

STEELCRAFT®

MU16-SERIES MULTI-USE FLUSH FRAMES



ABOUT THE PRODUCT:

The MU16-Series Multi-Use Flush Frames are designed for heavy duty applications in both commercial and institutional buildings. They can be installed in both interior and exterior locations, and in virtually all types of buildings and wall constructions. They have a jamb profile similar to the DW-Series Frames, but are designed to be installed as part of the wall framing sequence. They can be specified and/or supplied as either KD (knock-down) for field assembly prior to installation, or SUA (set-up and welded) for installation as a pre-welded unit.

APPLICATIONS:

The MU-Series Multi-Use Flush 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	Lock-in wood stud anchor
Steel stud	wrap	Lock-in steel stud anchor

Steel Thickness	Opening	Usage Frequency ¹	Applications
16 gage (1.3mm)	Interior & Exterior	Heavy duty	<ul style="list-style-type: none"> 20 & 18 gage steel doors Commercial grade wood doors
Steel Type	Opening	Applications	
Non Galvanneal ³	Mainly Interior	<ul style="list-style-type: none"> Typical building conditions 	
Galvannealed ²	Mainly Exterior	<ul style="list-style-type: none"> Used in locations with high humidity and/or weather exposure 	

MATERIAL:

MU-Series Multi-Use Flush Frames are supplied from 16 gage (1.3mm) 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.

FEATURES AND BENEFITS:

Steelcraft's MU16-Series Multi-Use Flush Frames offer the following unique features which enhance long term functionality and durability.

1. **Patented universal hinge preparations** allow for easy field conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
2. **Adjustable base anchors** allow for installation adjustment when the floor is not level.
3. **Rubber silencers** are factory installed.
4. **Factory applied baked on rust inhibiting primer** in accordance with ANSI A250.10.

SPECIFICATION COMPLIANCE:

1. Overall frame construction for the Steelcraft MU16-Series Multi-Use Flush Frames meet and exceed 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 MU16-Series Multi-Use Flush Frames meet the broadest 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.

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¹ Usage frequency is based on ANSI A250.8-1998
² Reinforcements for galvannealed frames are also galvannealed
³ Commercial quality carbon steel

