

Storm and Flood Protection

● Flooding Reduction



BEAVER

Storms and floods cause damage which runs into millions. The economic costs 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 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 costs. The Beaver® Storm and Flood Protection System consists of two PVC tubes laid side by side permanently joined together to form a twin element.

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 100 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.



USING THOSE "SUPER SAUSAGES" MEANT

WE SURVIVED THE FLOODS. Last week these water-filled tubes protected the Matten quarter in Berne from floods

Swiss daily newspaper «Blick»

«The Matten quarter 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»

«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

	M 50	MXL 80	H 100	S 130
	Twin element, 2 hoses laid side by side permanently			2 single elements strapped together to form a twin element
Measurements				
Diameter in cm	Ø 60	Ø 90	Ø 110	Ø 150
Maximum Water Depth	50	80	100	130
Maximum Water Depth when stacked in cm (Emergency Option to increase hold back in cm)	80	125	ca. 150	ca. 190
Length in metre	5/10/20	5/10/15	5/10/15	5/10/15
Weights				
Weight of an empty 10 m element in kg	45 (Twin element)	70 (Twin element)	98 (Twin element)	80 (Single element)
Weight of a 10 m twin element filled with water in kg	7000	12 000	15 000	35 000
Fittings				
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				
Weight in g/m ²	870	1200	1200	1200
Tensile strength at 5 cm	> 410	> 540	> 540	> 540
Material	PVC laminate, coated on both sides; Temperature minus 30° until plus 70°			

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About Bramston & Associates

Since 2002, Bramston & Associates is a US service firm specialising in security and risk management across Africa. We deliver sophisticated products and services relying on a seasoned consultants team and partners leading in their specialty. Our customers face risk every day. From the hazardous processes used in their businesses to the extreme locations in which they operate, risk is an inherent part of their business. While we cannot eliminate these risks, we can establish risk management systems and solutions to protect and add value to their organisations. We deliver solutions based on facts, experience and expertise.