



DEPLOYS IN MINUTES

90° CORNERS AT ANY POINT

ROLLS UP FOR STORAGE

REUSABLE & BUILT TO LAST

The **Foldable Flood Barrier System** is a passive, self-ballasting diversion barrier that deploys in minutes without power, tools or specialized crews. Panels roll out and lock upright on stainless hinges; rising floodwater fills the front apron and its own weight anchors the barrier — the higher the flood, the harder it holds. After use, the run folds flat and rolls onto a storage reel for compact, reusable storage.

HOW IT WORKS

- **Roll out.** Unrolls along the defense line onto the existing surface.
- **Lock upright.** Panels raise on stainless hinges, locked with struts and tension cord.
- **Self-ballast.** Floodwater fills the apron; its weight holds the barrier down.



HEIGHTS & AVAILABILITY

Height	Availability	Perimeter*	Wall-Wall*
4 ft (48 in)	Standard	43.2 in	45.6 in
5 ft (60 in)	Custom	54.0 in	57.0 in
6 ft (72 in)	Custom	64.8 in	68.4 in

4 ft is **standard**; 5 ft and 6 ft are custom builds. *Maximum rated water depth — **90%** free-standing, **95%** mounted between structures. Custom lengths on request.

SECTION DATA

Panel section length	TBD ft
Section weight	TBD lbs
Deployed footprint (apron)	TBD in
Folded / rolled diameter	TBD in
Standard color	Safety orange
Origin	Made in the USA

BEFORE EVERY DEPLOYMENT — INSPECTION IS REQUIRED

This is a diversion barrier, not a watertight enclosure — performance depends on the owner. Inspect the membrane, gaskets, hinges and hardware before every deployment, and clean and store correctly after each event. See **Scope of Protection & Limitations** (p.2) and **Owner Responsibilities** (p.3).

MEMBRANE FABRIC

1500 gsm PVC-coated industrial textile — anti-UV, anti-fungal

Property	Unit	Test	Value
Base thread density	denier	DIN 53350	1300D × 1300D
Base fabric density	thd/in	DIN 53351	30×30 Panama
Finished fabric weight	g/m ²	DIN 53352	1,500
Base fabric weight	g/m ²	DIN 53352	340
Finished thickness	microns	DIN 53352	140
Break strength – warp	N/5cm	GB/T 1040	5,500
Break strength – weft	N/5cm	GB/T 1040	4,700
Tear strength – warp	N/5cm	DIN 53363	650
Tear strength – weft	N/5cm	DIN 53363	600
Coating adhesion	N/5cm	DIN 53357	120
Service temperature	°C/°F	DIN 53368	–30/+70 (–22/+158)
Flame retardancy	—	—	Self-extinguishing
UV / fungal resistance	—	—	Anti-UV, anti-fungal
Color fastness	grade	—	7–8

SCOPE OF PROTECTION & LIMITATIONS

WHAT TO EXPECT — DIVERSION, NOT A SEALED SYSTEM

The Foldable Flood Barrier System is built to divert and hold back large volumes of floodwater across long runs, protecting property from severe flooding. **Some seepage to the dry side is expected and normal. Engineered mounting plates and gaskets** can reduce seepage to near zero — this is a custom application, engineered and supplied on a case-by-case basis (see p.3).

- **Self-ballasting.** Performance depends on floodwater filling the apron — keep it clear and flat.
- **Rated depths are maximums.** Specify extra height above design flood elevation for freeboard.
- **Free-standing runs rate lower (90%)** than runs terminated into structures (95%).
- **Seepage increases** with depth, duration, surface roughness and debris under the apron.
- **Not a substitute** for engineered permanent flood defense where required by code or insurer.
- **Ratings require** an undamaged, correctly installed, pre-inspected barrier.

