

**ENGINEERING DETAILS for STANDARD
SERIES F-14 & F-16 SPLIT FRAME for 1 3/4" Doors**

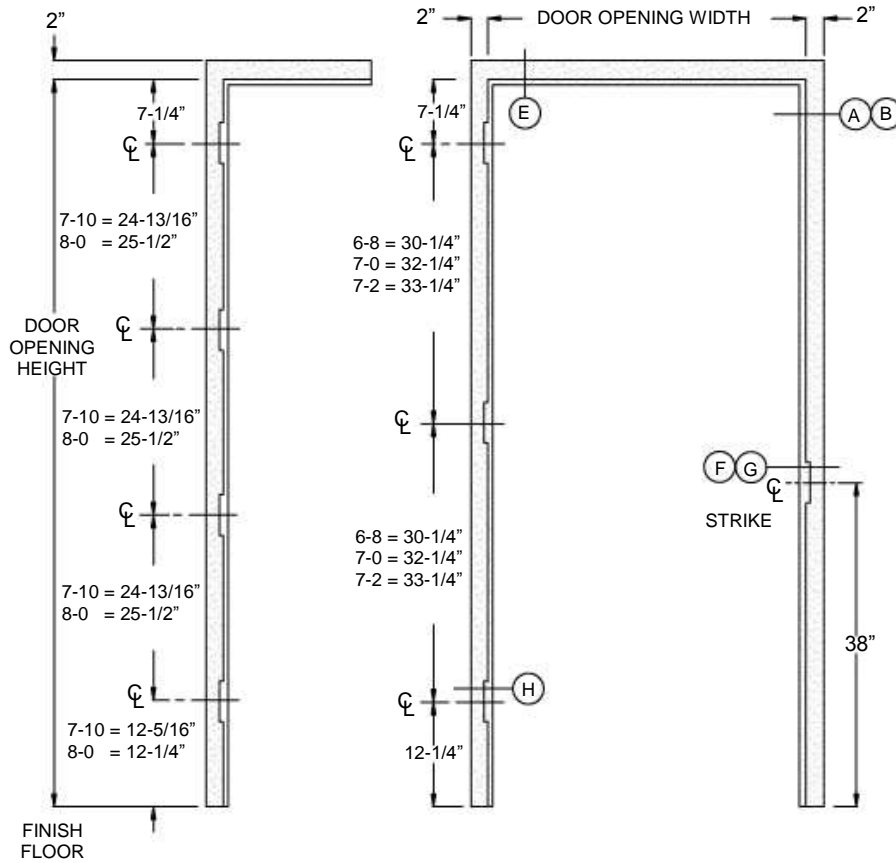
Specifications

1. Frames shall be manufactured from 14 gage or 16 gage steel per ASTM A 1008, 568 & 569. OR A60 Galv. Per ASTM A924 & A653
2. Frame Miters shall be arc-welded and ground smooth, and frames shall be provided with steel bottom spreader.

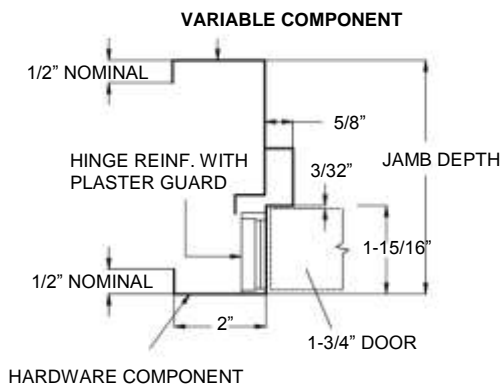
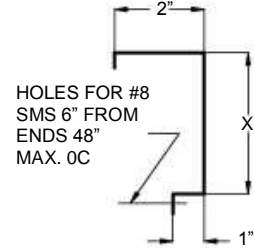
Option: Frames shall be knocked down for field assembly. Miters shall have a precision hairline joint when assembled.
3. Heads shall be reinforced for surface applied closers, holders or brackets when required.
4. Dual purpose hinge reinforcements shall be 3/16" thick. It comes equipped with galvanneal back-up filler plate for standard weight hinges. Conversion from standard weight to heavy weight hinges is done by removing the filler plate. All reinforcements for hinges and strikes shall have steel- plaster guards.
5. All strike jambs shall be set out to suit pressure sensitive door silencers. Pressure sensitive silencers are purchased separately.
6. Frames shall be furnished with proper screws as required for installation.
7. Frames to be prime painted by Pioneer's exclusive "DURA-BOND" process, consisting of wash, phosphate treatment, "flo-coat" painting and oven-baking in compliance with ANSI A250.10- 2004.
8. Frames to be furnished with UL or WHI Positive and Neutral Pressure rated listing mark (label) as required. Smoke Rating requires installation of Listed gasket. Frame must be installed in compliance with NFPA 80 and per Pioneer Installation Instruction.
9. Frame construction complies with ANSI A 250.8-2003 (SDI -100)
10. Hardware preparations and reinforcements comply with ANSI A250.6-2003. Locations are in accordance with ANSI/BHMA A156.115-2006



