

[QUICK DAM]

THE NEXT GENERATION IN FLOOD PROTECTION™



**Fast | Effective | Easy
Flood Control**



- ◆ Portable, self-rising dam
- ◆ Controls & redirects water
- ◆ Works with any type of water
- ◆ Compact, reusable & lasts for years
- ◆ Available in multiple heights & lengths
- ◆ FM Approved



Portable Self Rising Water Dam

- ◆ Lays out flat & then self-rises with the flow of oncoming water
- ◆ Controls & redirects water, easy to use, deploy, store & transport
- ◆ Compact & portable, rolls into position
- ◆ Durable, flexible & conforms to any surface
- ◆ Built in weights provide stability & prevents rolling
- ◆ Clean, dry, fold & store for reuse, lasts for years
- ◆ Use in extreme temperatures
- ◆ Units connect for unlimited lengths
- ◆ Flood protection from 6in to 5ft high

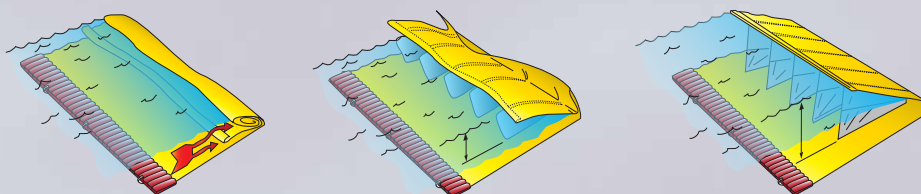


Quickly rolls out, turns corners, is flexible & follows landscaping.
Connect multiple units together for unlimited length.

Here's How it Works

1. Unroll barrier in path of water
2. Unfold barrier so red weights are facing oncoming water
3. Create any corners necessary
4. Lay sandbags down over uneven surfaces
5. Set up pumps on the side of the barrier to direct rain water, seepage or run off back out
6. Wait for water to arrive

For more detailed instructions visit:



Water-Gates unfold & rise with the flow of oncoming water

Storage & Deployment

- Small units come complete with carrying bags or wraps for storage
- Storage & deployment crates are also available:
 - Stores several pre-connected units ready for quick deployment
 - Requires minimal labor
 - Available in wood or metal
 - Fork lift accessible or with wheels
 - Custom colors & art available



Inside a fast deployment crate





Flood Control/Flash Flood

Perimeter protection in the most efficient way.
Protect a large area in a short time.



Cofferdam

Protective flap prevents erosion during overflow of water,
thus not altering the environment.





Emergency Response

Deploys quickly for rapid response.

Used by fire departments, public works & search & rescue teams.



Spill Response

Holes are added to allow water to flow through, while collecting oil on the surface for easy removal.



Water-Gate vs Competition

Tests performed by the US Army Corps of Engineers comparing Water-Gate to a water filled barrier system



Lifting & securing the ends, helps seal the edge against water infiltration



Joining multiple units together at varying sizes



Corners created by folding material, leaving middle section on top



Place objects to raise Water-Gate to dry out, prior to storage

COMPARISON	WATER-GATE	COMPETITION
Length	83ft	78ft
Set-up time	8 hours	41 hours
Breakdown	2 hours	8 hours
Repair	0 hours	6 hours
Resources Needed	Sandbags	4,800 Gallons of water, strong plastic sheeting, silicone, straps, and sandbags

Tips & Tricks

- ◆ Curving Water-Gate instead of creating corners will maximize length of unit
- ◆ Be sure to select the adequate size and quantity of pumps and tools needed to maintain the anticipated rain fall and water seepage
- ◆ Avoid joints at corners
- ◆ 6in high Water-Gate unit cannot be joined to any other Water-Gate height, all others are connectable
- ◆ Review all obstructions when measuring how much room you will need to deploy the Water-Gate properly
- ◆ The ends of the Water-Gates are not closed off & they must rise up higher than the level of the flood. Secure ends up a wall, over a barrier or ledge
- ◆ Each Water-Gate has a 4:1 ratio of depth to height for secure stability
- ◆ Sandbags are needed on front edges where there are specific creases or folds and throughout unit to prevent seepage
- ◆ Water-Gate is reusable & chemical resistant
- ◆ Can be left for several months or even years in a stream it will stay in place during that time period
- ◆ Water-Gate can be dried out by putting objects to hold up, such as a bucket or pole
- ◆ Cleaning the product with a pressure washer is strongly recommended to clean out any debris or dirt

