BEAVER®
PROTECTION SYSTEMS

MOBILE STORM AND FLOOD PROTECTION

BEAVER®
PROTECTIVE DAM

STURDY AND RESISTANT
RELIABLE
FAST ASSEMBLY
SIMPLE AND FLEXIBLE TO USE
COST-EFFECTIVE AND EFFICIENT
SUCCESSFUL IN EMERGENCY

WITH WATER AGAINST FLOODS

Storms and floods cause billions in damage every year. The financial consequences are a burden for land and house owners, businesses, insurance companies and the public sector - ultimately the taxpayer. In addition to the material damage, the affected population also suffers psychological stress.

The Beaver® protection system helps to minimize or completely avoid storm and flood damage and the associated consequential costs.

The Beaver® protective dam consists of two parallel chambers that are firmly connected to each other. In a first step, these chambers are filled with air and can therefore be easily positioned as required.

The dam elements are connected to each other using a cuff system. This creates a dam of any length that is optimally adapted to the topographical conditions.

The system is then filled with water, giving the dam its immovable stability. The water is taken from hydrants or pumped from nearby bodies of water. Approaching flood water can also be utilized.

Additional dam height is gained by placing a third unit on top of the two chambers already filled with water if required.

The Beaver® protective system ensures that protective dams can be set up quickly with little manpower and without heavy equipment, even in tight and difficult-to-access situations. This makes the Beaver® protective dam easy and flexible to use and an extremely efficient replacement for sandbags. In addition to the cost advantage of the Beaver® protection system, it also impresses with its ecological benefits.

The quick and easy dismantling, rapid removal and good storage capacity in a small space round off the advantages of the Beaver® protection system.

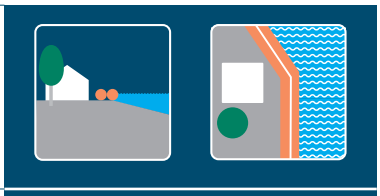
The Beaver® protection system has been in use worldwide for over two decades under a wide variety of conditions and has proven itself as the best-selling system in countless serious operations.

Security forces appreciate the user-friendly, flexible and extremely efficient use of the Beaver® protective dam in the service of the population to protect property and lives.

VERSATILE USE
PROTECTION SCENARIOS

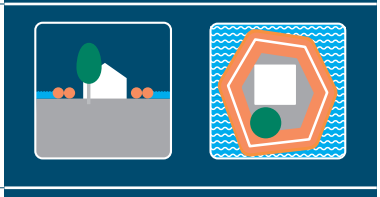
PROTECT LAND AREAS

Vilages, towns, housing estates, cultures



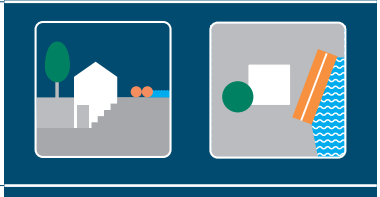
PROTECT OBJECTS

Residential buildings, production facilities, industrial plants, campsites, sports facilities



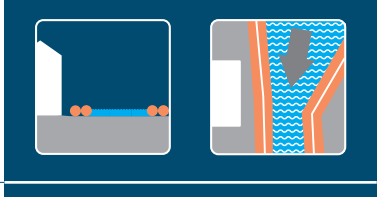
PROTECT PROPERTY PARTS

Garages, cellars,
staircases, entrances



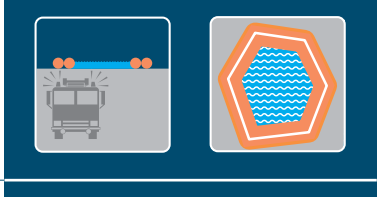
DISCHARGING AND DAMMING WATER

During storms and floods on lakes, rivers and streams, as well as in the event of mudslides and burst pipes



