS
AND BUY AMERICAN STANDARDS.

LABELING AGENCIES:
UNDERWRITES LABRATORY INC.
WARNOCK HERSEY INTL.
FACTORY MUTUAL SYSTEM



NH SERIES DOOR

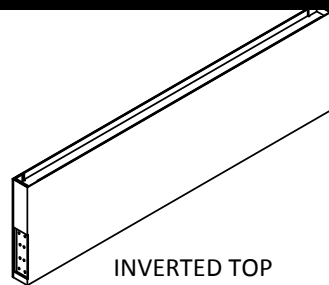
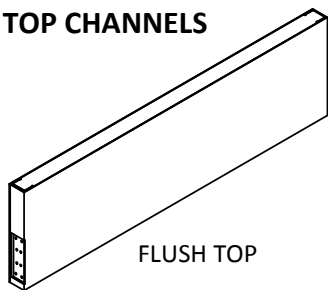
AVAILABLE IN:
14, 16, 18, 20
GAUGE
CR, A60



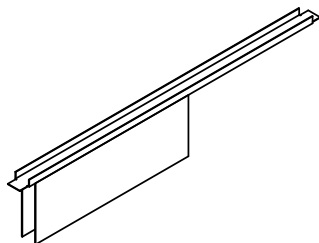
SUB-4

DRAWN BY _____DATE_____		ISSUE DATE	REVISIONS	BY
CHECKED _____DATE_____				
SHT OF	JOB NO.			

① TOP CHANNELS



② CLOSER REINFORCEMENT



③ VERTICAL EDGE

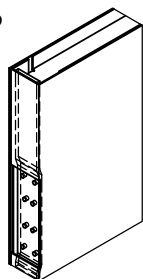
STANDARD



NVS

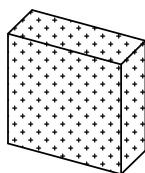


④ HINGE PREP



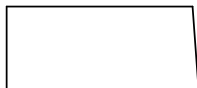
⑤ CORE

POLYSTRENE



⑥ LOCK EDGE

BEVELED EDGE



SQUARE EDGE



⑦ LOCK PREP

FOR LOCK PREPS
SEE DOOR PREP PAGE

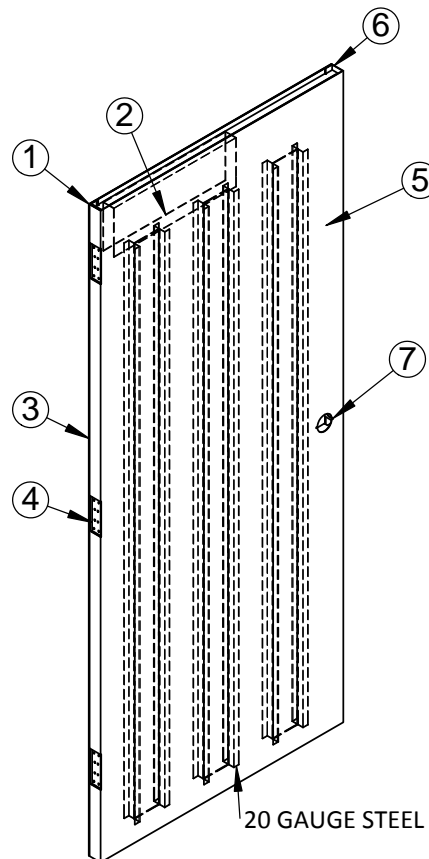
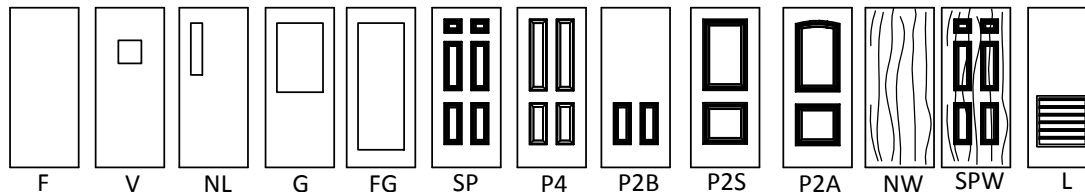
DOOR MEETS OR EXCEEDS ANSI 250.4
PERFORMANCE TEST:

20 GAUGE STEEL (500,000 CYCLES)

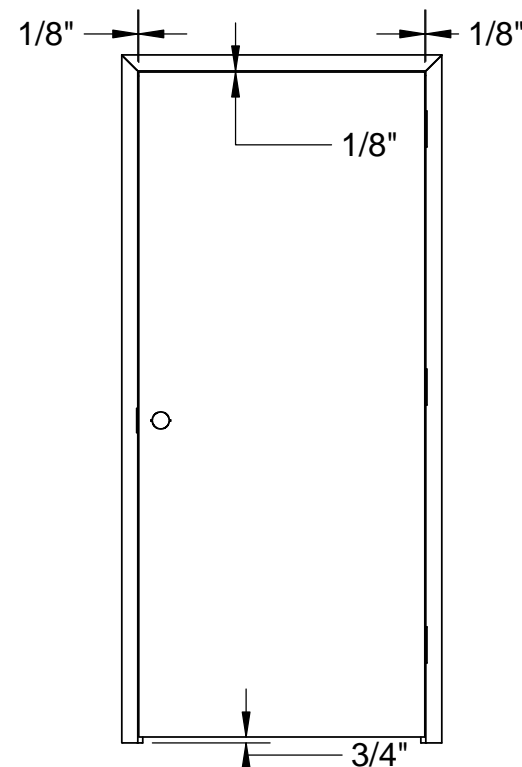
18 & 16 GAUGE STEEL (1,000,000
CYCLES)

DOORS MEET LEED REQUIREMENTS
AND BUY AMERICAN STANDARDS.

LABELING AGENCIES:
UNDERWRITES LABRATORY INC.
WARNOCK HERSEY INTL.
FACTORY MUTUAL SYSTEM



20 GAUGE STEEL STIFFENER WELED EVERY 6"



ST SERIES DOOR

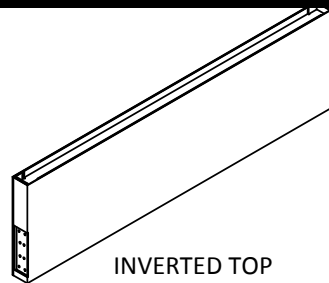
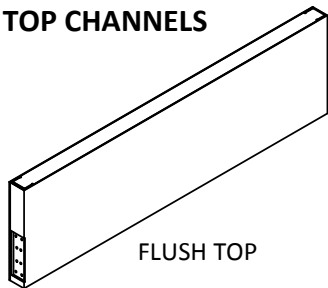
AVAILABLE IN:
14, 16, 18, 20
GAUGE
CR, A60



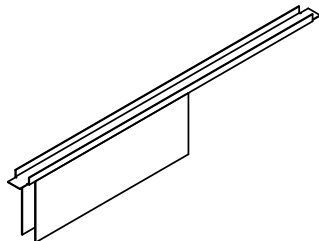
SUB-5

DRAWN BY _____ DATE _____		ISSUE DATE	REVISIONS	BY
CHECKED _____ DATE _____				
SHT OF	JOB NO.			

