

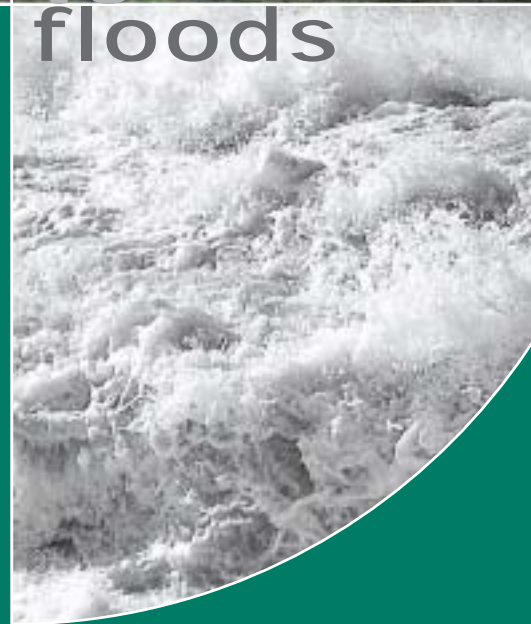


Storm and Flood Protection



Uses water to
control floods

- Fast assembly
- Simple and flexible application
- Easy storability



Uses water to control floods

Storms and floods cause damage which runs into millions. The financial consequences place an enormous strain on land and home owners, businesses, insurance companies and public authorities and therefore eventually on the taxpayer. Together with the distress to the victims such events can grow into a national disaster.

The Beaver® Protection System helps to prevent or at least reduce storm and flood damages and their consequential costs.

The Beaver® Storm and Flood Protection System consists of two PVC hoses laid side by side permanently joined together to form a twin element.

Beaver® - the Protection System

The elements of the flood barrier are initially inflated, easily moved into the desired position and subsequently filled with water from a nearby water source or a hydrant.

The individual elements are joined together by a patented link system. This makes it possible to build flood barriers of any length which conform to all types of terrain.

Additional hold back capacity can be obtained by adding a further single hose on top of the twin element.

The Beaver® Protection System guarantees fast assembly of temporary protective barriers and their simple and flexible use.

The rapid and easy disassembly and removal, together with good storability are additional assets of this reusable system.

Rapid Installation

A dam measuring 500 meters (1670 feet) in length and 0.75 meters (2.5 feet) hold back capacity can be erected by 5 men in only one working day. For a comparable sand bag wall to be erected it will take many days longer, not taking into account the additional time required to organise, transport, fill sand bags, stack and then remove all afterwards.

Deploy



unroll



inflate



link



fill with water



(whilst evacuating the air)



operational.



Especially in storms and floods fast assembly and erection of a dam is crucial. By adding an additional hose the hold back capacity can be increased quickly and simply.

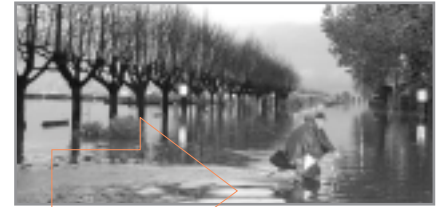
**With the Beaver® Storm and Flood Protection System
resistant protective barriers
can be quickly erected with few staff,
and is cost efficient.**



Floods in Bern, 1999. Photo archive Fritz Friedli



Storms in Vals, November 2002.
Photo archive community of Vals/CH



Floods in Locarno, November 2002.
Sign. Maffi, Corriere del Ticino

In the past years storms and floods in Switzerland have caused damages of well over five billion francs – in the worst year 1999 alone, nearly one billion. Due to environmental and climatic changes worldwide we have to expect damages in double digit billions in the years to come.

Simple and flexible use

The Beaver® Protection System is extremely user friendly. Besides simplicity and flexibility in application, the removal is also rapid and simple. The Beaver® hoses are storable on small surfaces.

The elements adapt optimally to the terrain.

Changes of direction are possible on any point without special elements.

Specially developed hardware and supplies.



Tight and sturdy links.

Patented draining system.

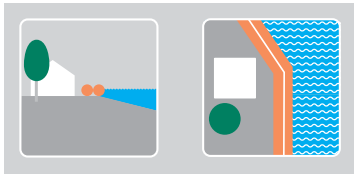


Minimal effort to drain.

Beaver® dams can be enlarged.

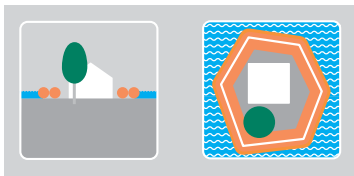


Multipurpose application



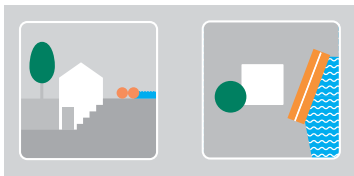
Protect the landscape

Villages, towns, agriculture, settlements.



