HYDRODEFENSE

Flood Plank



Installation Instructions/Operation and Maintenance Manual

Models:

FP-530 FM





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IMPORTANT! Read entire Instruction and Operations Manual to become familiar with the product.

NOTICE This product is a flood protection product. The effectiveness of the product is directly related to the proper installation and operation of this product. Failure to properly maintain this product **will** affect performance.

Publication Notice

This manual has been compiled and published covering the latest product descriptions and specifications.

The contents of this manual and the specifications of this product are subject to change without notice.

PS Flood Barriers reserves the right to make changes without notice in the specifications and materials contained herein and shall not be responsible for any damages (including consequential) caused by reliance on the materials presented, including but not limited to typographical and other errors relating to the publication.

PS Flood Barriers and/or its respective suppliers may make improvements and/or changes in the product(s)/service(s) offered and/or the program(s) at any time without notice.

Retain this manual for future reference.

If you would like to download a copy of this manual, please go to psfloodbarriers.com

Safety Precautions

The following icons are used throughout this Manual.

▲ DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. ▲ WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

A CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderated injury.

NOTICE Indicates manufacturer's statement of additional information.

IMPORTANT! Indicates a required action.

CRITICAL Indicates a vital component to product performance.

Product Information

NOTICE Unauthorized modification of or to the Product voids this Limited Warranty. Authorized modifications, received in writing from PS INDUSTRIES INCORPORATED, as long as the modification is accomplished in strict accordance with PS INDUSTRIES INCORPORATED's instructions, does not void warranty. To request product modifications contact PS INDUSTRIES INCORPORATED, 1150 S. 48th Street, Grand Forks, ND 58201, phone 877-446-1519, email: 4psinfo@psindustries.com

I. General Information

This manual contains information regarding operation and maintenance of custom water-resistant Flood Plank Barrier assemblies.

II. Operation Guidelines

The following procedures and information are supplied for the operation of the PS Flood Barriers' FP-530 Flood Plank Barrier assemblies. Operation in a manner other than intended could result in damage or less than acceptable performance at time of need, for which the manufacturer will not be held responsible.

- **A CAUTION** Always plan for potential leakage and condensation that can occur during flooding conditions.
- ▲ **WARNING** The Flood Plank Barrier components MAY BE heavy, consult Approved for Construction drawings and included documents for weights and use appropriate lifting procedures and equipment.

III. Safety Precautions

- A. Do not force planks or components if they do not operate freely.
- B. When removing Flood Plank Barrier components, protect all gaskets and hardware. Always consult original Approved for Construction drawings for all installation dimensions, details, hardware and specifications.

IV. Pre-flooding or Potential Flooding Conditions

- A. Conduct Inspection and Maintenance activities as described in this Operation and Maintenance Manual, at a minimum, annually and seasonally if seasonal flood conditions exist, prior to the flood season. This may require the replacement of gaskets, sealants, anchors, and accounting for all of the latching devices.
- B. Ensure FP-530, Flood Plank Barrier system is located near the required area for placement when needed, and is deployed prior to flooding conditions.

V. Flooding Conditions

- A. Ensure FP-530, Flood Plank Barrier is fully deployed and latched when flooding conditions are present.
- B. If feasible, inspect FP-530, Flood Plank Barrier for leakage or condensation accumulation during flooding.
- A WARNING THIS IS A FLOOD PROTECTION BARRIER; NEVER UNLATCH OR DISASSEMBLE DURING ANY FLOOD CONDITIONS AS WATER LEAKAGE WILL OCCUR AND YOU MAY NOT BE ABLE TO RESEAL THE BARRIER.

Product Information

The PS Flood Barriers' FP-530 is a specially designed Flood Plank Barrier capable of providing flood protection. The Model FP-530 is specifically manufactured to meet the opening dimensions and Water Protective Height (WPH) of each customers' specific site requirements. **DUE TO THE CUSTOM NATURE OF EACH FP-530 THEY DO NOT ALL LOOK THE SAME NOR LATCH OR OPERATE EXACTLY THE SAME. REFER TO THIS DOCUMENT AND APPROVED FOR CONSTRUCTION DRAWINGS FOR YOUR SPECIFIC INSTALLATION AND OPERATION.**

Please keep these instructions and Approved for Construction Drawings for later reference and read them before attempting any maintenance or deployment of the product.

NOTICE Additional Information

- 1. Except as otherwise indicated, requirement for flood barriers, terminology, tolerances, standards or performance and workmanship are those specified as Type 2 Closures in Chapter 7, Section 701.2 of the US Army Corps of Engineers, EP 1165-2-314, 15 December 1995.
- 2. 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 off set potential water build up.
- 3. Refer to Approved for Construction drawings for all included loading.
- 4. All water pressure, impact, and operating loads are transferred to the building structure. Building structure design and capacity to accept loads from flood barriers, as well as, evaluation of loads to structure is by others, not PS Flood Barriers.
- 5. If the water height exceeds the level of the designed Water Protective Height (WPH), excessive leakage will occur.
- 6. This product is equipped with compressible seals, which are not dependent on inflation devices.
- 7. PS Flood Barriers recommends a flood preparedness plan be developed and implemented. An annual training drill for activation prior to potential flooding conditions is recommended.

Sill Installation

VI. Sill Installation

NOTICE Only use Approved for Construction Drawings.

IMPORTANT! Follow Anchor Manufacturer's technical data manual/installation instructions for installation requirements and proper installation procedures.

