

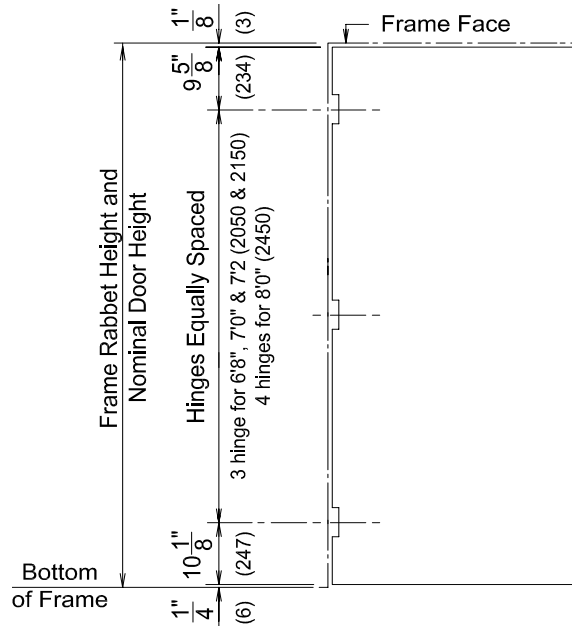
Product Description

The SD-Series is Fleming's 1-3/4" (44.4mm) thick acoustic door, manufactured from 16 gage paintable galvanized steel. A lock-seam door for use in commercial, industrial and institutional settings, they are rated up to STC 46 when used with Flemings' SF-Series frames and gasketing system. The SD-Series are used for standard, medium, heavy and extra-heavy duty applications and are available for up to 1-1/2 hour fire ratings, 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.

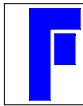
Standard Sizes and Hardware Locations

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.



Standard Nominal Door Sizes	
Nominal Door Heights	Nominal Door Widths
6'8" 2050mm	2'0" 600mm
	2'2" 700mm
	2'4" 700mm
7'0" 2150mm	2'6" 800mm
	2'8" 800mm
	2'10" 900mm
7'2" 2150mm	3'0" 900mm
	3'4" 1000mm
	3'6" 1000mm
8'0" 2450mm	3'8" 1100mm
	3'8" 1100mm
	4'0" 1200mm