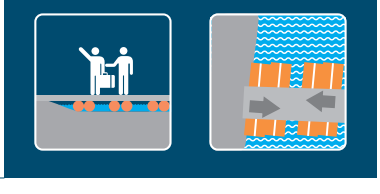
WATER STORAGE

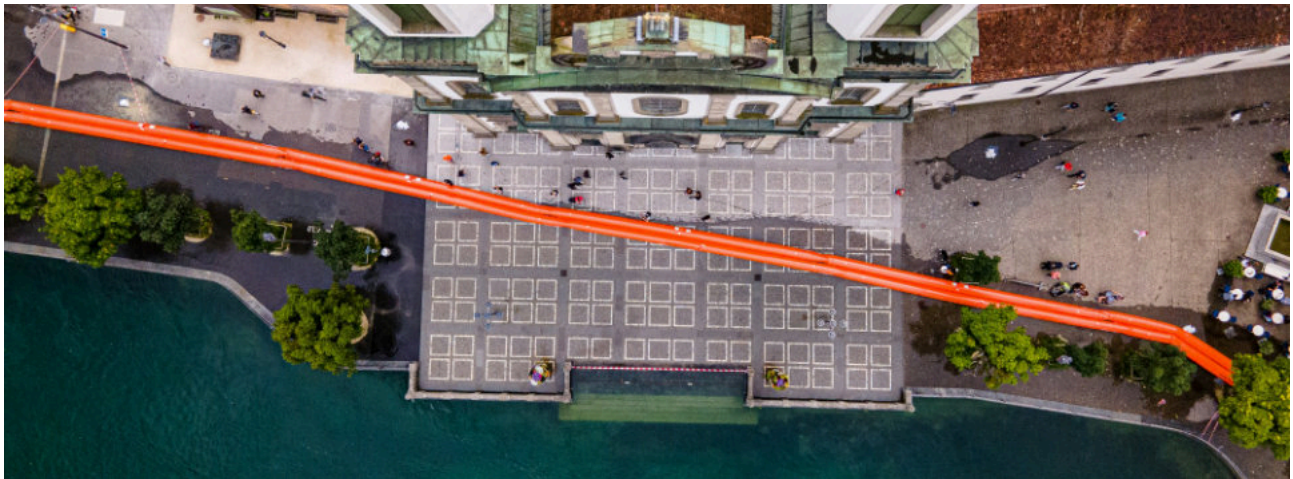
As catch basin for accidents, decay basin for electric vehicle fires, extinguishing water retention, ship repairs



CROSSING WATER

As footbridge at high water, floats for temporary bridges, raft with outboard engine





BEAVER® DAM

FAST ASSEMBLY

50 Centimetres of dam height
320 Metres of dam length
6 - 8 People
90 Minutes

Replaces thousands of sandbags
Eliminates the coordination of trucks full of sand
Saves valuable hours

EASY AND FELXIBLE

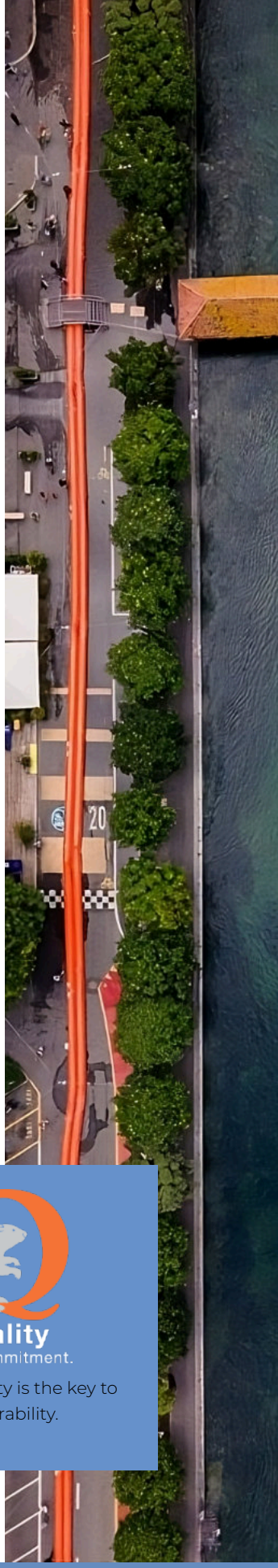
Rolling out
Inflating
Connecting
Flooding

Adapts perfectly to the terrain
Directional adjustment without special elements
Specially developed filling connections
Tight and force-fit connections

DURABLE AND COST EFFICIENT

Emptying
Storing
Ready for use for decades
Extremely cost-efficient

Patented emptying system
Space-saving
Can be reused many times
No disposal costs after use



SEAL OF QUALITY
SAFETY IN FLOOD PROTECTION

Beaver® protection systems have EVH certification.

