Product Description

These two series are used to construct multi-opening, transom, sidelight and window assemblies. Each series is comprised of 16 gage paintable galvanneal steel, double rabbet, masonry profile jambs, heads, sills, with matching mullions, center rails, corner posts and filler pieces. Both series are distributor assembled as set-up and welded product only.

MN-Series components are ordered from the factory, machine mitered or notched, in lengths to suit the specific requirements of the unit to be built.

ST-Series components are manufactured in standard 10' (3050mm) length ‘sticks’. The Fleming authorized stocking distributor performs the work of mitering and notching in their shop.

Both MN and ST-Series frame product are 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

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jamb Depth</td>
<td>Soffit</td>
<td>Return</td>
<td>Throat</td>
</tr>
<tr>
<td>4 3⁄4</td>
<td>1 1⁄4</td>
<td>1</td>
<td>3 3⁄4</td>
</tr>
<tr>
<td>(121)</td>
<td>(31.8)</td>
<td>(12.7)</td>
<td>(95.3)</td>
</tr>
<tr>
<td>5 3⁄4</td>
<td>2 1⁄4</td>
<td>7</td>
<td>4 7⁄8</td>
</tr>
<tr>
<td>(146)</td>
<td>(57.2)</td>
<td>(11.1)</td>
<td>(123.8)</td>
</tr>
<tr>
<td>6 3⁄4</td>
<td>3 1⁄4</td>
<td>2</td>
<td>5 3⁄4</td>
</tr>
<tr>
<td>(172)</td>
<td>(82.5)</td>
<td>(12.7)</td>
<td>(146.1)</td>
</tr>
<tr>
<td>7 3⁄4</td>
<td>4 1⁄4</td>
<td>1</td>
<td>6 3⁄4</td>
</tr>
<tr>
<td>(197)</td>
<td>(108)</td>
<td>(12.7)</td>
<td>(171.5)</td>
</tr>
<tr>
<td>8 3⁄4</td>
<td>5 1⁄4</td>
<td>1</td>
<td>7 3⁄4</td>
</tr>
<tr>
<td>(222)</td>
<td>(133.4)</td>
<td>(12.7)</td>
<td>(196.9)</td>
</tr>
</tbody>
</table>
**Product Features**

All ST and MN-Series Components
- Components manufactured from paintable galvanneal steel
- All hardware reinforcements projection welded

**Typical Hinge Jamb/Mullion**
- Projection welded 10 gage High Frequency Reinforcing at all cutouts
- Dimpled to convert from standard to heavy weight hinge
- 22 gage dust boxes standard at all open sections
- All components prepared for hinges provided with embossed UL fire label

**Typical Strike Jamb/Mullion**
- Projection welded 16 gage ASA strike reinforcing (ANSI A115.1-2)
- Integral 1” deep dust box at all open sections
- Strike jambs machine punched for door silencers

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

**Mullion Floor Anchor**
- 12 gage steel shipped loose for base of each mullion terminating at floor

**Wall Anchors**

- **Wire Anchor (WA)**
- **Combination Stud Anchor (CSA)**
- **Existing Wall Anchor (EWA)**
- **Wood Stud Anchor (WSA)**
典型装配细节

A: 机器斜角切割
MN-Series 头

B: 机器斜角切割
MN-Series 框

C: 机器切割
MN-Series 窗格

D: 机器切割
MN-Series 中枢排

E: 机器切割
MN-Series 门槛

F: 焊接
装配
Options

Surface Closer Reinforcing
- 12 gage galvanneal steel

Parallel Arm 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

Adjustable Floor Anchor
- 16 gage galvanneal steel
- 1-1/4” (32mm) max. travel

In addition to the typical options above, Fleming offers the following to fully customize the ST and MN-Series frame product to suit project or opening specific requirements:

- 12 or 14 gage paintable galvanneal steel
- 12, 14 or 16 gage G90 (Z275) galvanized steel
- 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
- 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
- Thermally broken
- Lead lining
Specifications

1) Frames, trasnom frames, sidelight and window assemblies shall be ST or MN16-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, 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 jamb cutout.

8) Strike reinforcing shall be 16 gage steel to suit ASA (ANSI A115.1-2) strike, with 1” deep integral dust box at jamb cutouts.

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 shall be provided with 16 gage steel floor anchors.

13) Mullions terminating at the floor shall be provided with 12 gage floor anchors.

14) 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.

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

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) 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.

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

20) Finish paint in accordance with Section 09900.