



**ABOUT THE PRODUCT:**

FN Series 3 Sided Flush Narrow 1" (25mm) Face Frames are designed to meet requirements for light to extra heavy duty applications in both commercial and institutional buildings where a slim face profile is required. They are installed in both interior and exterior locations, and in virtually all types of buildings and wall constructions. These frames are to be installed as part of the wall framing sequence. They can be specified and supplied as KD (knock-down) for field assembly prior to installation or welded for installation as a complete unit.

**INSTALLATION:**

1. Installation shall conform to the published Steelcraft installation instructions, ANSI A250.11-2001 (formerly SDI 105) *Recommended Erection Instructions for Steel Frames and HMMMA 840*.
2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The *Authority Having Jurisdiction* is the final authority in issues related to the installation and use of installed Fire Rated Doors.

**FRAME APPLICATIONS**

Profile	Steel Thickness	Wall Construction	Typical Wall Anchors
FN16	16 Gage [0.053" (1.3mm)]	Wood or Steel Stud	Lock-in Stud Anchor
		Masonry	Wire Masonry
		Existing Masonry	Bolted Through Soffit
FN14	14 Gage [0.067" (1.7mm)]	Wood or Steel Stud	Lock-in Stud Anchor
		Masonry	Wire Masonry
		Existing Masonry	Bolted Through Soffit

**FEATURES AND BENEFITS:**

Steelcraft FN Series 1" (25mm) Flush Face Frames offer the following unique features, which enhance long term functionality and durability. Features can vary depending on the steel thickness of the frame.

1. **Narrow 1" (25mm) face** provides a very slim appearance to the door opening.
2. **Die-mitered corner connections** Die-mitered corner connection at the head and jamb insure an attractive, tight and closed mitered connection. The miter includes 4 corner tabs designed with concealed connection eliminating the need for continuous profile welding.
3. **Patented universal hinge preparations** allow for easy field conversion from standard weight .134" (3.3mm) thick hinges to heavy weight .180" (4.7mm) hinges.
4. **Factory prepared** for field installed silencers.
5. **Factory applied baked on rust inhibiting primer** in accordance with ANSI A250.10-1998 (R2004).

