

Recommended
Details for
Standard Steel Doors,
Frames, and Accessories



Standards As Tough As Steel.™
© 2024 Steel Door Institute

STEEL DOOR INSTITUTE
30200 DETROIT ROAD • CLEVELAND, OHIO 44145



Documents

Document Sharing Hub

Recommended Details for Standard Steel Doors, Frames, and Accessories

Contents

111A-24 Recommended Standard Steel Door Frame Details..... 1

111B-24 Recommended Standard Details for Dutch Doors..... 7

111C-24 Recommended Louver Details for Standard Steel Doors 9

111D-24 Recommended Door, Frame and Hardware Schedule for Standard Steel Doors & Frames 12

111E-24 Recommended Guidelines for the Use of Gasketing and Thresholds
for Standard Steel Doors and Frames.....15

111F-24 Recommended Existing Wall Anchors for Standard Steel Doors and Frames 19

111G - (Withdrawn) Recommended Standard Preparation for Double Type
(Interconnected) Locks on Standard Steel Doors and Frames

111H-24 High Frequency Hinge Preparations for Frames..... 22

111I-24 Cast In Place Hollow Metal Frames 24

NOTE: To reduce the visual clutter of providing both United States customary units of measurement (US) and International System of Units (SI), this standard will present all measurements in only the US units.

Recommended
**Standard Steel Door
Frame Details**



Standards As Tough As Steel.™
© 2024 Steel Door Institute

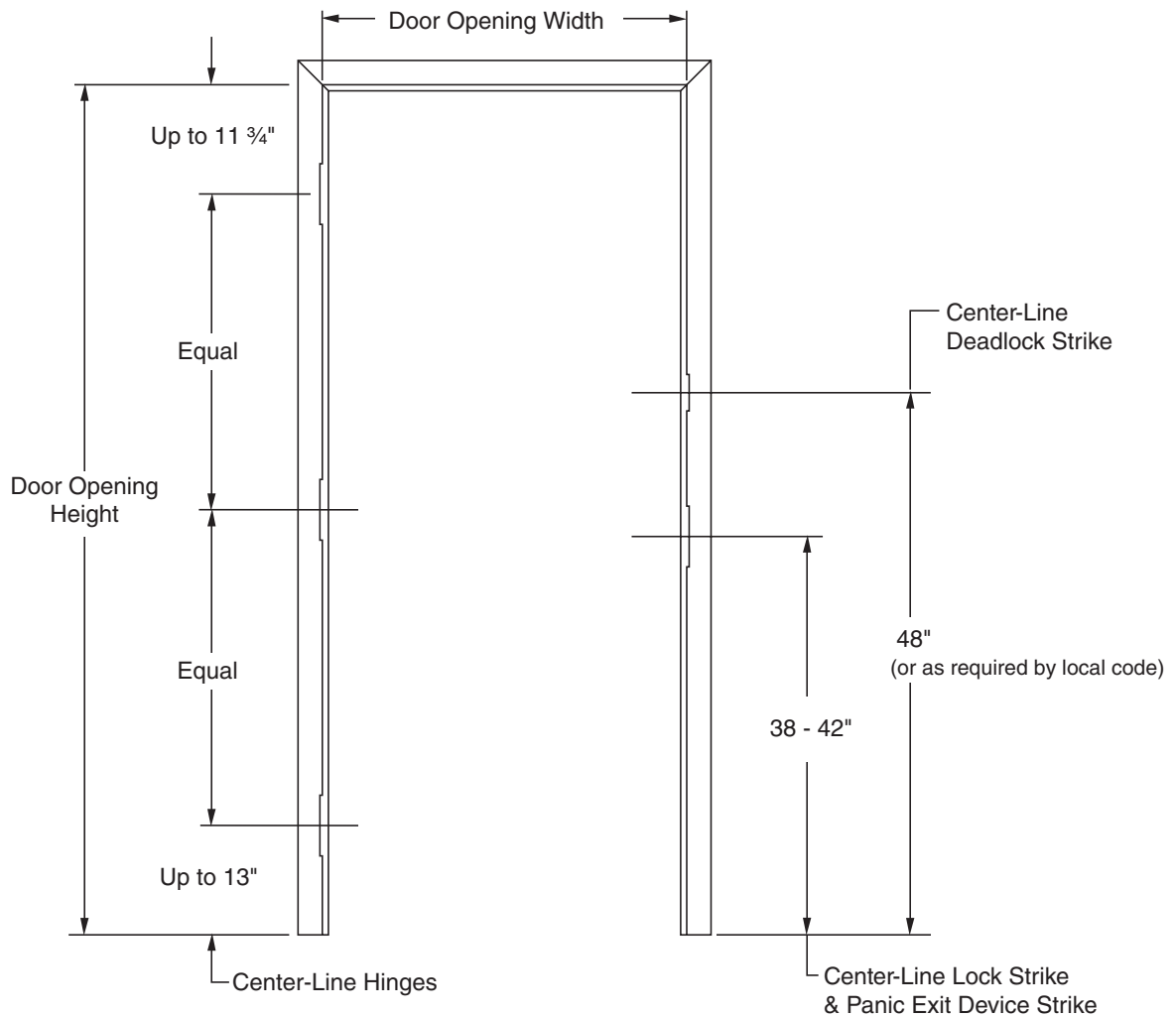
STEEL DOOR INSTITUTE
30200 DETROIT ROAD • CLEVELAND, OHIO 44145



