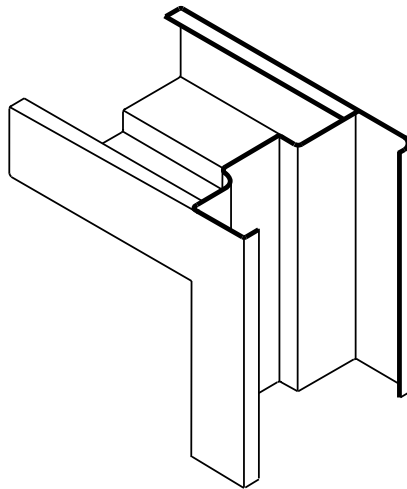


STEELCRAFT®

F12-SERIES FLUSH FRAMES



FLUSH FRAMES



FEATURES AND BENEFITS:

Steelcraft's F12-Series Flush Frames offer the following unique features, which enhance long term functionality and durability.

1. **Adjustable base anchors** allow for installation adjustment when the floor is not level.
2. **Patented universal hinge preparations** allow for easy field conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
3. **12 gage steel frame** for the highest usage areas where maximum duty is required
4. **Factory applied baked on rust inhibiting primer** in accordance with ANSI A250.10.

ABOUT THE PRODUCT:

The F12-Series 3-Sided Flush Frames are designed for maximum duty applications in both commercial and institutional buildings. They can be installed in both interior and exterior locations and are specifically designed for areas of maximum usage. These frames are to be installed as part of the wall framing sequence. They are SUA (set-up and welded) for installation as a pre-welded unit.

APPLICATIONS:

The F12-Series Frames are typically used in the following types of wall constructions:

Wall Construction	Application	Typical Wall Anchors
Masonry	wrap or butted	Wire masonry
Existing masonry	butted	Bolted through soffit
Wood stud	wrap	Weld-in wood stud anchor
Steel stud	wrap	Weld-in steel stud anchor

SPECIFICATION COMPLIANCE:

1. Overall frame construction for the Steelcraft F12-Series Flush Frames meet the requirements of ANSI A250.8-1998 (commonly referred to as SDI-100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

FIRE RATINGS:

The F12-Series Frames meet fire rating requirements. They are listed for installations requiring compliance to both negative pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UBC 7-2 and UL-10C). Refer to the "Fire Rated" section of the Steelcraft Spec Manual for particular listings.

Steel Thickness	Opening	Usage Frequency ¹	Applications
12 gage (2.5mm)	Interior & Exterior	Maximum duty	<ul style="list-style-type: none"> • 16 & 14 gage steel doors
Steel Type	Opening	Applications	
Non Galvanneal ³	Mainly Interior	<ul style="list-style-type: none"> • Maximum traffic building conditions 	
Galvannealed ²	Mainly Exterior	<ul style="list-style-type: none"> • Used in locations with high humidity, and/or weather exposure 	

MATERIAL:

F12-Series Frames are supplied from 12 gage (2.5mm) steel. Depending on environmental and usage conditions, the steel can be either non galvanneal or galvannealed. All frames are supplied with a factory applied baked on primer for field applied finish paints.

