

Bottom Hinge Flood Barrier

Product Literature



PS Flood Barriers™
Solutions That Hold Water

This flood protection solution can self-store within a walk/drive surface. When flooding occurs, the Bottom Hinge Flood Barrier pivots up to deploy without human intervention. This barrier is able to be electrically deployed, passively activated by rising flood water, or manually activated.

Product Features:

- Ideal for commercial building flood protection; driveways/walkways, store fronts, exterior door openings, loading docks
- Available in aluminum, mild steel or stainless steel
- Flood barrier is always in place for quick and easy activation during flooding conditions
- This barrier can be electrically deployed, passively activated by rising flood waters or manually activated
- Engineered to meet H-20-44 loading standards on roadways



Shown: BH590



Stored for normal use



Deployed for flood protection



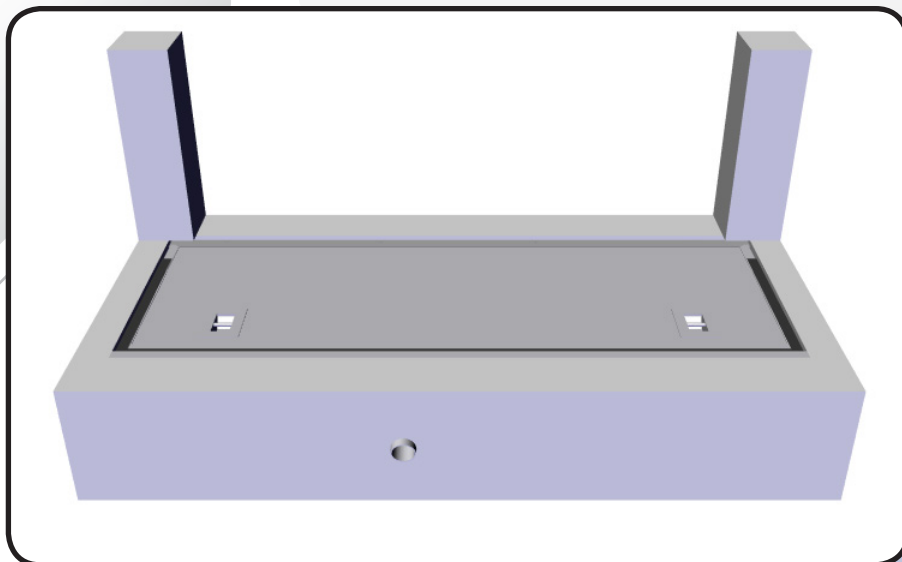
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Bottom Hinge Flood Barrier

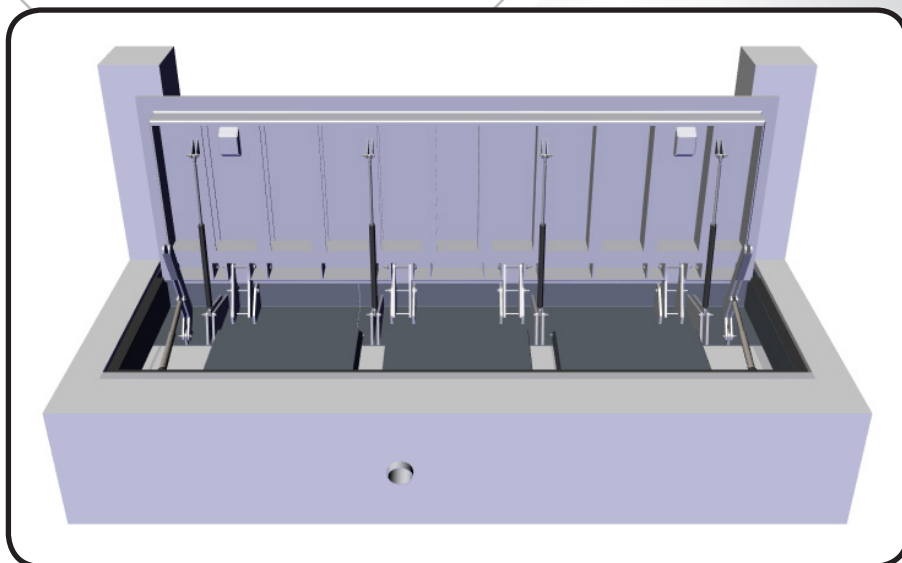
Product Literature

Standard Technical Data:

- **Design:** Flood barriers to be designed for maximum water height/width, all loads transferred to adjacent structure. Design is subject to a uniformly increasing fluid pressure (hydrostatic pressure loading of water at 62.5 pcf).
- **Engineering:** Flood barriers are engineered to conform to 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 safety factors as recommend by the following applicable standards and supplements: ASCE/SEI 7 & 24, FEMA (ref. IBC 2012), FM Global, AISC, AAADM, and ACI.
- **Material:** Fabricated from aluminum, mild steel or stainless steel sheeting and formed shapes, and structural tubing, welded construction.
- **Gaskets:** Compressible rubber material (not dependent on inflation devices), factory mounted to flood panel assembly/jamb members. Gaskets to be field replaceable.
- **Jambs/Frame:** Components fabricated from structural shapes/formed members, welded construction, field install on existing structure and/or embedded within structure.
- **Hardware:** All sealants, water-stop, and hardware necessary for installation, hinging, latching and retaining flood barrier.
- **Traffic Load Ratings:**
 - Option 1: Rated for pedestrian traffic only;
 - Option 2: Rated for light vehicle traffic;
 - Option 3: Rated for large, H20 vehicle traffic;
- **Activation Options:**
 - Standard: Passive/Manual Configuration; Barrier activated by the rising flood water or may be manually activated by a person. This system does not require electricity.
 - Automated: Electro-Mechanical Initiator; 12V DC system, capable of being interfaced with sensors or control panel system. Includes battery back-up.
NOTE: Automated Activation system may be activated Passively, Manually, or Automatically. Provides Triple Redundancy.
- **Warranty:** One (1) year from date of shipment.
- **Structural Calculations:**
 - Standard: Provide calculations by a qualified engineer, to verify the flood barrier's ability to withstand the design loading, is available upon request.
 - Optional: Registered professional engineer stamped calculations from within the state or territory where the barrier will be installed. Additional cost will apply.



Stored for normal use

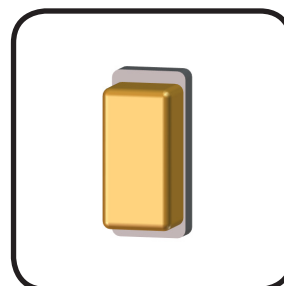


Deployed for flood protection

Control Panel



Warning Light



Warning Horn