Fleming

Steel Doors & Frames

A United Dominion Company

ARCHITECTURAL
MANUAL

TECHNICAL
DATA SHEET

SD-SERIES DOORS

Topic Number : D05

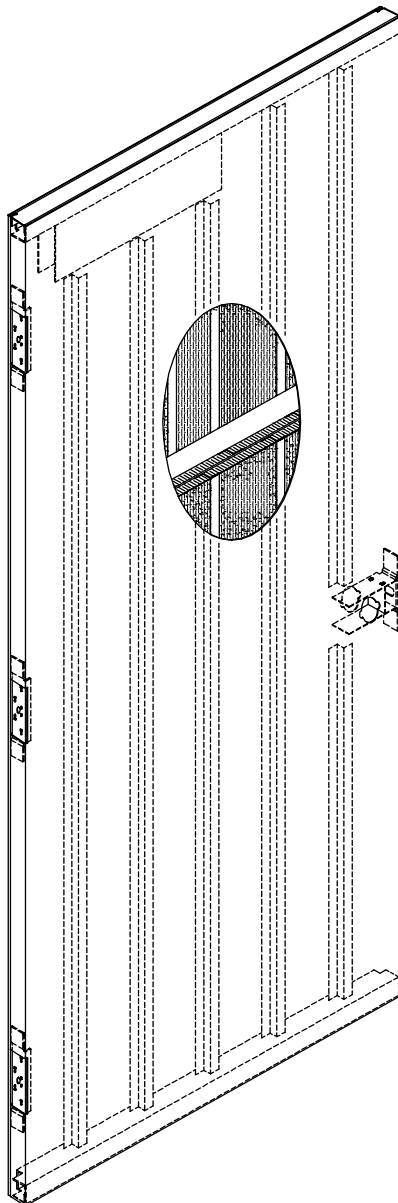
Sheet Number : 2

Date Issued : May '00

Product Features

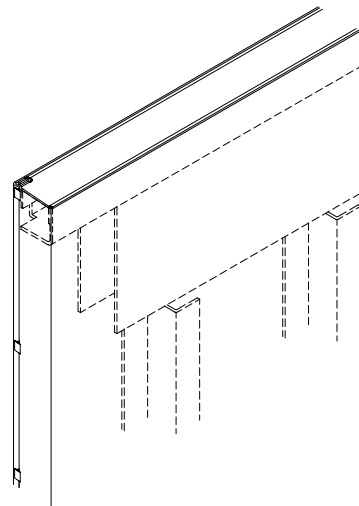
All SD-Series Doors

- Face sheets and all components manufactured from paintable galvaneal steel
- Fleming proprietary door core tested as part of a fully operable assembly to STC 46
- 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)
- Top and bottom provided with 16 gage continuous steel caps, welded in place
- Doors reinforced for and provided with Fleming surface mounted adjustable automatic door bottom



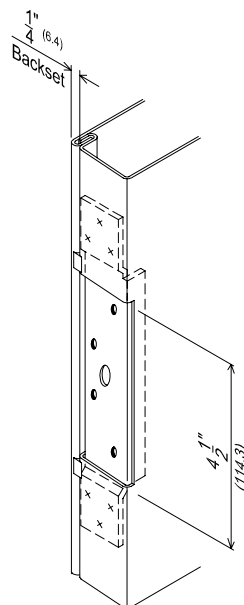
Top Channel and Closer Reinforcing

- Welded 1-1/2" (38) extra deep, 12 gage end channels, welded 16 gage continuous door caps top and bottom and 14 gage, 4-1/2" (114) deep x 15" (380) long closer reinforcing plates at top



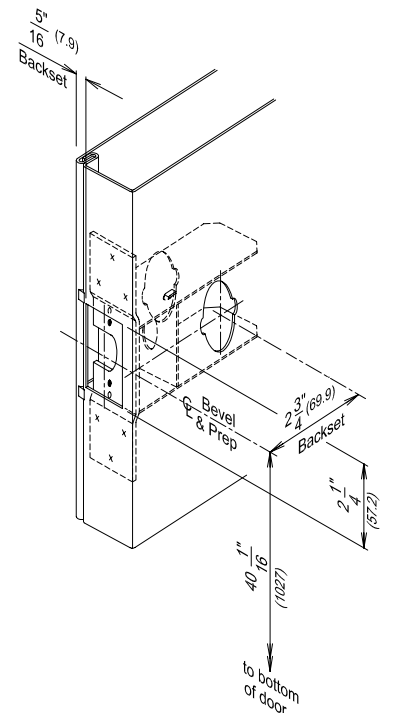
Standard Hinge Reinforcing

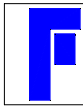
- Projection welded 10 gage High Frequency heavy weight reinforcing at all hinge cutouts



Cylindrical Lock Preparation

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

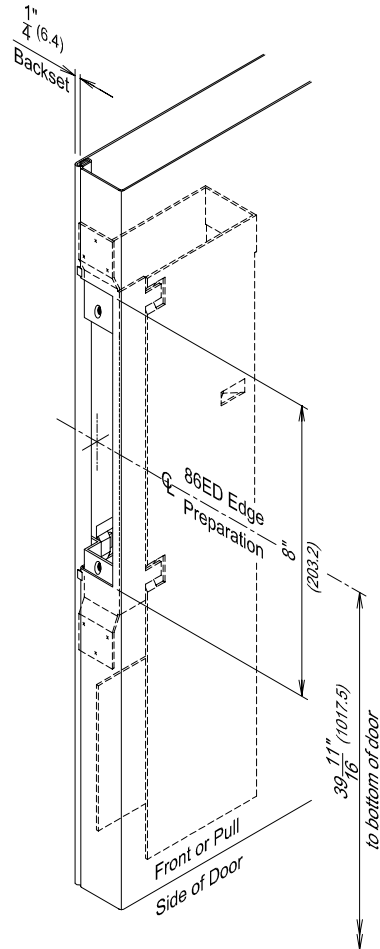




Options (Continued)