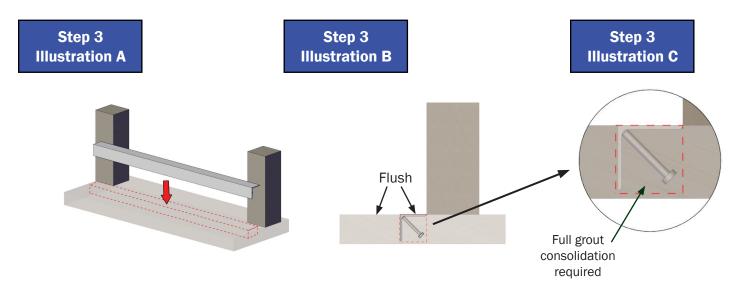
- **STEP 1.** Review all Approved for Construction drawings sent with the crated Flood Plank Barrier System. The Approved for Construction Drawings are located inside a plastic bag inside the crate. Review all installation labels prior to installation.
- **STEP 2.** Determine Sill type and exact placement as called out on Approved for Construction Drawings. All sealing surfaces must be sound, flat/level, and without blemish for best performance. Permissible tolerance is +/- 1/16" per 10 foot length.

Embedded Sill Angle

STEP 3. Installation of Embedded Sill Angle

- a. Place Sill according to Approved for Construction Drawings.
- b. Grout, in accordance with grout mfg. instructions. Place embedded sill angle, level into concrete, keeping flush with concrete surface.

IMPORTANT! Allow grout to fully set before proceeding with Flood Plank Barrier installation.



No Sill

STEP 3. No Sill installation

a. In applications where the Flood Plank Barrier gaskets contact the existing building structure, floors, etc. all surfaces must be sound, flat/level, and without blemish for best performance. Floor cracks and expansion joints will cause extreme leakage. Permissible floor tolerance is +/- 1/16" per 10 foot length.

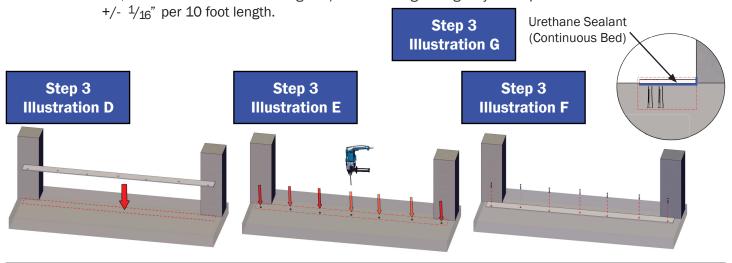
Sill Installation

Flat Surface Mounted Sill

STEP 3. Installation of Flat Surface Mounted Sill

- a. Place Sill according to Approved for Construction Drawings and mark anchor holes with sill in place.
- b. Set Sill aside and drill anchor hole diameter as required per included Anchor Specifications; refer to anchor manufacturer's technical data manual for installation limitations and requirements.
- c. Remove all dust and debris from the anchor holes, refer to anchor mfg. instructions.
- d. Place Sill in a continuous bed of urethane sealant, before anchoring, to create a watertight joint. Ensure urethane placement extends to the Sill ends and contacts the adjacent wall structure.

IMPORTANT! Sill orientation must match Approved for Construction drawings to ensure gaskets have a smooth, flat, and level surface. Shimming and/or concrete grinding may be required to ensure level sill

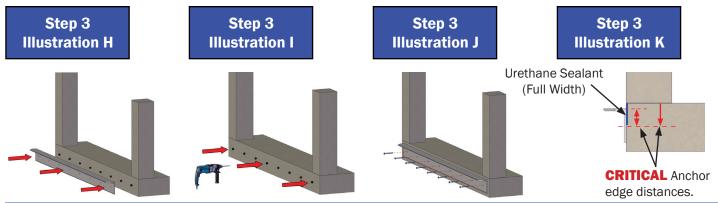


Face Mounted Sill Angle

STEP 3. Installation of Face Mounted Sill Angle

- a. Place Sill according to Approved for Construction Drawings and mark anchor hole locations with sill in place. Refer to required anchor edge distances specified on Approved for Construction Drawings.
- b. Set sill aside and drill anchor hole diameter as required per included Anchor Specifications.
- c. Remove all dust and debris from the anchor holes, refer to anchor mfg. instructions.
- d. Apply bead of urethane sealant (full width), set sill level in place, and anchor to existing structure. Ensure urethane placement extends to meet jamb at ends and contacts the adjacent wall structure.

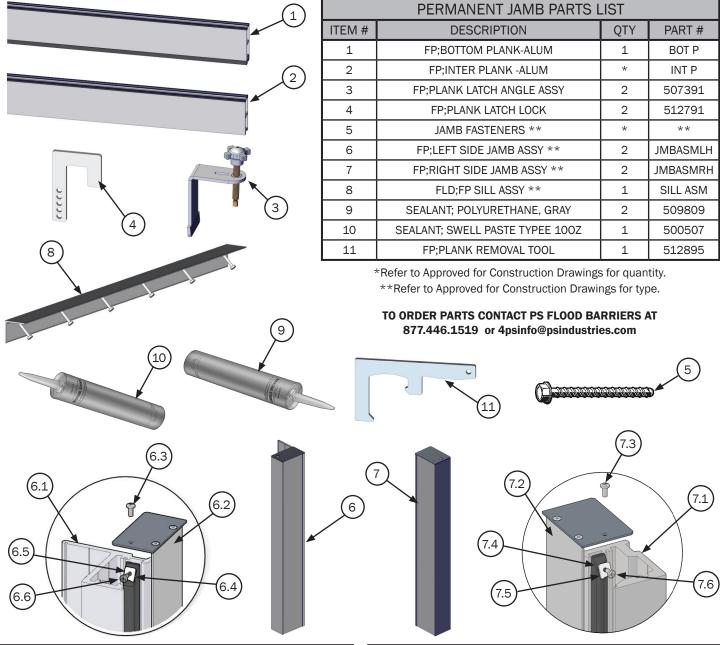
IMPORTANT! Follow included Anchor Manufacturer's technical data manual for installation limitations and requirements. Gasket contact area should be sound, flat/level and without blemish for best gasket performance, may require shimming to keep sill level.