¹ Usage frequency is based on ANSI A250.8-1998

² Reinforcements for galvannealed frames are also galvannealed

³ Commercial quality carbon steel

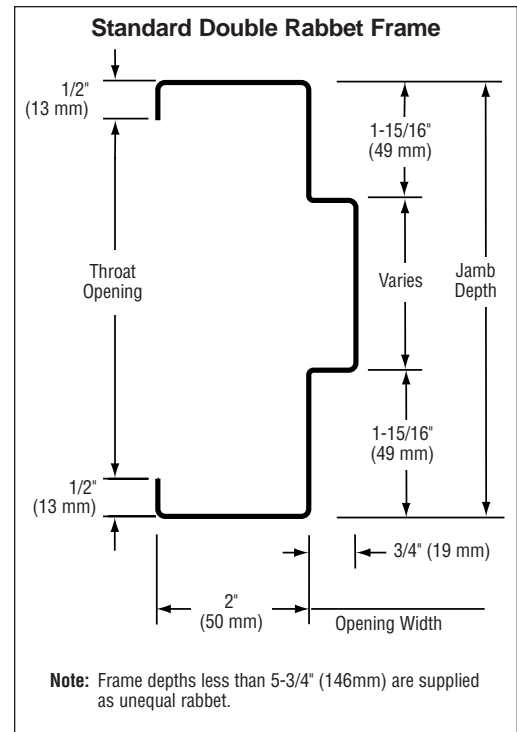
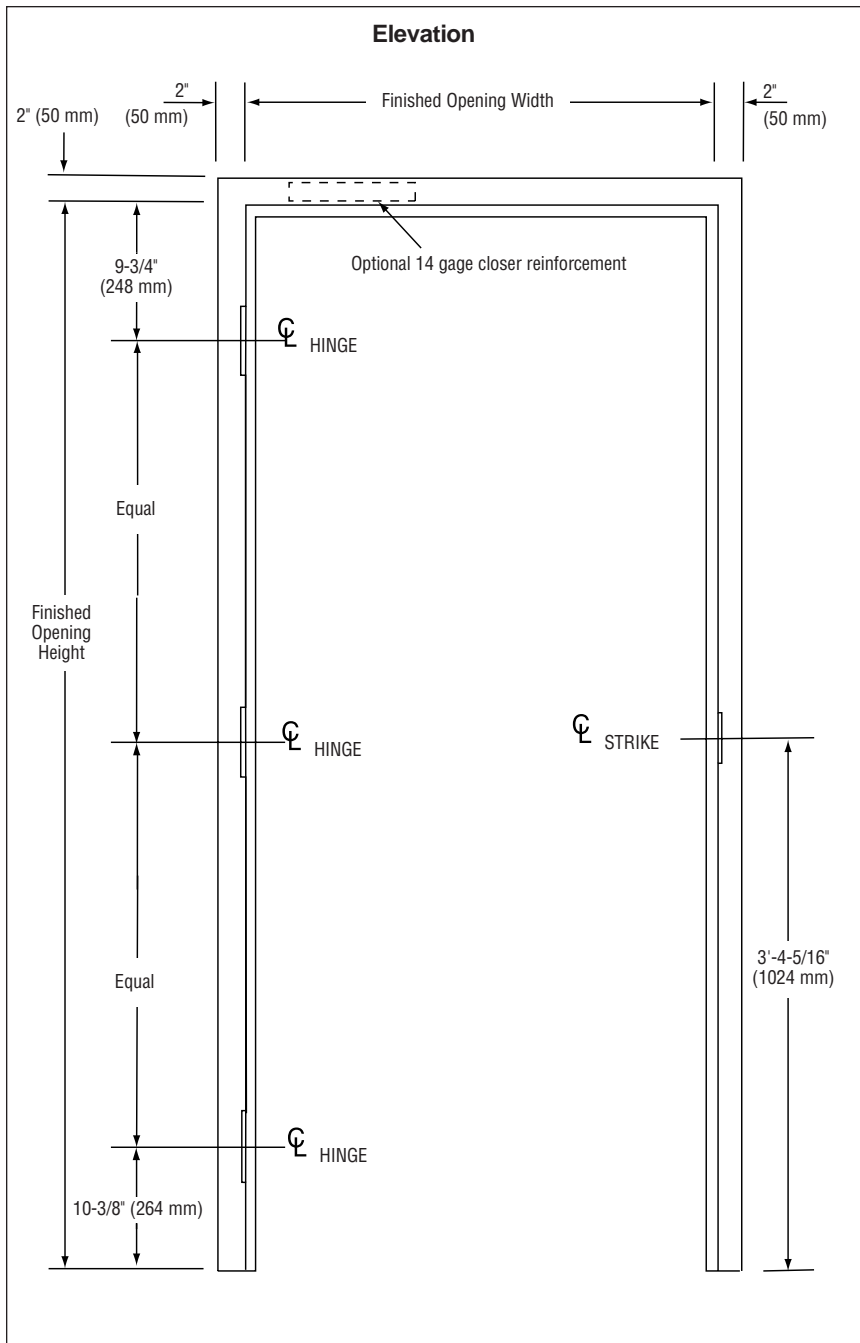
Details are subject to change without prior notice.

