Product Description

FSS-Series is Fleming’s 16 gage Type 304, XL Blend S (brushed) finish stainless steel, knocked-down, masonry profile frame. They are punch mitered and used in masonry, concrete or drywall partitions. The FSS-Series is convertible to set-up and welded (SUW) construction and is available for up to 3 hour fire rated applications in sizes to 4’0” x 10’0” (1250 x 3050mm) singles and 8’0” x 10’0” (2450 x 3050mm) pairs. Installation instructions for both knocked-down and set-up and welded FSS-Series frames are included in TDS G09.

Standard Sizes and Hardware Locations

Non-standard sizes to suit specific project requirements are also available. Refer to TDS G03 through G06 for detailed information of hinge and strike locations.

All metric values are shown in millimeters (mm) unless indicated otherwise. Imperial and metric values may not be equal.
Product Features

All FSS-Series Frames
- Frame sections manufactured from Type 304, XL Blend S (brushed) finish stainless steel
- Balance of components manufactured from paintable galvanneal steel
- Jambs and heads machine punched for tight, true fitting corner miters
- All jambs provided with 2 projection welded 20 gage corner clips

Typical Hinge Jamb
- Projection welded 10 gage
- High Frequency Reinforcing at all cutouts
- Dimpled to convert from standard to heavy weight hinge
- 22 gage dust boxes standard
- All hinge jambs provided with embossed UL fire label

Typical Strike Jamb
- Projection welded 16 gage ASA strike reinforcing (ANSI A115.1-2)
- Integral 1" deep dust box
- Machine punched for door silencers

Typical Head

Assembled KD Corner
- Corner clip tabs bent over in field

Floor Anchor Strap
- Projection welded 16 gage steel at base of each hinge and strike jamb

Wall Anchors

Wire Anchor (WA)
Combination Stud Anchor (CSA)
Existing Wall Anchor (EWA)
Wood Stud Anchor (WSA)
In addition to the typical options above, Fleming offers the following to fully customize FSS-Series frame product to suit project or opening specific requirements:

- Type 304, XL Buff (mirror) finish stainless steel (knocked-down construction only)
- Type 316, XL Blend S (brushed) or XL Buff (mirror) finish sections with Type 316, mill finish reinforcements and internal components, welded construction
- Non-standard imperial or metric (SI) nominal widths and heights
- Non-standard face widths and jamb depths
- Custom profiles including; drywall returns, plaster returns, equal rabbets, single rabbet, shadow line, hospital profile, contra-swing
- Sanitary bases (XL Blend S only)
- Non-standard hinge or strike locations, back-sets, weights and reinforcing thickness
- Non-standard hinge and strike preparations
- Head preparations for surface, concealed or semi-concealed closers or holders, flush bolt strikes, vertical rod exit device strikes, door position switches and magnetic locks
- Lead lining
Specifications

1) Frames shall be FSS16-Series as manufactured by Fleming.
2) Frame sections shall be straight and uniform throughout their lengths, fabricated from tension leveled stainless steel to ASTM A167, Type 304, XL Blend S finish.
   [Alternates: Type 304, XL Buff (mirror) finish
   Type 316, XL Blend S (brushed) finish
   Type 316, XL Buff (mirror) finish]
3) Balance of components shall be fabricated from tension leveled steel to ASTM A924, galvanized to ASTM A653, coating designation A40 (ZF120), known commercially as paintable galvanneal.
   [Alternate when Type 316 is specified: Balance of components shall be fabricated from tension leveled stainless steel to ASTM A167, Type 316, mill finish.]
4) Corner joints shall be accurately mitered and tightly fitted with integral door stops butted.
5) Direction of grain on frame faces shall be vertical.
6) Frame construction shall be knocked-down and shipped unassembled. Corners shall be provided with 20 gage steel reinforcements and tabs which securely interlock mechanically with factory prepared heads.
   [Alternate when XL Blend S (brushed) finish is specified: Frame construction shall be set-up and welded, shipped assembled. Corner joints shall be welded on the inside of the profiles’ returns and faces with exposed faces filled and ground smooth. Each door opening shall be provided with 2 temporary steel jamb spreaders, welded to the base of the unit to maintain proper alignment during shipping and handling and shall be removed prior to anchoring of frame to floor.]
7) All reinforcements shall be projection, spot or arc welded securely to frame
8) Frames shall be blanked, reinforced, drilled and tapped for fully templated mortised hardware or reinforced only for surface hardware.
9) Hinge reinforcing shall be 10 gage steel, high frequency type for templated 4-1/2” (114.3) hinges, convertible from standard to heavy weight, with 22 gage steel dust box at each cutout.
10) Strike reinforcing shall be 16 gage steel to suit ASA (ANSI A115.1-2) strike with 1” deep integral dust box
11) Flush bolt strikes (ANSI A115.4), when specified, shall be reversible type, 16 gage chromated steel
12) When specified, reinforcements for surface mounted hardware, concealed closers and holders shall be 12 gage steel.
13) Frames shall be provided with anchorage appropriate to floor, wall and frame construction. Each wall anchor shall be located immediately above or below each hinge reinforcement and directly opposite on the strike jamb.
14) Each jamb shall be provided with 16 gage steel floor anchors.
15) Each door opening shall be prepared for GJ-64 or equivalent single stud door silencers, 3 per strike jamb for single door openings, 2 per head for pairs.
16) Contractor responsible for installation shall remove all wraps or covers upon delivery at building site, store on planks or dunnage in a dry location in a vertical position, space with blocking to permit air circulation between them and cover to protect from all damage.
17) Set frames plumb, square, aligned, without twist at correct elevation in accordance with Fleming TDS G09, NAAMM-HMMA 840, “Installation Guide for Commercial Steel Doors and Frames” and for fire rated product, NFPA 80.
18) Exposed surfaces which have been scratched or otherwise marred during shipping, handling or installation shall be repaired immediately.