Documents

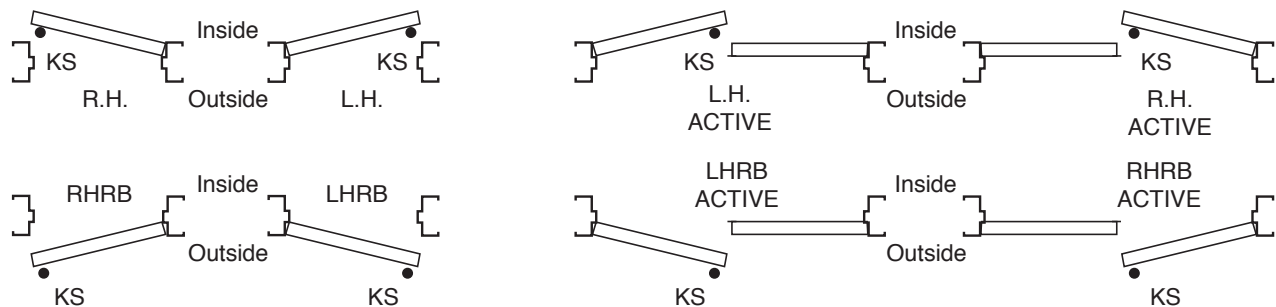
Document Sharing Hub

Hardware Locations



Note: Center Hinge Omitted on 6' 8", 1-3/8" Non-Rated Doors, Unless Specified.

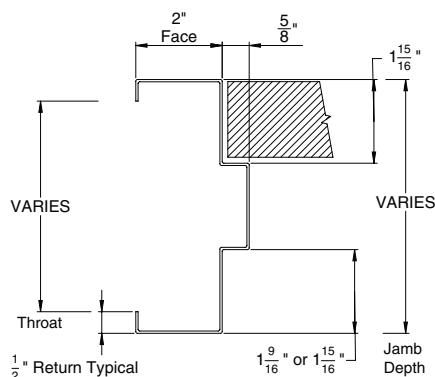
Handing Chart



Note: All values which do not carry specific tolerances or are not marked maximum or minimum shall have the following tolerances: Linear dimensions shall be $\pm 1/16$ in. Weight or force shall be $\pm 2\%$. Angles shall be ± 2 degrees. Where only minus tolerances are given, the dimensions are permitted to be exceeded at the option of the manufacturers.

