

# At last



# an instant water barrier!



## Blocking Streams and Watercourses

The water barrier can be used to hold back streams and watercourses without affecting the environment; no sediment, no damage to spawning grounds, no earth-moving, with major savings in time and money (machinery, personnel, efficiency). Overflow water can be diverted by way of our hopper system. Installed on the Water-Gate barrier, the hopper component redirects overflow downstream and at the same time creates a dry space at the bottom of the watercourse. The hopper and its fabric tube can evacuate up to 90 litres/second (1200 imperial gallons per minute - 1440 USA gal per minute), thereby eliminating the need for a pump.



## Containing Toxic Spills

The Water-Gate liquid barrier enables a speedy response to emergencies. MegaSecur offers a type of barrier specifically designed for petrochemical spills. This barrier can be installed in a straight or curved configuration to better hold back fluids while maintaining effectiveness. When work is completed, Water-Gate can be lightly scrubbed and rinsed, then rolled up for future use.

## Building Water Reservoirs

Water-Gate allows building water reservoirs to meet pumping requirements. The barrier is light, compact and heliportable; it can be rapidly deployed and is very easy to set up and dismantle. Water-Gate can't crumble, tear or rupture. Any overflow will simply drain over the barrier.



## Flood Control

Several sections can be installed together very quickly by a single person to create a barrier of the desired length. The floodwaters are used to fill the barrier, with no need for mechanical work; no inflation or pumping. When floodwaters recede, the barrier flattens by itself to be folded back and rolled up for future use.

## To hold back water, it takes...water!

The Water-Gate barrier can replace thousands of sandbags almost instantly. Your cofferdam can be set up in a few short minutes and taken down even faster. Water-Gate can be reused hundreds of times saving you time and money. Available in various lengths and heights, the units of all models can easily be linked together by one person.





## Other Applications

Water-Gate can also be used to control watermain ruptures, to dry out banks for construction work such as docks, for fish farming, to block streams where a vehicle has become lodged against the current, to create irrigation or livestock reservoirs, to conserve water for droughts, etc.

## The Water-Gate Is Easy to Install!

Simply orient the barrier as shown by the arrows on the roll, so that water flows into the opening when it is deployed.

Unroll and locate barrier where desired.

Unfold the bib and place some rocks on the float to prevent water from entering while the bib is secured. To minimize leakage, use gravel, rocks or sandbags to ensure that the bib is perfectly fitted to the ground.

Note : in fast-moving or high-discharge streams, steel posts may be needed.

Push rocks to the rear and the job is done! The barrier is immediately created. Note the large rock at the bottom of the illustration, showing that the Water-Gate barrier can be used on any type of bottom.

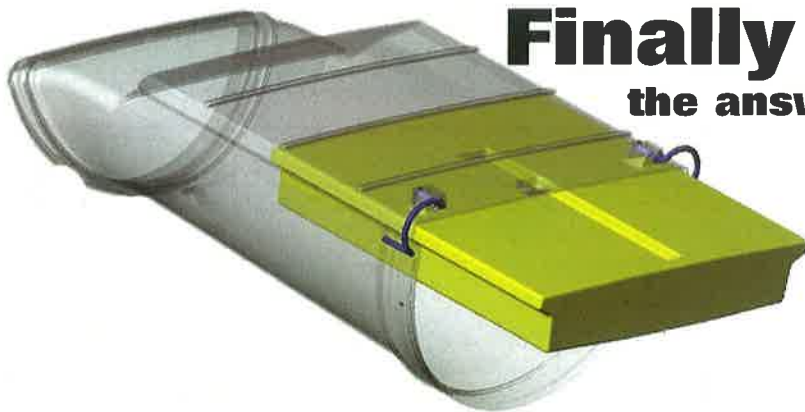
## Principle

Horizontal water pressure exerted against the barrier is equal to vertical pressure. The base of the barrier is wider than the depth of the water to be held back, which results in excellent retaining power.

## Available Models

Water depth	Barrier length
15 in. / 38 cm	25, 50 ft / 7.5, 15.2 m
21 in. / 53 cm	30, 50 ft / 9.1, 15.2 m
28 in. / 71 cm	35, 50, 75 ft / 10.7, 15.2, 22.9 m
Larger models available on request	

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# Finally the weir, the answer to a pump replacement

The overflow diverter tunnel is installed on the Water-Gate allowing the overflow to be channelled downstream, thus draining the bottom of the stream. This system replaces a heavy duty pump and can drain 1440 USA. gal per minute or 1200 imperial gal. per minute or 90 litres per second.