① TOP CHANNELS



② CLOSER REINFORCEMENT



③ VERTICAL EDGE

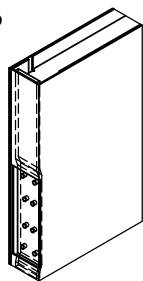
STANDARD



NVS

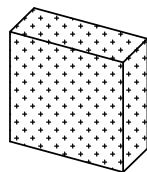


④ HINGE PREP



⑤ CORE

POLYSTRENE



⑥ LOCK EDGE BEVELED EDGE



SQUARE EDGE



⑦ LOCK PREP

FOR LOCK PREPS
SEE DOOR PREP PAGE

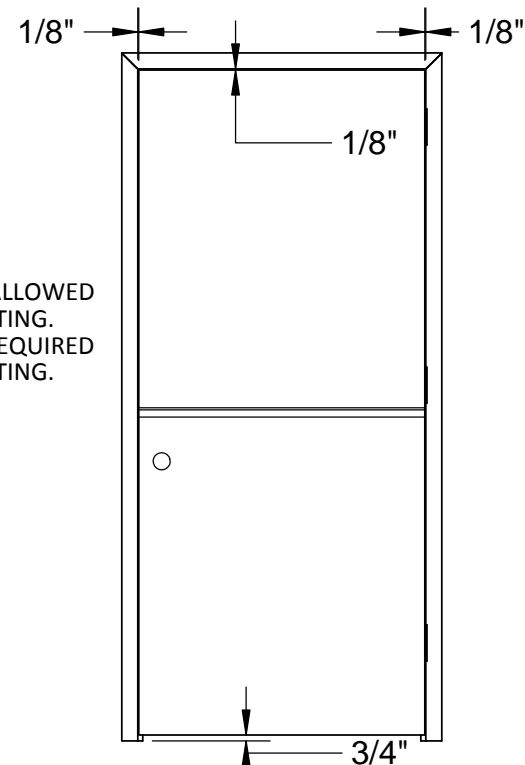
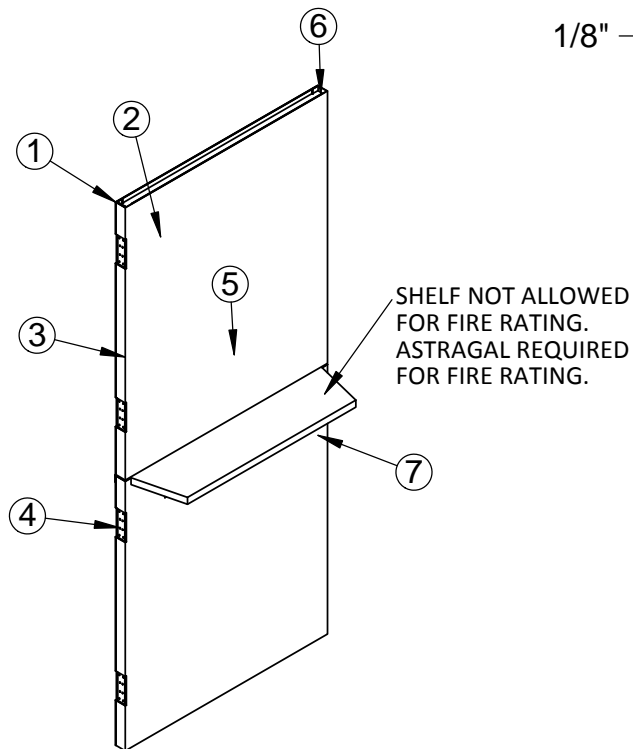
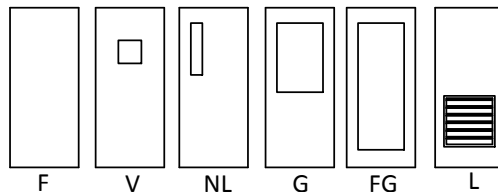
DOOR MEETS OR EXCEEDS ANSI 250.4
PERFORMANCE TEST:

20 GAUGE STEEL (500,000 CYCLES)

18 & 16 GAUGE STEEL (1,000,000
CYCLES)

DOORS MEET LEED REQUIREMENTS
AND BUY AMERICAN STANDARDS.

LABELING AGENCIES:
UNDERWRITES LABRATORY INC.
WARNOCK HERSEY INTL.
FACTORY MUTUAL SYSTEM



NDD SERIES DOOR DUTCH DOOR

AVAILABLE IN:
14, 16, 18, 20
GAUGE
CR, A60

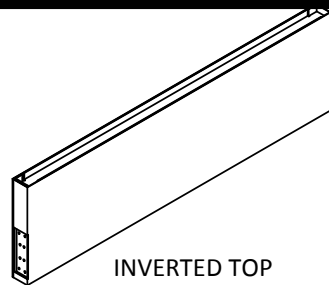
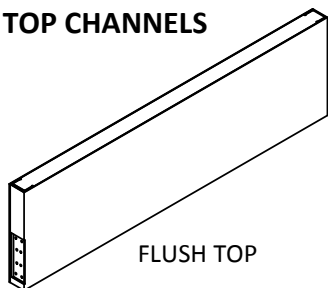


MESKER™

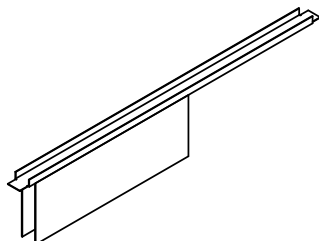
SUB-6

DRAWN BY _____DATE_____		ISSUE DATE	REVISIONS	BY
CHECKED _____DATE_____				
SHT OF	JOB NO.			

① TOP CHANNELS



② CLOSER REINFORCEMENT



③ VERTICAL EDGE

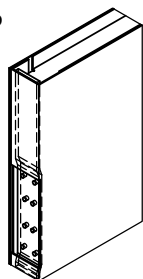
STANDARD



NVS

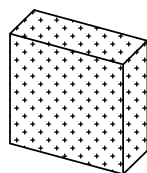


④ HINGE PREP

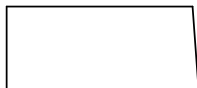


⑤ CORE

POLYSTRENE



⑥ LOCK EDGE BEVELED EDGE



SQUARE EDGE



⑦ LOCK PREP

FOR LOCK PREPS
SEE DOOR PREP PAGE

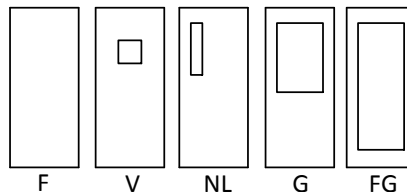
DOOR MEETS OR EXCEEDS ANSI 250.4
PERFORMANCE TEST:

20 GAUGE STEEL (500,000 CYCLES)

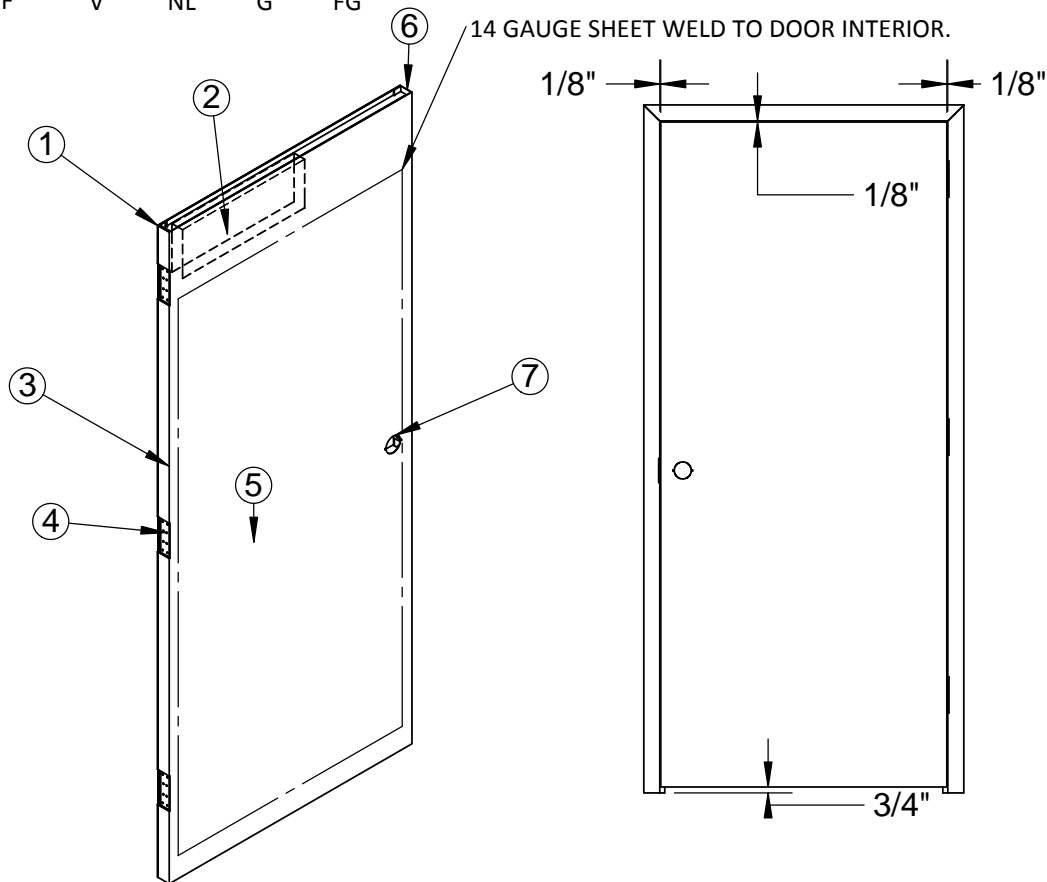
18 & 16 GAUGE STEEL (1,000,000
CYLCLES)

DOORS MEET LEED REQUIREMENTS
AND BUY AMERICAN STANDARDS.

LABELING AGENCIES:
UNDERWRITES LABRATORY INC.
WARNOCK HERSEY INTL.
FACTORY MUTUAL SYSTEM



MUST HAVE BULLET RATED GLASS.



BULLET ASSEMBLY

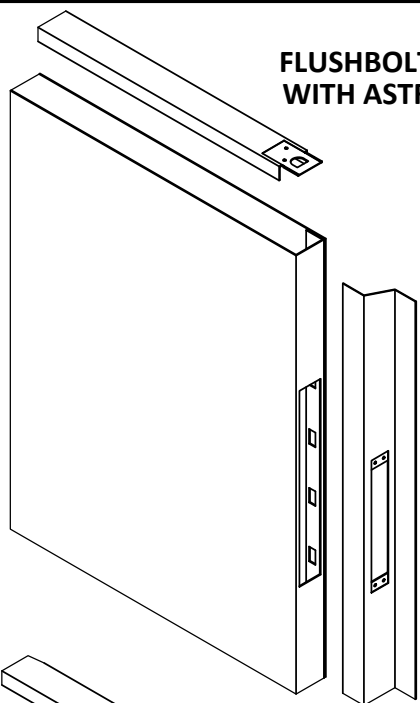
AVAILABLE IN:
14, 16, 18, 20
GAUGE
CR, A60



