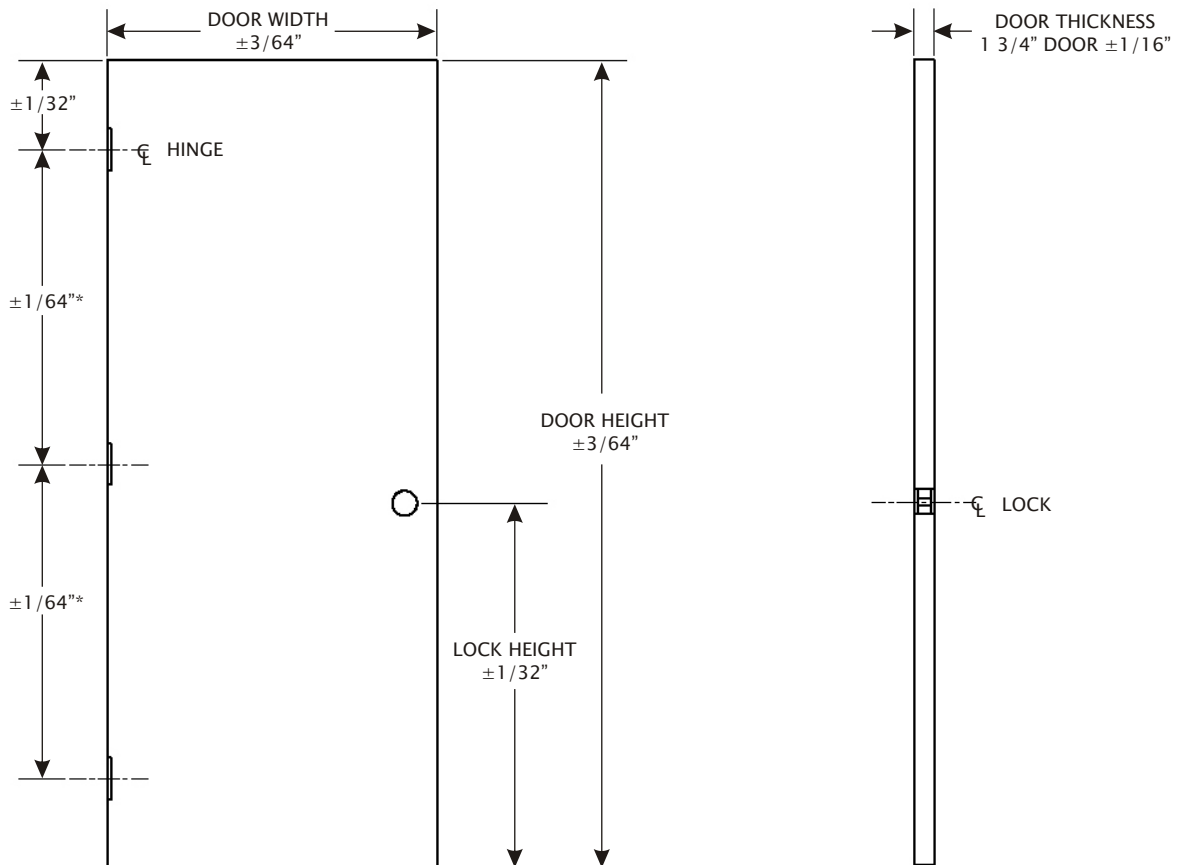


DOOR TOLERANCES

It is the intention of this publication to furnish users and prospective users of standard steel doors and frames with practical information regarding manufacturing tolerances.

The information contained herein pertains to doors and frames manufactured in accordance with "Recommended Specifications - Standard Steel Doors and Frames" SDI-100, published by the Steel Door Institute.



FLATNESS

Measuring at points between the face of the door and a straight-edge laid from corner to corner the surface cannot vary more than $\pm 3/32"$. (Both diagonals to be checked on both faces.)

SQUARENESS

Measuring diagonally from corner to corner across the face of a door, the two dimensions shall not vary more than $\pm 1/16"$.

* TOLERANCES BETWEEN HINGE CENTERLINES ARE NON-ACCUMULATIVE.

TECHNICAL DATA SHEET

DS-101-1

SWINGERDOR 1 3/4"

1. Doors shall be manufactured by Mesker Door Incorporated and designated as SwingerDor 1 3/4".

N () 420-20 gauge 1 3/4 SwingerDor

N () 418-18 gauge 1 3/4 SwingerDor

N () 416-16 gauge 1 3/4 SwingerDor

() = Core designation: "P" - Polystyrene, "H" - Honeycomb, "F" - Fiberboard, or "U" - Urethane.

2. Core material shall be Polystyrene, Honeycomb, Fiberboard or Urethane as called for on plans.

3. Doors shall be full flush constructed of two face sheets of 16, 18 or 20 gauge cold rolled steel and A60, stretcher-levelled quality of flatness or A60 galvanized steel.

4. Doors shall have neat hemmed vertical edge seams mechanically interlocked for maximum structural integrity. Seamless doors available when required by filling or welding edge or seam. (Designated by an "S" in the above nomenclature.)

5. Doors shall have 7 gauge steel hinge reinforcements with 3 projection welds above and 3 below each hinge mortise. The top hinge reinforcement shall extend to the top of the door and have 3 additional projection welds on the extended leg.

6. Doors shall have a box type closer reinforcement factory installed to reinforce both sides of doors.

7. Doors shall have 16 gauge top and bottom channels welded to door skins on 2" centers.

8. Doors shall be mortised and adequately reinforced for all hardware. Mortised hardware reinforcements shall be drilled and tapped at the factory. Surface applied hardware shall be field drilled by others.

LABEL SWINGERDORS 1 3/4" - 16, 18 OR 20 GAUGE..

