**Product Description**

E-Series is Fleming’s standard 6 panel embossed face sheet door. They are available in either 18 or 20 gage paintable galvanneal and are a 1-3/4” (44.4mm) thick, lock-seam, polystyrene core door for use in commercial, industrial and institutional settings. Rated for standard, medium, heavy and extra-heavy duty applications, they are available for up to 3 hour fire rated applications in sizes from 2'8” x 6’8” (800 x 2050mm) to 3'8” x 7’0” (1100 x 2150mm) for singles and 5'4” x 6’8” (1600 x 2050mm) to 7’4” x 7’0” (2200 x 2150mm) for standard and double egress pairs.

**Standard Sizes and Hardware Locations**

Non-standard sizes, falling between those indicated above, 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.

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**Standard Imperial Sizes**

<table>
<thead>
<tr>
<th>Nom Dr Height</th>
<th>A (Actual)</th>
<th>Nom Dr Width</th>
<th>B (Actual)</th>
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<tbody>
<tr>
<td>6'8&quot;</td>
<td>7'3&quot; 16</td>
<td>2'8&quot;</td>
<td>4'11&quot; 32</td>
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<td></td>
<td></td>
<td>2'10&quot;</td>
<td>5'11&quot; 32</td>
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<tr>
<td></td>
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<td>3'0&quot;</td>
<td>6'11&quot; 32</td>
</tr>
<tr>
<td>6'10&quot;</td>
<td>9'3&quot; 16</td>
<td>3'2&quot;</td>
<td>7'11&quot; 32</td>
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<td></td>
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<td>3'4&quot;</td>
<td>8'11&quot; 32</td>
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<tr>
<td>7'0&quot;</td>
<td>11'3&quot; 16</td>
<td>3'6&quot;</td>
<td>9'11&quot; 32</td>
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<tr>
<td></td>
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<td>3'8&quot;</td>
<td>10'11&quot; 32</td>
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</tbody>
</table>

**Standard Metric Sizes**

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<thead>
<tr>
<th>Nom Dr Height</th>
<th>A (Actual)</th>
<th>Nom Dr Width</th>
<th>B (Actual)</th>
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<tbody>
<tr>
<td>2050mm</td>
<td>200.8mm</td>
<td>800mm</td>
<td>103.8mm</td>
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<tr>
<td>2150mm</td>
<td>300.8mm</td>
<td>1000mm</td>
<td>203.8mm</td>
</tr>
<tr>
<td>1100mm</td>
<td></td>
<td>253.8mm</td>
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</tbody>
</table>
**Product Features**

**All E-Series Doors**
- Face sheets and all components manufactured from paintable galvanneal steel
- Solid slab of polystyrene core (R 6.0 / RSI 1.06) laminated to face sheets under pressure with UL/WHI approved PUR (polyurethane resin) contact adhesive
- Longitudinal edges interlocked with deep pocket mechanical seam, sealed and reinforced with UL/WHI approved RRPC (resin reinforced polyvinyl chloride) adhesive
- Lock and hinge edges beveled 1/8" in 2" (3 in 50)

**Top Channel and Closer Reinforcing**
- Projection welded 1-1/2" (38) extra deep, 16 gage end channels top and bottom with integral 14 gage, 4-1/2" (114) deep x 15" (380) long closer reinforcing channel at top

**Standard Hinge Reinforcing**
- Projection welded 10 gage High Frequency Reinforcing at all hinge cutouts
- Hinge reinforcements dimpled to convert from standard to heavy weight

**Cylindrical Lock Preparation**
- 12 gage cylindrical lock reinforcing (161), face and edge cutouts for ANSI A115.2 - 2-3/4" (69.9) backset
**E-SERIES DOORS**

**Options**

**Door Types**

**TYPE ‘M’**

**TYPE ‘P’**

**TYPE ‘NL’**

**SNAP-IN GLAZING TRIM**

20 Ga Galvanneal

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**Optional Head Details**

- Snap-In Steel Top Cap
  - 20 Ga Galvanneal
- Snap-In Vinyl Top Cap
- Steel Top Cap
  - 16 Ga Galvanneal

**Optional Sill Details**

- Steel Sill Cap
  - 16 Ga Galvanneal
- Moraine Door Bottoms
  - 16 Ga Galvanneal

**Optional Edge Details**

- Filled Seam
  - Beveled Edge
- Square Edge
  - (Exposed or Filled seam)

**Optional Meeting Stile Details**

- Flat Bar Astragal
  - 12 Ga Galvanneal
- ‘Z’ Astragal
  - 14 Ga Galvanneal
- Non-Labeled Double Egress Pair Meeting Edge
- Fire Rated Double Egress Pair Meeting Edge
In additional to the typical options above, Fleming offers the following to customize E-Series doors to suit project or opening specific requirements:

- Double egress or double acting doors
- Edge seams tack-welded or tack-welded and filled
- Non-standard imperial or metric (SI) nominal widths and heights
- Non-standard hinge, strike or lock preparations, locations, back-sets and reinforcements
- Reinforcing, edge and face preparations for fire or panic exit devices (rim, mortise, surface or concealed vertical rod)
- Concealed closer or holder preparations and reinforcements
- Preparations for mail slots or door viewers
Specifications

1) Doors shall be as manufactured by Fleming, of the Series indicated:
   a) E18-Series (18 gage face sheets)
   b) E20-Series (20 gage face sheets)

2) Doors shall be fabricated from tension leveled steel to ASTM A924, galvanized to ASTM A653, coating designation A40 (ZF120), known commercially as paintable galvanneal.

3) Doors shall be flush, 6 panel embossed face sheet type, 1-3/4" (44.4mm) thick, with provision for glazed openings as scheduled.

4) Doors shall be stiffened, insulated and sound deadened with a solid slab of polystyrene core (R 6.0/RSI 1.06) laminated under pressure to each face sheet.

5) Longitudinal edges shall be mechanically interlocked, adhesive assisted with edge seams visible.

6) Doors shall be beveled 1/8" in 2" (3 in 50mm) on both lock and hinge edges.

7) Top and bottom of doors shall be provided with projection welded, inverted 16 gage end channels.

8) Doors 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.

10) Cylindrical lock, ASA strike and flush bolt reinforcing shall be 12 gage minimum.

11) Mortise lock and surface mounted hardware reinforcing shall be 16 gage minimum.

12) Doors shall be provided with integral 14 gage steel closer reinforcing channel at top of door.

13) Exterior doors shall be provided with flush snap-in PVC top caps.

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

15) 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.

16) Install doors in accordance with NAAMM-HMMA 840, "Installation Guide for Commercial Steel Doors and Frames" and for fire rated product, NFPA 80.

17) 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.

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

19) Finish paint in accordance with Section 09900.