COMPONENT MATERIALS

Membrane	1500 gsm PVC-coated industrial textile
Hinges	Stainless steel
Support struts / bracing	Stainless steel
Connectors & fasteners	Stainless steel
Tension cord	Nylon
Panel-to-panel joint	Heavy-duty zipper closure
Sealing strip	Closed-cell neoprene (wall interface)
Hard-surface anchors	Concrete anchors, oversized washers
Soil anchors	Auger (screw) ground anchors
Storage	Steel roller reel + heavy vinyl bags

RATED PERFORMANCE

Configuration	Rated Depth
Perimeter / free-standing	90% of height
Mounted between structures	95% of height
Mounted with engineered plates & gaskets	95% + near-zero seepage

Assumes a level, debris-free substrate, correct installation and pre-deployment inspection. Sandbags or water-filled ballast may be added along the apron for extra stability.

FRONT APRON ANCHORING & BALLAST

The standard barrier is self-ballasting and **can deploy with no anchoring** — floodwater in the front apron provides the primary hold-down. Anchoring or weighting the apron is optional but recommended: it improves ground contact, leakage performance and wind resistance. Different anchors suit different applications.

Method	Best suited to	Notes
Concrete anchors, oversized washers	Concrete, asphalt, paved surfaces	Fixed through the apron's leading edge
Auger / screw ground anchors	Soil, grass, sand, compacted fill	Screw into substrate; removable, reusable
Sandbags	Any surface	Weight-down only; no substrate penetration
Water-filled ballast barriers / tubes	Any surface	Weight-down only; fast to place and drain



Auger anchors — soft substrates



Water-filled ballast

SUBSTRATES



Installs on grass, sand, concrete, asphalt and compacted soil — no foundation required. Clear sharp debris before deployment.

HURRICANE & NAMED-STORM EVENTS

Anchor and affix the barrier to the ground before a hurricane or named-storm event. Wind ahead of the surge can displace or damage an unballasted barrier before water arrives to weigh down the apron.

WALL & STRUCTURE MOUNTING — ENGINEERED SEALING SOLUTION

For barriers mounted between walls, pillars or other structures, Flood Risk America can supply **custom mounting plates and gaskets** that affix the barrier to the ground and the building, reducing seepage to near zero. These are engineered per application, not stock items — contact us with site dimensions, substrate details and design flood elevation for a specification.

OWNER RESPONSIBILITIES & WARRANTY CONDITIONS

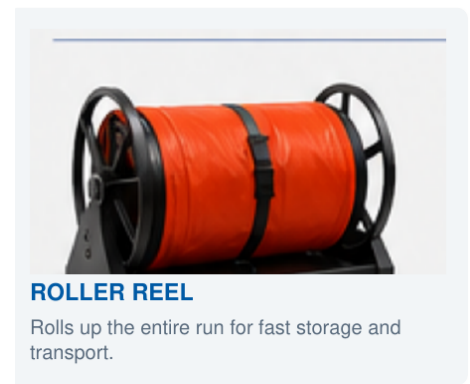
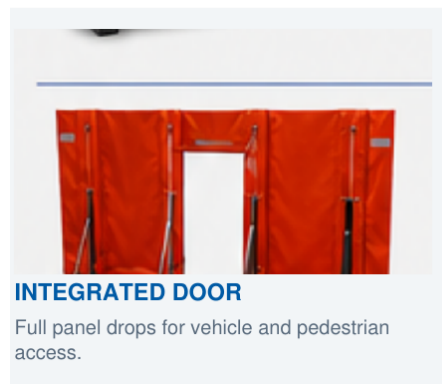
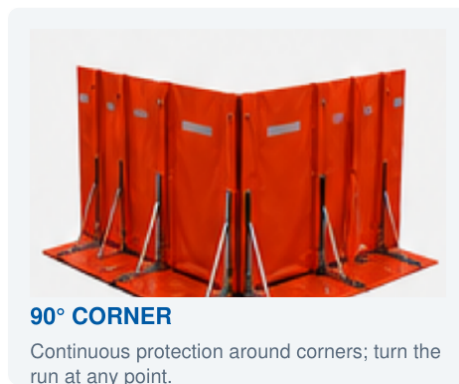
WARRANTY CONDITIONS

Flood Risk America warrants the product against manufacturing defects only.