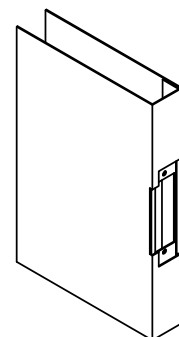
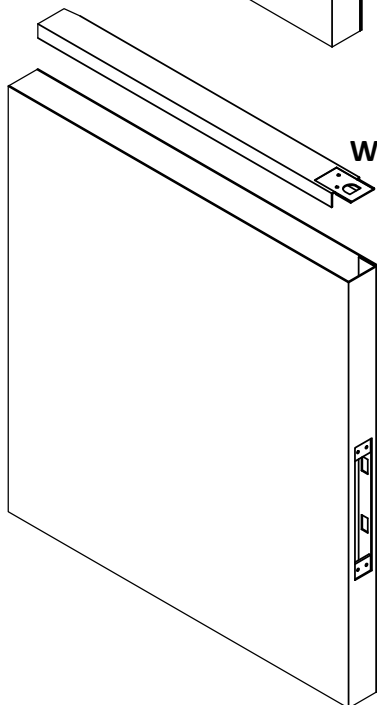
SUB-7

DRAWN BY _____ DATE _____		ISSUE DATE	REVISIONS	BY
CHECKED _____ DATE _____				
SHT OF	JOB NO.			

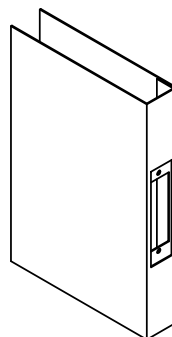
**FLUSHBOLT PREP
WITH ASTRAGAL**



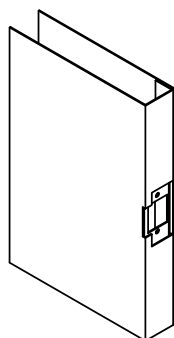
**FLUSHBOLT PREP
WITHOUT ASTRAGAL**



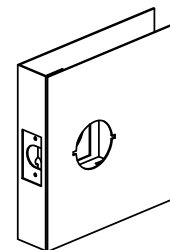
U STRIKE PREP



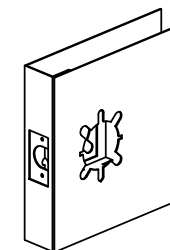
**NON HANDED
STRIKE**



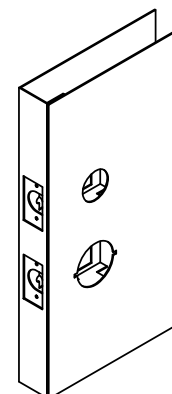
C STRIKE PREP



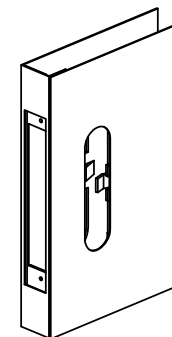
C4



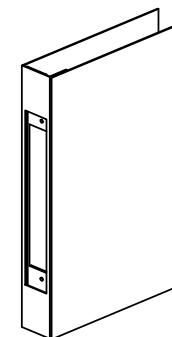
C4 TURTLE



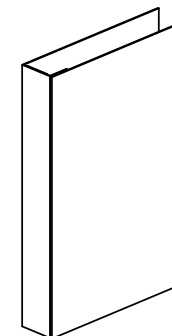
INTERCONNECTED



M



MB



MBN

FOR ADDITIONAL DOOR PREPS, SEE THE
DOOR SECTION OF THE TECHNICAL DATA
MANUAL.



SUB-8

DRAWN BY _____ DATE _____		ISSUE DATE	REVISIONS	BY _____
CHECKED _____ DATE _____				
SHT OF	JOB NO.			

HINGE SPACING															
OPENING HEIGHT	6'8"			7'0"			7'2"			7'10"			8'0"		
DIMENSION	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
1 3/4" DOOR SPACING	7 1/4"	2@ 30 1/4"	12 1/4"	7 1/4"	2@ 32 1/4"	12 1/4"	7 1/4"	2@ 33 1/4"	12 1/4"	7 1/4"	3@ 25 1/4"	10 1/4"	7 1/4"	3@ 25 1/2"	12 1/4"
1 3/8" DOOR SPACING				6 3/4"	2@ 32 3/4"	11 3/4"	6 3/4"	2@ 33 3/4"	11 3/4"						

BASE ANCHOR
DIMPLES

The diagram illustrates the dimensions and strike location for a single swing door. The main view shows the door in its closed position, swinging to the right. Key dimensions and labels include:

- NOMINAL DOOR OPENING WIDTH:** The width of the opening through which the door swings.
- DIM A:** The height from the top of the door frame to the center of the strike.
- DIM B:** The height from the center of the strike to the bottom of the door frame.
- DIM C:** The height from the bottom of the door frame to the center of the strike.
- STRIKE LOCATION 40 5/16":** The distance from the bottom of the door frame to the center of the strike.
- SINGLE SWING:** Indicated by a curved arrow showing the door's swing direction.