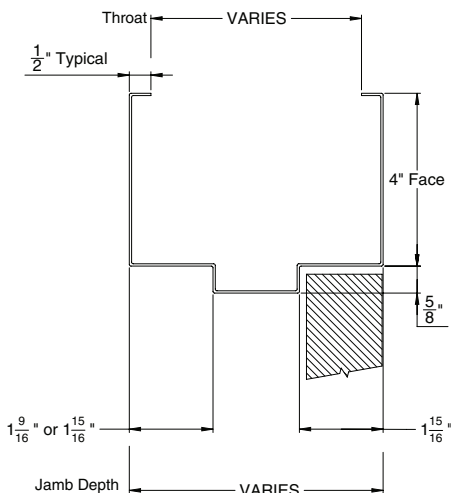
Standard Frame Details

Standard Profiles



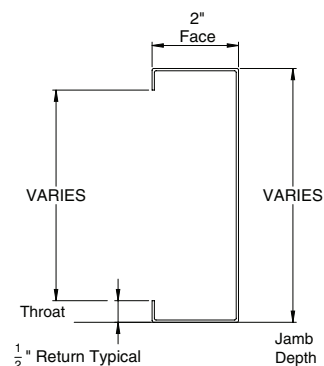
Notes:
Material: 16 gauge steel is typical for interior.
14 gauge steel is typical for exterior
7/16" Return Typical for 5-3/4" Jamb Depth

Double Rabbet (Head or Jamb Detail)



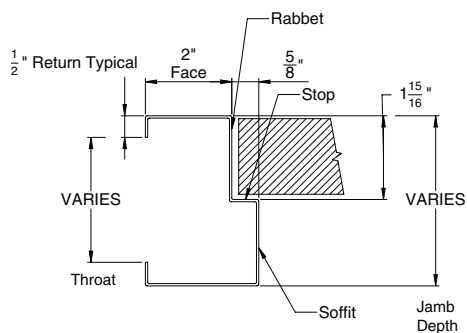
Notes:
Material: 16 gauge steel is typical for interior.
14 gauge steel is typical for exterior
7/16" Return Typical for 5-3/4" Jamb Depth

**Double Rabbet with 4" Face
(Head Detail - Optional)**



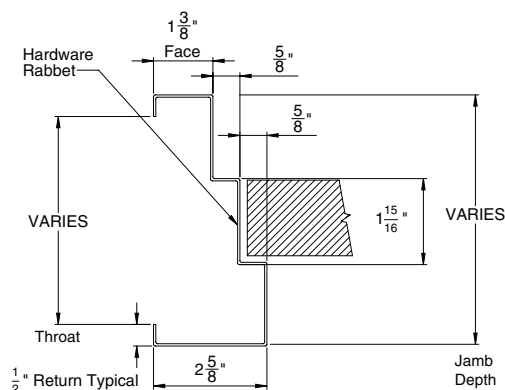
Notes:
Material: 12 to 16 gauge steel is typical
7/16" Return Typical for 5-3/4" Jamb Depth

Cased Open



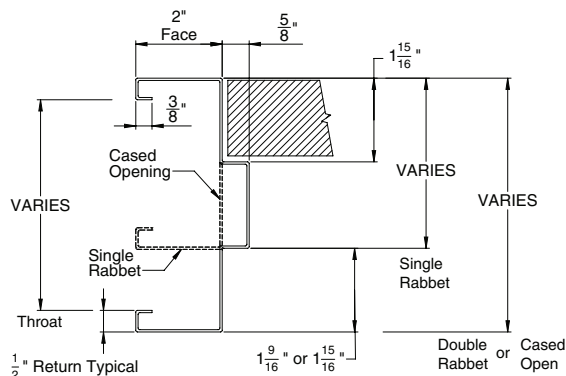
Notes:
Material: 16 gauge steel is typical for interior.
14 gauge steel is typical for exterior
7/16" Return Typical for 5-3/4" Jamb Depth

Single Rabbet (Jamb Detail)



Notes:
Material: 16 gauge steel is typical
7/16" Return Typical for 5-3/4" Jamb Depth
Profiles may vary