Parts List

VII. Permanent Jamb Parts List

NOTE 1. Left and Right Jamb assemblies are shipped fully assembled. Diagram is for part identification only.



| LEFT JAMB PARTS LIST | | | |
|----------------------------------|--|----------|--------|
| ITEM # | TEM# DESCRIPTION QTY PART# | | |
| 6.1 | 1 | JMBCHNLH | |
| 6.2 FP;JAMB COVER 1 JMI | | | |
| 6.3 SCREW;PANPHMACH12-24X1/2ZN 1 | | 509647 | |
| 6.4 FP;JAMB GASKET 1 | | 513486 | |
| 6.5 | 6.5 FP; GASKET RET. WASHER 1 509109 | | 509109 |
| 6.6 | 6.6 SCREW;PANPHMACH10-24X3/8ZN 1 50151 | | 501514 |

| RIGHT JAMB PARTS LIST | | | |
|---|---|--|--------|
| ITEM # | ITEM# DESCRIPTION QTY PART# | | |
| 7.1 RIGHT JAMB MOUNT EXTRUSION 1 JMBCHN | | | |
| 7.2 FP;JAMB COVER 1 JMBCVRR | | | |
| 7.3 SCREW;PANPHMACH12-24X1/2ZN 1 509647 | | | |
| 7.4 | 7.4 FP;JAMB GASKET 1 513486 | | 513486 |
| 7.5 | 7.5 FP; GASKET RET. WASHER 1 509109 | | 509109 |
| 7.6 | 7.6 SCREW;PANPHMACH10-24X3/8ZN 1 501514 | | 501514 |

Face Mount Jamb

VIII. Permanent Face Mount Jamb Installation

IMPORTANT! Follow Anchor Manufacturer's technical data manual/installation instructions for installation requirements and proper installation procedures.

STEP 1. Remove cover assembly from jambs.

Step 1
Illustration

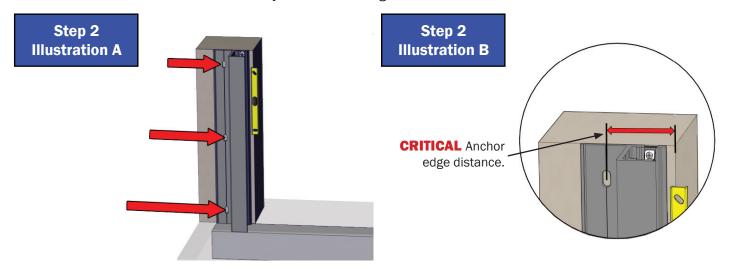


STEP 2. After proper sill installation.

a. Measure and set jamb (label on back of jamb) against wall and plumb, reference from edge of opening to center of anchor holes.

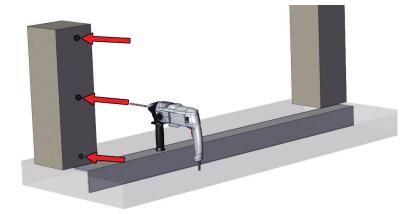
Required Anchor edge distances specified in Approved for Construction Drawings.

b. Mark anchor hole locations in jamb onto existing structure.



STEP 3. Set jamb aside and drill holes; <u>drill bit diameter as required per included Anchor Manufacturer's technical manual.</u>

Step 3 Illustration

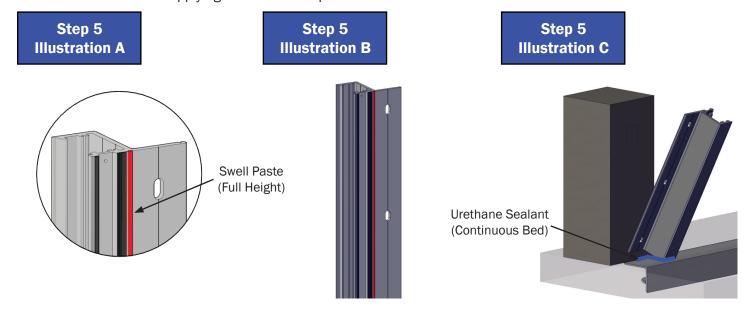


Face Mount Jamb

STEP 4. Remove all dust and debris from anchor holes per included Anchor Manufacturer's technical manual.

- **STEP 5.** Before placing jamb against existing structure.
 - a. Apply ¹/₈" bead of swell paste (full height), centered on back side of jamb on ribs. (See Illustration A)
 - b. Set base of jamb in a continuous bed of urethane sealant to create a watertight joint. Ensure wall is flat, smooth, and free of cracks and defects to create a watertight seal with the wall and floor.

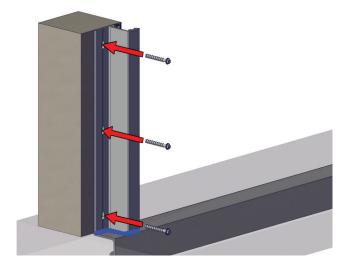
NOTICE Use care when applying sealants to keep work area clean.



STEP 6. Set jamb in place

a. Anchor to existing structure. <u>Do not exceed torque per included Anchor Manufacturer's technical manual.</u>
*Torque wrench supplied by others, NOT PS Flood Barriers.

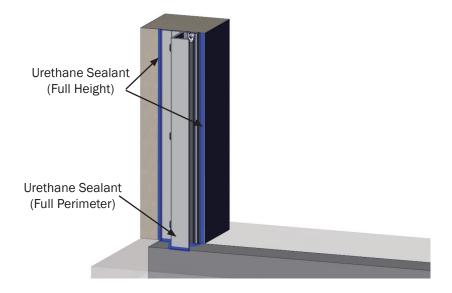
Step 6
Illustration



Face Mount Jamb

- **STEP 7.** Apply urethane sealant to each side of jamb (full height) against existing structure and bottom of jamb (full perimeter) to create a watertight joint.
 - a. Clean-up excess sealant that could prevent the bottom flood plank gasket from sealing to the sill.

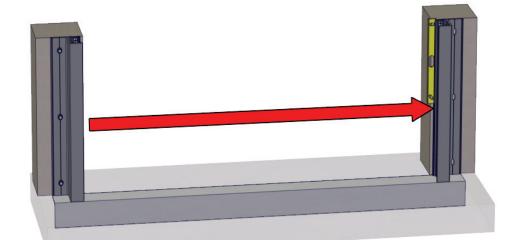
Step 7
Illustration



STEP 8. Installation of second jamb

- a. Measure from installed jamb to locate second jamb, as shown in Illustration.
- b. Repeat Steps 1 through Steps 7 for opposite Jamb. See Approved for Construction Drawings for dimensions.

