



FLOOD MITIGATION SOLUTIONS

Flex-Gate[®] Side Deploy



The Flex-Gate[®] Side Deploy is a high-strength fabric wall that can be deployed rapidly for flood protection around/between buildings, across doors of any size or across window walls. The patented system can be scaled to withstand any water height and can be arranged to fit around any structure through the use of intermediate support posts. It is stored in a container at the point of use so that all materials and components are available when needed, and sealed to the ground by either integral weights or clamp bars. The Flex-Gate Side Deploy is simple to operate and can be easily deployed or stowed by a single person within minutes, even in high winds. The Flex-Gate can surround entire spaces (buildings) or free-standing equipment, or span openings and seal against existing walls (doors, driveways, etc.).

RECEIVER

CONTAINER



STOWED

CONTAINER OPEN

FLEXIBLE WALL

WEIGHTED SKIRT



DEPLOYED

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 5 to 10 minutes (weighted skirt) or 15 to 20 minutes (clamped skirt) by one or two people
- **Compact stowage** — 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 <0.5 gal/min/ft of perimeter

Flex-Gate Side Deploy



OPERATION

The Flex-Gate Side Deploy is deployed by opening the storage container and pulling the flexible wall across an opening and bolting it to a receiver. Once attached, the integral sealing skirt is lowered and held in place by bolts to ground anchors, or by weights that are integrated into the skirt at the factory. For long spans, intermediate posts can be installed. For tall walls where higher flood levels are a concern, or for extremely long spans, a cable would be included that is secured at the storage container and then attached at the receiver during deployment. The Flex-Gate is then pulled across the opening like a shower curtain. Shaped deployment to create a safe landing zone for emergency egress is also possible.

SYSTEM COMPONENTS

Fabric Wall — Two-layer flexible and damage-tolerant structure

- Structural layer made of Kevlar® and polyester webbings
- Water-retention layer made of PVC-coated polyester

Container — Above-ground metal box with tamper-proof door panel

Intermediate Posts — Metal beams that react load to the ground as required, based on span

Receiver — Structure that attaches to the wall opposite the container, which accepts the Flex-Wall

CONFIGURATION OPTIONS

- Standard wall heights (2 ft., 4 ft., 8 ft. and 12 ft.)
- Custom heights provided based on flood elevations
- Straight or braced support posts
- Fabric wall with or without debris impact
- Clamped or weighted skirt depending on seepage allowance
- Tamper-proof covers on storage container and anchors
- Components made of any metal or finish
- Deployment support via cables based on wall height and deployment wind conditions

*Flex-Gate® is a trademark of ILC Dover.
PATENT US 9,453,316

STANDARD AND CUSTOM-CONFIGURED SOLUTIONS TO MEET YOUR REQUIREMENTS



Customization example of emergency egress



Log impact testing performed at ILC DOVER Test Facility



12 ft. Tall x 16 ft. Wide Flex-Gate Side Deploy tested at 10 ft. of water



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