Additional Information



US ARMY
CORPS OF ENGINEERS



WAVE TEST PERFORMED BY US ARMY CORPS OF ENGINEERS

Water-Gates have gone through rigorous testing with the US Army Corps of Engineers which resulted in an FM Approval Certification. Testing also demonstrated that it was the only flood perimeter product tested that passed with no damage to the product itself, so no repairs were needed after use.



REPLACES THOUSANDS OF SANDBAGS

(1) 26in x 50ft Water-Gate replaces 1075 sandbags (34,000 lbs of sand)



MINIMAL LABOR AND TOOLS NEEDED TO DEPLOY

This unit is so easy to deploy it can take as little as 2 people & some sand bags. That's it. No special tools needed.



REUSABLE FOR MANY YEARS

Constructed from a durable PVC, the Water-Gate is built to stand even the worst conditions. This unit can be reused for 20+ years.



FLEXIBLE ENOUGH TO BEND AND CURVE AROUND ANY CORNER

Units can bend around corners & conform to any surface.



USED AS EFFECTIVE METHOD OF FLOOD CONTROL IN 36 COUNTRIES



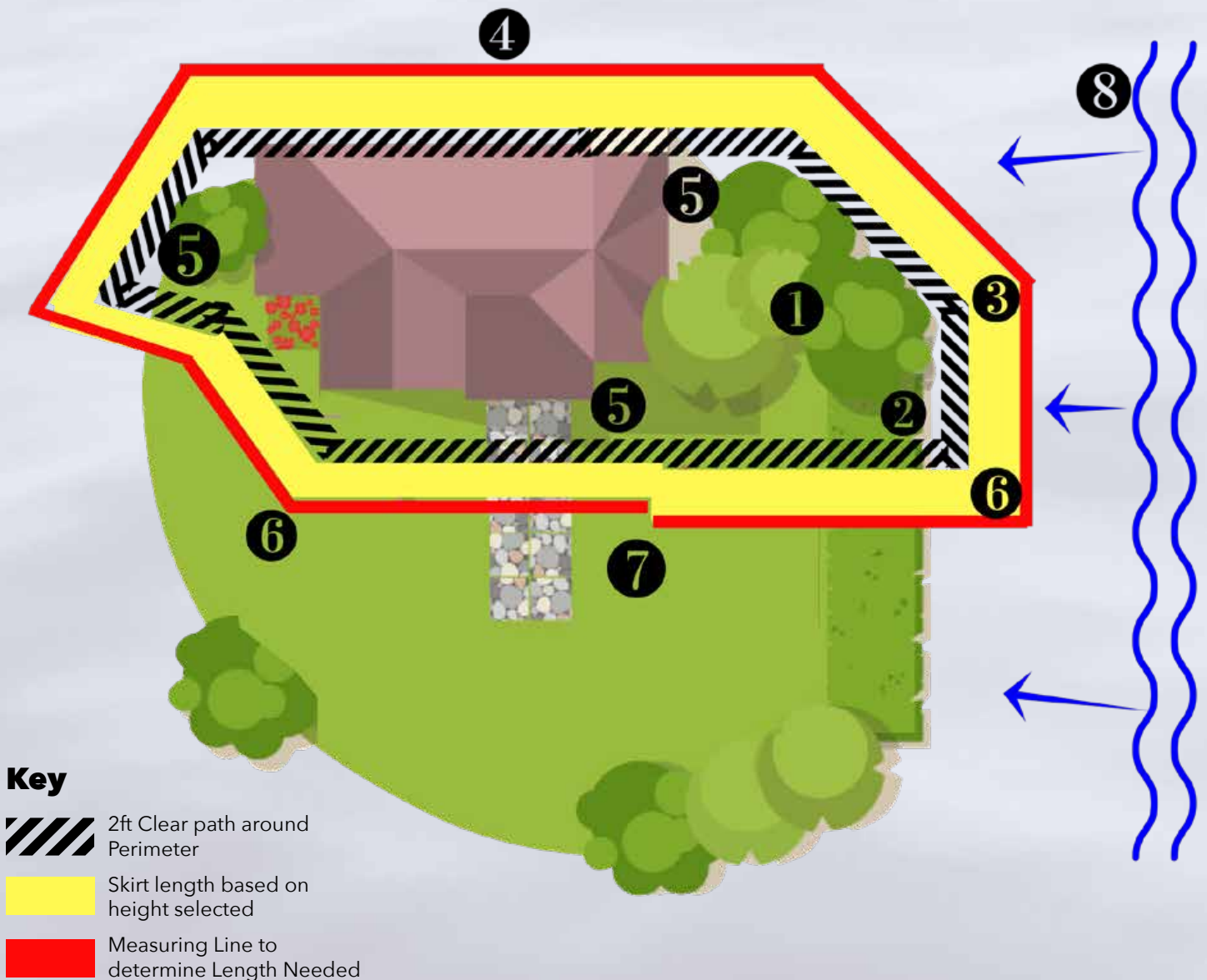
OVER 145,000FT (44,196M) SOLD WORLDWIDE



CAN BE USED ON LAND OR IN A BODY OF WATER

SELECTION GUIDE

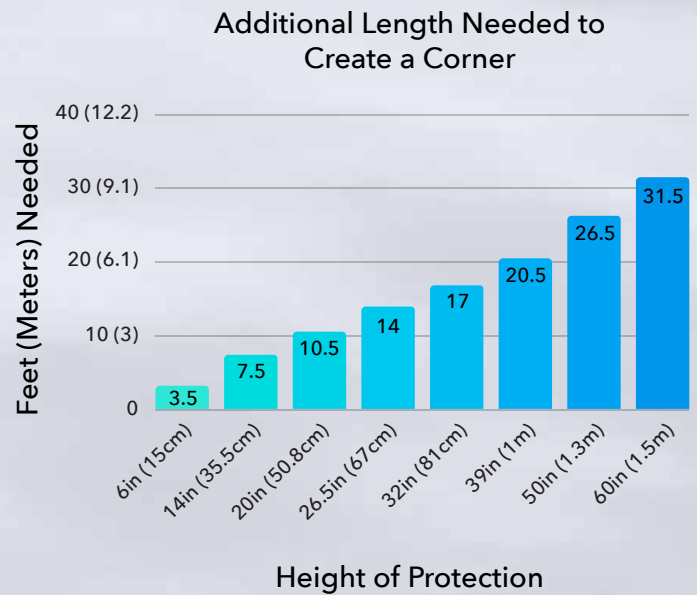
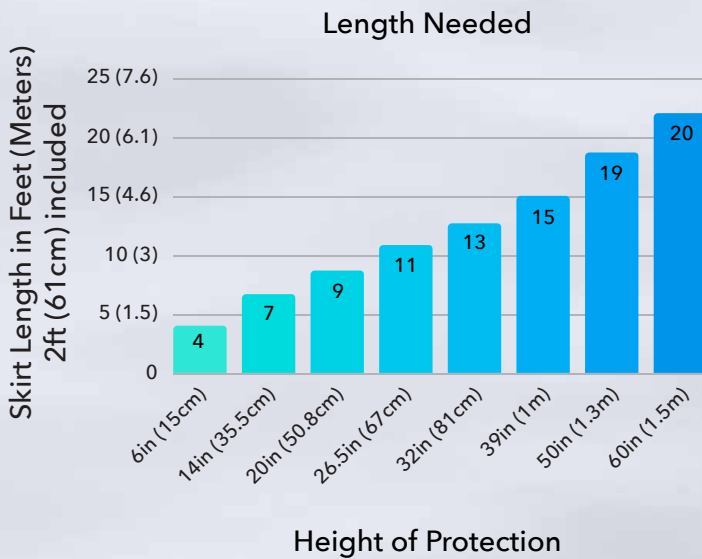
How to select the correct size & length of Water-Gate