SWINGERDORS ARE AVAILABLE WITH UL, WHI AND FACTORY MUTUAL LABELS AS SHOWN BELOW:

CORE MATERIAL	POLYSTYRENE	HONEYCOMB	URETHANE	FIBERBOARD
GAUGE	16, 18 & 20 GAUGE	16, 18 & 20 GAUGE	16 & 18 GAUGE	16 & 18 GAUGE
LABEL	A, B & C	A, B, C, D & E	NOT RATED	A, B, C, D & E
HEAT RISE RATING	NONE	NONE	N/A	250° PYRODOR
MAXIMUM SIZES AVAILABLE	SINGLE: 4080 PAIR: 8080	SINGLE: 4080 PAIR: 8080	N/A	SINGLE: 4072 PAIR: 8072

NOTE: 20 gauge not available in doors larger than 3'6" width and 7'2" length.

SWINGERDOR
January 2007



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TECHNICAL DATA SHEET

DS-101-2

GENERAL INFORMATION

1. Rating "A" label – 3 hour, "B" label – 1 ½ hour, "C" label – ¾ hour, "D" label – 1 ½ hour and "E" label – ¾ hour.
2. Glass permitted. "B" label – 100 square inches per leaf maximum. Dimensions may not exceed 12" in width or 33" in length. "C" label – 1296 square inches per light, neither dimension may exceed 54". "E" label – 1296 square inches per light, neither dimension may exceed 54". (No glass is permitted in "A" and "D" label doors except 100 square inches in "A" label doors with special glass and glazing.)
3. Temperature rise doors: 250° temperature rise rating not applicable on "C" and "E" label doors due to large glass areas.
4. Fire exit device labels must be attached to door when used with labeled and listed fire exit hardware.
5. All doors listed in pairs can be used with single point lock and automatic flush bolts or vertical rod and mortise panic devices with flush bolts on inactive.

ENGINEERING DATA – CORE MATERIALS

CORE MATERIALS	POLYSTYRENE	HONEYCOMB	URETHANE	FIBERBOARD
PHYSICAL PROPERTIES DENSITY	1.4 PCF	1.2 PCF	2.05 PCF	17.0 PCF
COMP. STRENGTH	23 PSI	30 PSI	27 PSI	100 PSI
COEF. OF EXP./°F	<1 1/2%/VOL.	N/A	N/A	2% WGT.
SOUND TRANSMISSION (STC) 20 GA. FACE SHEETS	25	30	N/A	29
18 GA. FACE SHEETS	27	31	29	32
THERMAL PROPERTIES "R" FACTOR	.22	1.0	.14	.51
"U" FACTOR	.20	.41	.075	.28
FIRE HAZARD CLASS. FUEL CONTRIBUTED	0	N/A	N/A	30
SMOKE DEVELOPED	50-85	N/A	N/A	0
SERVICE TEMPERATURE RANGE	-65° - 190°F	-65° - 200°F	-65° - 200°F	-50° - 250°F

STANDARD HARDWARE PREPARATIONS

Lock Preparation – Government 161 cylindrical lock (2 3/4 backset) reinforced as in detail G1, DS-113. Government 86 mortise lock (2 3/4 backset) reinforced as in detail G2, DS-113.

Hinge Preparations – 4 1/2" x 4 1/2" standard weight template hinges, 1 1/2" pair on 6'8", 7'0" and 7'2" doors, 2 pair on 7'10" and 8'0" doors.

Surface Mounted Hardware – Doors are factory reinforced for surface mounted hardware when specified. Mounting holes are drilled and tapped in field by others.

Universal Handing – Swingerdoors will fit both right and left hand openings due to the double hole pattern and reversible hinge filler.

Pairs of Doors – Pairs of doors may be supplied with astragals when specified. See DS-157 for details.

Packaging – Each door is packed in individual corrugated cardboard cartons clearly identified as to its contents.

