Take advantage of our experience

GEODESIGN / BARRIERS

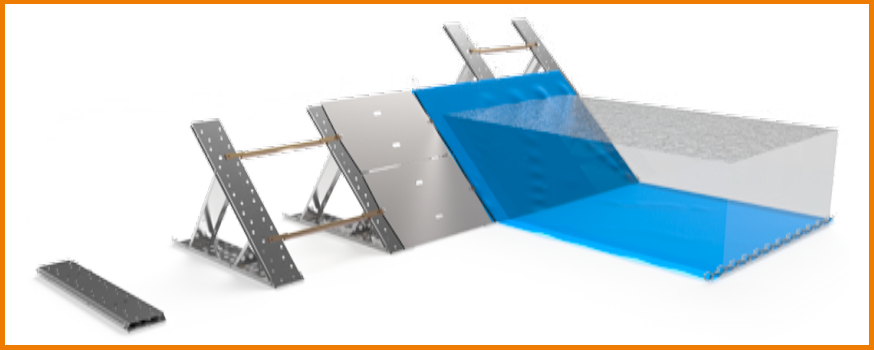
IN CIVIL ENGINEERING AND FLOOD PROTECTION

Easy and quick to deploy, no tools required – and self anchored, with no ground fixtures.

The Geodesign Barriers have been designed for flood rescue operations under the most difficult conditions imaginable. Since the start, in 1995, an increasing number of engineers, consultants and emergency planners have gained experience from our effective and flexible barrier system. We have a long, proven international record, with kilometers of barrier on the market and numerous references and case studies.

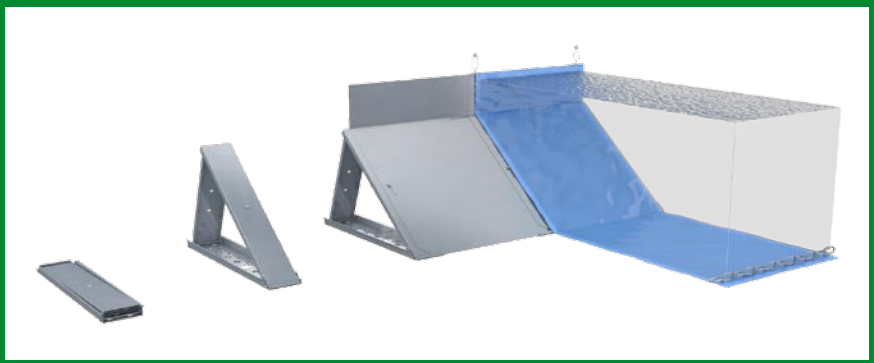
CLASSIC

This is the most popular and so far, the most purchased barrier family in our product range, with dam heights ranging from 65 cm to 240 cm. With over 15 years on the market, the EUR125 Steel Barrier tops our sale record list. The barrier is being used – and reused – by government agencies and companies across Europe, Australia/New Zealand and the U.S.



ECONOMY

Our new, lightweight and low-priced flood barrier was developed during 2015 and based on the Classic Geodesign Barriers concept. Its new innovative design means a quicker and easier deployment, increased forces to the ground, enhanced security and fewer components in the system. As with our Classic system, the barriers can be deployed manually, without the use of tools. Today, we offer three dam heights: 61 cm, 81 cm and 101 cm.



SPECIAL

Specially tailored solutions to suit specific conditions and needs. The Special Family consists of a series of barriers, each with unique benefits that solve various problems and optimise usability and costs. These barrier systems provide a wider range of solutions, one being the possibility of using your own pallets. There is also a low-cost, 45 cm dam height barrier – completely made of steel.