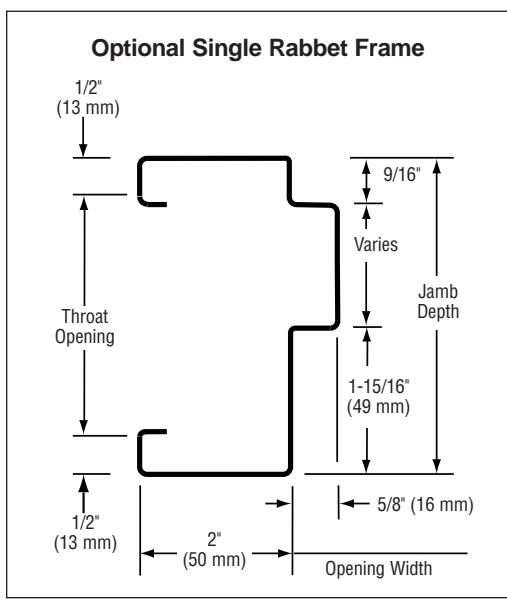
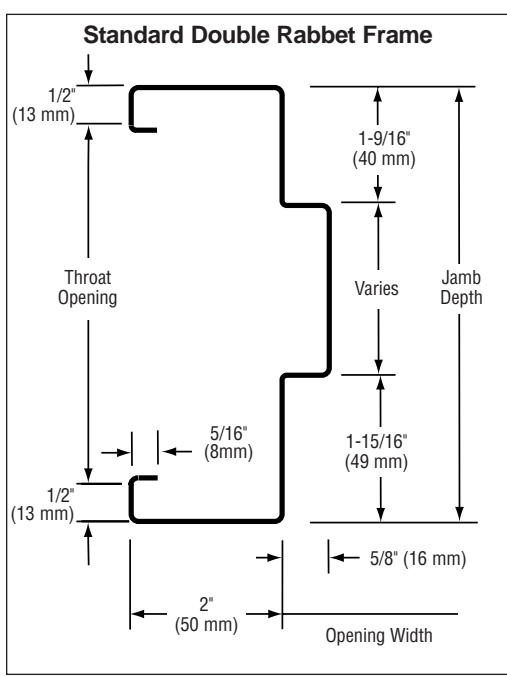
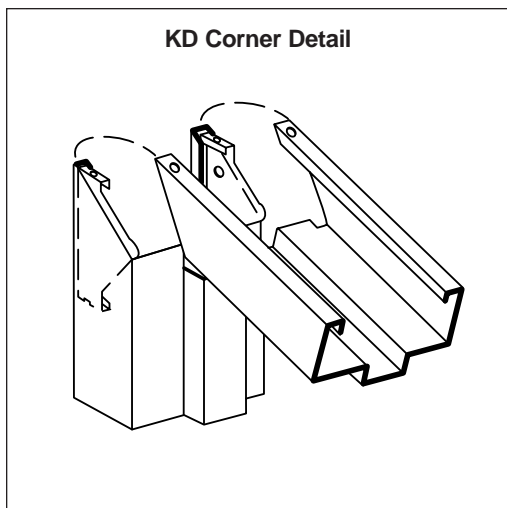
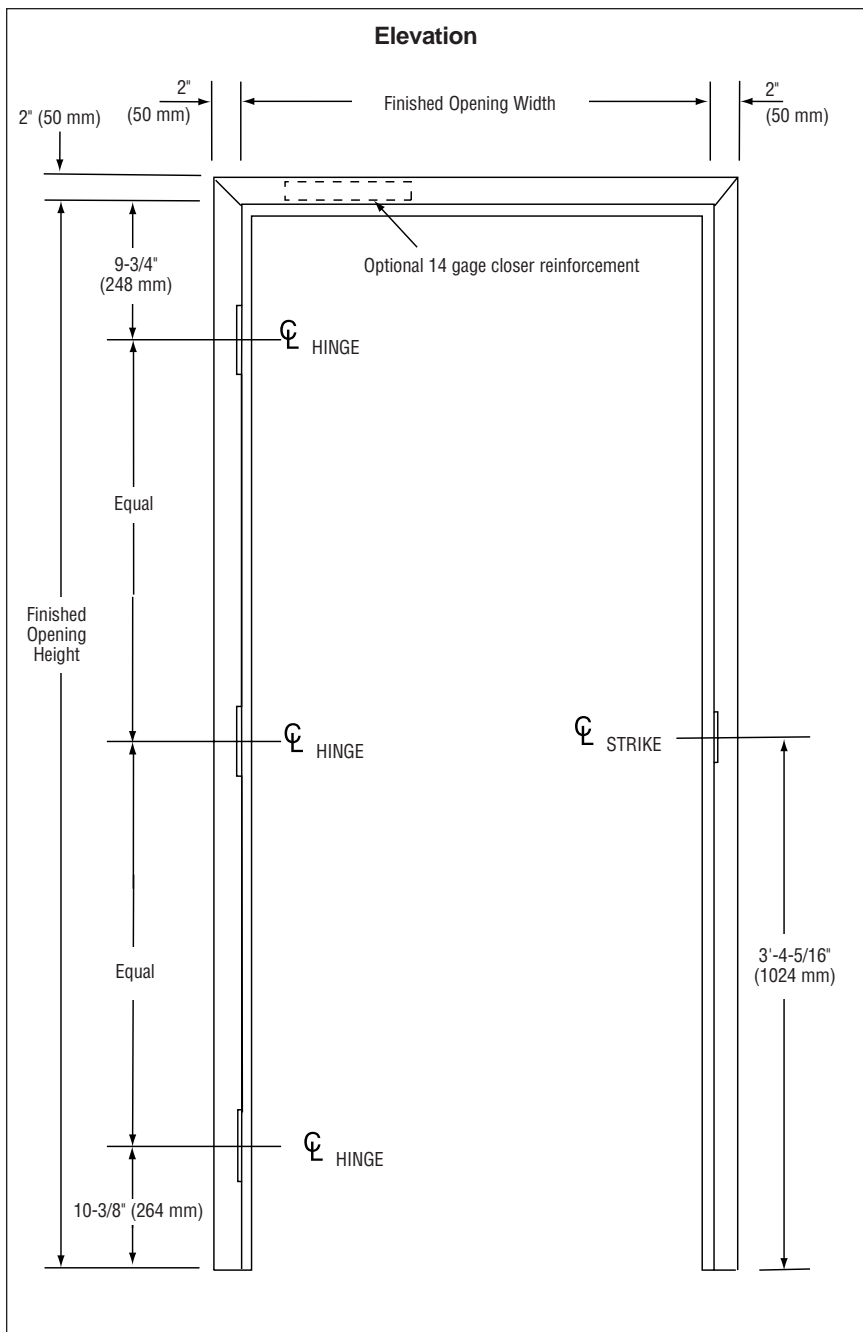
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Spec Manual
 Rev. 5/2002