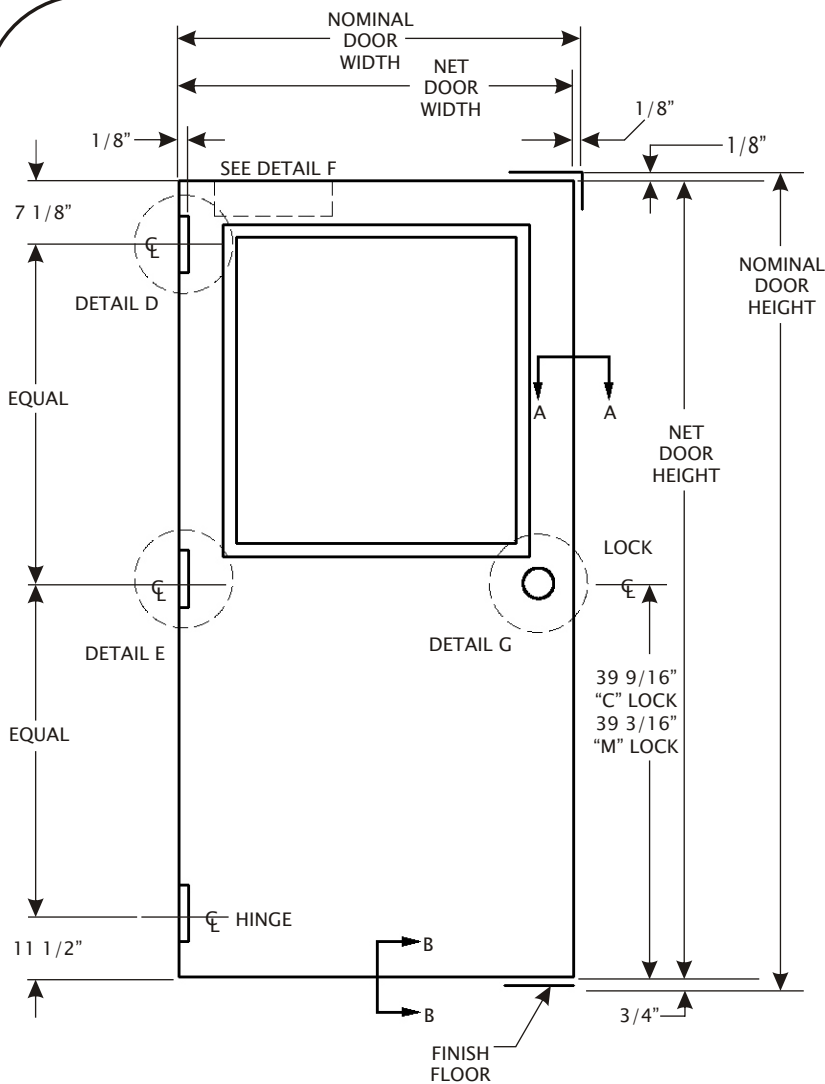
SWINGERDOR
January 2007



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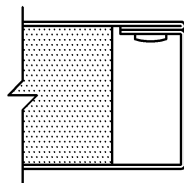
TECHNICAL DATA SHEET

DS-101-3



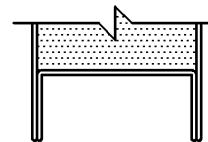
STANDARD DOOR WIDTHS	
NOMINAL DOOR WIDTHS	NET DOOR WIDTHS
2'-0"	23 3/4"
2'-4"	27 3/4"
2'-6"	29 3/4"
2'-8"	31 3/4"
3'-0"	35 3/4"
3'-4"	39 3/4"
3'-6"	41 3/4"
3'-8"	43 3/4"
3'-10"	45 3/4"
4'-0"	47 3/4"

STANDARD DOOR HEIGHTS	
NOMINAL DOOR HEIGHTS	NET DOOR HEIGHTS
6-8"	79 1/8"
7'-0"	83 1/8"
7'-2"	85 1/8"
7'-10"	93 1/8"
8'-0"	95 1/8"



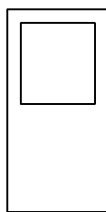
SECTION A-A

MECHANICALLY INTERLOCKED HEMMED SQUARE EDGE

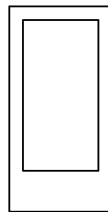


SECTION B-B

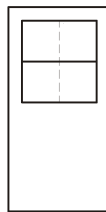
16 GAUGE TOP AND BOTTOM CHANNEL



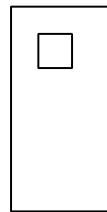
G



FG



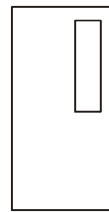
G2-G4



V



L



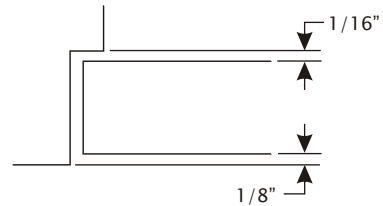
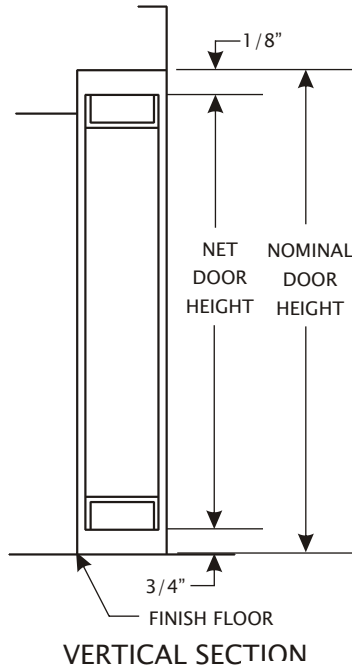
N

SWINGER DOOR
January 2007

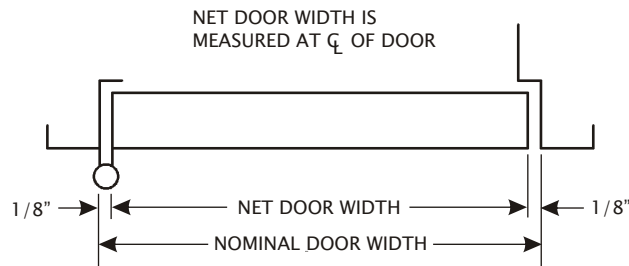


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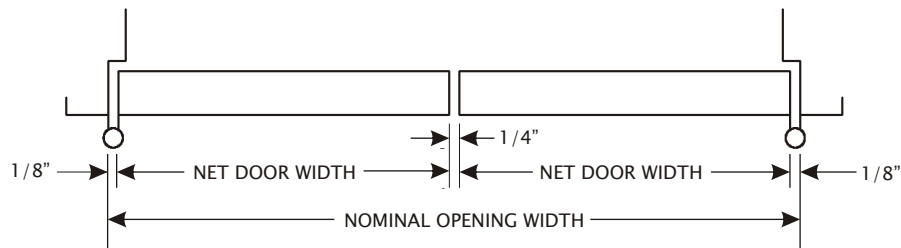
STANDARD CLEARANCES SINGLE AND DOUBLE SWING DOORS



