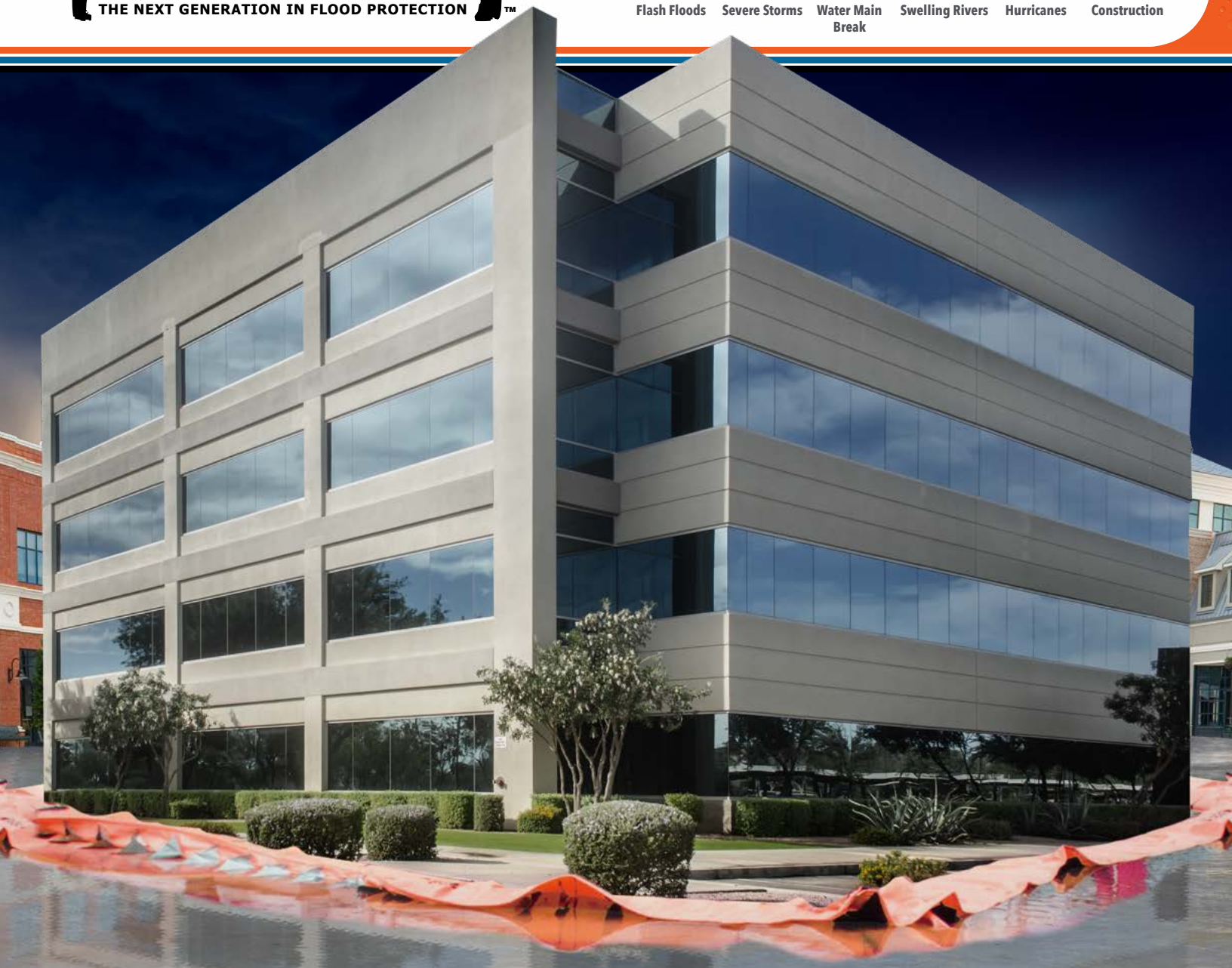
QUICK DAM

THE NEXT GENERATION IN FLOOD PROTECTION™

Flash Floods | Severe Storms | Water Main Break | Swelling Rivers | Hurricanes | Construction



WATERFORCE™

- Portable Self Rising Water Dam
- Quick Deployment

Portable Self Rising Water Dam

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

Replaces thousands of sandbags
(1) 26in x 50ft Water Force 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 Force 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

Efficient Protection
Water Force dams provide efficient protection up to 1.5 meters (60in.)/large scale deployment.

