Product Description

LD-Series is Fleming’s 16 gage paintable galvanneal, lock-seam lead-lined, 1-3/4” (44.4mm) thick door for use in commercial, industrial and institutional settings. They are rated for standard, medium, heavy and extra-heavy duty applications. The LD-Series line is available for up to 1-1/2 hour fire rated applications in sizes to 4’0” x 7’2” (1250 x 2200mm) or 3’0” x 8’0” (950 x 2450mm) singles and 6’0” x 8’0” (1850 x 2450mm) pairs.

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>
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<tr>
<th>Standard Nominal Door Sizes</th>
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<tr>
<td>Nominal Door Heights</td>
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<td>6'8” 2050mm</td>
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All LD-Series Doors

- Face sheets and all components manufactured from paintable galvanneal steel
- Inside of front (pull-side) skin both door edges and top and bottom end channels lined with 1/16" (1.6mm), 4 psf (19.5kg/m²) sheet lead and small cell kraft paper honeycomb core 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, tack-welded and ground smooth
- Lock and hinge edges beveled 1/8" in 2" (3 in 50)

Product Features

Top Channel and Closer Reinforcing

- Welded 1-1/2" (38) extra deep, 12 gage end channels top and bottom with integral 14 gage, 4-1/2" (114) deep x 15" (380) long closer reinforcing plates at top

Standard Hinge Reinforcing

- Projection welded 10 gage High Frequency heavy weight reinforcing at all hinge cutouts

Cylindrical Lock Preparation

- 12 gage cylindrical lock reinforcing (161), face and edge cutouts for ANSI A115.2 - 2-3/4" (69.9) backset
Options

Door Types

TYPE 'M'
Nominal Dr. Width
Actual Dr. Width
In

TYPE 'V'
Equal 10" Equal

GLAZING TRIM
18 Ga Galvanized

TYPE 'NL1'
6" 150 150 6"

TYPE 'NLZ'
6" 150 150 6" 40

Optional Edge and Meeting Stile Details

Filled Seam
Beveled Edge

Square Edge
(Exposed or Filled Seam)

Lead-Lined Flat Bar Astragal
12 Ga Galvanized

Active Leaf
Inactive Leaf
In addition to the typical options above, Fleming offers the following to customize LD-Series doors to suit project or opening specific requirements:

- Lead-lining of 1/32” / 2 psf (0.8mm / 9.8kg/m²) or 3/64” / 3 psf (1.2mm / 14.6kg/m²) thickness
- Polystyrene (R 6.0 / RSI 1.06) or polyisocyanurate (R 12.3 / RSI 2.17) insulated door cores
- G90 galvanized steel
- Edge seams filled and ground smooth
- 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

Options (Continued)

Mortise Lock Edge Preparation
- Projection welded 16 gage mortise lock reinforcing (86ED), edge and optional face cutouts for ANSI A115.1

Strike Preparations
- ASA strike (ANSI A115.1-2) (shown) or ASANL strike, projection welded 12 gage reinforcing
- Small ASANL deadbolt strike (ANSI A115.3) at 48” (1220mm) from bottom of frame centerline, projection welded 14 gage reinforcing

Flush Bolt Preparation
- ASA edge preparation with projection welded 12 gage reinforcements, top and bottom of door preparation with 10 gage tack welded reinforcements to suit ANSI A115.4
1) Doors shall be LD16-Series lead-lined, as manufactured by Fleming.

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 type, 1-3/4” (44.4mm) thick with provision for glazed openings as scheduled.

4) Interior voids shall be completely filled, stiffened, insulated and sound deadened with composite core comprising 1/16” / 4 psf (1.6mm / 19.5kg/m²) pure sheet lead on the inside of front (pull) face skin, both bevels and inside top and bottom channels with small cell honey comb core laminated under pressure to each face sheet.

5) Longitudinal edges shall be mechanically interlocked, adhesive assisted, tack-welded and ground smooth with 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 welded, inverted 12 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) heavy weight hinges.

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 14 gage steel closer reinforcing plates at top of door.

13) On exposed surfaces where zinc has been removed during fabrication, doors 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.


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.