

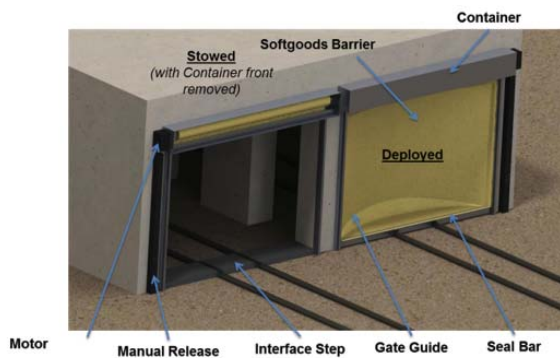


FLOOD MITIGATION  
SOLUTIONS

# Portal Flex-Gate®



The Portal Flex-Gate® is a high-strength flood barrier that can be deployed rapidly for flood protection of tunnels, vehicular entrances, doors or portals of any kind. It can fit openings of any shape, size or orientation. The Flex-Gate is simple to operate and can be easily deployed or retracted like a garage door, in a few minutes (powered or manually), by a single person with very little training. The patented system is scalable to very large openings and water heights in excess of 30 ft. The Flex-Gate has few moving parts, resulting in increased reliability, with minimal maintenance, thus providing low life-cycle costs for any transit, commercial real estate or industrial application.



## FEATURES AND BENEFITS

- **Point-of-use storage** — Deploys at the last moment for minimal operational disruption, resumes operations faster, no lost components
- **Rapid deployment** — Site secured in minutes by one or two people with powered operation; chainfall backup if power outage occurs
- **Compact storage** — Stores in small spaces
- **Scalable design** — Sized to fit any vertical opening
- **Robust materials and construction** — Withstands debris impacts with optional debris netting
- **Prevents flooding** — Seepage is <math><0.5 \text{ gal/min/ft}</math> of perimeter



# Portal Flex-Gate



TEST FACILITIES  
AT ILC DOVER

## OPERATION

The Portal Flex-Gate functions similarly to a roll-up storefront or garage security door in that it resides in a small container and is deployed in tracks along the opening, prior to an event occurring. Deployment is performed via a motor or manually with a chainfall if power is unavailable. The flexible cover travels in guides during deployment, and seals against them when challenged with water.

## SYSTEM COMPONENTS

**Flexible Cover** — Three-layer flexible and damage-tolerant structure

- Structural layer made of Kevlar® webbing
- Water-retention layer made of coated fabric
- Optional debris barrier webbing net made of Kevlar

**Container** — Metal storage container and spool system

**Gate Guides** — Side beams that seal and provide structural support

**Seal Bar** — Steel structure that seals the closing end of the cover opposite the storage container

## CONFIGURATION

- Standard doors to double-lane vehicular tunnels
- Can interface with subway rails or crowned roadways
- Reusable and easy to clean

## INSTALLATION

**Surface-Mounted** — Simple to install, limited site downtime, frame supports inward loads

**Anchored** — Simple to install, limited site downtime, structure shares inward loads

**Architecture** — Can blend with existing site features



GATE GUIDE AND DEADMAN



DEBRIS NETTING

Flood barrier technology protects your critical assets while providing the flexibility to keep the system open until the last possible moment before an event occurs — with the fastest recovery time.



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