1. Take into any considerations any obstructions of Water-Gate (pools, trees, sheds, etc.)
2. You will need a clear a path of at least 2ft (61cm) around the perimeter of the structure that is being protected.
3. A clear path will be required to place the Water-Gate into proper position. Use chart (next page) to determine the amount of space needed, depending on the height selected.
4. Use red line for measuring to determine overall length needed.
5. Multiple pumps are required to pump rain & seepage water away from the back end of the Water-Gate.
6. Corners can be created by folding unit properly. Curving Water Gates around bends will maximize length of unit.
7. Different heights can be joined based on height of flood concerns.
8. Direction of water concern

How To Determine Required Length

1. Select height of protection needed
 - a. Height can vary based on landscaping- hills, slopes, & water flow concerns
 - b. Take into consideration lowest point of property line as water will gravitate here
2. Review chart below for distance required for placement of Water-Gate
3. Walk clear path around perimeter to review any obstructions
 - a. Increase length as needed to avoid any obstructions or creating corners
4. Measure red line distance to determine overall length. (see image on previous page)
 - a. Connecting edge joints need to be at least 5ft (1.5m) away from corners



REMEMBER TO USE WATER PUMPS:

Any water collecting between the building and the Water-Gate needs to be evacuated by pumps.

Things that can affect the quantity of water behind the barriers are:

- ◆ Seepage rate of the barrier when full, approximately 0.5-0.7gpm / ft (inside edge)
- ◆ Unpredictable volumes of rain
- ◆ Review gutter drainage & plan accordingly
- ◆ Factors affecting the layout of the terrain. ie: gravity, slopes, hills, etc.

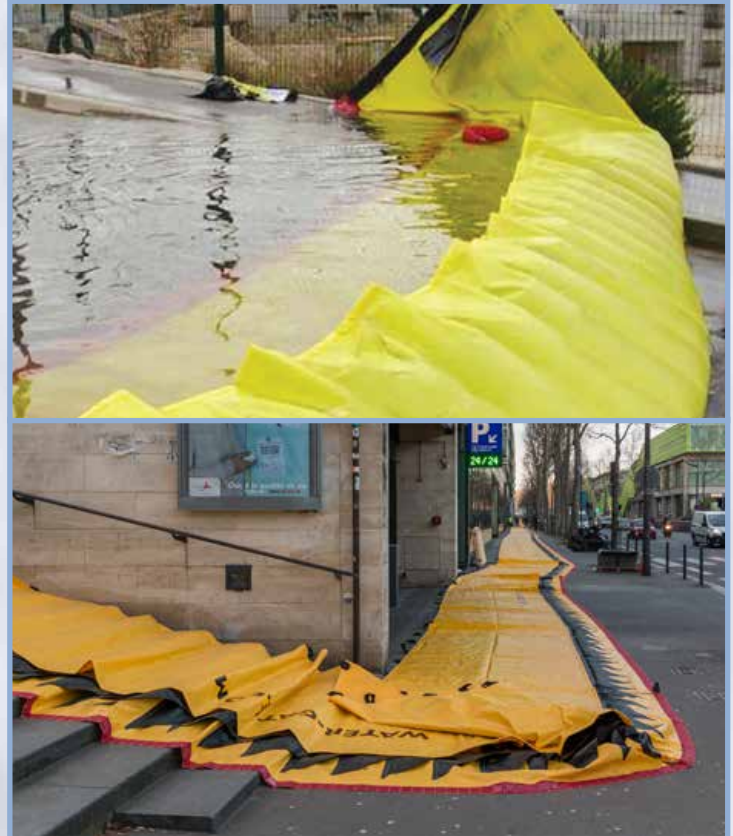


Sizes Available

WATER-GATE (WL) ON LAND

Pre-Attached Weights at front of unit.

