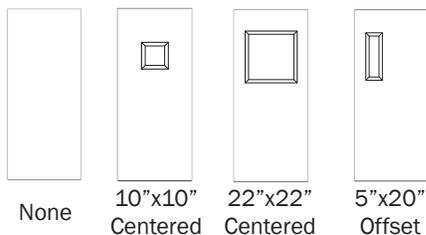


# PD-520 PEDESTRIAN FLOOD DOOR SYSTEM

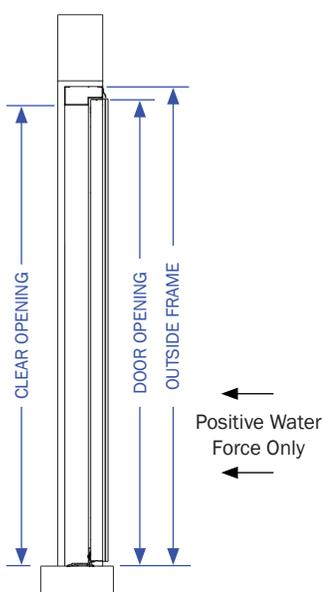
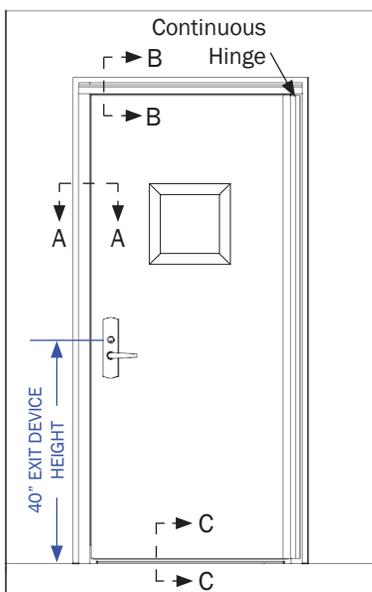
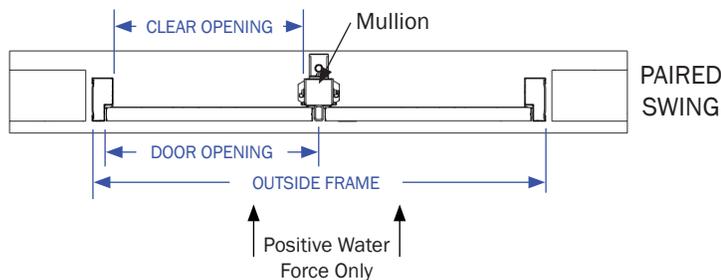
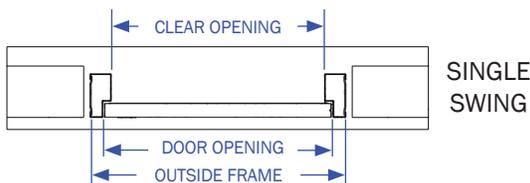
## PASSIVE FLOOD PROTECTION BARRIER

### STEEL FLOOD DOOR, FRAME, AND HARDWARE

**VISION LITE OPTIONS:**



(Viewable Opening Size Shown)



**HANDED:**

(LHR, RHR, or PAIRED)

**SUGGESTED USE:**

(INTERIOR or EXTERIOR)

Commercial, Health Care, Institutional, Retail, Factory, Warehouse, Government, Transit Authority, or Critical Infrastructure.

SINGLE STANDARD WIDTH		
DOOR OPENING WIDTH	OUTSIDE FRAME WIDTH	CLEAR OPENING WIDTH
36"	40"	34"
38"	42"	36"
40"	44"	38"
42"	46"	40"
44"	48"	42"

PAIRED STANDARD WIDTH		
DOOR OPENING WIDTH	OUTSIDE FRAME WIDTH	CLEAR OPENING WIDTH
36"	80"	34"
38"	82"	36"
40"	84"	38"
42"	86"	40"
44"	88"	42"

STANDARD HEIGHT		
DOOR OPENING HEIGHT	OUTSIDE FRAME HEIGHT	CLEAR OPENING HEIGHT
80"	82"	79"
84"	86"	83"
86"	88"	85"
94"	96"	93"
96"	98"	95"

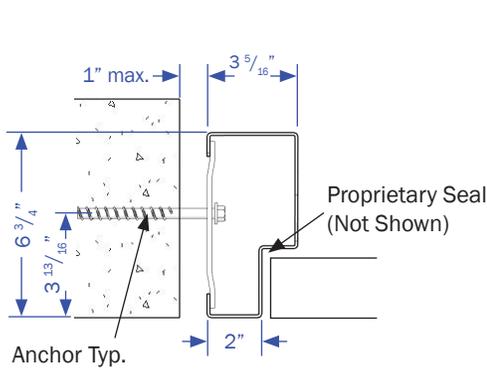
**APPROVED/TESTED FLOOD DOOR SYSTEM HARDWARE:**

- Interior: Von Duprin 98/99 series Rim exit device.
- Exterior: Von Duprin 996L Lever, classroom function.
- Closer: Retrolock RDC4000 H-Cush, AL689 finish.