**SPECIFICATION COMPLIANCE:**

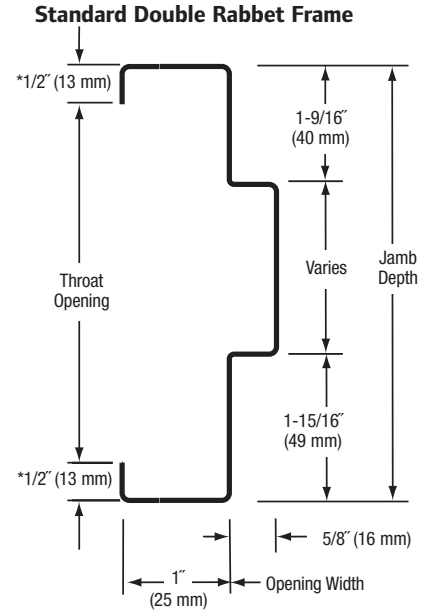
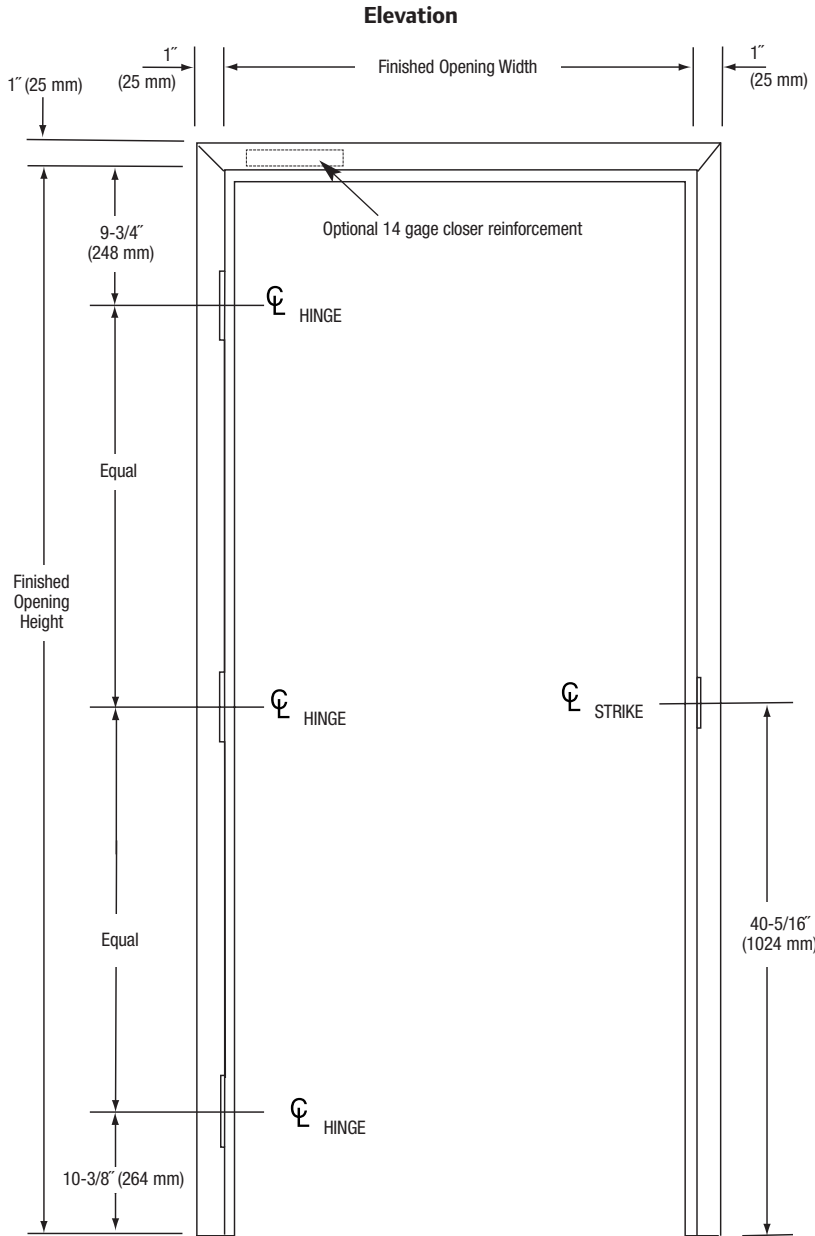
1. Overall frame construction for the Steelcraft FN18, FN16 and FN14 Series Flush Narrow 1" (25mm) Face Frames meets the requirements of ANSI A250.8-2003 (commonly referred to as SDI-100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-2003. Locations are in accordance with ANSI/DHI A115 unless otherwise stated.

**FIRE RATINGS:**

The FN Series Flush Narrow 1" (25mm) Face Frames meet the broadest fire rating requirements. They are listed for installations requiring compliance to both neutral pressure testing (ASTM E152 and UL 10B) and positive pressure standards (UBC 7-2 and UL 10C). Refer to the **Fire Rated Section** of this manual for particular listings.

**APPLICATIONS:**

FN Series 1" (25mm) Flush Face Frames are designed to meet the aesthetic needs of a very slender face dimension, and still maintain the functionality of the conventional flush framing systems. The FN Series 1" (25mm) Flush Face Frames are typically installed in wall construction types as defined in the chart below:



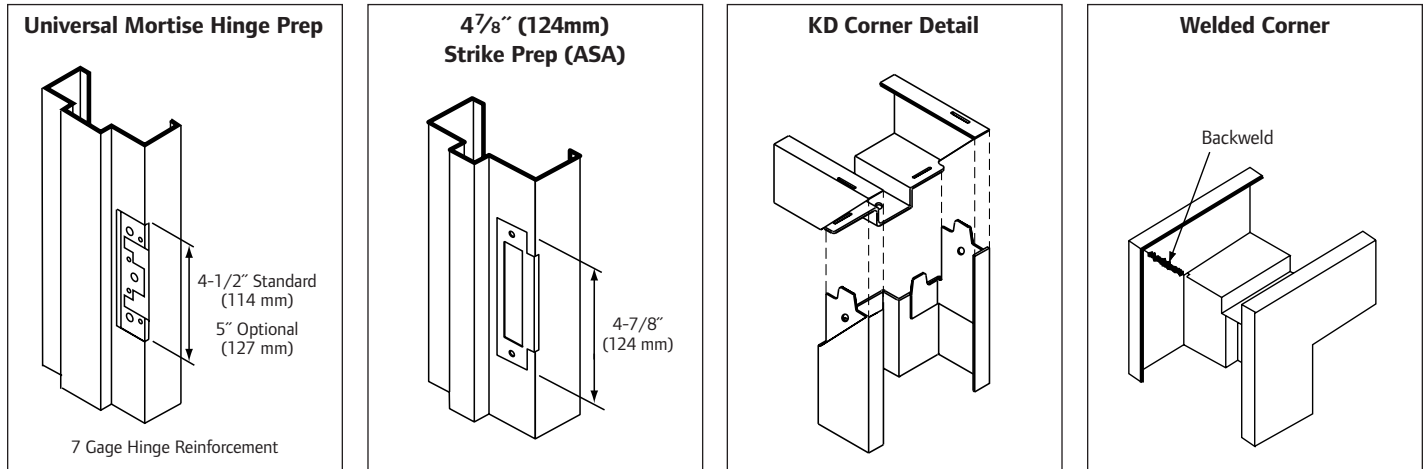
\* 7/16" (11mm) on 5-3/4" frame depth

NOTE:  
FN Series 3 Sided Flush Narrow 1" (25mm) Face Frames are available as double rabbet only.

### FRAME SIZING OPTIONS

SERIES	MAXIMUM OPENING SIZE		JAMB DEPTH AVAILABILITY (profile)				STANDARD PROFILE DIMENSIONS (Variations Available)			CORNERS
	Single	Pair	SINGLE RABBET		DOUBLE RABBET		FACE	STOP	RETURNS	STANDARD
			Minimum	Maximum	Minimum	Maximum				
FN16	4'-0" x 8'-0" (1219mm x 2439mm)	8'-0" x 8'-0" (2439mm x 2439mm)	N/A	N/A	4-3/4" (121mm)	20" (508mm)	1" (25mm)	5/8" (16mm)	1/2"* (13mm)	DIE MITERED with four (4) concealed tabs interlocking head and jamba
FN14	4'-0" x 8'-0" (1219mm x 2439mm)	8'-0" x 8'-0" (2439mm x 2439mm)								

N/A - Not Available



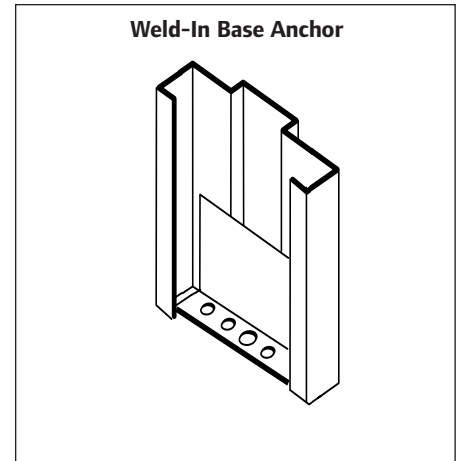
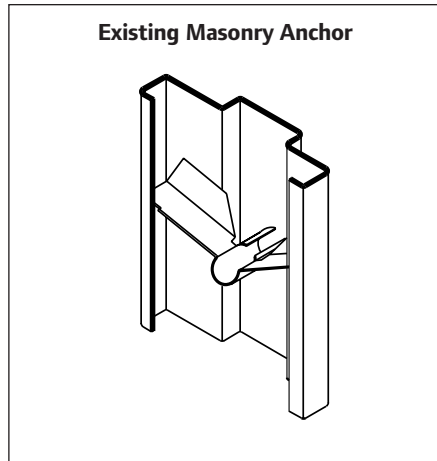
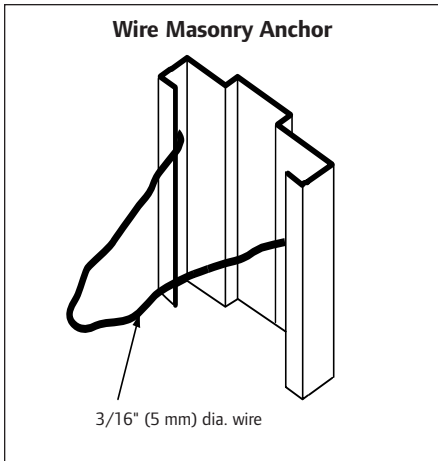
**GENERAL NOTES:**