Compact & Lightweight
Minimal bulk & storage requirement.

Can be driven over
As long as the vehicle's clearance is higher than the immediate level of damming.

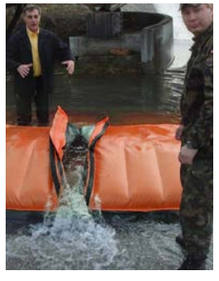
High benefit to cost ratio

Flood Control/Flash Flood

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

Emergency Response

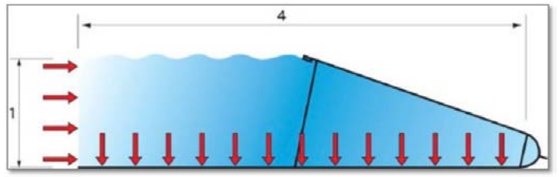
Deploys quickly for rapid response.
Used by fire departments, public works & search & rescue teams.



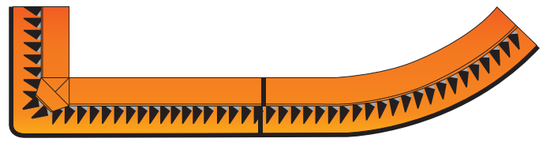
How it Works:

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

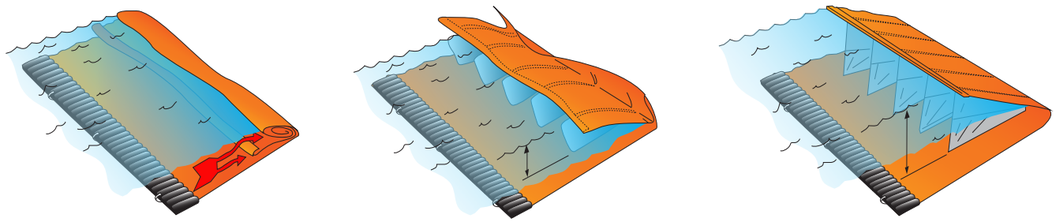
For more detailed instructions visit:
www.quickdams.com



The 4:1 ratio: The vertical thrust exerted on the bottom ground sheet is four (4) times stronger than the horizontal thrust.



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



Water Forces unfold & rise with the flow of oncoming water

Environmental Footprint

Water Force products are manufactured with material that can be recycled, decreasing the environmental impact.

Ground Sheet & Retention Tarp PVC Coated Polyester	4%	03 PVC
Holding Partitions Polyethylene Fabric	13%	02 PE-HD
Ballast Steel Plates	26%	
The sewing thread & velvet strips (Velcro®) Polyester	4%	01 PET
Straps Polypropylene	2%	05 PP

WAVE TESTED

Wave Test performed by US Army Corps of Engineers

US ARMY CORPS OF ENGINEERS

Water Force, manufactured by MegaSecur, has gone through rigorous testing with the US Army Corps of Engineers. **Testing** 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.**

Sizes Available

WATER FORCE (WL) ON LAND

Pre-Attached Weights at front of unit.

WATER FORCE (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

**Stock*

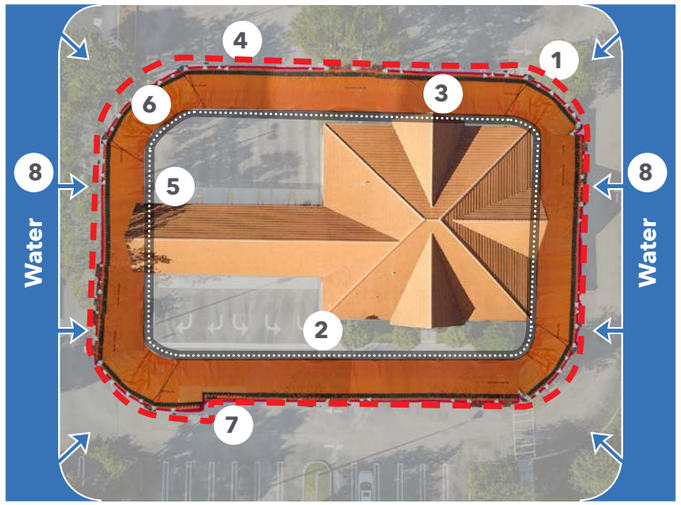
WATER FORCE - (WS)

Smaller ratio of width to height (3:1). Designed with homeowners in mind, where space may be a concern.