Two circular insets provide cross-sectional views of the door and frame assembly. The left inset shows the door in its closed position, with a curved arrow labeled **A** indicating the swing direction. The right inset shows the door in its open position, with a curved arrow labeled **B** indicating the swing direction.

STRIKE
LOCATION
40 5/16"

SINGLE SWING

FOR LABELING DETAILS, ANCHORING OPTIONS, AND DOOR HANDING & SWING, PLEASE SEE THE APPLICABLE SECTION OF THE TECHNICAL DATA MANUAL.



SUB-10

DRAWN BY _____ DATE _____

ISSUE DATE

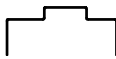

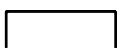
REVISIONS

BY

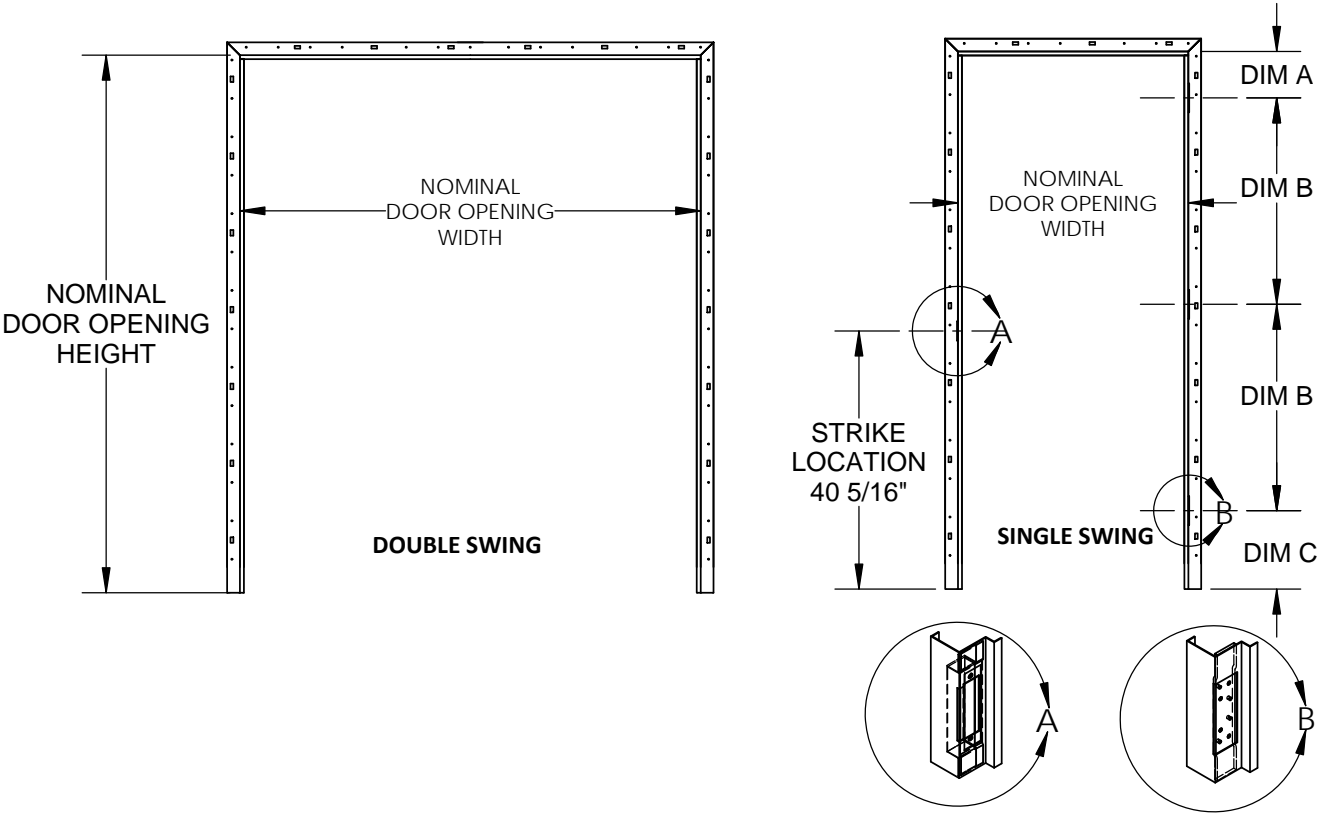
CHECKED _____ DATE _____

SHT
OF

JOB NO.