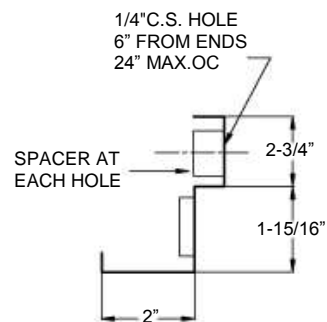
The Split Frame Assembly consists of a fixed hardware component and a variable component. The frame when installed wraps around the wall and is anchored to the steel studs. The variable component is anchored first to steel studs and then the hardware component is installed over it. This combination allows nearly unlimited variety of jamb depths and applications.



VARIABLE COMPONENT



HARDWARE COMPONENT



TECHNICAL DATA – FRAMES

F SERIES

SPLIT FRAME DETAILS

X	JAMB DEPTH	
	MIN	MAX
2-7/8	4-7/8	5-7/8
4	6	7
5-1/8	7-1/8	8-1/8
6-1/4	8-1/4	9-1/4
7-3/8	9-3/8	10-3/8

* For other sizes consult factory

DOOR OPENING	
HEIGHT	WIDTH
	2'-0"
	2'-4"
	2'-6"
6'-8"	2'-8"
7'-0"	2'-10"
7'-2"	3'-0"
7'-10"	3'-4"
8'-0"	3'-6"
	3'-8"
	3'-10"
	4'-0"

NOTES

Standard Hinge Preparation:

1-1/2 pair of 4-1/2" x 4-1/2" standard weight template hinges for 6'-8", 7'-0" & 7'-2" height. Two pair for 7'-10" and 8'-0" height. Hinge Backset 5/16" for 4-1/2" Regular Weight Butts; 11/32" for 4-1/2" Heavy Weight Butts.


Standard Strike Preparations:

ANSI A115.1 4-7/8" furnished as standard. ANSI A115.3 2-3/4" strike is optional. Strike Backset = 11/32".

Standard Anchors:

Frame Anchors — # 8 x 1/2" SMS & 1/4 x 2-1/2" FHSMS furnished as standard for steel studs. Both jambs and head are anchored to the studs.

Fire Rated Label:

All 16 Ga. and 14 Ga. frames available with Underwriters Laboratories listing mark unless specifically prohibited by 

Standard Finish:

All frames are furnished with a baked "Dura-Bond" prime finish.

MANUFACTURING TOLERANCES

Door opening width
nominal opening + 1/16", - 0"
Door opening height
Nominal opening..... ± 1/16"

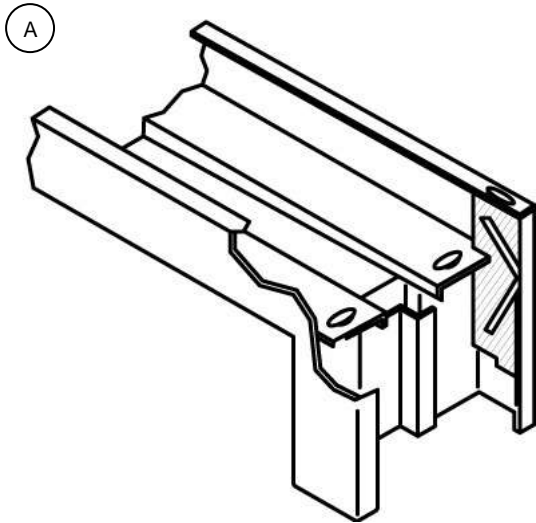
Hardware cutouts

Template dimension +1/64", - 0"

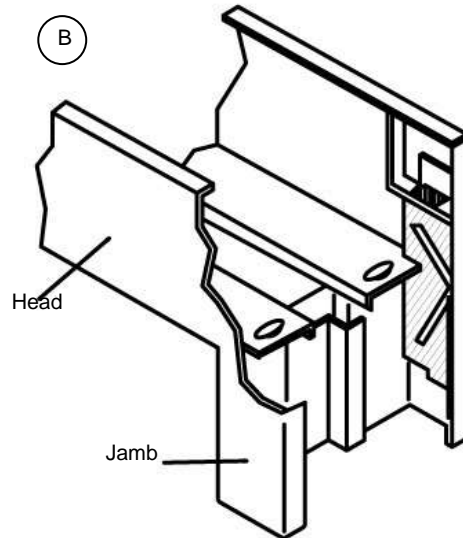
Hardware Prep location

Height ± 1/64"
Backset..... ± 1/64"
Depth +1/32", - 0"