WATER FORCE (WS)	
Part #	Size
QDWGWS-2630	26in x 30ft / 66cm x 9.1m
QDWGWS-2650	26in x 50ft / 66cm x 15.2m
QDWGWS-3930	39in x 30ft / 99cm x 9.1m
QDWGWS-3950	39in x 50ft / 99cm x 15.2m
QDWGWS-5030	50in x 30ft / 127cm x 9.1m
QDWGWS-5050	50in x 50ft / 127cm x 15.2m
QDWGWS-6030	60in x 30ft / 152.4cm x 9.1m
QDWGWS-6050	60in x 50ft / 152.4cm x 15.2m
QDWGWS-7830	78in x 30ft / 198.1cm x 9.1m
QDWGWS-7850	78in x 50ft / 198.1cm x 15.2m

Selection Guide

How to select the correct size & length of Water Force



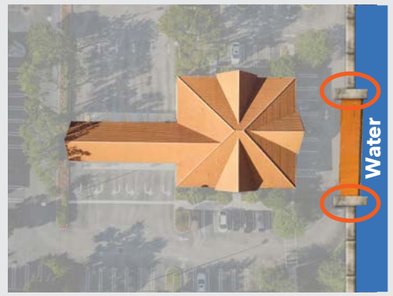
Key

- 2ft Clear path around Perimeter
- Skirt length based on height selected
- Measuring Line to determine Length Needed

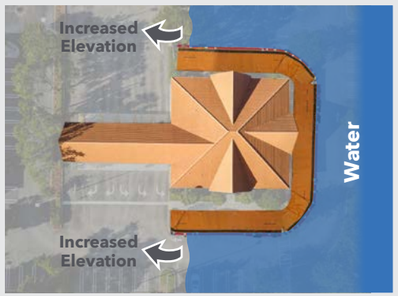
1. Take any obstructions into consideration (pools, trees, sheds, garden, etc.)
2. You will need a clear path of at least 2ft (61cm) around the perimeter of the structure that is being protected.
3. A clear path will be required to place the Water Force into proper position. Use chart (next page) to 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 Force due to rain, seepage & downspouts.
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.

Location of Protection

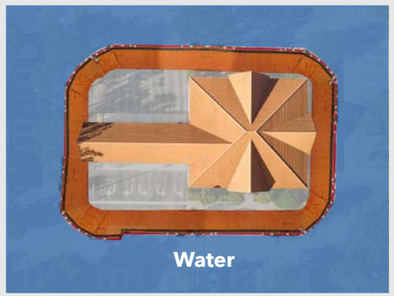
The Water Force system allows a complete or partial perimeter type of protection by holding back the flood water at a distance from walls rather than protecting individual openings.



Sectional protection – Set up between two **walls or dikes/mounds**



Semi perimeter protection – Set up with angles or on a sloped terrain



360° protection – Complete on all sides – Both extremities (ends) joined together

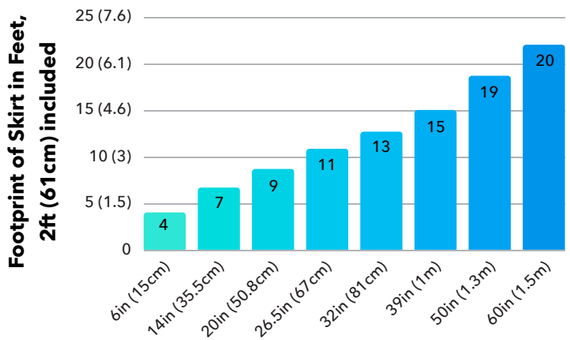
How To Determine Required Length

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 Force
3. Walk a 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

Standard walking measuring tool is recommended.

