Product Description

DSS-Series is Fleming’s 18 gage, Type 304, XL Blend S (brushed) finish, 1-3/4” (44.4mm) thick, lock-seam honeycomb core door. They are intended for use in commercial, industrial and institutional settings where standard, medium, heavy and extra-heavy duty doors, in applications where corrosion resistance or sanitary requirements are major factors in the design criteria. Typical uses would include hospital and other clinical “clean areas”, chemical, pulp and paper manufacturing facilities, sewage treatment plants or swimming pools and saunas.

The DSS-Series is available for up to 1-1/2 hour fire rated applications in singles to 3’8” x 7’2” (1120 x 2200mm).

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.
Product Features

All DSS-Series Doors
- Face sheets manufactured from Type 304, XL Blend S (brushed) finish stainless steel
- Internal components fabricated from paintable galvanneal steel
- 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
- Lock and hinge edges beveled 1/8" in 2" (3 in 50)

Top Channel and Closer Reinforcing
- 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
**Options**

**Door Types**

- **TYPE 'M'**
- **TYPE 'P'**
- **TYPE 'C'**
- **TYPE 'V'**
- **GLAZING TRIM**
  - 25 Ga Stainless Steel

**Optional Head Details**

- **Steel Top Cap**
  - 16 Ga Stainless Steel
- **Rabbeted Steel Top Cap**
  - 16 Ga Stainless Steel
- **Steel Sill Cap**
  - 16 Ga Stainless Steel
- **Mortise Door Bottoms**
  - 16 Ga Galvanneal

**Optional Sill Details**

**Optional Edge and Meeting Stile Details**

- **Flat Bar Astragal**
  - 12 Ga Stainless Steel
- **Z Astragal**
  - 14 Ga Stainless Steel
- **Security Z Astragal**
  - 14 Ga Stainless Steel
- **Non-Labeled Double Egress**
  - Flat Meeting Edge
In addition to the typical options above, Fleming offers the following to customize DSS-Series doors to suit project or opening specific requirements:

- Type 304, XL Buff (mirror) finish stainless steel face sheets
- Type 316, XL Blend S (brushed) or XL Buff (mirror) finish stainless steel face sheets with Type 316, Mill finish internal components
- Polystyrene (R 6.0 / RSI 1.06) or polyisocyanurate (R 12.3 / RSI 2.17) insulated door cores
- Double egress, double acting, or dutch doors
- 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, door viewers or mono-rails
- Lead lining
Specifications

1) Doors shall be DSS18-Series stainless steel as manufactured by Fleming

2) Door faces and glazing trim shall be fabricated from tension leveled stainless steel to ASTM A167, Type 304, XL Blend S (brushed) finish. Balance of components shall be fabricated from tension leveled steel to ASTM A924, galvanized to ASTM A653, coating designation A40 (ZF120), known commercially as paintable galvanneal.

Alternates:
   a) Door faces and glazing trim shall be fabricated from tension leveled stainless steel to ASTM A167, Type 304, XL Buff (mirror) finish. Balance of components shall be fabricated from tension leveled steel to ASTM A924, galvanized to ASTM A653, coating designation A40 (ZF120), known commercially as paintable galvanneal.
   b) Doors shall be fabricated from tension leveled stainless steel to ASTM A167, Type 316. Face sheets and glazing trim shall be XL Blend S (brushed) finish. Balance of components shall be Mill finish.
   c) Doors shall be fabricated from tension leveled stainless steel to ASTM A167, Type 316. Face sheets and glazing trim shall be XL Blend S (brushed) finish. Balance of components shall be Mill finish.

3) Direction of grain on faces and edges shall be vertical.

4) Doors shall be flush type, 1-3/4" (44.4mm) thick, with provision for glazed and / or louvered openings as scheduled.

5) Doors shall be stiffened, insulated and sound deadened with:
   (standard) a) honeycomb core,
   (optional) b) polystyrene core (R 6.0/RSI 1.06),
   (optional) c) polyisocyanurate core (R 12.3/RSI 2.17), laminated under pressure to each face sheet.

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

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

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

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

10) Hinge reinforcing shall be 10 gage steel, high frequency type for templated 4-1/2” (114.3) hinges, convertible from standard to heavy weight.

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

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

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

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

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) Exposed surfaces which have been scratched or otherwise marred during shipping, handling or installation shall be repaired.