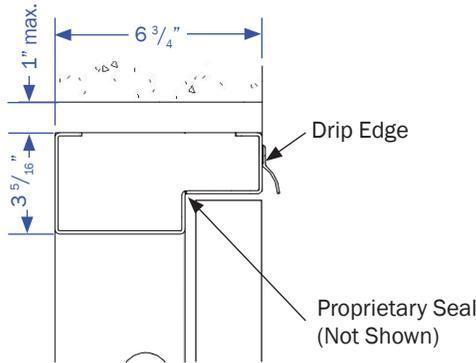
This hardware has been specifically chosen, tested, and factory improved for flood resistance on the PD-520, substitutions require manufacturer's engineering review.

**Alternate hardware WILL impact leak rate of door.**

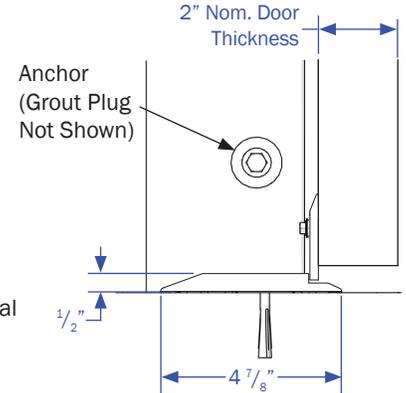
\*Section Views are located on Page 2.



**JAMB DETAIL  
SECTION A-A**



**HEADER DETAIL  
SECTION B-B**



**THRESHOLD DETAIL  
SECTION C-C**

AVAILABLE MATERIAL TYPES				AVAILABLE MATERIAL FINISH				
DOOR CORE STRUCTURE <sup>1</sup>	TYPE	FRAME	DOOR SHEETS	PRIMER	INDUSTRIAL ENAMEL	No. 2b (Mill finish)	No. 4 (Brushed)	No. 6 (Polished)
Steel <sup>2</sup>	Commercial Galvanealed	12 Gauge	16 Gauge	1 Coat	2 Coats	-	-	-
Stainless Steel <sup>2</sup>	304	12 Gauge	16 Gauge	-	-	Standard	Optional	Optional
Stainless Steel <sup>2</sup>	316	12 Gauge	16 Gauge	-	-	Standard	Optional	Optional

<sup>1</sup> Door panel core is structural or formed shapes, tubing, and bars of appropriate size and strength with welded construction. Door panel insulation is R-8 batt fiberglass full depth of door panel cavity.

<sup>2</sup> Door Frame material and finish to match Door Panel.

INDEPENDENT PARTY VALIDATED PERFORMANCE				
PEDESTRIAN FLOOD DOOR MODEL	WATER PROTECTION HEIGHT	FM/ANSI 2510 LABELED	PANEL LEAK RATE (max recorded) <sup>1</sup>	HARDWARE LEAK RATE (when submerged)
PD-520	36"	YES	0.08 gal/lin. ft. of wetted gasket/hr	—
PD-520	96"	—	0.08 gal/lin. ft. of wetted gasket/hr	0.031 gal/hr <sup>2</sup>

<sup>1</sup> Testing conducted under factory test conditions. Field conditions and installation tolerances can differ. Always allow for some seepage and condensation from product and adjacent building structure.

<sup>2</sup> Max recorded leak rate at 96" water height.

**PERFORMANCE PARAMETERS**

- All water pressure loads and operating loads are transferred to the structure.
- Flood barrier products are designed to be anchored into 8" grout-filled CMU, 3000 psi (min.) 8" CIP, or 3/8" structural steel (Welded or Drill & Tap).
- Flood protection products are engineered to conform to the design requirements that are based on the latest adopted edition of the International Building Code (IBC), while including the application of the representative load combinations and appropriate equivalent load factor as recommended by the following, but not entirely limited to, applicable referenced standard documents and supplements. ASCE/SEI 7 & 24, FEMA (ref. IBC 2012), FM Global, AISC, ADM, and ACI.
- Except as otherwise indicated, requirements for flood barriers, terminology, tolerances, standards for performance and workmanship are those specified as Type 2 Closures in Chapter 7, Section 701.1.2 of U.S. Army Corps of Engineers, EP 1165-2-314, 15 December 1995.
- These Type 2 Flood Closures/Barriers shall form essentially dry barriers or seals, allowing only slight seepage during the hydrostatic pressure conditions of flooding to the Regulatory Flood Datum (RFD) or the Design Flood Elevation (DFE). Seepage amounts will vary with conditions encountered. This issue should be addressed by the design professional and usage of sump or bilge type pumps should be used to offset potential water build-up.
- This product uses compressible seals, which are not dependent on inflation devices.
- Passive Barrier or Flood Mitigation Product: A permanent barrier or other flood mitigation product that, after its initial installation, either requires no deployment or requires no human intervention for deployment.