Uses water to control floods

	M 50	MXL 80	H 100	S 130
	Twin element,			2 single elements
	2 hoses laid side by side permanently			strapped together to form a twin element
Neasurements				
Diameter in cm	Ø 60	Ø 90	Ø 110	Ø 150
Maximum Water Depth	~ ~ ~	~ ~ ~ ~	~	~ 100
n cm up to max	50	80	100	130
Maximum Water Depth when stacked n cm up to max				
Emergency Option to increase hold back in		125	ca. 150	ca. 190
_ength in metre	5/10/15/20	5/10/15/20	5/10/15/20	5/10/15/20
Weights Weight of an empty 10 m element in kg	45 (Twin element)	70 (Twin element)	98 (Twin element)	80 (Single element)
Neight of a 10 m twin element				
illed with water in kg	7000	12 000	15 000	35 000
- ittings	0	0 FF/7F	0 FF/7F	0
Filling connections	Storz 55/75	Storz 55/75	Storz 55/75	Storz 55/75
Drain openings	at each end	at each end	at each end	at each end
Material Neight in g/m²	870 respectively 1200			
Tensile strength at 5 cm	> 410 resp. > 510 ·····			
Vaterial	PVC laminate, coated on both sides; Temperature minus 30° until plus 70°			

«The system is quick and easy to install, and since 2001, when we purchased BEAVER flood barriers, many floods have been prevented. **DIRECT RESULT: 0 SWISS FRANCS OF DAMAGE** – instead of the estimated 13 million if we did NOT have the BEAVER!» Swiss Army, Arsenal Lyss/Switzerland

«A 320M-LONG BEAVER FLOOD BARRIER, WITH A MAXIMUM DESIGN HEAD OF WATER OF 50CM, WAS DEPLOYED IN 90 MINUTES BY 8 PEOPLE. Anybody who has ever built a sandbag dam knows how much longer it would have taken to build a similar flood barrier using sandbags!» Fire Brigade, Lucerne/Switzerland

«In the last few years, we have achieved SEVERAL HIGHLY SUCCESSFUL DEPLOYMENTS. Without Beaver flood barriers, the damage to buildings and the financial consequences would have been much higher.» Fire Brigade Vals/Switzerland

«WE PREFER TO ACT PROACTIVELY INSTEAD OF BEING REACTIVE, that's why we bought 200m of Beaver flood barriers. Sandbags are too slow and we were often too late to protect our city and people!» Community of Eichenau/Germany

«After evaluating several systems we selected BEAVER flood barriers. The BEAVER dam is the protection we need in an emergency. IT'S EASY TO DEPLOY, FLEXIBLE, ASSEMBLY IS FAST, AND THE MATERIAL IS STRONG AND TESTED.» Community of Ertingen/Germany

AGAINST 40CM DEEP FLOOD WATERS.»

«Two months after we purchased BEAVER elements, the mobile flood barriers protected us against the rising waters of the Emme river. Thank God the water didn't enter as it did years before. Damage: 0 Swiss Franc. WE ARE VERY SATISFIED WITH BEAVER FLOOD BARRIERS!»

The Beaver[®] Storm and Flood Protection System is manufactured by Bieri Tenta AG, Grosswangen/Luzern, Switzerland. The Bieri Group employs 150 staff.

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



USING THOSE "SUPER SAUSAGES" MEANT WE SURVIVED THE FLOODS. Last week these water-filled tubes protected the Matten guarter in Berne from floods.»

Swiss daily newspaper «Blick», August, 15th 2007

«The new orange sausage system was a GREAT HELP. Using sandbags it would have taken us much longer to set up a comparable 1m-high wall.»

Swiss daily newspaper «Berner Zeitung», August, 10th 2007

«The Matten guarter in Berne struck luck big time thanks to BEAVER flood barriers. Just 3 weeks after purchasing Beaver elements, we set up Beaver flood barriers for the second time - THE DEPLOYMENT WAS A RESOUNDING SUCCESS.»

Swiss daily newspaper «Berner Zeitung», August, 10th 2007



Rothmatte 2 · CH-6022 Grosswangen Phone +41 (0)79 549 72 60 · +41 (0)79 414 77 71 www.beaver-ag.com · info@beaver-ag.com

«We were the only ones not flooded in our area. THE BEAVER FLOOD BARRIER PROTECTED US Fire Brigade RUAG, Wilderswil/Switzerland

Fire Brigade Biberist/Switzerland





Storm and **Flood Protection**





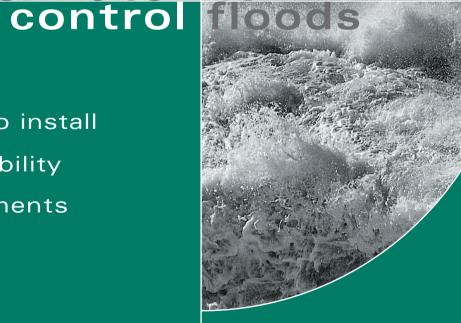




Your Distributor:

Fast assembly Flexible and easy to install Good storability Real life deployments







Uses water to control floods

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

The Beaver[®] Protection System helps to prevent or at least reduce storm and flood damage and their economic

The Beaver[®] Storm and Flood Protection System consists of two PVC tubes 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 flood 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.

In recent years, Beaver[®] flood barriers have, in over 1000 cases, protected cities and their citizens, lands and buildings. The Civil Defence appreciates the convenience Beaver® flood barriers provide for dam building in flood situations. Over 80'000 m of Beaver® flood barriers sold to date (Feb 2016) will help reduce storm and flood damage in the coming years.

Rapid Installation

A Type M50 dam measuring 500 metres (1670 feet) in length can be erected by 8 men in only 2 hours. For a comparable sandbag wall to be erected it would take many days, not taking into account the additional time required to organise, transport, fill sand bags, stack and then remove all afterwards.





Floods in Berne, 1999. Photo archive Fritz Friedli

In past years more frequent and more severe storms and floods have caused enormous economic costs – several billions alone in the worst year 2002. Due to environmental and climatic changes worldwide we expect billions of dollars of damages in the years to come.

Flexible and easy to use

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

Tight and sturdy links.

Patented draining system.







(whilst evacuating the air)

operational



Especially in storms and floods, fast assembly and erection of a dam is crucial. By stacking an additional tube the hold back capacity can be increased quickly and easily in case of an emergency.





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

Two hours after the thunderstorm in November 2005 Community of Vals/GR Switzerland





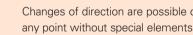
Rrotect property parts Garages, basements, staircases, entrapces.

Hold back and divert water

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

As a temporary watertank for fire

The elements adapt optimally to the terrain



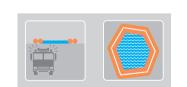
Changes of direction are possible on Specially developed hardware any point without special elements. and supplies.

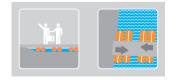


Beaver[®] dams can be stacked









Cross water

Store water

fighting vehicles.

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

Multipurpose application





Protect the landscape

Villages, towns, agriculture,

settlements.

BEAVER

PROTECTION SYST

sites, campgrounds, sport facilities.