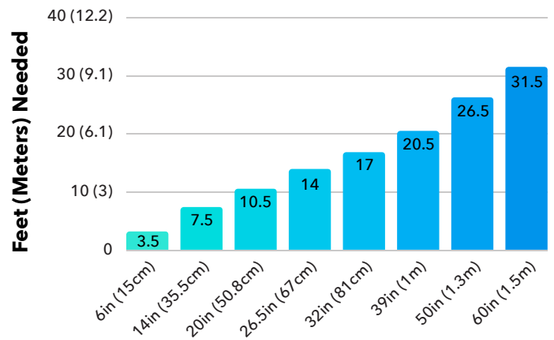
Use laser measure tool to direct towards the property to maintain the proper distance while walking the perimeter while measuring the length.

Unobstructed Area Needed



Height of Protection

Additional Length Needed to Create a Corner



Height of Protection

Making corners requires folding material over itself. As a result, additional length is needed based on height

Remember to Use Water Pumps:

Any water collecting between the building and the Water Force 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 & make a plan to redirect that excess water over the other side of the Water Force
- Factors affecting the layout of the terrain. ie: gravity, slopes, hills, etc.

Storage & Deployment

Inside a fast deployment crate

- Smaller single units come complete in carrying bags & wraps for storage

Storage & Deployment Crates:

- Stores several pre-connected units ready for quick deployment
- Requires minimal labor
- Available in wood or metal
- 40ft long containers available
- Fork lift accessible or with wheels
- Custom colors & art available

Water Force Evaluation

One Resource for all your Water Force needs: Check it out »

Water Force Videos:

Watch: Water Force vs. The Competition»

Watch: The Leader in Perimeter Protection»

Water Force Comparison

	Comparison	Water Force	Water Filled Barrier	Sandbags
*	**Set Up Time**	8 hours	41 hours	72 hours
	Breakdown Time	2 hours	8 hours	12 hours
	Repair Time	0 hours	6 hours	N/A
+	**Additional Resources Needed**	20 Sandbags	4,800 Gallons of water, strong plastic sheeting, silicone, straps, and sandbags	3,960 Sandbags = 74 tons of Sand, plus labor to fill sandbags & stage
ECO-FRIENDLY	**Environmentally Friendly?**	Reusable	Reusable	Dry rot & contaminated disposal
	Life span	20+ Year Shelf Life	20+ years with usage repairs	Must be disposed after use. Not used, 8-12 months
UV	**UV Protected**	✓	✓	Breaks down in sunlight
	Customizable	✓	Standard sizes	Stack as needed
	Flexible	✓	Cannot bend	NA
	Allows access prior to flood	Lays flat for access until water arrives	Walls block traffic flow	Walls block traffic flow
	Deployment Crates & Storage	Pre-connected for quick deployment	Individual units rolled	Stacked empty or filled on pallets

* Calculations based on 3ft high wall and 80ft length of protection.

A few Great Customers

Chevron

Chevron, located in Houston, TX experienced catastrophic damage in 2017 by Hurricane Harvey, where they were inundated with 51" of rainfall in a short amount of time. Loss of equipment & downtime led them to choose 1200ft Water Force. We performed an on-site evaluation & full deployment training with key staff members.

VillaSport ATHLETIC CLUB AND SPA

VillaSport suffered devastating flood damage from Hurricane Harvey in 2017. It caused them to close down for 4 months incurring loss of income while having to rebuild their facilities. To prevent further loss, they invested in a portable system that could be deployed at their location or their sister property, depending on the storm direction.

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 purchased & was trained on how to use almost 1,500ft (457.2 m) of 60in x 50ft (1.5m x 15.2m) largest **Water Force** 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 Forces** to manage this flood control.

Pratt & Whitney Canada
Une société de United Technologies

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 Force flood control system to protect their factory located in St-Hubert, QC, Canada.

PROTECTING
THESE INDUSTRIES

Government | Property Management | Construction | Universities | Hospitals | Janitorial | Hotels | Retail | Grocery | Residential

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