Step 8
Illustration



NOTICE PS Flood Barriers recommends completing installation steps fully, testing, and completing a Training Drill for activation prior to storage of Flood Barrier System.

In-Between Jamb Mount

IX. Permanent In-Between Jamb Mount Installation

IMPORTANT! Follow Anchor Manufacturer's technical data manual/installation instructions for installation requirements and proper installation procedures.

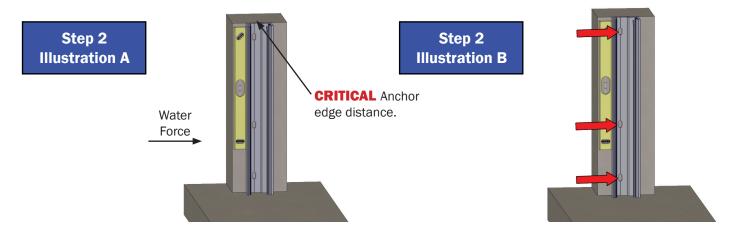
STEP 1. Remove cover assembly from jambs.





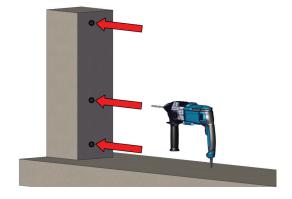
STEP 2. After proper sill installation.

- a. Measure and set jamb against wall and plumb, reference from edge of opening to center of anchor holes. Required Anchor edge distances specified in Approved for Construction Drawings.
- b. Transfer anchor hole locations from jamb onto existing structure.



STEP 3. Set jamb aside and drill holes; <u>drill bit diameter as required per included Anchor Manufacturer's technical manual.</u>



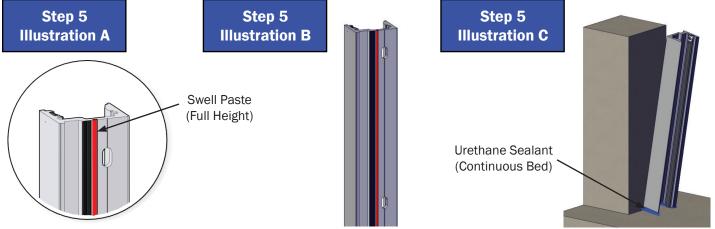


STEP 4. Remove all dust and debris from anchor holes per included Anchor Manufacturer's technical manual.

In-Between Jamb Mount

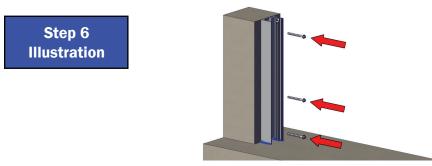
STEP 5. Before placing jamb against existing structure.

- a. Apply $\frac{1}{8}$ " bead of swell paste (full height), centered on back side of jamb on ribs. (See Illustration A)
- a. Set base of jamb in a continuous bed of urethane sealant to create a watertight joint. Ensure wall is flat, smooth, and free of cracks and defects to create a watertight seal with the wall and floor.



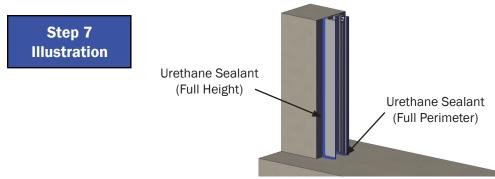
STEP 6. Set jamb in place

a. Anchor to existing structure. <u>Do not exceed torque per included Anchor Manufacturer's technical manual.</u>
*Torque wrench supplied by others, NOT PS Flood Barriers.



STEP 7. Apply urethane sealant to each side of jamb (full height) against existing structure and bottom of jamb (full perimeter) to create a watertight joint.

a. Clean-up excess sealant that could prevent the bottom flood plank gasket from sealing to the sill.



STEP 8. Installation of second jamb

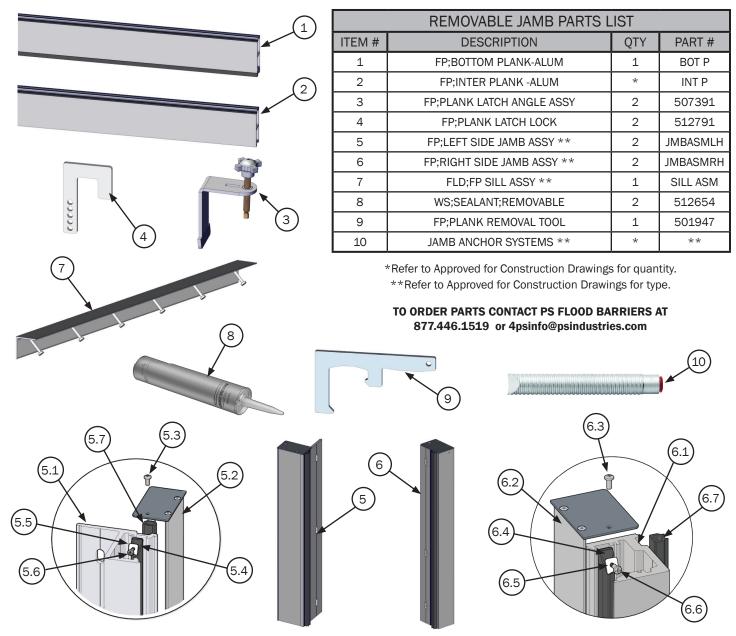
a. Repeat Steps 1 through Steps 7 for opposite Jamb. See Approved for Construction Drawings for dimensions.

NOTICE PS Flood Barriers recommends completing installation steps fully, testing, and completing a Training Drill for activation prior to storage of Flood Barrier System.