HEAD AND JAMB CLEARANCES



HORIZONTAL SECTION
SINGLE SWING DOORS

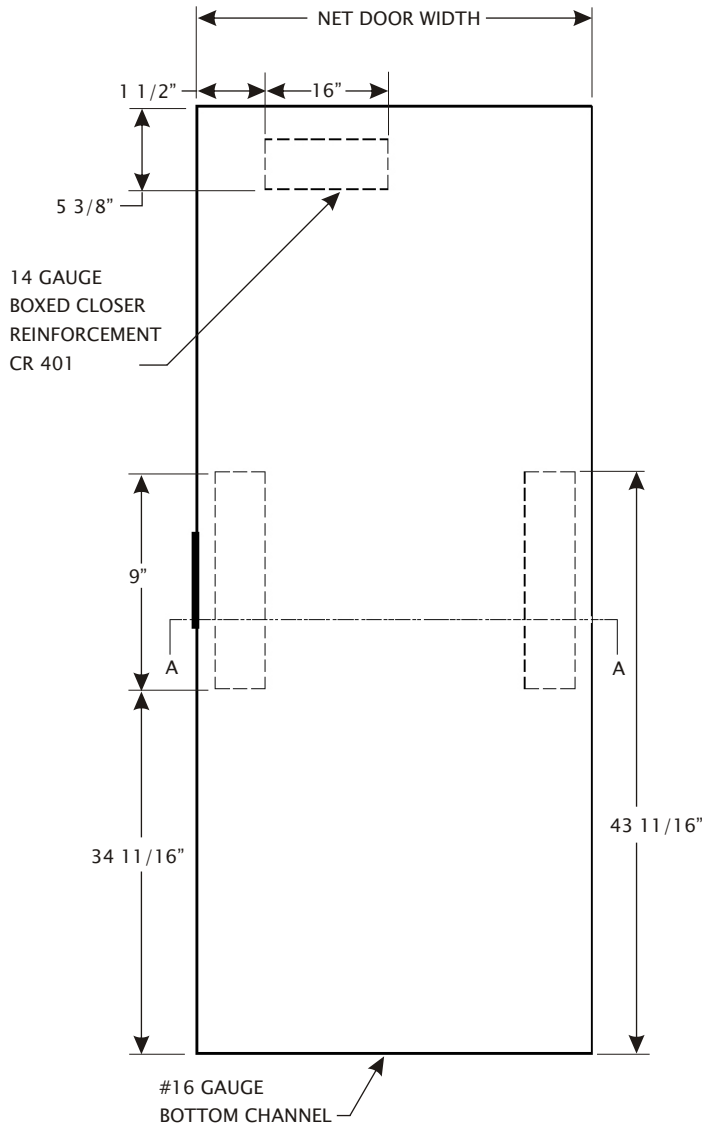


HORIZONTAL SECTION
DOUBLE SWING DOORS

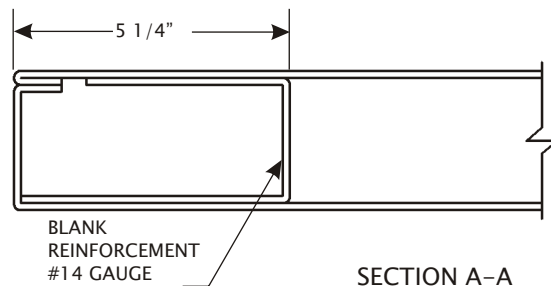
TECHNICAL DATA SHEET

DS-110-A

PANIC BAR DOOR DETAILS 1 3/4" DOORS



PANIC BAR EDGE
IS REINFORCED FOR
GOVERNMENT 86
MORTISE LOCK WITH
SKIN COVERING



January 2007

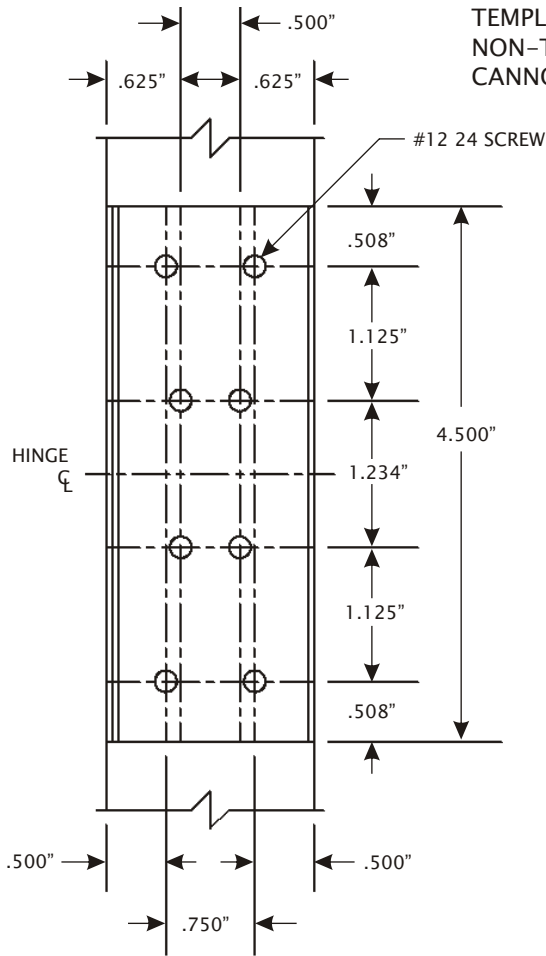


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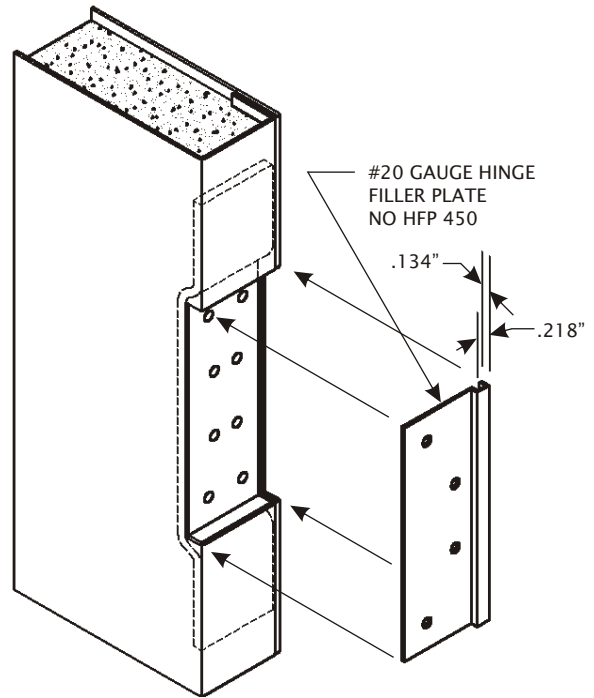