**Overflow diverter DS-1200**

**Water barrier « Water-Gate »**

**Main tunnel - 22,7 m (75') DP-75**

**Extension tunnel - 22,7 m (75') DR-75**

If water flow exceeds you will need an additional diverter kit.

## **Overflow diverter:** Code: DS-1200

The overflow diverter tunnel is made of 100% unbreakable polyethylene. The black portion of the diverter is funnel shaped so as to siphon off and drain a maximum of excess water. The (yellow) sliding float inside the diverter is intended to stabilize it. We recommend placing a few stones from the site or a couple of sandbags on top of the diverter so as to maximize suction and improve diverter stability. Weight (diverter only): 32 lbs / 14.5 kg  
Size: 15" x 24" x 39" / 38 cm x 61 cm x 1 metre.

## **Main tunnel:** Code: DP-75

If water must be channelled downstream in order to work in a dry area, the main tunnel can be fitted to the diverter outlet to direct the water where needed. The main tunnel is equipped with rugged (red) handles every 5 ft (1.5 m) for easier handling. This 75-ft tunnel (22.7 m) is well adapted to the winding path of streams. The bottom is made of abrasion-resistant polyethylene canvas and the top is translucent to allow you to better monitor the flow of water. Main tunnel weight: 25 lbs / 11.4 kg

## **Optional extension tunnel:** Code: DR-75

This 75-ft long (22.7 m) extension tunnel can be attached to the main tunnel or to other extension tunnels so as to cover the desired distance, and the couplings are virtually water tight. Specifications are the same as for the main tunnel. Extension tunnel weight: 25 lbs / 11.4 kg

## **Complete assembly including: overflow diverter & main tunnel:** Code: DA-1200

This equipment is highly recommended by the Quebec Environment Ministry. When you plan your drainage area, allow for a length of piping exceeding the area to be drained in order to avoid backflows. The flatter the stream, the greater the length you will need to contain and channel the water without any backflows. The overflow diverter is easy to carry and can be installed within a few minutes by a single person. Total weight: 57 lbs / 26 kg





	<i>Fluid</i>	<i>Water-Gate (yellow PVC)</i>	<i>Water-Gate (orange polyethylene)</i>
<i>Inorganic Acids :</i>	<b>Hydrochloric Acid</b>	12 hours resistant Minor repairs	12 hours resistant
	<b>Hydrofluoric Acid</b>	12 hours resistant	12 hours resistant
	<b>Hydrobromic Acid</b>	12 hours resistant	12 hours resistant
	<b>Nitric Acid</b>	Not recommended	12 hours resistant Major repairs Leaks
	<b>Phosphoric Acid</b>	12 hours resistant Minor repairs	12 hours resistant Minor repairs
	<b>Sulfuric Acid</b>	Not recommended	Not recommended
<i>Bases :</i>	<b>Sodium Hydroxide (50%)</b>	12 hours resistant Major repairs	12 hours resistant Major repairs
<i>Hydrocarbures :</i>	<b>Diesel</b>	12 hours resistant	12 hours resistant
<i>Non-polar Solvents :</i>	<b>Petroleum Ether</b>	12 hours resistant Major repairs	12 hours resistant
	<b>Hexanes</b>	12 hours resistant Major repairs	12 hours resistant
	<b>p-Xylène</b>	12 hours resistant	12 hours resistant
	<b>Toluene</b>	12 hours resistant	12 hours resistant
	<b>Chloroforme</b>	Not recommended	12 hours resistant Inspection
	<b>Dichloromethane</b>	Not recommended	12 hours resistant Minor repairs
<i>Polar Solvents :</i>	<b>Acetone</b>	Not recommended	12 hours resistant
	<b>Acetic Acid Glacial</b>	12 hours resistant	12 hours resistant
	<b>Ethanol</b>	12 hours resistant	12 hours resistant
	<b>Methanol</b>	12 hours resistant Inspection	12 hours resistant
	<b>Formaldehyde</b>	12 hours resistant Inspection	12 hours resistant
	<b>Methyl Ether Ketone</b>	Not recommended	12 hours resistant Inspection
	<b>Tetrahydrofuran</b>	Not recommended	12 hours resistant
	<b>Ethyl Acetate</b>	Not recommended	12 hours resistant
<i>Others :</i>	<b>Acetic Anhydrous</b>	12 hours resistant	12 hours resistant
	<b>Paint thinner</b>	12 hours resistant Inspection	12 hours resistant
	<b>Ammonium Hydroxide</b>	12 hours resistant	12 hours resistant
	<b>Hydrogen Peroxide</b>	12 hours resistant	12 hours resistant