The Beaver® protective dams are produced jointly with Bieri Tenta AG. The group of companies currently employs 135 people and has state-of-the-art production facilities to fulfil the highest quality standards.

Quality
Our Commitment.

Beaver® quality is the key to safety and durability.

BEAVER Protection Systems Ltd.

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BEAVER® PROTECTIVE DAM

TECHNICAL DATA

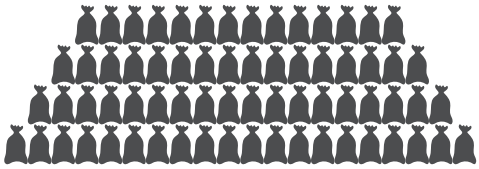
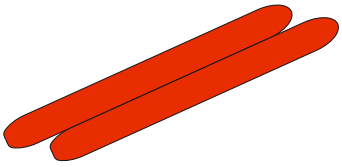
	P2 30	M2 50	M2 XL 80	H2 100	S2 130
	Double element	Double element	Double element	Double element	Double element
	Firmly connected	Firmly connected	Firmly connected	Firmly connected	Firmly connected
DIMENSIONS					
Chamber diameter [cm]	30	62	94	115	140
Maximum retention height [cm]	30	50	80	100	130
Maximum retention height with add-on element [cm]	45	80	130	160	190
Element lengths [m] (others on request)	5 - 10 - 15 - 20				
WEIGHTS					
Double element, empty, 10m [kg]	22	45	70	75	80
Double element, water-filled, 10m [kg]	1'500	6'500	14'000	21'000	31'000
FITTINGS					
Filling connections Storz (others on request)	ST 55	ST 55	ST 55	ST 55	ST 55
Discharge openings, per element: Garden hose, tap connection (others on request)	2	-	-	-	-
Discharge openings, per element: Clamping plate (Patent granted) (others on request)	-	2	2	2	2
MATERIAL					
Fabric weight [g/m²]	900				
Tensile strenght warp / weft [N/50mm]	4'300 / 4'000				
Material properties	Polyester fabric, coated with PVC on both sides, temperature resistance -40 to +70°C				
Colour / printing	Warnings, instructions, marketing, customisation possible				

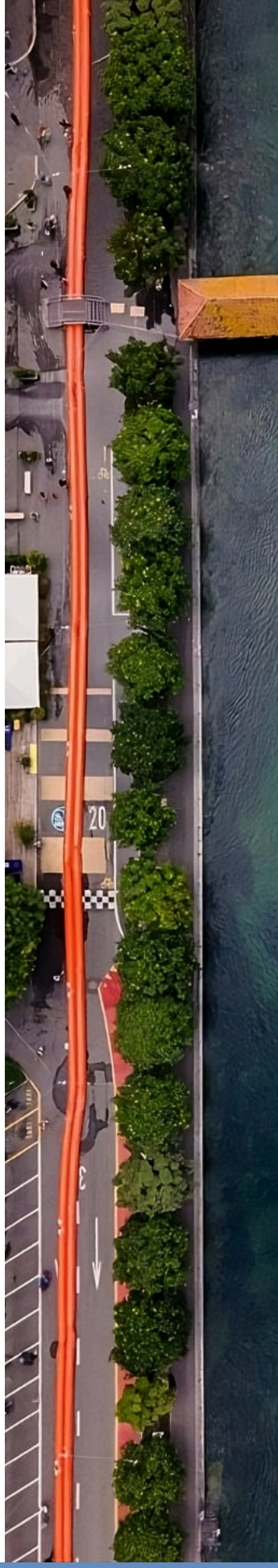
All technical specifications are approximate and may vary depending on individual operating conditions.
Product adaptations and technical changes are possible at any time and are subject to change.

BEAVER® DAM

EFFECTIVE AND EFFICIENT

100m Damline, 80cm Retention height

Sandbags	BEAVER® Dam
	
20 Helpers	5 Helpers
	
5 Trucks with 130’000 kg Sand	1 Car with Trailer
	
6’500 Sandbags	5 BEAVER® Dams
	
5 Hours set-up time	1 Hour set-up time



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