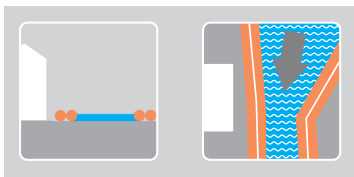
Protect whole buildings

Houses, factories, industrial sites, campgrounds, sport facilities.



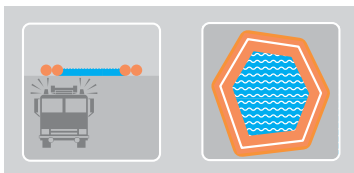
Protect property parts

Garages, basements, staircases, entrances.



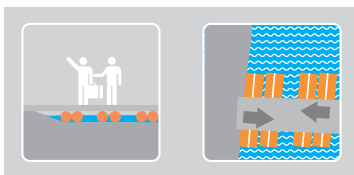
Hold back and divert water

During storms and floods on lakes, rivers and brooks as well as mud and water pipe rupture.



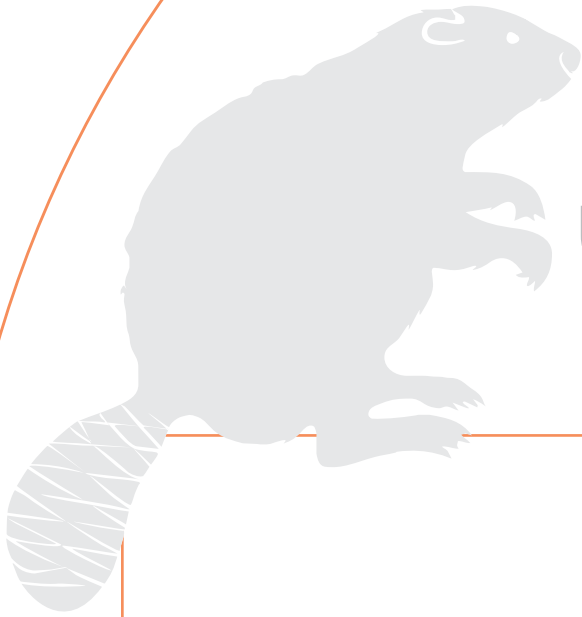
Store water

As a collecting reservoir following an accident hold back fire extinguishing fluid.



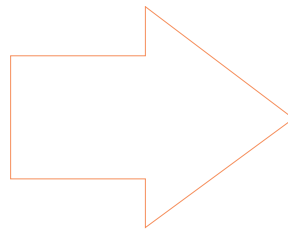
Cross water

As a footbridge during floods or even as a raft with an outboard motor.



Uses water to control floods

	Typ P Twin element	Typ M Twin element	Typ H 2 single elements strapped together to form a twin element	Typ S 2 single elements strapped together to form a twin element
Measurements				
Diameter	Ø 30 cm	Ø 60 cm	Ø 96 cm	Ø 150 cm
Useable Dam hold back	22 cm	45 cm	75 cm	120 cm
Length	5/10 m	5/10/20 m	5/10/20 m	5/10 m
Weight for (10 m) element				
Empty weight of an element	22 kg (Twinhose)	50 kg (Twinhose)	60 kg (Single Element)	85 kg (Single element)
Weight of a twin element filled with water	1500 kg	6000 kg	14,500 kg	35,000 kg
Fittings				
Filling connections	3/4" tap	Storz 55 Clip	Storz 75 Clip	Storz 75 clip
Drain openings (1 per hose)	garden hose	patent pending	patent pending	patent pending
Material				
Weight g/m ²	870 g/m ²	870 g/m ²	1200 g/m ²	1200 g/m ²
Tensile strength at 5 cm	> 410 kg	> 410 kg	> 540 kg	> 540 kg
Material PVC laminate, coated on both sides			



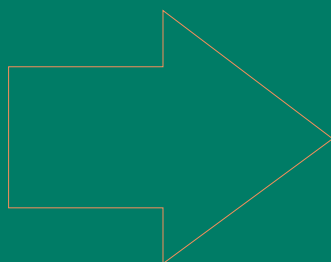


Bieri

The Beaver® Storm and Flood Protection System is produced by Bieri Blachen Ltd. Grosswangen/Luzern, Switzerland.

The group employs a staff of 160, whereof 100 in Grosswangen.

The company's main business is the outfitting of textile and synthetic fabrics. In recent years modern equipment has reduced the reliance on handcraftmanship.



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