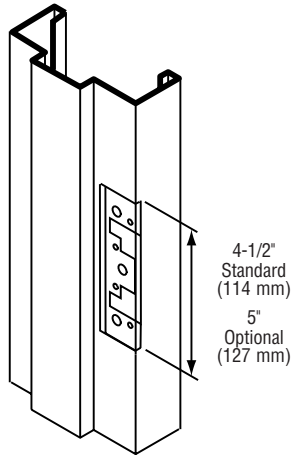
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CONSTRUCTION NOTES:

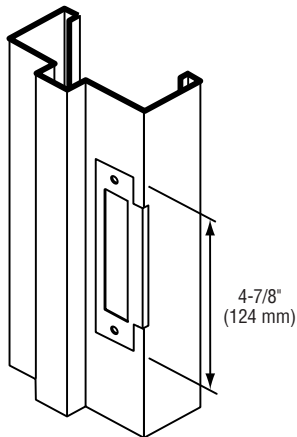
- Door opening size maximum:**
 Single door opening size 4'0" x 10'0" (1219mm x 3048mm)
 Double door opening size 8'0" x 10'0" (2438mm x 3048mm)
- Jamb depths (profile) availability:**
Single rabbet:
 minimum = 3" (76mm)
 maximum = 20" (508mm)
Double rabbet:
 minimum = 4 3/4" (121mm)
 maximum = 20" (508mm)
- Standard profile dimensions (variations not available):**
 Face = 2" (50mm)
 Stop = 5/8" (16mm)
 Returns = 1/2" (13mm) all frames
- Standard die-mitered corners:**
 Double rabbet frames include interlocking soffit tab and corner clip attachments (single rabbet frames must be SUA).

Universal Mortise Hinge Prep

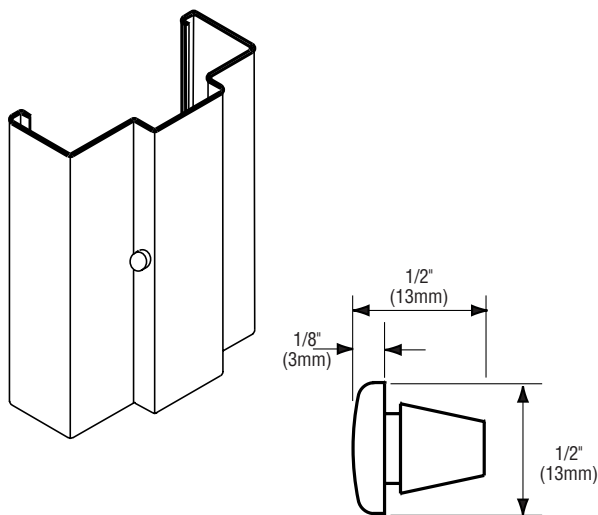


7 Gage Hinge Reinforcement

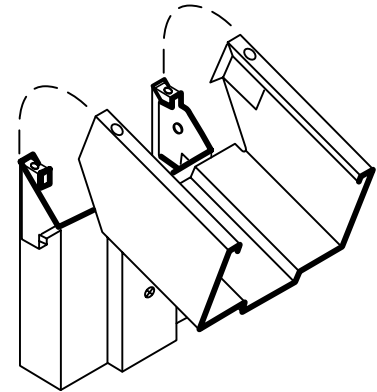
4 7/8" Strike Prep (ASA)