PROFILES
DOUBLE RABBET 
SINGLE RABBET 
CASED OPEN 


HINGE SPACING															
OPENING HEIGHT	6'8"			7'0"			7'2"			7'10"			8'0"		
DIMENSION	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
1 3/4" DOOR SPACING	7 1/4"	2@ 30 1/4"	12 1/4"	7 1/4"	2@ 32 1/4"	12 1/4"	7 1/4"	2@ 33 1/4"	12 1/4"	7 1/4"	3@ 25 1/4"	10 1/4"	7 1/4"	3@ 25 1/2"	12 1/4"
1 3/8" DOOR SPACING				6 3/4"	2@ 32 3/4"	11 3/4"	6 3/4"	2@ 33 3/4"	11 3/4"						



FF SERIES FRAMES

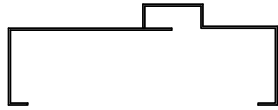
FF SERIES FRAMES ARE AVAILABLE AS SHOWN FOR THREE SIDED FRAMES OR AS STICK SECTIONS FOR TRANSOMS, SIDELIGHTS AND BORROWED LITE FRAMES.

FOR LABELING DETAILS, ANCHORING OPTIONS, AND DOOR HANDING & SWING, PLEASE SEE THE APPLICABLE SECTION OF THE TECHNICAL DATA MANUAL.

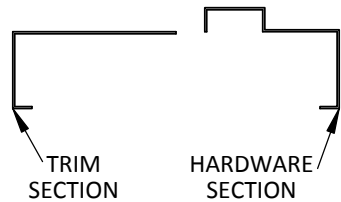
				SUB-11			
DRAWN BY _____ DATE _____		ISSUE DATE		REVISIONS		BY	
CHECKED _____ DATE _____							
SHT OF		JOB NO.					

PROFILES

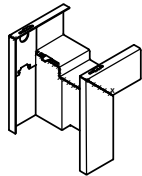
DOUBLE RABBET TOGETHER



DOUBLE RABBET APART



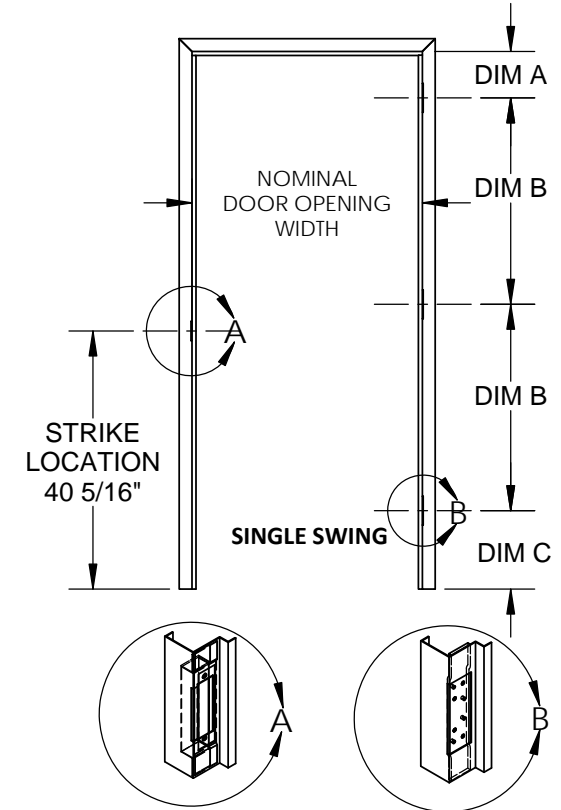
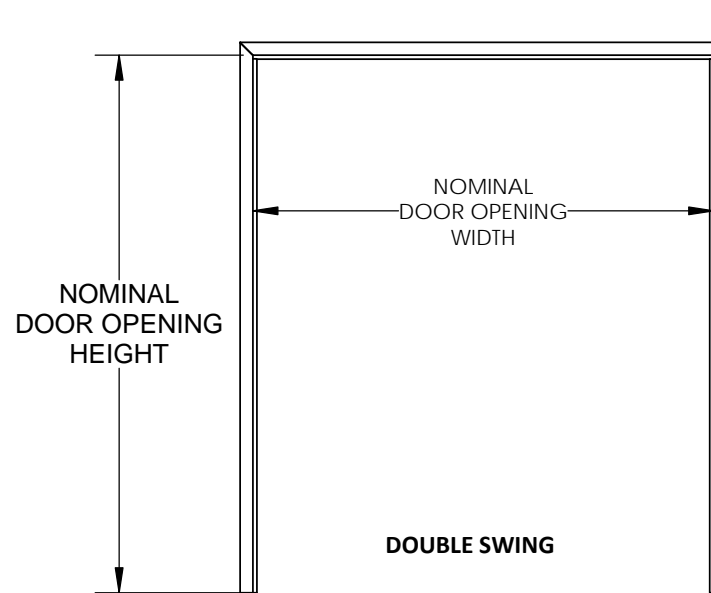
WELDING INFORMATION