1. Variations in jamb depths available in 1/8" (3mm) increments.
2. All FN Series frames are supplied standard with masonry wire and weld-in base anchors. Anchors are designed for maximum wall/frame engagement and installation flexibility.
3. FN Series Frames are to be installed as part of the framing sequence.
4. Depending on environmental and usage conditions, the steel can be either cold rolled or galvanized. Galvanized steel is recommended for all exterior applications.

**FRAME OPTIONS**

SERIES	FRAME PROFILE		CORNER CONNECTIONS			
			KD (Knock-Down)		SUA (Set-Up & Weld)	
	SINGLE RABBET	DOUBLE RABBET	SINGLE RABBET	DOUBLE RABBET	SINGLE RABBET	DOUBLE RABBET
FN16	N/A	Typically for walls 3-3/4" (95mm) thickness or greater	N/A	4 interlocking corner tabs per factory die-miter. See the "KD Corner Detail	N/A	Available when specified, and in accordance with ANSI A250.8-2003 (SDI 100).
FN14						

N/A = Not Available



### Anchoring and Installation Notes:

1. **FN16-Series Narrow 1" (25mm) Face Frames** are supplied standard with masonry wire and weld-in base anchors. Anchors are designed for maximum wall/frame engagement and installation flexibility.
2. **For anchoring applications, refer to section 2.4 of this manual.**
3. **Installation caution notice - Grouted Frames:**
  - When temperature conditions necessitate an additive to be used in the mortar to prevent freezing, the contractor installing the frames must coat the inside of the frames in the field with a corrosion resistant coating per SDI 105.
  - When frames are to be grouted full, silencers must be field installed prior to grouting
  - Steel frames, including fire rated frames, do not require grouting. Grouting is not recommended for frames in drywall.
4. Installation shall conform to the published Steelcraft installation instructions, *SDI 105 Recommended Installation Instructions for Steel Frames*.
5. All fire rated frames must be installed in accordance with NFPA Pamphlet 80 and the *Authority Having Jurisdiction*.

### FRAMING APPLICATIONS

SERIES	Steel Type	Building Type	Opening	Usage Frequency <sup>1</sup>	KD <sup>4</sup> Corner	SUA <sup>5</sup> Corner	Applications
FN16	Non-Galvannealed <sup>2</sup>	Institutional and Commercial	Interior	Heavy to Extra Heavy Duty	✓	✓	Typical Building Conditions
	Galvannealed <sup>3</sup>		Mainly Exterior				High Humidity and/or Weather Exposure
FN14	Non-Galvannealed <sup>2</sup>	Institutional and Commercial	Interior	Extra Heavy to Maximum Duty	✓	✓	Typical Building Conditions
	Galvannealed <sup>3</sup>		Mainly Exterior				High Humidity and/or Weather Exposure

<sup>1</sup> Usage frequency is based on ANSI A250.8-2003

<sup>2</sup> Commercial quality cold rolled steel

<sup>3</sup> Reinforcements for galvannealed frames are also galvannealed

<sup>4</sup> Knock-Down for field assembly prior to installation

<sup>5</sup> Set-up and Welded for installation as a pre-welded unit