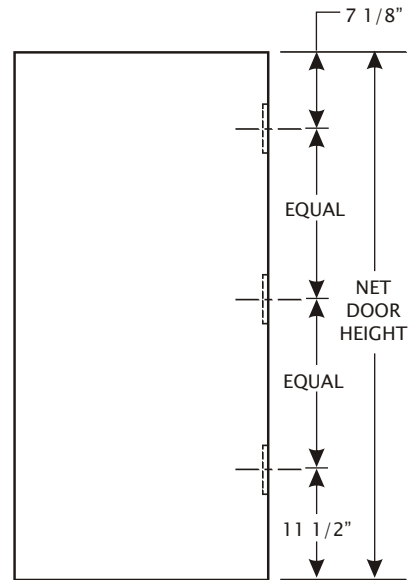
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4 1/2" HINGE PREPARATION 1 3/4" DOORS

HINGE PREPARATION
WILL TAKE 4 1/2" HIGH
TEMPLATE HINGES ONLY.
NON-TEMPLATE HINGES
CANNOT BE USED.

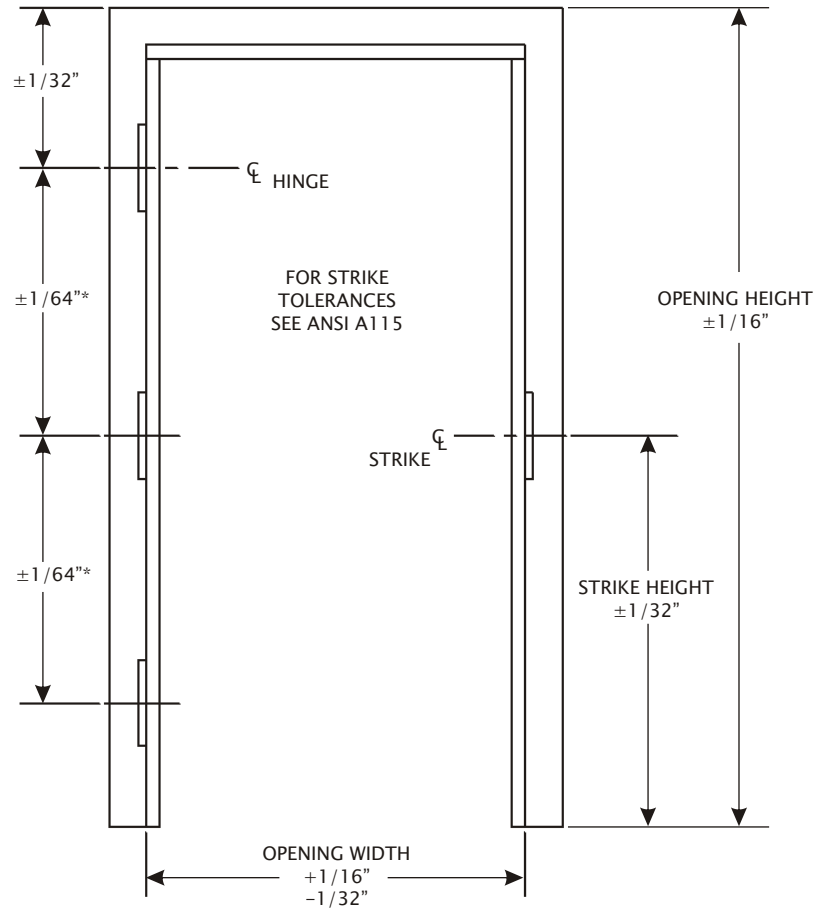


3/16" HINGE REINFORCEMENT

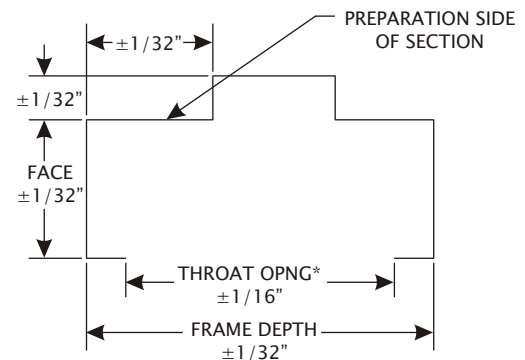
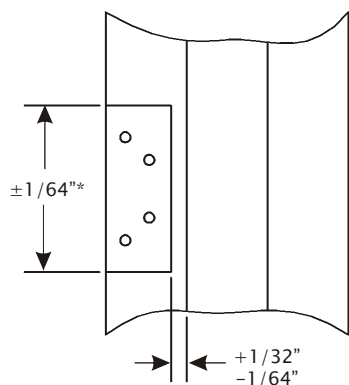


HINGES CAN BE ATTACHED ON EITHER
SIDE OF THE DOOR REVERSIBLE FOR
ANY HAND AND SWING REQUIRED.

