FLOOD RESISTANT DOOR DESIGN

FD (Flush Singles)

TESTED AND IN COMPLIANCE WITH AMERICAN NATIONAL STANDARD FOR FLOOD ABATEMENT EQUIPMENT. ANSI / FM APPROVALS 2510-2014, SECTION 4.3. FOR WATER LEVELS UP TO 36”. COMPLETE WITH PERIMETER SEALS AND BOTTOM SEALS.

The Required Core Will Be Provided To Achieve The Rating Needed. Appropriate Flood Resistant Seal Sets Are Provided With Each Rated Assembly.

MODEL FD DOOR UTILIZES “FC” PROFILE FRAME
(SEAL SET FLD4 FOR SINGLES (STANDARD FRAME NOT AVAILABLE))

SILL DESIGN SIMILAR

10" X 10" MAX. VISION LITE WILL BE LOCATED 60" CENTERLINE ABOVE DOOR BOTTOM UNLESS NOTED OTHERWISE.

Suggested Uses:
Sump rooms
Below ground mechanical rooms
SEALS FOR MODEL FD DOOR and "FC" FRAME PROFILE
(Seal set FLD4)

TYPICAL PROFILE

OPTIONAL PROFILE

- DOOR, FRAME AND SEAL - TOP
(BOTTOM SIMILAR)

DOOR FRAME & GLAZING DETAIL

SOME COMMON MASONRY APPLICATIONS SHOWN BELOW.

It is important that flood door systems be properly installed and sealed into the wall to prevent leakage. Flood Resistant systems are furnished with specific detailed seal installation instructions.

(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)
TECH-DATA

Flood Resistant Door System

OTHER NON-TESTED ASSEMBLIES ARE AVAILABLE. CONTACT FACTORY FOR DETAILS.

SPECIFICATIONS

1) All exposed surfaces of door and frame to receive one coat of rust inhibitive prime paint complying with ASTM A250.10.
2) Frame is required to be 4 sided, complete with EPDM compression seals.
3) Flood assembly should be installed in the seated position only. Meaning as the water rises, it applies pressure to the door, pressing it tighter against the seals.
4) Assembly is equipped with flood resistant door, frame, seals and crated for shipment.
5) Door Thickness is 1 3/4". Door weight is 6.75 pounds per square foot. Be aware that the frame must be securely tied to the framing from the sub floor to the structure above and grouted solid.
6) Flood resistant doors are to be formed of no less than 16 Gauge steel face sheets continuously welded at the vertical edges and finished smooth. Capped top and bottom and sealed.
7) Frames are to be formed of no less than 14 Gauge sheet steel with corners mitered, continuously welded and ground smooth.
8) Doors and frames are formed from commercial quality zinc coated steel conforming to ASTM A653 & ASTM A924. Flood resistant core and internal construction are manufacturer's proprietary standards as tested in accordance with American National Standard for Flood Abatement Equipment ANSI/FM Approvals 2510-2014, Section 4.3. It is tested for water depths up to and including 36" to standards set forth by ANSI/FM Approvals 2510-2014 (Section 4.3) including maximum allowable water seepage.
9) Frames must be fully grouted above the expected waterline.
10) Please be aware industry standard construction tolerances for squareness of frame installation, plumbness of walls, flatness of floors, etc. may result in potential leakage.
11) Viewers are not allowed.
12) Only (1) glass lite allowed per door leaf.
13) Maximum visible glass 10" x 10".

Flood Fire Doors
Fire Rating Not Available

STAINLESS STEEL OPTIONS AVAILABLE

AVAILABLE FINISHES
A60 GALVANIZED (STANDARD)
G90 GALVANNEALED
*STAINLESS STEEL
*AVAILABLE FINISHES:
*#4 BRUSH, #6 SATIN, #8 MIRROR,
*#2B PAINT GRADE & XL BLEND

Flood Resistant Door System

DOORS TESTED = 3'0"x7'0", 16 gauge, flush, single
FRAMES TESTED = 3'0"x7'0", 14 gauge, continuously welded.

Tested assembly includes the following-
Flood door system and frame assemblies, perimeter seals, retainers and retainer covers.

Additional Notes:
1) Pairs not available.
2) Assembly was fitted with cylindrical unit lock. Preparations for alternate locking hardware are allowed with all components being above the 36" water line.
3) Flood assemblies are tested as complete assemblies.

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10/17/19