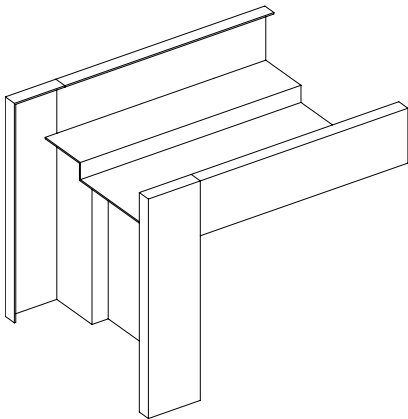
Double Egress



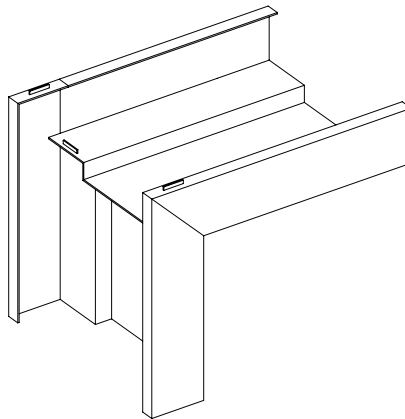
Notes:
Material: 16 gauge steel is typical for interior.
Solid section represents the width of door frame for a Double Rabbet.
Dashed section represents the width of door frame for a Single Rabbet
Soffit to be min 1" (or as required by manufacturer)

"Slip-On Drywall" Door Frame Profile Section

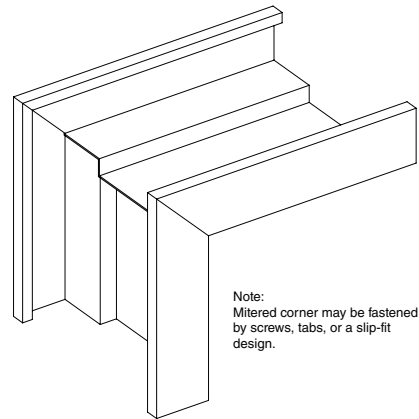
Corners



Double Knocked Down (Butted)
May be Horizontal or Vertical

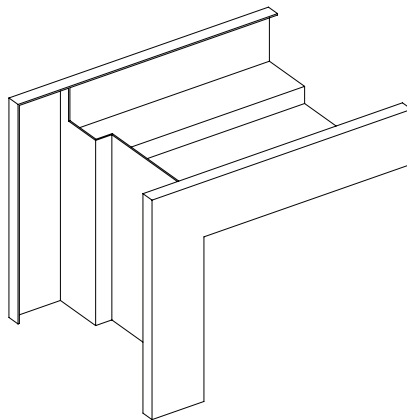


Knocked Down (Mitered)

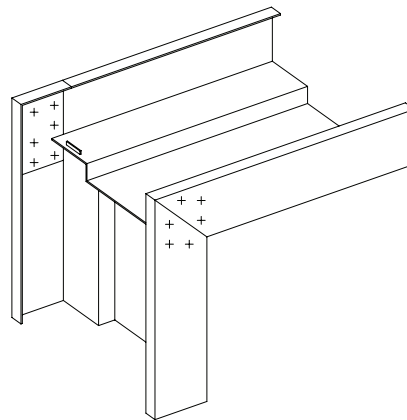


Note:
Mitered corner may be fastened
by screws, tabs, or a slip-fit
design.

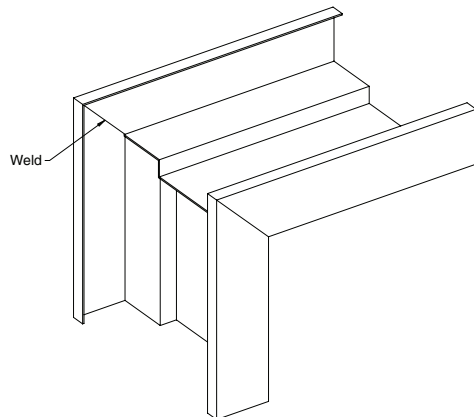
**Door Frame Corner Miter Assembly with
"Slip-On Drywall" Profile Section.**