Parts List

X. Removable Jamb Parts List

NOTE 1. Left and Right Jamb assemblies are shipped fully assembled. Diagram is for part identification only.



| LEFT JAMB PARTS LIST | | | | |
|----------------------|---|----------|----------|--|
| ITEM # | EM# DESCRIPTION QTY PAR | | | |
| 5.1 | LEFT JAMB MOUNT EXTRUSION | 1 | JMBCHNLH | |
| 5.2 | 1 | JMBCVRLH | | |
| 5.3 | 5.3 SCREW;PANPHMACH12-24X1/2ZN | | 509647 | |
| 5.4 | 5.4 FP;JAMB GASKET 1 513 | | 513486 | |
| 5.5 | 5.5 FP; GASKET RET. WASHER | | 509109 | |
| 5.6 | 5.6 SCREW;PANPHMACH10-24X3/8ZN 1 501514 | | 501514 | |
| 5.7 | 7 FP;WALL GASKET 1 51265 | | 512655 | |

| RIGHT JAMB PARTS LIST | | | | |
|----------------------------|--------------------------------------|---|----------|--|
| ITEM # | M# DESCRIPTION QTY PART# | | | |
| 6.1 | RIGHT JAMB MOUNT EXTRUSION | 1 | JMBCHNRH | |
| 6.2 FP;JAMB COVER 1 JMBCVR | | | | |
| 6.3 | 3 SCREW;PANPHMACH12-24X1/2ZN 1 5 | | | |
| 6.4 | FP;JAMB GASKET | 1 | 513486 | |
| 6.5 | FP; GASKET RET. WASHER | | 509109 | |
| 6.6 | .6 SCREW;PANPHMACH10-24X3/8ZN 1 5015 | | | |
| 6.7 | FP;WALL GASKET 1 512655 | | 512655 | |

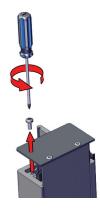
Face Mount Jamb

XI. Removable Face Mount Jamb Installation

IMPORTANT! Follow Anchor Manufacturer's technical data manual/installation instructions for installation requirements and proper installation procedures.

STEP 1. Remove cover assembly from jambs.

Step 1
Illustration



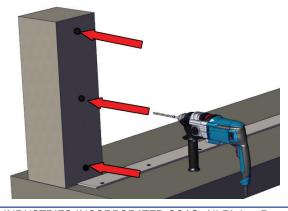
STEP 2. After proper sill installation.

- a. Measure and set jamb against wall and plumb, reference from edge of opening to center of anchor holes. Required Anchor edge distances specified in Approved for Construction Drawings.
- b. Mark anchor hole locations from jamb onto existing structure.



STEP 3. Set jamb aside and drill holes; <u>drill bit diameter as required per included Anchor Manufacturer's technical manual.</u>

Step 3
Illustration

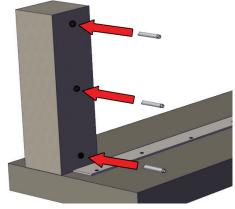


Face Mount Jamb

- **STEP 4.** Remove all dust and debris from anchor holes per included Anchor Manufacturer's technical manual.
- **STEP 5.** Installation of internally threaded anchors. <u>Follow Anchor Manufacturer's technical data manual/installation instructions for installation requirements and proper installation procedures.</u>
 - a. Fill anchor holes with supplied anchor epoxy before inserting post-installed internally threaded inserts. Nylon set screws (not shown) are provided for inserts when jambs are not in use.
 - b. Clean-up excess anchor epoxy.

IMPORTANT! Let epoxy fully set before proceeding: <u>required time as specified per Anchor Manufacturer's technical</u> manual.

Step 5
Illustration



- **STEP 6.** Before placing jamb against existing structure.
 - a. Set base of jamb in a continuous bed of removable sealant to create a watertight joint. Ensure wall is flat, smooth, and free of cracks and defects to allow the compression gasket (Illustration B) to create a watertight seal with the wall and floor.

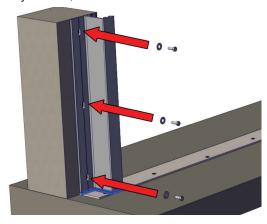


Face Mount Jamb

STEP 7. Set jamb in place

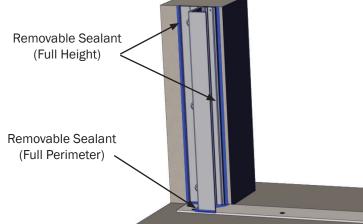
- a. Completely thread-in supplied bolts into post-installed thread inserts. Do not exceed torque per Anchor Manufacturer's technical manual.
 - *Torque wrench supplied by others, NOT PS Flood Barriers.

Step 7
Illustration



- **STEP 8.** Apply removable sealant to each side of jamb (full height) against existing structure and bottom of jamb (full perimeter) to create a watertight joint.
 - a. Clean-up excess sealant that could prevent the bottom flood plank gasket from sealing to the sill.

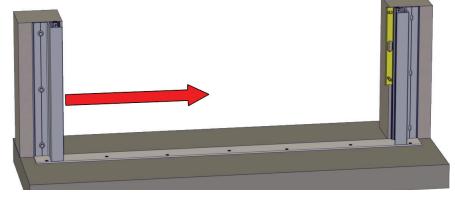
Step 8
Illustration



STEP 9. Installation of second jamb

- a. Measure from installed jamb to locate second jamb, as shown in Illustration.
- b. Repeat Steps 1 through Steps 8 for opposite Jamb. See Approved for Construction Drawings for dimensions.

Step 9
Illustration



NOTICE PS Flood Barriers recommends completing installation steps fully, testing, and completing a Training Drill for activation prior to storage of Removable Flood Barrier System.

In-Between Jamb Mount

XII. Removable In-Between Jamb Mount Installation

IMPORTANT! Follow Anchor Manufacturer's technical data manual/installation instructions for installation requirements and proper installation procedures.