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Spec Manual
Rev. 5/2002

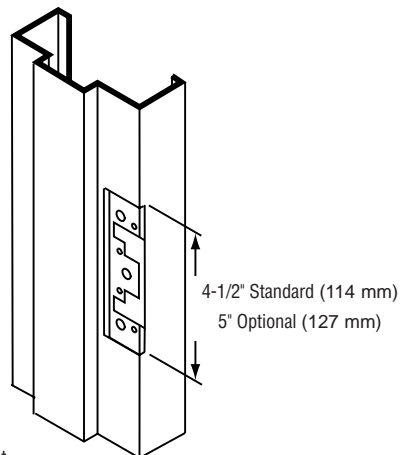
F3-1



CONSTRUCTION NOTES:

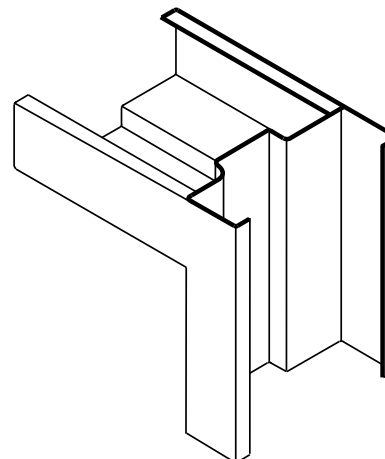
- 1. Door opening size maximum:**
 Single door opening size 4'0" x 8'0" (1219mm x 2438mm)
 Double door opening size 8'0" x 8'0" (2438mm x 2438mm)
- 2. Jamb depths (profile) availability:**
 Minimum = 4 3/4" (121mm), maximum 20" (508mm)
- 3. Standard profile dimensions (variations available):**
 Face = 2" (50mm)
 Stop = 3/4" (19mm)
 Returns = 1/2" (13mm)

Universal Mortise Hinge Prep

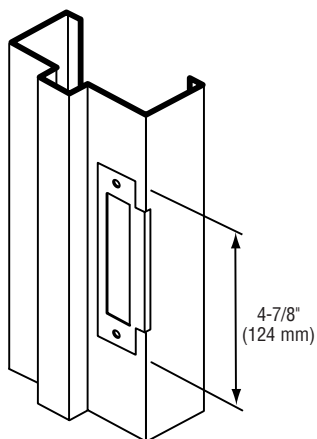


7 Gage Hinge Reinforcement

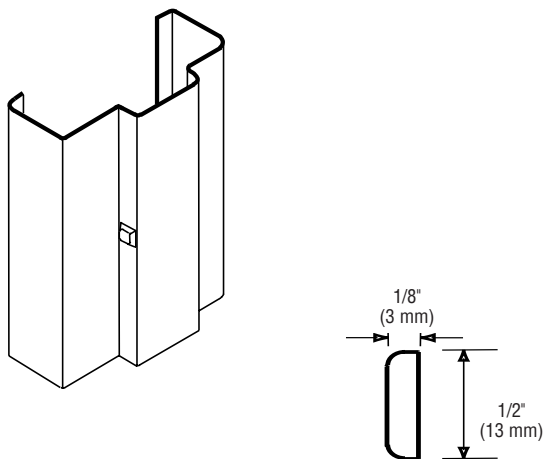
Welded Corner



4⁷/₈" Strike (ASA)