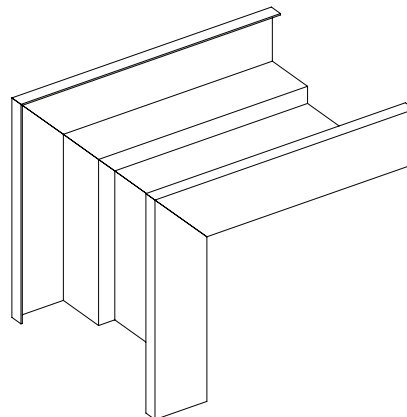
**Set Up Arc Welded
and Ground Smooth**



Set Up Spot Welded

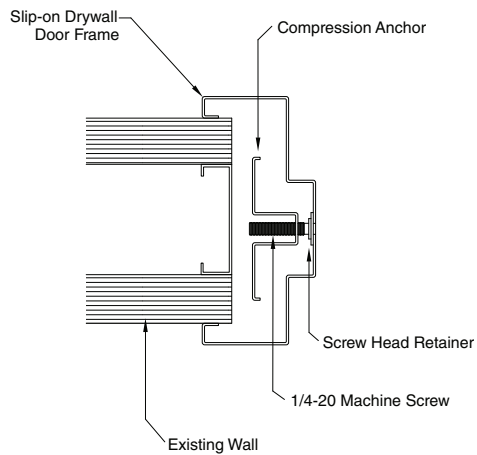


**Mitered and Face Welded
Inside or Outside**



Continuously Welded (Mitered)

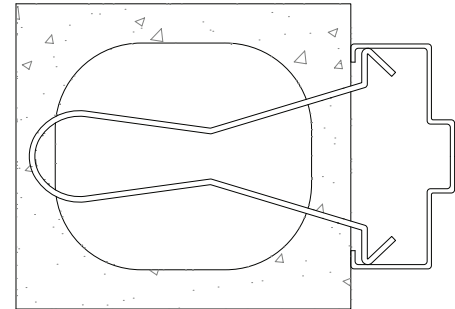
Common Wall Conditions



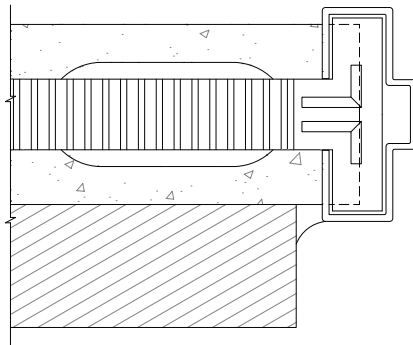
Note:
Turn machine screw which moves the compression anchor in contact with the wall stud.

"Slip-on Drywall" Assembly with Compression Anchor

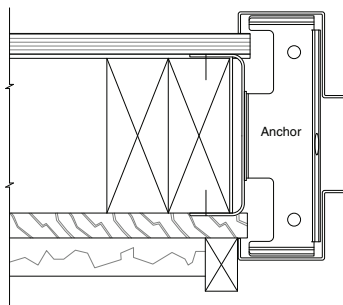
Steel or Wood Stud with Single or Double Layer of 1/2" or 5/8" Gypsum Board Each Side



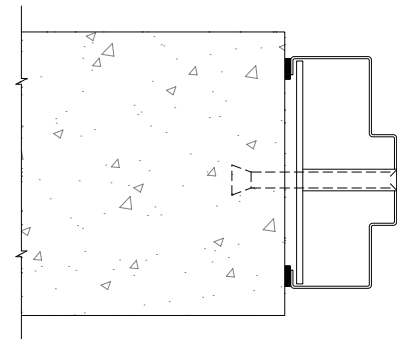
Butted Masonry, Brick Tile or Concrete Block



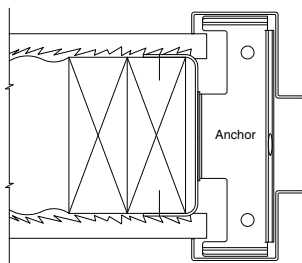
4" Block and Brick Combination



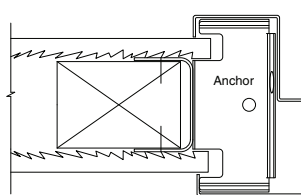
Stucco-2x4 Wood Stud with 3/4" Gypsum Board & Plaster



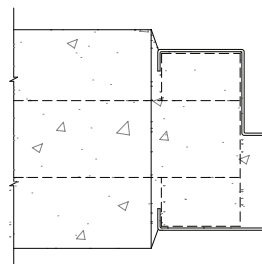
Existing Masonry or Concrete



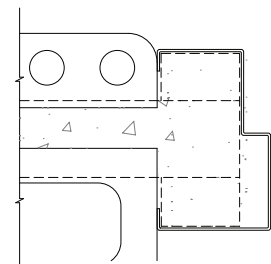
2x4 Wood Stud with 3/4" Plaster on Metal Lath