**12 hours resistant :**

**Inspection :**

**Minor repairs :**

**Major repairs :**

**Not recommended :**

The Water-Gate will resist 12 hours

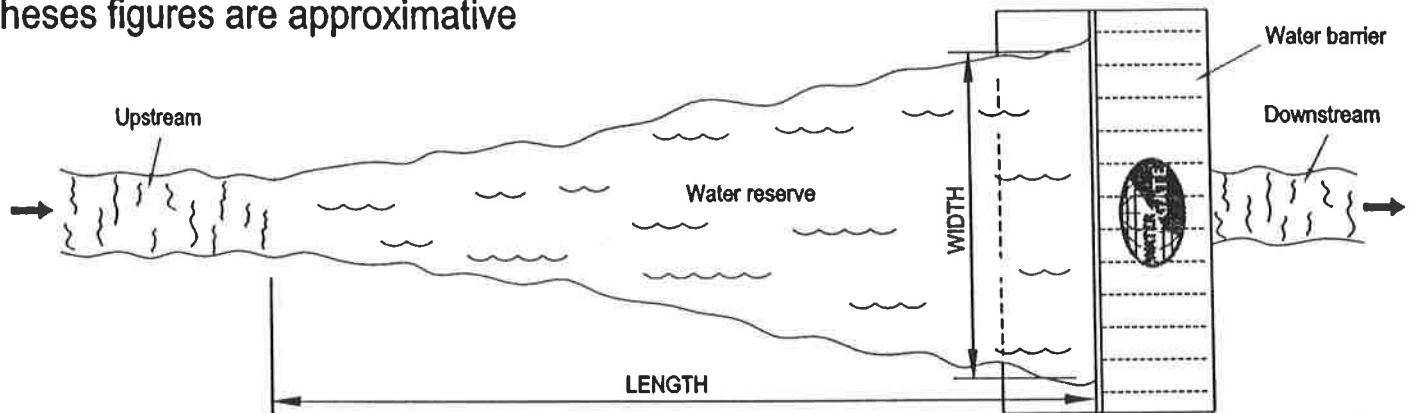
Check for possible alterations of the containment shell (appearance, rigidity)

Alteration of the component(s) of the Water-Gate (containment shell not included)

Degradation of the containment shell

The Water-Gate is not resistant to this fluid

Theses figures are approximative



## English system

Width	Length	Reserve in gallons (imp.) + water circulation
5 ft	25 ft	800
	50 ft	1 600
	75 ft	2 400
	100 ft	3 200
	150 ft	4 800
	200 ft	6 500
	300 ft	9 700
10 ft	25 ft	1 700
	50 ft	3 400
	75 ft	5 100
	100 ft	6 800
	150 ft	10 300
	200 ft	13 700
	300 ft	20 500
15 ft	25 ft	2 700
	50 ft	5 400
	75 ft	8 200
	100 ft	10 900
	150 ft	16 300
	200 ft	21 800
	300 ft	32 600
20 ft	25 ft	3 700
	50 ft	7 500
	75 ft	11 200
	100 ft	14 900
	150 ft	22 400
	200 ft	29 800
	300 ft	44 700
25 ft	25 ft	4 700
	50 ft	9 500
	75 ft	14 200
	100 ft	18 900
	150 ft	28 400
	200 ft	37 900
	300 ft	56 800
30 ft	25 ft	5 700
	50 ft	11 500
	75 ft	17 200
	100 ft	23 000
	150 ft	34 500
	200 ft	46 000
	300 ft	69 000

- Speed of deployment
- Easy to install
- Easy to dismantle
- Reusable hundreds of times
- Quality construction and materials
- Quick connection of units
- Distinctive colour
- Low maintenance
- Safety
- Can be installed by one person
- Convenient storage

Model	Length		Rolled dia. "X"		Weight	
	ft	m	in.	cm	lbs	kg
6-25	25	7,5	6½"	16	3,2	1,4
6-50	50	15,2	9"	23	6,4	2,9
6-75	75	22,7	11"	28	9,6	4,4
6-100	100	30,4	13"	33	12,8	5,8
15-25	25	7,5	14"	36	25	11,3
15-50	50	15,2	20"	51	50	22,7
15-75	75	22,7	25"	64	75	34,0
21-30	30	9,1	15"	38	45	20,4
21-50	50	15,2	20"	51	75	34,0
21-100	100	30,4	27"	69	150	68,0
28-35	35	10,7	18"	46	74	33,6
28-50	50	15,2	21"	53	106	48
28-75	75	22,9	26"	66	158	72