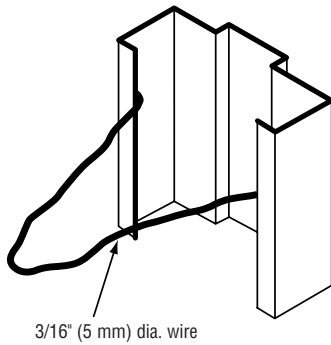
Stick On Rubber Silencer



GENERAL NOTES:

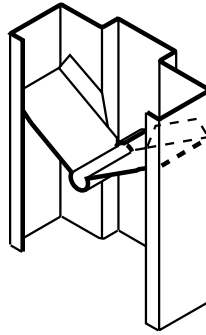
1. **Frame profile** – variations in jamb depths available in ¹/₈" (3mm) increments:
 - **Single rabbet** – not available in this frame series
 - **Double rabbet** – for walls 3³/₄" (95mm) thick and over
2. **Corner connections** – square cut:
 - **SUA (set-up and welded)** – available as standard, and in accordance with ANSI A250.8-1998 (SDI100).
3. **4" (102mm) heads** – for use with 2" (50mm) face double rabbet jambs.
4. **Standard hardware preparations:** Standard mortised and reinforced with mortar guards for:
 - **Universal hinge preps** – 4¹/₂" (114mm) patented preparation which allows easy and quick conversion from standard to heavy weight hinges.
 - **Strikes** – 4⁷/₈" (124mm) conforming to ANSI A115.1 and ANSI A115.2
5. **Rubber silencers:** All F12-Series Frames are supplied with loose pressure sensitive adhesive back rubber silencers Three (3) per strike jamb and two (2) per double door head for field applications by others.

Wire Masonry Anchor

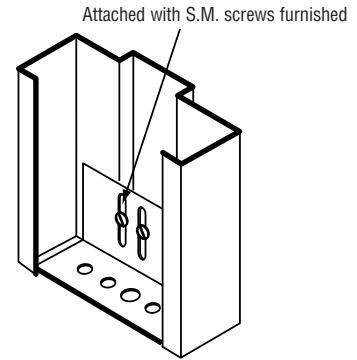


3/16" (5 mm) dia. wire

Existing Masonry Anchor



Adjustable Base Anchor



Maximum adjustment 1-3/8" (35mm)

ANCHORING AND INSTALLATION NOTES:

1. **F12-Series Frames** are supplied standard with masonry wire and adjustable base anchors. Anchors are designed for maximum wall/frame engagement and installation flexibility.
2. **Anchoring applications:**
 - **Masonry wall** – Masonry wire (3/16" [5mm] dia.) jamb anchors provide maximum engagements in mortar joints, and allow for full internal grouting during installation. Adjustable base anchors are attached directly to the floor, adjusted, and the wall is built around the anchored frame. (Refer to installation sheet #INS-2004.)
 - **Existing masonry walls (EMA)** – Specifically designed (18 Ga. steel) jamb anchors are used to add support for bolting the frame into the rough opening of an existing wall. An existing wall anchor is used as the base anchor in this application. (Refer to installation sheet #INS-2014.)
 - **Steel stud walls** – Weld-in (18 Ga. steel) jamb anchors are designed to be screw attached to the webbing of the closed steel studs which are built around the frame. Adjustable base anchors are attached directly to the floor and adjusted. After frame is anchored, the wallboard is installed and finished. (Refer to installation sheets #INS-2006 and 2007.)
3. **Installation caution notice:** When temperature conditions necessitate an additive to be used in the plaster or mortar to prevent freezing, the contractor installing the frames shall coat the inside of the frames in the field with a corrosion resistant coating per SDI 105.
4. **Special frame anchorage:** Frame anchorage details shown on this sheet are applicable to double rabbet frames with 2" (50mm) faces.
5. Installation shall conform to the published Steelcraft installation instructions, SDI 105 *Recommended Installation Instructions for Steel Frames* and ANSI/DHI A115-IG *Installation Guide for Doors and Hardware*.
6. All fire rated frames must be installed in accordance with NFPA Pamphlet 80 and the *Authority Having Jurisdiction*.