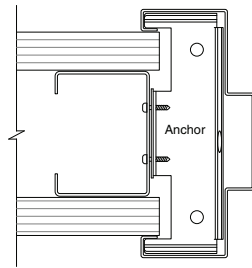
2x4 Wood Stud with 3/4" Plaster on Metal Lath



Butted Masonry, Tile or Concrete Block

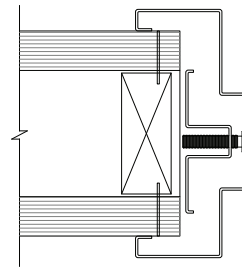


2" Corner Tile and 4" Block Combination



Note:
Frame Material: 14 to 16 gauge steel
is typical

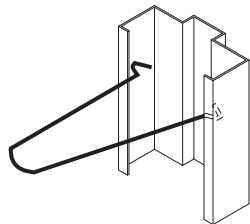
**2-1/2" or 3-5/8" Steel Stud with
Two Layers of 5/8" Gypsum
Board Each Side**



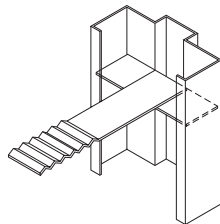
Note:
Material: 16 gauge .053" steel

**2-1/2" or 3-5/8" Steel or
Wood Stud with 1/2" or 5/8"
Gypsum Board**

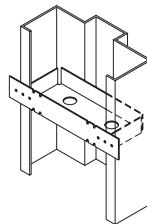
Anchor Details



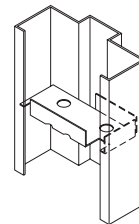
Masonry Wire Anchor



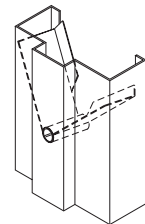
Masonry Tee Anchor



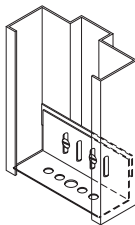
Wood Stud Anchor



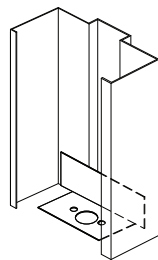
Steel Stud Anchor



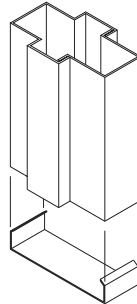
Existing Wall Anchor



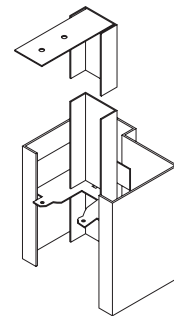
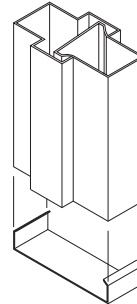
Adjustable Base Anchor



Standard Base Anchor



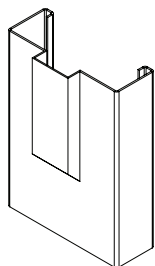
**Typical Mullion Sections
with Base Anchor**



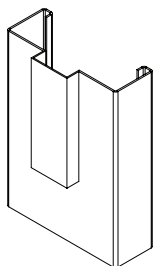
**Plaster Partition Anchor
(Ceiling Strut Optional)**

Hospital Stop Details

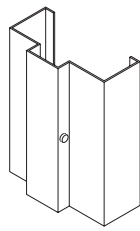
Hardware Preparations



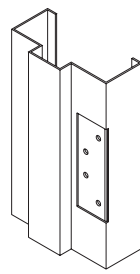
**45 Degree
Hospital Stop**



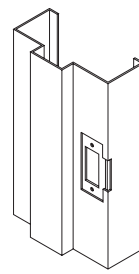
**90 Degree
Hospital Stop**



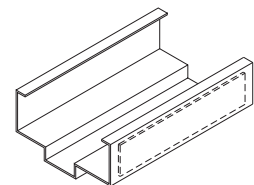
Rubber Silencers



Mortise Hinge



Strike



**Surface Hardware
Reinforcement. Weld-in
Reinforcement Shown, Loose
Reinforcing Sleeve Available
for Field Installation.**

Recommended
**Standard Details
for Dutch Doors**



Standards As Tough As Steel.™
© 2024 Steel Door Institute

STEEL DOOR INSTITUTE
30200 DETROIT ROAD • CLEVELAND, OHIO 44145



Documents

Document Sharing Hub