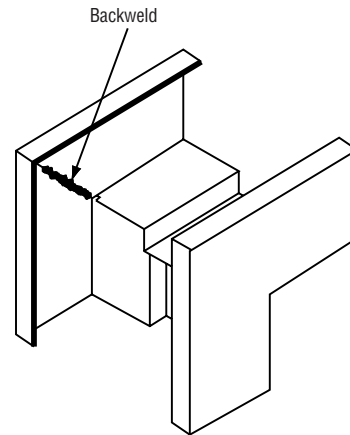
Rubber Silencer



Optional 4" (102mm) Head Detail



Welded Corner

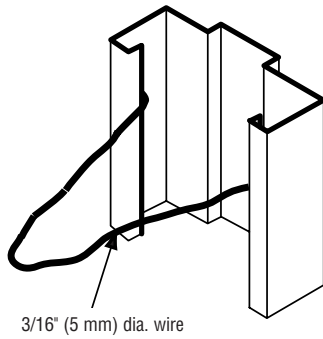


GENERAL NOTES:

- Frame profile** – variations in jamb depths available in 1/8" (3mm) increments:
 - Single rabbet** – typically for walls less than 3 3/4" (95mm) thick (2" [50mm] min.)
 - Double rabbet** – typically for walls 3 3/4" (95mm) thick and over
- Corner connections**
 - KD (knock-down)** – factory die-mitered
 - SUA (set-up and welded)** – available when specified, and in accordance with ANSI A250.8-1998 (SDI-100).
- 4" (102mm) heads** – die-mitered for use with 2" (50mm) face double rabbet jambs. Available for KD or SUA applications.
- Standard hardware preparations:**
 - Universal hinge preps** – 4 1/2" (114mm) patented preparation which allows easy and quick conversion from standard to heavy weight hinges.
 - Strikes** – 4 7/8" (124mm) conforming to ANSI A115.1 and ANSI A115.2
- Rubber silencers** are factory installed to cushion the closing of the door, and to eliminate the field problems related to inserting silencers after installation and grouting. Three (3) silencers are supplied per strike jamb and two (2) per double door head.

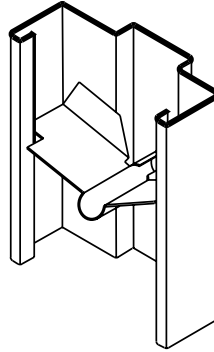
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Wire Masonry Anchor

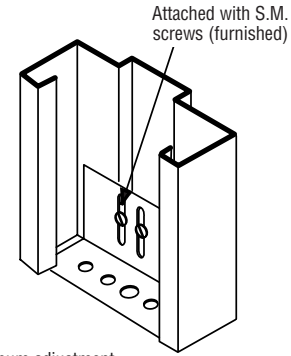


3/16" (5 mm) dia. wire

Existing Masonry Anchor

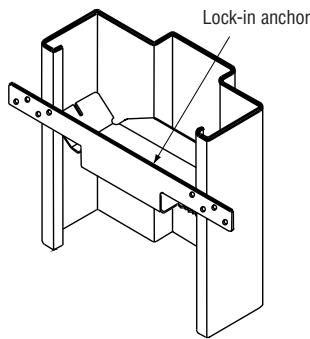


Adjustable Base Anchor



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

Anchor for Stud Partition



Lock-in anchor

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ANCHORING AND INSTALLATION NOTES:

- MU16-Series Multi-Use Flush Frames** are supplied standard with masonry wire, or lock-in jamb anchors and adjustable base anchors. Anchors are designed for maximum wall/frame engagement, and installation flexibility.
- Anchoring applications:**
 - Masonry wall** – Masonry wire anchors (3/16" [5mm] dia.) provide maximum engagements in mortar joints, and allow for full internal grouting during installation. Adjustable base anchors are attached directly to the floor and adjusted. 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)
 - Wood stud walls** – Lock-in (18 Ga. steel) jamb anchors are designed to be attached to the wood studs of a rough opening. After the frame is anchored, the wallboard is installed and finished. (Refer to installation sheet #INS-2005)
 - Steel stud walls** – Lock-in (18 Ga. steel) jamb anchors are designed to be 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)
- Special frame anchorage:** Frame anchor details shown on this sheet are applicable to double rabbet frames with 2" (50mm) faces. Anchor details and availability of lock-in anchors will vary with the following frame profile changes:
 - Single rabbet – all details will vary.
 - Double rabbet – over 8 3/4" (222mm) frame depth, all details will vary.
- 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.
- 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*.
- All fire rated frames must be installed in accordance with NFPA Pamphlet 80 and the *Authority Having Jurisdiction*.