FRAME TOLERANCES



HINGE PREPARATION



* TOLERANCES BETWEEN HINGE CENTERLINES ARE NON-ACCUMULATIVE

**BASED ON NOMINAL HINGE HEIGHT $+1/32"$

*THROAT OPNG -- SLIPON DRYWALL $\pm 1/32"$

STANDARD STEEL FRAMES

SPECIFICATIONS

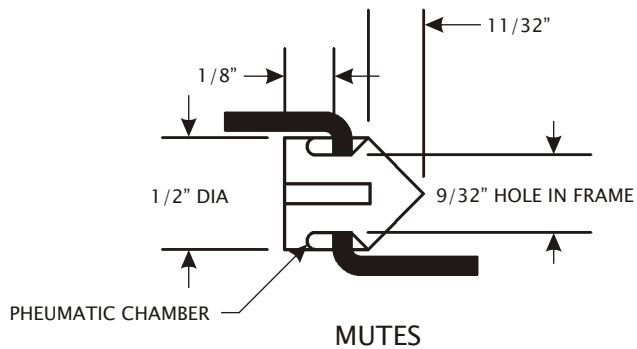
MESKER STANDARD STEEL FRAMES

1. Frames shall be manufactured by Mesker Door Incorporated and designated as F-416 (16 GA) or F-414 (14 GA) for 1 3/4" doors, F-412 for Bullet Resistant Frames and F-816 (16 GA) for 1 3/8" doors.
2. Frames shall be fabricated from cold rolled or A60 galvanized steel.
3. Frames shall be furnished knocked down. Mitered corners shall have a strong four tab interlocking system to maintain tight fineline miters.
4. Frames for 1 3/4" doors shall be prepared for a 4 1/2" x 4 1/2" standard or heavy weight template hinges and ANSI 115.1 universal strike.
5. Frames for 1 3/8" doors shall be prepared for 3 1/2" x 3 1/2" standard weight template hinges and ANSI 115.3 cylindrical strike.
6. Frames shall be adequately reinforced for all hardware.
7. Strike and hinge reinforcements shall be protected by plaster guards.
8. Frames shall be supplied with 1 sill anchor.
9. Frames shall be furnished with rubber mutes, three per strike jamb.
10. Frames shall receive 1 coat of baked-on rust inhibitive gray primer.
11. For installation instructions see ANSI A250.11-2001 and DS-201-5.

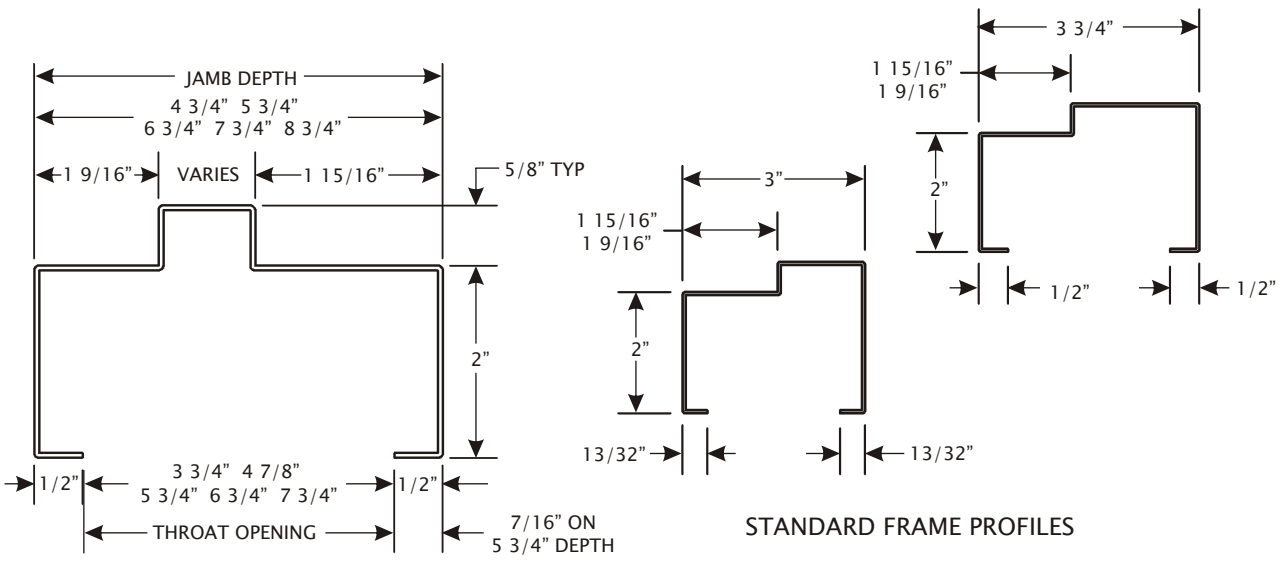


TECHNICAL DATA SHEET

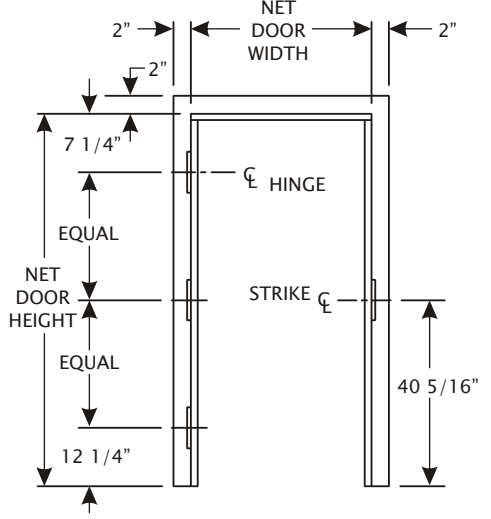
DS-201-2



TO INSTALL IN FIELD INSERT BLUNT END OF 3/32" DIAMETER WIRE OR TOOL INTO THE HOLE IN CENTER OF THE MUTE. MOISTEN CONE PORTIONS AND INSERT INTO 9/32" HOLE IN STOP OF FRAME, PUSH SLOWLY WITH A CIRCULAR MOTION TO ELONGATE CONICAL PORTION SUFFICIENTLY TO SET MUTE IN PLACE.