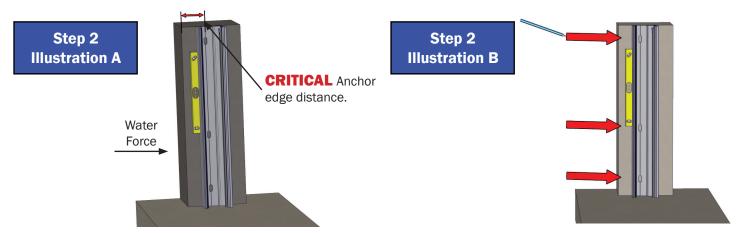
STEP 1. Remove cover assembly from jambs.





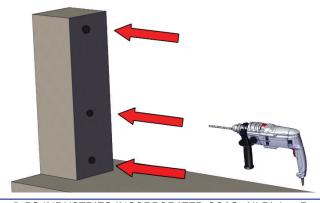
STEP 2. After proper sill installation.

- a. Measure and set jamb against wall and plumb, reference from edge of opening to center of anchor holes. Required Anchor edge distances specified in Approved for Construction Drawings.
- b. Transfer anchor hole locations in jamb onto existing structure.



STEP 3. Set jamb aside and drill holes; <u>drill bit diameter as required per included Anchor Manufacturer's technical</u> manual.

Step 3
Illustration

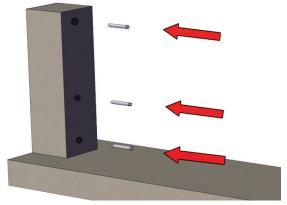


In-Between Jamb Mount

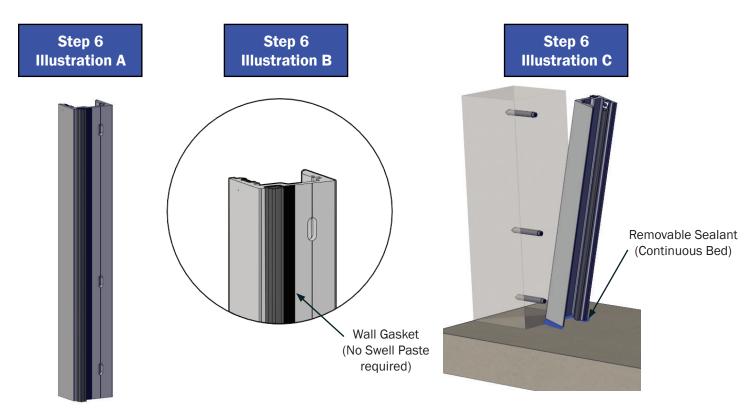
- **STEP 4.** Remove all dust and debris from anchor holes per included Anchor Manufacturer's technical manual.
- **STEP 5.** Installation of internally threaded anchors. <u>Follow Anchor Manufacturer's technical data manual/installation instructions for installation requirements and proper installation procedures.</u>
 - a. Fill anchor holes with supplied anchor epoxy before inserting post-installed internally threaded inserts. Nylon set screws (not shown) are provided for inserts when jambs are not in use.
 - b. Clean-up excess anchor epoxy.

IMPORTANT! Let epoxy fully set before proceeding: <u>required time as specified per Anchor Manufacturer's technical</u> manual.





- **STEP 6.** Before placing jamb against existing structure.
 - a. Set base of jamb in a continuous bed of removable sealant to create a watertight joint. Ensure wall is flat, smooth, and free of cracks and defects to allow the compression gasket (Illustration B) to create a watertight seal with the wall and floor.

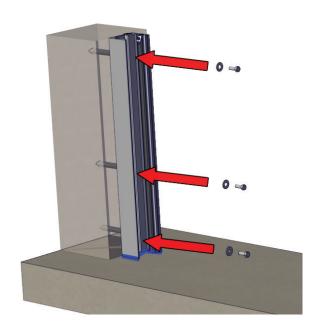


In-Between Jamb Mount

STEP 7. Set jamb in place

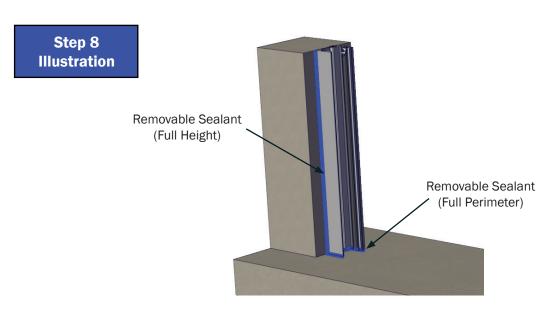
a. Completely thread-in supplied bolts into post-installed thread inserts.

Step 7
Illustration



STEP 8. Apply removable sealant to each side of jamb (full height) against existing structure and bottom of jamb (full perimeter) to create a watertight joint.

a. Clean-up excess sealant that could prevent the bottom flood plank gasket from sealing to the sill.



STEP 9. Installation of second jamb

a. Repeat Steps 1 through Steps 8 for opposite Jamb. See Approved for Construction Drawings for dimensions.

NOTICE PS Flood Barriers recommends completing installation steps fully, testing, and completing a Training Drill for activation prior to storage of Removable Flood Barrier System.

Deployment

XIII. Plank Deployment Procedure

NOTICE Operation in a manner other than intended could result in damage or less than acceptable performance at time of need for which the manufacturer will not be held responsible.

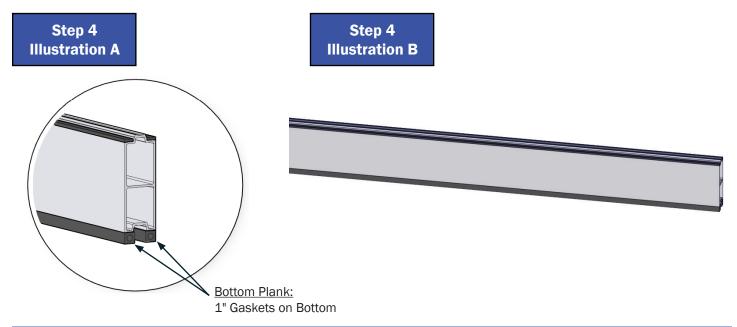
NOTE: Conduct Inspection and Maintenance activities as described in this Operation and Maintenance Manual, at a minimum, annually and seasonally if seasonal flood conditions exist, prior to the flood season. This may require the replacement of gaskets, sealants, anchors, and accounting for all of the latching devices.