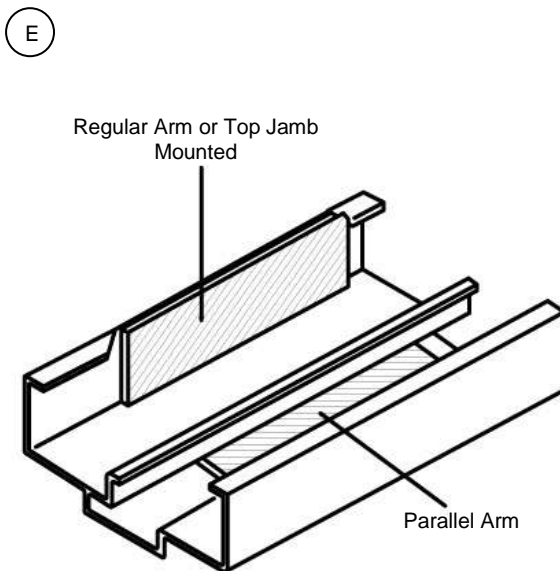
FRAME CONSTRUCTION DETAILS



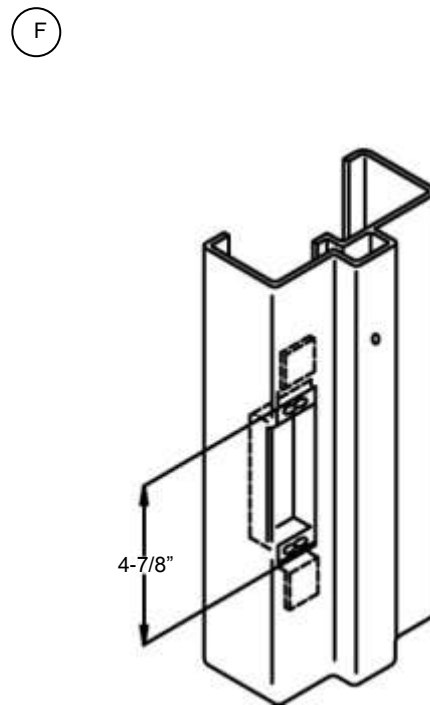
CORNER SECTION



CORNER SECTION
4" HEAD

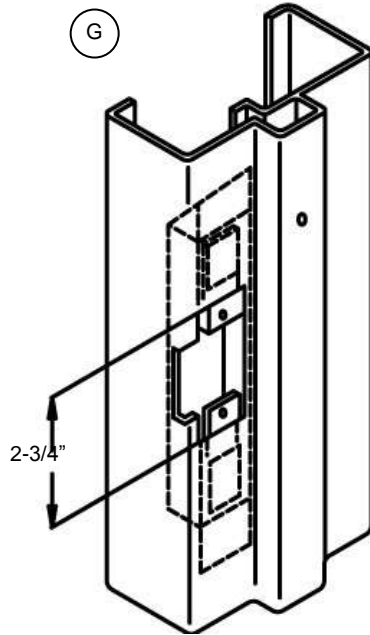


CLOSER REINF. (WELD-IN)
(Available for various trim and
stop applied devices)

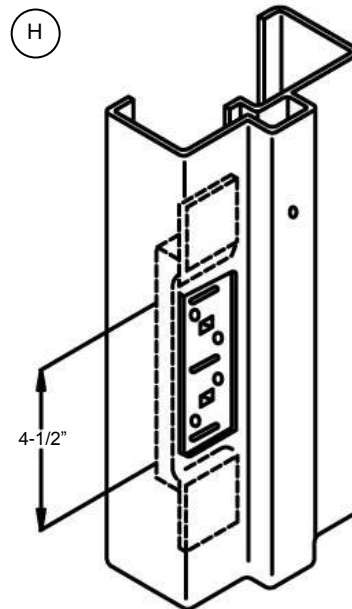


STRIKE PREPARATION
ANSI/BHMA
A156.115.(Standard)

MANUFACTURING DETAILS



STRIKE PREPARATION
2-3/4" (Optional)



DUAL PURPOSE MORTISE
HINGE PREPARATION WITH
BACK-UP FILLER PLATE

NOTE: In order to provide our customers with the finest products, manufactured in the most up to date manner, Pioneer Industries reserves the right to make design or specific construction changes without notice.

Pioneer Industries will not be responsible for errors incurred by other parties through the use of this data sheet without written confirmation from Pioneer. Other trades should contact Pioneer for exact hardware locations