FINISHED OPENING HEIGHT	FINISHED OPENING WIDTH		FRAME DIMENSIONS	
	SINGLE	DOUBLE	JAMB DEPTH	THROAT OPENING
	2'-0"	4'-0"		
	2'-4"	4'-8"	3"	2 3/16"
6'-8"	2'-6"	5'-0"	3 3/4"	2 3/4"
7'-0"	2'-8"	5'-4"	4 3/4"	3 3/4"
7'-2"	3'-0"	6'-0"	5 3/4"	4 7/8"
8'-0"	3'-6"	7'-0"	7 3/4"	6 3/4"
	3'-8"	7'-4"	8 3/4"	7 3/4"
	4'-0"	8'-0"		

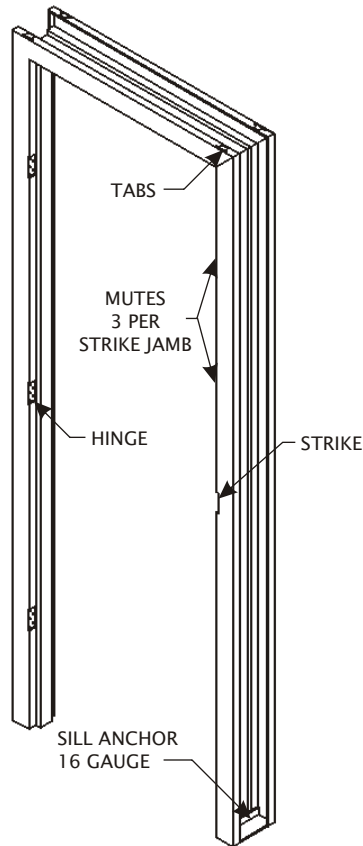


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TECHNICAL DATA SHEET

DS-201-4



GENERAL INFORMATION

STRIKE PREPARATIONS

Frames are prepared for 4 7/8" high universal strike (ANSI 115.1) specify "U" and 2 3/4" high cylindrical strike (ANSI 115.3) specify "C".

HINGE PREPARATIONS

Frames for 1 3/4" doors are prepared for 4 1/2" x 4 1/2" standard or heavy weight template hinges. 1 1/2" pair on doors up to 7'-2" in height and 2 pair on 7'-10" and 8'-0".

Frames for 1 3/8" doors are prepared for 3 1/2" x 3 1/2" standard weight template hinges. 1 pair on 6'-8" doors and 1 1/2" pair on 7'-0" and 7'-2" doors. U/L labeled frames have 1 1/2" pair on all sizes.

ANCHORS

Anchors must be specified to correspond with wall condition. Details are shown on the following data sheets:

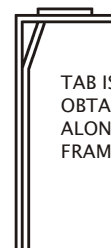
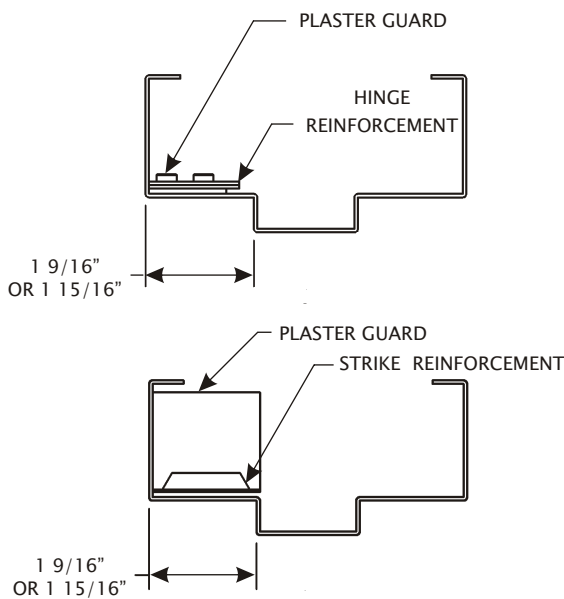
- Wire Anchor - DS 246
- Masonry Tee Anchor - DS 242
- Wood and Steel Stud Anchor - DS 243
- U/L Labeled Masonry Anchor - DS 241
- Existing Wall Anchor - DS 245

SILL ANCHORS

Each jamb is supplied with 1-16 gauge sill anchor.

MUTES

Each frame is furnished with rubber mutes. Three per strike jamb.



SECTION THRU TAB

TAB IS OFFSET TO OBTAIN SMOOTH BEND ALONG TOP OF FRAME HEAD.

January 2007

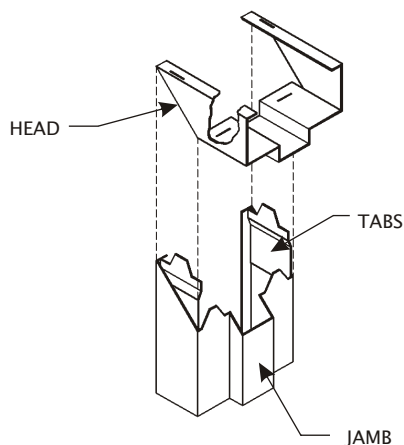
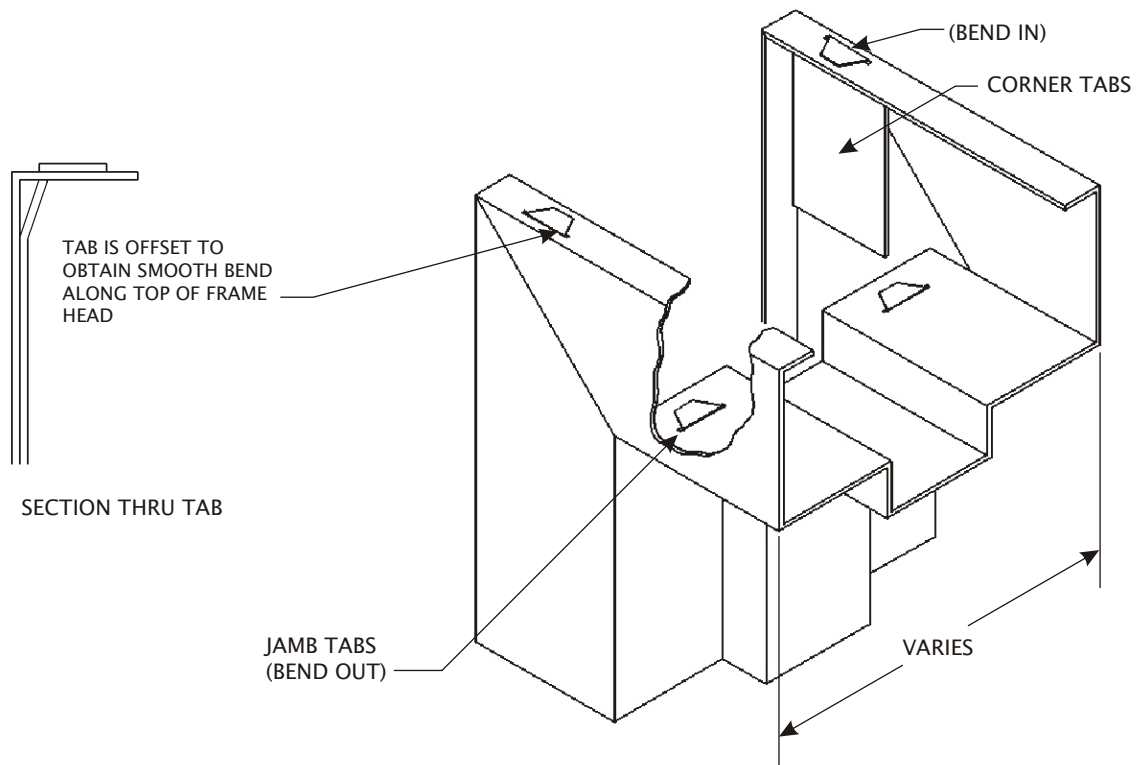


