Product Description

DE-Series is Fleming’s double egress, 16 gage paintable galvanneal steel, set-up and welded masonry profile frame, used in masonry, concrete or drywall partitions. They are available for up to 3 hour fire rated applications in sizes to 8'0" x 10'0" (2450 x 3050mm) pairs. Installation instructions for 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.

<table>
<thead>
<tr>
<th>Frame Rabbet Heights</th>
<th>Frame Rabbet Widths</th>
</tr>
</thead>
<tbody>
<tr>
<td>6'8&quot; 2050mm</td>
<td>4'8&quot; 1400mm</td>
</tr>
<tr>
<td>7'0&quot; 2150mm</td>
<td>5'0&quot; 1600mm</td>
</tr>
<tr>
<td>7'2&quot;</td>
<td>6'0&quot; 1800mm</td>
</tr>
<tr>
<td>8'0&quot; 2450mm</td>
<td>7'0&quot; 2000mm</td>
</tr>
<tr>
<td></td>
<td>7'4&quot; 2200mm</td>
</tr>
<tr>
<td></td>
<td>8'0&quot; 2400mm</td>
</tr>
</tbody>
</table>
Standard Profiles

<table>
<thead>
<tr>
<th>A Jamb Depth</th>
<th>B Soffit and Reveal Rabbet</th>
<th>C Door Head Rabbet</th>
<th>D Return</th>
<th>E Throat</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 3/4&quot;</td>
<td>1 3/8&quot;</td>
<td>3 3/8&quot;</td>
<td>1 1/2&quot;</td>
<td>3 3/4&quot;</td>
</tr>
<tr>
<td>(121)</td>
<td>(34.9)</td>
<td>(85.7)</td>
<td>(12.7)</td>
<td>(95.3)</td>
</tr>
<tr>
<td>5 3/4&quot;</td>
<td>1 7/8&quot;</td>
<td>3 7/8&quot;</td>
<td>7 1/16&quot;</td>
<td>4 7/8&quot;</td>
</tr>
<tr>
<td>(146)</td>
<td>(47.6)</td>
<td>(96.4)</td>
<td>(11.1)</td>
<td>(123.8)</td>
</tr>
<tr>
<td>6 3/4&quot;</td>
<td>2 3/8&quot;</td>
<td>4 3/8&quot;</td>
<td>1 1/2&quot;</td>
<td>5 3/4&quot;</td>
</tr>
<tr>
<td>(172)</td>
<td>(60.3)</td>
<td>(111.1)</td>
<td>(12.7)</td>
<td>(146.1)</td>
</tr>
<tr>
<td>7 3/4&quot;</td>
<td>2 7/8&quot;</td>
<td>4 7/8&quot;</td>
<td>1 1/2&quot;</td>
<td>6 3/4&quot;</td>
</tr>
<tr>
<td>(197)</td>
<td>(73)</td>
<td>(123.8)</td>
<td>(12.7)</td>
<td>(171.5)</td>
</tr>
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<td>8 3/4&quot;</td>
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<tr>
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<td>(136.5)</td>
<td>(12.7)</td>
<td>(196.9)</td>
</tr>
</tbody>
</table>
All DE-Series Frames
- Components manufactured from paintable galvanneal steel
- Jambs and heads machine punched for tight, true fitting corners

Assembled Corner
- Top of jamb notched for wrap applications in masonry or drywall

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

Floor Anchor Strap
- Welded 16 gage steel at base of each jamb

Wall Anchors

Wire Anchor (WA)

‘Z’ Anchor (ZA)

Channel and Strap Type Existing Wall Anchor (EWA)
Options

Surface Closer Reinforcing
• 12 gage galvanneal steel

Parallel Arm Closer Reinforcing
• 12 gage galvanneal steel

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

• 14 gage paintable galvanneal steel
• 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, shadow line
• 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, vertical rod exit device strikes, door position switches and magnetic locks
• Lead lining
Specifications

1) Frames shall be double egress, DE16-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 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 cutout.
8) Vertical rode strike reinforcing shall be 12 gage steel to suit devices specified.
9) When specified, reinforcements for surface mounted hardware, concealed closers and holders shall be 12 gage steel.
10) 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.
11) Each jamb shall be provided with 16 gage steel floor anchors.
12) Each head shall be prepared for 2 GJ-64 or equivalent single stud door silencers.
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, NAAMM-HMMA 840, “Installation Guide for Commercial Steel Doors and Frames” and for fire rated product, NFPA 80.
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.