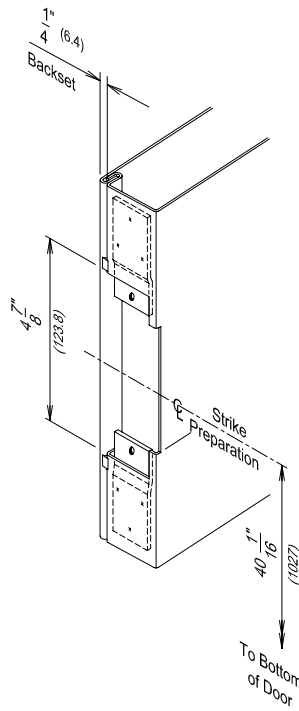
Mortise Lock Edge Preparation

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



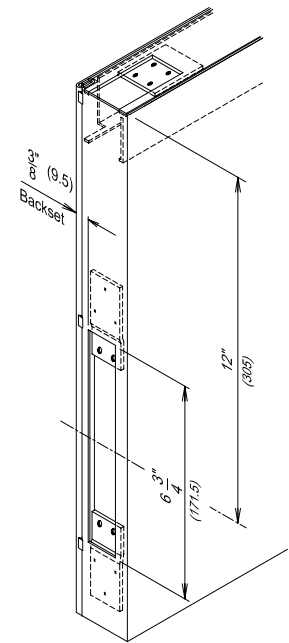
Strike Preparations

- 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



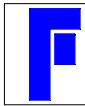
Flush Bolt Preparation

- ASA edge preparation with projection welded 12 gage reinforcing, top and bottom of door preparation with 10 gage tack welded reinforcing to suit ANSI A115.4



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

- G90 Galvanized steel
- Non-standard imperial or metric (SI) nominal widths and heights
- Non-standard hinge preparations, locations, back-sets and reinforcing
- Non-standard strike preparations, locations, back-sets and reinforcing
- Non-standard lock preparations, locations, back-sets and reinforcing
- Edge seams filled and ground smooth



Fleming

Steel Doors & Frames

A United Dominion Company

ARCHITECTURAL
MANUAL

TECHNICAL
DATA SHEET

SD-SERIES DOORS

Topic
Number : D05

Sheet
Number : 4

Date
Issued : May '00

Specifications

- 1) Doors shall be SD16-Series acoustic as manufactured by Fleming
- 2) Doors shall be fabricated from tension leveled steel to ASTM A924, galvanized to ASTM A653, coating designation A40, known commercially as paintable galvalume.
- 3) Doors shall be flush type 1-3/4" (44.4mm) thick and shall achieve a rating of STC 46 when tested as part of a complete, operable assembly, including frame and acoustic gasketing system. (See TDS F09 for Fleming SF-Series Acoustic Frames)
- 4) Interior voids of doors shall be completely filled, stiffened, insulated and sound deadened with Fleming sound attenuating core.
- 5) Longitudinal edges shall be mechanically inter-locked, adhesive assisted, tack-welded and ground smooth with visible seam.
- 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 and 16 gage continuous flush, steel, non-removable end caps, welded securely in place.
- 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 shall be 16 gage minimum.
- 12) Doors shall be provided with integral 14 gage steel closer reinforcing plates at top of door.
- 13) Doors shall be provided with Fleming surface mounted, adjustable, automatic door bottoms, and pairs with Fleming surface mounted over-lapping acoustic astragal, shipped loose for installation by contractor.
- 14) Clearance (undercut) beneath acoustic doors shall be 1/4" (6.4mm) maximum and floor shall provide a level, smooth and solid surface.
- 15) On exposed surfaces where zinc has been removed during fabrication, doors 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) Install doors in accordance with 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 galvalume 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.