MESKER

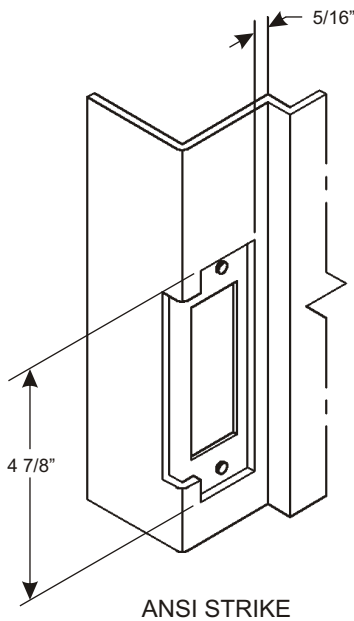
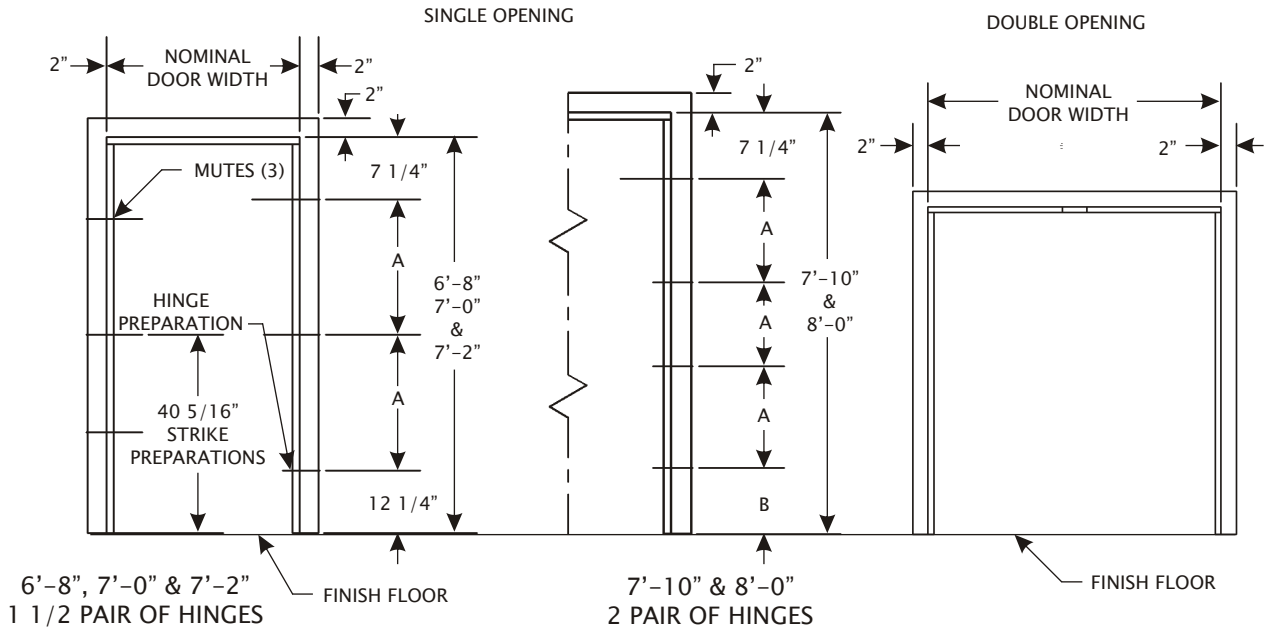
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F-SERIES ASSEMBLY INSTRUCTION

1. Slide header over jamb corner tabs, insert into slots.
2. Bend tabs on jamb rabbets out per illustration. (NOTE: Bending tabs in will increase door opening dimension.)
3. Bend corner tabs in per illustration.



1 3/4" FRAMES HINGE AND LOCK LOCATIONS



FRAME HEIGHT	DIMENSION "A"
6'-8"	30 1/4"
7'-0"	32 1/4"
7'-2"	33 1/4"
7'-10"	25 1/2"
8'-0"	25 1/2"
FRAME HEIGHT	DIMENSION "B"
7'-10"	10 1/4"
8'-0"	12 1/4"