STEP 1. Remove cover assembly from jambs.

Step 1
Illustration



- STEP 2. Lube Jamb Seals (recommended to allow flood plank to slide more easily into the jambs)
 - a. Using a spray bottle filled with a water-dish soap mixture. This may need to be repeated as planks are placed in the jamb. Keep jamb gaskets moist during Flood Plank Deployment.
- **STEP 3.** Remove all debris from sill/gasket sealing surface.
- **STEP 4.** The bottom plank is unique and <u>must</u> be installed first.
 - a. Locate the flood plank that is labeled "bottom" flood plank, as shown in Illustration A. The ends of the gaskets have two thick (1) gaskets mounted to the bottom of the plank.

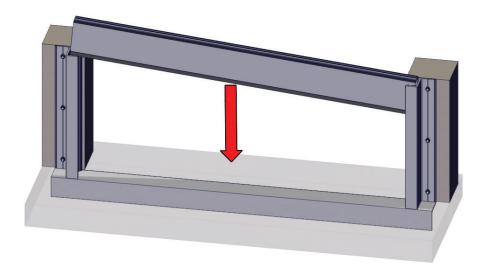


Deployment

STEP 5. Installation of bottom plank.

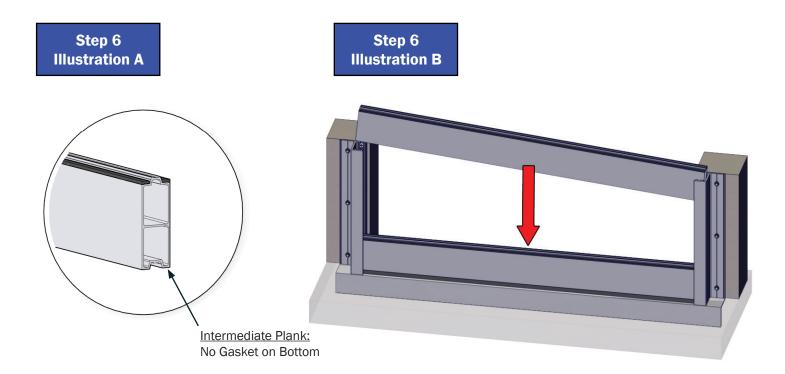
- a. Place one corner of the bottom plank into the bottom corner of the jamb.
- b. Angle the opposite end of the plank upward until it clears the opposite jamb.
- c. Slide into the jamb, taking care to not tear the jamb gasket.
- d. Level plank and slide down to sill/gasket sealing surface.
- e. Center plank evenly between jambs, ensuring plank fully overlaps the jamb gasket.





STEP 6. Install intermediate planks in the same manner as the bottom plank, ensuring contact with plank below.

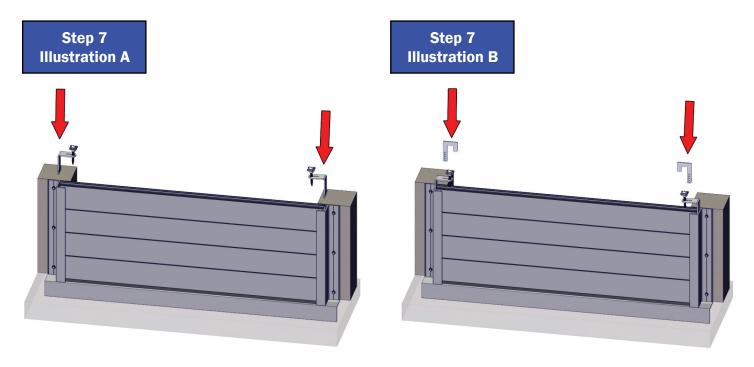
a. Ensure each additional plank is fully seated onto the plank below by inspecting for continuous and uniform plank gasket contact between planks. If this is not achieved; remove and re-install the plank before installing subsequent planks.



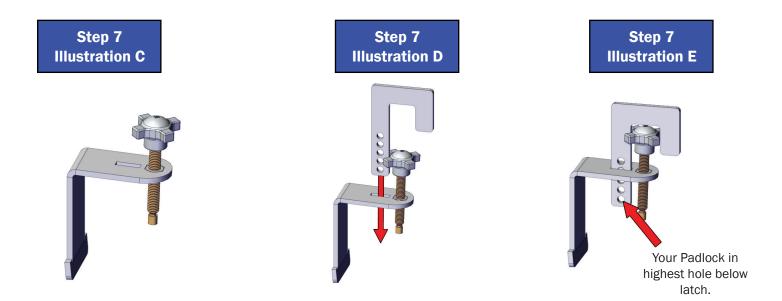
Deployment

STEP 7. Install latching, making certain to tighten both latch sides evenly to compress planks uniformly. Refer to your Approved for Construction Drawings to determine the type of latching supplied for your Flood Plank Barrier.

NOTICE Use of supplied Plank Latch Lock is optional, recommended in locations where tampering of Flood Plank Barrier is prevalent. (Shown in Illustration D and Illustration E)



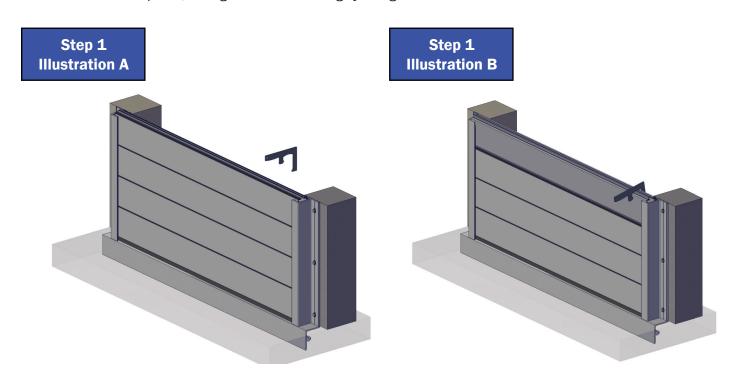
NOTE: PS Flood Barriers requires tightening the Latch Spin Knob to a torque of 40 in-lbs for proper plank gasket compression. *Torque wrench supplied by others, NOT PS Flood Barriers.