- **Inspect before every deployment.** Check the membrane, seams, apron, hinges, struts, cord, zippers, gaskets and seals. Do not deploy with damaged or missing gaskets.
- **Prepare the line.** Clear sharp objects, debris and vegetation that could puncture the membrane or lift the apron.
- **Install correctly.** Deploy per the specified configuration; terminate, seal and anchor/ballast as designed.
- **Clean after every event.** Rinse with fresh water, remove silt and debris, and dry fully before folding.
- **Store correctly.** Roll onto the reel or pack into vinyl bags; keep dry, shaded and away from chemicals and rodents.
- **Keep records.** Log inspections, deployments and repairs; use only approved materials — warranty claims require records.

MOUNTING CONFIGURATIONS

Configuration	Description	Rated Depth
Perimeter system	Continuous free-standing run enclosing an asset; both ends terminate in the open, corners formed with 90° sections.	90% of height
Mounted between structures	Terminated into walls, pillars or fixed structures at both ends, using side mounts and neoprene sealing strip.	95% of height
90° corner sections	Purpose-built units allow a turn at any point while maintaining continuous protection.	As per run
Side mounts	Termination hardware that ties a run into a wall or pillar face and seals the interface.	As per run
Integrated door	A full panel drops to create a vehicle or pedestrian opening, then re-closes into the run.	As per run



DEPLOYMENT & RETRIEVAL



1 DEPLOY

Roll out along the line and lock panels upright.



2 FOLD

Panels fold flat onto the apron on their hinges.



3 ROLL

Roll the run onto the reel for storage.

- **No power, tools or specialized crew required** — deploys with general personnel.
- **Sections join with heavy-duty zippers**; corners, side mounts and doors integrate into the same run.
- **Inspect gaskets, seals and hardware** before each deployment (see page 3).

STORAGE & TRANSPORT

- **Folds flat and rolls onto a steel reel** for compact, low-footprint storage.
- **Heavy-duty vinyl storage bags** are supplied with the units.
- **Rinse with fresh water**, remove silt and debris, and dry fully before storing.
- **Store out of direct sunlight where possible** — membrane is UV and fungal resistant.
- **Reusable** across multiple flood events.

RECOMMENDED INSTALLATION TYPES

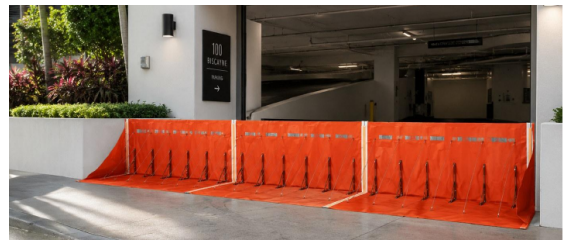
Installation	Typical Use	Configuration	Rated Depth
Openings & doorways	Garage doors, loading docks, service doors, stairwells, lobby entrances	Mounted between structures (side mounts)	95%
Building frontage	Storefronts, entry plazas, ground-floor units, sidewalk and street lines	Free-standing perimeter run	90%
Full asset perimeter	Pool decks, amenity areas, equipment yards, generators, substations	Perimeter with 90° corner sections	90%
Property / site perimeter	Long spans across open property, diverting large volumes of water	Free-standing perimeter run	90%

PROJECT EXAMPLES



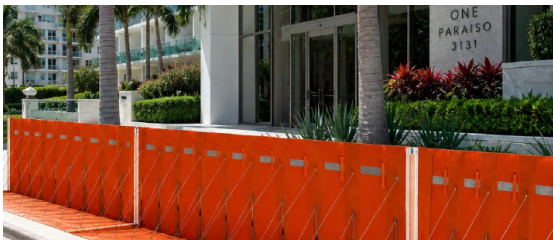
FULL ASSET PERIMETER

Continuous run with 90° corner sections enclosing a resort pool deck and amenity area.



PARKING GARAGE ENTRANCE

Run terminated into the structure on both sides of a vehicle opening — wall-to-wall configuration.



BUILDING FRONTAGE & ENTRY PLAZA

Free-standing perimeter run along the sidewalk line, protecting the lobby and ground floor.



RESIDENTIAL GARAGE OPENING

Short wall-to-wall run mounted between the door jambs on a paver driveway.

Custom sizes, engineered mounting and site surveys available.

Talk to us about a barrier configuration for your site.

561.578.4220

www.floodriskamerica.com