Product Description

The TW-Series is Fleming’s 5/8” (16mm) face frame product for 1-3/4” (44.4mm) thick doors. It presents the narrowest face available in the industry.

The standard TW-Series is 3-1/2” (89mm) jamb depth, 18 gage paintable galvanneal steel, masonry profile, unmitered sticks used to construct multi-opening, transom, sidelight and window assemblies. The series is comprised of double rabbet jambs, heads and sills, with matching mullions, corner posts and filler pieces.

TW-Series components are manufactured in standard 10’ (3050mm) length ‘sticks’, mitered and/or notched and assembled by the Fleming authorized stocking distributor as set-up and welded product only.

This series is used in masonry, concrete or drywall partitions. Installation instructions are included on 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.
Standard Profiles

Hinge, Strike or Blank Jambs

Mullions

Heads

Sills

45° Corners

90° Corners
Product Features

All TW-Series Components
• Components manufactured from paintable galvanneal steel
• All hardware reinforceings projection welded

Typical Hinge Jamb/Mullion
• Projection welded 10 gage reinforcing at all cutouts
• Dimpled to convert from standard to heavy weight hinge

Typical Strike Jamb/Mullion
• Projection welded 12 gage ASA strike reinforcing (ANSI A115.1-2)

Floor Anchor
• Welded 16 gage steel at base of each jamb

Mullion Floor Anchor
• 16 gage steel shipped loose for base of each mullion terminating at floor

Wall Anchors

'Z' Type Stud Anchor

Wood Stud Anchor

Existing Wall Anchor (EWA)
Typical Assembly Details

A  TW-Series Head
B  TW-Series Jamb
C  TW-Series Mullion
D  TW-Series Sill
E  Welded Assembly
Options

Surface Closer Reinforcing
- 12 gage galvanneal steel

Reversible Flush Bolt Strike
- ANSI A115.4
- 16 gage chromated galvanneal steel

Small ASA N/L (Deadbolt) Strike
- ANSI A115.3
- 14 gage galvanneal steel

In addition to the options above, Fleming offers the following to customize the TW-Series frame product to suit project or opening specific requirements:

- Non-standard imperial or metric (SI) nominal widths and heights
- Non-standard jamb depths
- Non-standard hinge or strike locations, back-sets, weights and reinforcing thickness
- Non-standard hinge and strike preparations
- Head preparations for surface closers or holders, flush bolt strikes, vertical rod exit device strikes, door position switches and magnetic locks
Specifications

1) Frames, transom frames, sidelight and window assemblies shall be TW18-Series as manufactured by Fleming.

2) Frame components shall be straight and uniform throughout their lengths, fabricated from tension leveled steel to ASTM A924, galvanized to ASTM A653, coating designation A40 (ZF120), known commercially as paintable galvanneal.

3) Corner joints shall be accurately mitered and tightly fitted with integral door stops butted.

4) 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.

5) All reinforcements shall be projection, spot or arc welded securely to frame.

6) Frames shall be blanked, reinforced, drilled and tapped for fully templated mortised hardware or reinforced only for surface hardware.

7) Hinge reinforcing shall be 10 gage steel, for templated 4-1/2” (114.3) hinges, convertible from standard to heavy weight at each jamb cutout.

8) Strike reinforcing shall be 12 gage steel to suit ASA (ANSI A115.1-2) strike.

9) Flush bolt strikes (ANSI A115.4), when specified, shall be reversible type, 16 gage chromated steel.

10) When specified, reinforcements for surface mounted hardware, concealed closers and holders shall be 12 gage steel.

11) 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.

12) Each jamb and mullion terminating at the floor shall be provided with 16 gage steel floor anchors.

13) On exposed surfaces where zinc has been removed during fabrication, frames shall receive a factory applied touch-up primer.

14) 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.

15) Set frames plumb, square, aligned, without twist at correct elevation in accordance with Fleming TDS G09 and NAAMM-HMMA 840, “Installation Guide for Commercial Steel Doors and Frames”.

16) Prior to site touch-up, exposed surfaces of galvanneal steel to be finish painted with latex paints shall be cleaned with soap and water. When alkyd finish paints are specified, turpentine or paint thinners shall be used.

17) Exposed surfaces which have been scratched or otherwise marred during shipping, handling or installation shall be touched-up with a rust inhibitive primer.

18) Finish paint in accordance with Section 09900.