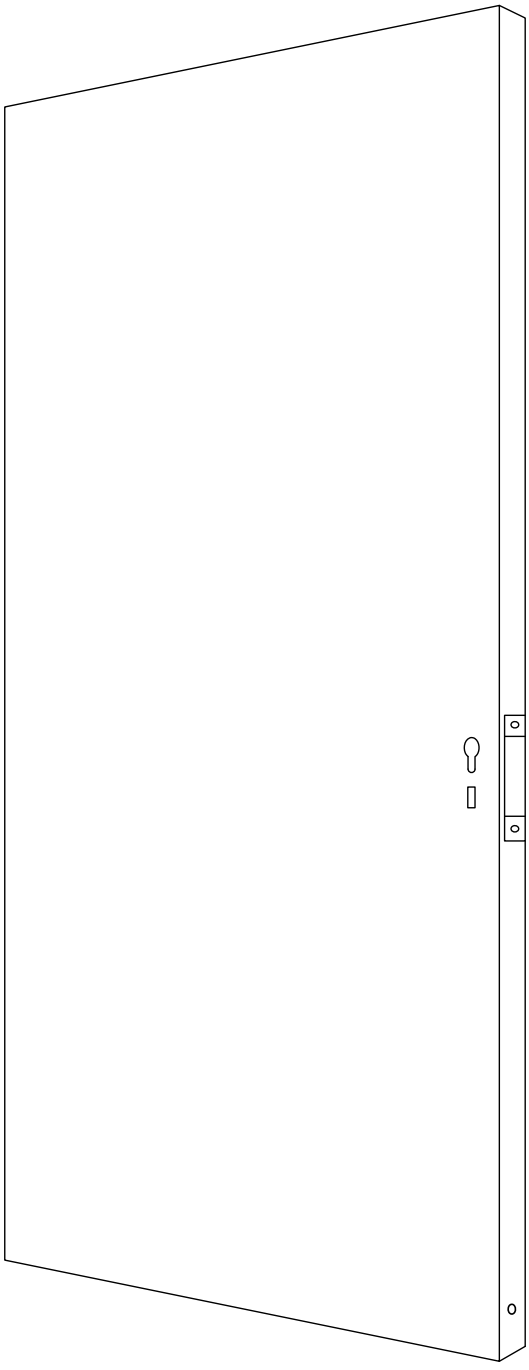
ENGINEERING DETAILS for STANDARD
SERIES PIOCANE- FEMA-361 FLUSH 1 ¾" Doors.

Specifications

1. Doors shall be formed of two 14 gage steel sheets per ASTM A1008, 568 & 569 or A60 Galv. steel sheet per ASTM A 924 and A653 and shall be 1 ¾" thick.
2. Doors shall be internally reinforced with pairs of hat-shaped steel stiffeners joined together and running vertically full height of door, not more than 6" apart. Stiffeners shall be spot welded 4" o.c. to both faces of doors, and arc-welded to each other top and bottom.
3. Voids between stiffeners shall be filled with Fiberglass or mineral wool insulation.
4. There shall be no seams on the faces or edges of doors. Vertical edges of doors shall be continuously seam-welded full height of the door.
5. Exterior doors shall be capped to retard moisture penetrating the door.
6. All hinge reinforcements shall be 3/16" thick. Top hinge reinforcements shall be provided with a back-up reinforcement.
7. Doors are eligible for up to 90 minutes Fire Ratings.
8. All doors shall be cleaned and given one coat of baked-on, rust-inhibitive metal primer in compliance with ANSI A 250.10.
9. Doors comply with ANSI A250.8 for Maximum Duty Performance Level.
10. Maximum available size 4'-0" x 9'-0"single and 8'-0" x 9'-0" pair.
11. Doors are reinforced for Multi point Exit Devices and must be ordered and installed by the customer.
12. Welded 12 Gage Frames are required for the Assembly
13. The frames must be installed in Masonry and fully grouted with minimum 2000 psi concrete. See Installation Instructions.
14. Mullions are not required in the pair configuration.
15. Certification Label conforming to FEMA-361 and ICC-500 are applied to doors at the factory. Tested to 203 psf+/- Design Pressure



ENGINEERING DETAILS for STANDARD
SERIES - FEMA-361 FRAMES
For 1- 3/4" Doors

Specifications

1. Frames shall be manufactured of 12 gage Hot Rolled Steel per ASTM A1011, A 568 & A569.

2. Corners shall be arc-welded and ground smooth, and frames shall be provided with steel bottom spreader.

3. Heads shall be reinforced for surface applied closers, holders, or brackets when required.

4. Hinge reinforcements shall be 3/16" thick and will have integral mortal guards.

5. Frames are available with appropriate masonry anchors as required to suit wall conditions. Frames shall have floor clips at bottom of all jambs for attachment to finished floor.

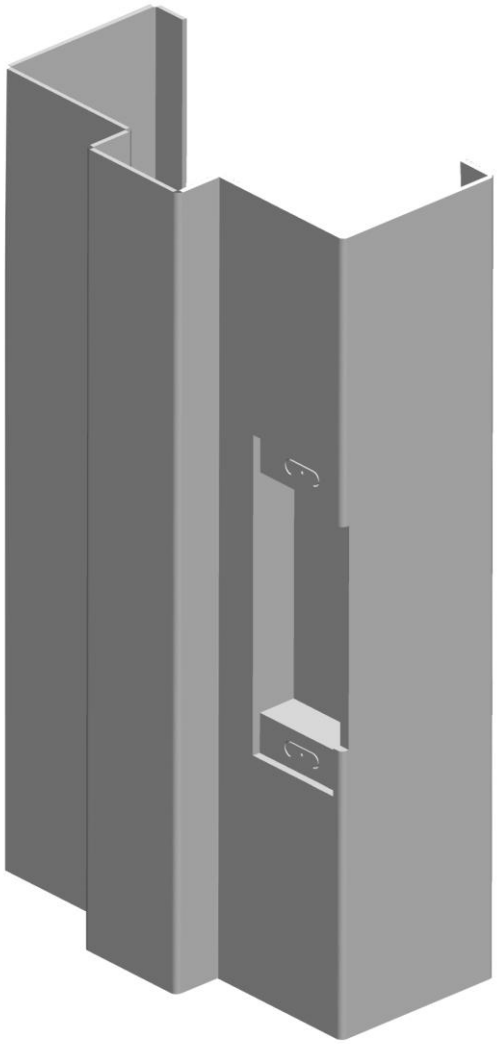
6. Frames shall be prime painted by Pioneer's exclusive painting process, consisting of a wash, phosphate treatment, Electrostatic Spray painting and oven baking in compliance with ANSI A250.10.

7. Frames shall be furnished with WHI or UL Positive and Negative Pressure rated listing mark (label) as required. Frames must be installed per NFPA 80 and Pioneer's Installation Instruction.

8. Frame construction complies with ANSI A 250.8- (SDI -100) for maximum duty application.

9. Maximum available size: single 4'-0" x 9'-0"
Pair: 8'-0" x 9'-0"

10. Hardware preparations and reinforcements are per template of Multipoint Exit Device.
Locations are in accordance with ANSI/BHMA A156.115.



11. Mullions are not required for Pair Frames when SECURITECH MULTI POINT exit devices are used.

12. Labels are attached to Frames conforming to FEMA-361 and ICC-500.