WATER-GATE (WL)	
Part #	Size
QDWGWL-0630	6in x 30ft / 15cm x 9.1m
QDWGWL-1430	14in x 30ft / 35.5cm x 9.1m
QDWGWL-1450	14in x 50ft / 35.5cm x 15.2m
QDWGWL-2030	20in x 30ft / 50.8cm x 9.1m
QDWGWL-2050	20in x 50ft / 50.8cm x 15.2m
QDWGWL-2630	26.5in x 30ft / 67cm x 9.1m
QDWGWL-2650	26.5in x 50ft / 67cm x 15.2m
QDWGWL-3230	32in x 30ft / 81cm x 9.1m
QDWGWL-3250	32in x 50ft / 81cm x 15.2m
QDWGWL-3930	39in x 30ft / 1m x 9.1m
QDWGWL-3950	39in x 50ft / 1m x 15.2m
QDWGWL-5030	50in x 30ft / 1.3m x 9.1m
QDWGWL-5050	50in x 50ft / 1.3m x 15.2m
QDWGWL-6050	60in x 50ft / 1.5m x 15.2m



WATER-GATE - (WA) IN WATER

No weights at front for easier deployment in moving water. Anti-Erosion flap on back side prevents erosion while water is overflowing.

WATER-GATE (WA)	
Part #	Size
QDWGWA-1525	15in x 25ft / 38cm x 7.6m
QDWGWA-1550	15in x 50ft / 38cm x 15.2m
QDWGWA-2130	21in x 30ft / 53.3cm x 9.1m
QDWGWA-2150	21in x 50ft / 53.3cm x 15.2m
QDWGWA-2825	28in x 25ft / 71cm x 7.6m
QDWGWA-2835	28in x 35ft / 71cm x 10.7
QDWGWA-2850	28in x 50ft / 71cm x 15.2m
QDWGWA-3930	39in x 30ft / 1m x 9.1m
QDWGWA-3950	39in x 50ft / 1m x 15.2m
QDWGWA-6030	60in x 30ft / 1.5m x 9.1m
QDWGWA-6050	60in x 50ft / 1.5m x 15.2m



A few Great Customers

nationalgrid

Following Hurricane Sandy, **National Grid's US Flood Mitigation Team** reviewed options to set-up a flood prevention plan for future concerns. 6 substations were of concern in a small area where product could be shared amongst them in times of need.

National Grid Criteria:

- ◆ A fast deployment system
- ◆ Retention height of 5ft (1.5m)
- ◆ Minimal staff required for deployment
- ◆ Compact & easy storage
- ◆ Provided product knowledge & training

Result:

National Grid purchased & was trained on how to use almost 1,500ft (457.2 m) of 60in x 50ft (1.5m x 15.2m) largest **Water-Gate** barriers.

Supplied in crates for easy deployment.

Montréal

Montreal is an island in Canada surrounded by the St Lawrence River which has swelled on occasion & caused many flood events. The City **stocks** several heights of **Water-Gates** to manage this flood control.



Pratt & Whitney Canada is a world leader in the design, manufacture and service of aircraft engines powering business, general aviation and regional aircraft and helicopters.

The security measures department purchased over 750ft (230m) of the Water-Gate flood control system to protect their factory located in St-Hubert, QC, Canada.



Sellafield Ltd, located in Cumbria, reprocesses nuclear waste management. They purchased 32 units of the QDWGWL-2650 to protect their facility from damaging flood water.



Nationalgrid - US Engineer Team





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