MUST BE FULL WELDED
BEFORE INSTALLATION

HINGE SPACING

OPENING HEIGHT	6'8"			7'0"			7'2"			7'10"			8'0"		
DIMENSION	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
1 3/4" DOOR SPACING	7 1/4"	2@ 30 1/4"	12 1/4"	7 1/4"	2@ 32 1/4"	12 1/4"	7 1/4"	2@ 33 1/4"	12 1/4"	7 1/4"	3@ 25 1/4"	10 1/4"	7 1/4"	3@ 25 1/2"	12 1/4"
1 3/8" DOOR SPACING				6 3/4"	2@ 32 3/4"	11 3/4"	6 3/4"	2@ 33 3/4"	11 3/4"						



RF SERIES FRAMES

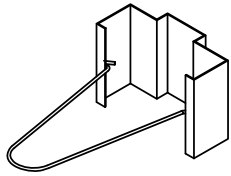
RF SERIES FRAMES ARE AVAILABLE AS SHOWN FOR THREE SIDED FRAMES OR AS STICK SECTIONS FOR TRANSOMS, SIDELIGHTS AND BORROWED LITE FRAMES.

FOR LABELING DETAILS, ANCHORING OPTIONS, AND DOOR HANDING & SWING, PLEASE SEE THE APPLICABLE SECTION OF THE TECHNICAL DATA MANUAL.

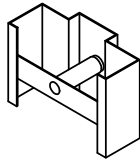


SUB-12

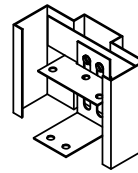
DRAWN BY _____ DATE _____		ISSUE DATE	REVISIONS	BY
CHECKED _____ DATE _____				
SHT OF	JOB NO.			



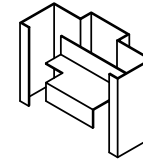
WIRE



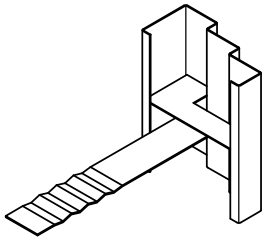
TUBE



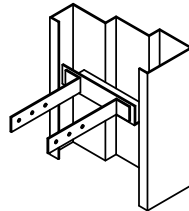
**ADJUSTABLE
FLOOR**



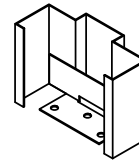
ZEE



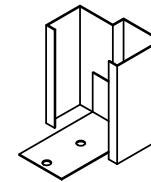
**DOUBLE
EGRESS
T**



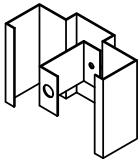
**DOUBLE
EGRESS
MULTI PURPOSE**



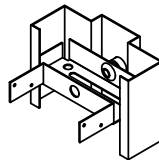
FLOOR



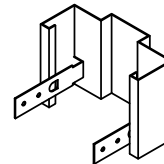
SINGLE FLOOR



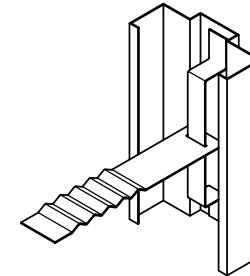
AEW



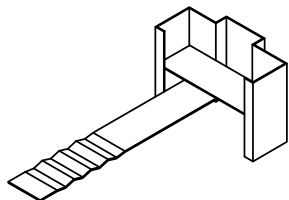
UNA



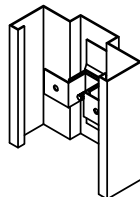
**DRYWALL
OPTION**



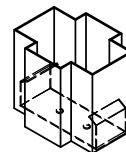
STRAP



T



DRYWALL



MULLION



SUB-13

DRAWN BY _____ DATE _____		ISSUE DATE	REVISIONS	BY
CHECKED _____ DATE _____				
SHT OF	JOB NO.			