Removal

XIV. Plank Removal Procedure

- **NOTICE** Operation in a manner other than intended could result in damage or less than acceptable performance at time of need for which the manufacturer will not be held responsible.
- NOTE: Inspect all components of Flood Plank Barrier before storage, making sure to properly clean and remove contaminants. Contact PS Flood Barriers at 877-446-1519 for purchase of replacement components, if necessary.
- **STEP 1.** If planks have been deployed for an extended period of time, spray/hose water to moisten plank/jamb gaskets prior to removal.
 - a. Place plank removal tool on the top plank, shown in Illustration A.
 - b. Rock back and forth until plank is released from the plank below, shown in Illustration B.
 - c. Remove plank, taking care not to damage jamb gasket



- **STEP 2.** Repeat Step 1 for all remaining planks.
- **STEP 3.** Inspect all gaskets for damage, continuous adhesion to the attached surface, and proper position and compression before storage.

CRITICAL Do <u>not</u> compress gaskets during storage. Store all planks in a way that allows gaskets to be free of contact so the gaskets do not become mis-shaped and unusable.

Inspection and Maintenance

XV. Inspection and Maintenance (Minimum Annually)

A. Sills, Frames, and Embedded items:

- 1. Inspect items for damage and misalignment. Adjust, repair, or replace as needed, to meet original design tolerances.
- 2. Check all connections, making sure they meet original design standards (refer to Approved for Construction Drawings and Anchor Specifications).

B. Fasteners and mechanical connections:

1. All fasteners must be in place and adjusted to their original design standards. Replace any damaged components (refer to Approved for Construction Drawings and Anchor Specifications).

C. Sealants and Waterstops:

- 1. Inspect all sealants used on jambs and connections to insure their effectiveness.
- 2. Replace any cracked, loose, or otherwise non-performing sealants.
- 3. Use only factory approved/supplied products.
 - a. Permanent Jamb factory approved sealant/waterstops: Sika; Sikaflex-227, Quellpaste Typ E
 - b. Removable Jamb factory approved sealant/waterstop: Red Devil, Inc.; Zip-a-Way Removable Sealant

D. Gasketing:

- 1. Inspect all gaskets for damage, continuous adhesion to the attached surface, and proper positioning and compression.
 - a. Inspect all plank gaskets.
 - b. Inspect all jamb gaskets as required.
- 2. Replace or repair if damage or deterioration to gaskets has occurred.
- 3. Use only factory approved materials (refer to Approved for Construction Drawings).

E. Latching:

- 1. Operate all latching hardware to ensure smooth, uninhibited movement of all mechanical components.
- 2. Place flood barrier and check latches for proper engagement. If gaskets are not properly positioned and properly compressed, unlatch barrier panel and adjust latching accordingly.

F. Finishes:

- 1. Inspect and clean finishes annually.
- 2. Touch-up repair finishes, or refinish as necessary to protect the structural integrity of the Flood Plank Barrier.

G. Labels and Placards:

- 1. Inspect all labels and placards.
- 2. Replace any labels and placards which are unreadable/missing.

H. Housekeeping:

1. Clean sill and jamb of any debris and keep the area clean throughout Flood Plank Barrier opening.

CRITICAL Periodic Inspection and Maintenance Required. Inspect at minimum annually. CORRECTED BY (Print & Sign) **CORRECTIVE ACTION** Opening Identifier/ Number: Location: **INSPECTION ITEMS** NOTED **Inspection and Maintenance Log INSPECTED BY** (Print & Sign) Date Purchased: Model Number: Serial Number: INSPECTED DATE Product:

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PS FLOOD BARRIER WARRANTY REGISTRATION FORM

(a) (a) (a) (a) (a) (a) (a)

PS Flood Barriers™ Product Warranty Registration: For PS Flood Barriers™ Products, the Limited Warranty will only be valid if the Owner completes, and returns, this PS Flood Barrier Warranty Registration Form within thirty (30) days of Product installation.

To request additional copies of the Warranty Registration Form, contact PS INDUSTRIES INCORPORATED, 1150 S. 48th Street, Grand Forks, ND 58201, phone 877-446-1519, email: 4psinfo@psindustries.com. For a fillable form, download a copy from www.psfloodbarriers.com/download-center/

The following information is required:

| Owner Name: | | | Product Name: | |
|----------------------|--|-----------|--|--|
| Company: | | | Model: | |
| Address: | Serial Number: | | | |
| State/Provence: | Date Installed: | | | |
| Zip/Postal Code: | | | | |
| Country: | | | | |
| 0 0 | . , | | S INCORPORATED recommends testing flood barriers after oper adjustment of flood barrier for optimum performance. | |
| The following inform | nation and signatures are required to | ensure wo | arranty coverage of installed product. | |
| 1. Was the flood | barrier field tested after installation? | Yes | s No | |
| 2. If tested, which | h type(s) of testing was conducted? | Нус | ose Test per PS Flood Barriers testing procedure. odrostatic Test per PS Flood Barriers testing procedure. ther Testing Method (describe below): | |
| Owner or Installer | r Name (Please print.) | - | Test Witness Name (Please print.) | |
| Signature | | - | Signature | |
| Date | | - | Date | |

Return form to:

PS Flood Barriers Attention: Warranty 1150 S. 48th Street Grand Forks, ND 58201 Fax: 701-746-8340

E-mail: 4psinfo@psindustries.com

(Make additional copies as necessary)

Rev. 103018









877.446.1519

4psinfo@psindustries.com | psaccesssolutions.com 1150 South 48th Street | Grand Forks, ND 58201