CLASSIC

Model	Dam height cm	c/c distance cm	Panels	Extendable cm	Comment	Corner degree	Number of corner elements for 90 degr	Weight kg/metre*
EUR65	65	123.7 122.8 123.7	Alu sheet Board sheet EUR-pallet	65 to 125/180/240	1 connection rod	45, 90	6	28.6 29.5 35.1
EUR85	85	123.7 122.8	Alu sheet Board sheet	85 to 150	1 connection rod (+1 when extended)	30, 60, 90	6	40.2 39.1
EUR100	100	123.7 122.8	Alu sheet Board sheet	100 to 150	2 connection rods (+1 when extended)	30, 60, 90	6	39.7 36.3
EUR110	100	123.7 122.8	Alu sheet Board sheet	No	2 connection rods	30, 60, 90	6	43.6 39.5
EUR125	125	123.7 122.8 123.7	Alu sheet Board sheet EUR-pallet	125 to 180/240	2 connection rods (+1 or 2 when extended)	30, 60, 90	9	51.5 53.0 71
EUR150	150	123.7 122.8 123.7	Alu sheet Board sheet CHEP-pallet	150 to 222	2 connection rods (+1 when extended)	30, 60, 90	9	66 68.6 91.1
EUR180	180	123.7 122.8 123.7	Alu sheet Board sheet EUR-pallet	180 to 240	3 connection rods (+1 when extended)	18, 36, 54, 72, 90	15	84.2 87.1 106.7
EUR240	240	123.7 122.8	Alu sheet Board sheet	No	4 connection rods	10, 20, 30, 40, 50, 60, 70, 80, 90	45	118.4 122.2

ECONOMY

Model	Dam height cm	c/c distance cm	Panels	Extendable cm	Comment	Corner degree	Number of corner elements for 90 degr	Weight kg/metre*
EUR61	61	100	Steel sheet	No	No connection rod	30, 60, 90 45,90	3 2	16.5
EUR81	81	100	Steel sheet	No	No connection rod	30, 60, 90 45,90	3 2	21.9
EUR101	101	100	Steel sheet	No	No connection rod	30, 60, 90 45,90	3 2	27.3

SPECIAL

Model	Dam height cm	c/c distance cm	Panels	Extendable cm	Comment	Corner degree	Number of corner elements for 90 degr	Weight kg/metre*
EUR45	45	125	Steel sheet	No	No connection rod	45, 90	2	14.5
EUR65	65	121	EUR pallet	No	No connection rod	45, 90	2	26.2
EUR80	80	100	Alu sheet	No	1 connection rod	30, 60, 90	3	25.8
EUR95	95	81	EUR95	No	No connection rod	30, 60, 90	6	41
EUR130	130	123.7 122.8	Alu sheet Board sheet	80 to 130	2 connection rods	30, 60, 90	6	55.0 60.2

*) All components to build the barrier, including chains but excluding package.

Värnamo 2006 - Sweden

We can all agree it is crucial to protect communities and businesses from flooding

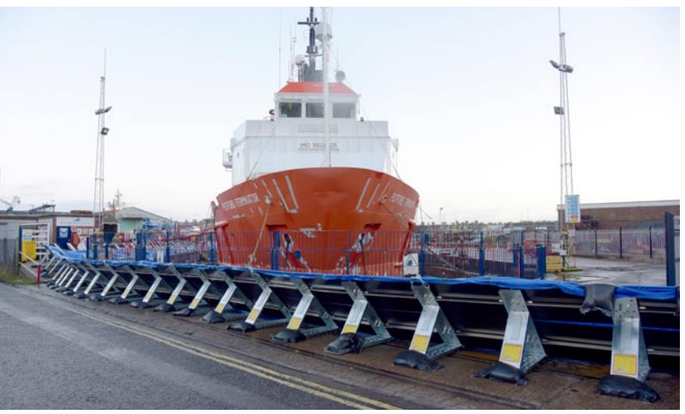
Walham, Gloucester 2007 - United Kingdom

Bristol 2014 - United Kingdom

Louvigny 2010 - France

Vresse-sur-Semois 2007 - Belgium

Waitaki/Oamaru 2009 - New Zealand



Lowestoft 2017 - United Kingdom

Without electrical power from substations, without clean water from wastewater treatment plants or gas from gas plants – everything comes to a halt, for both residents and businesses. What is vital for your family is vital for your society. When flooding strikes, a quick response using flood barriers and pumps will provide an effective protection of critical infrastructure. The barrier investment will pay off in just one flood event.

Arvika 2000 - Sweden

Corners
CLASSIC



Corners
ECONOMY



Corners
SPECIAL



Uneven
Ground



Connection
to walls



Chains and
Cable ties



Metal
Crates



Temporary
containment



Part from providing effective flood protection, the Geodesign Barriers are ideal for creating

Coffer Dams

Its rigid metal structure, large footprint and robust steel skeleton make it a perfect tool for any dewatering project.

Together with partners in the UK, Australia and New Zealand, Geodesign Barriers have been successfully installed in rivers, lakes, canals and ponds, since 2002.

Our standard depth for coffer dams is 2.4m, even though tests are being performed to reach a depth of 3m.

Are you planning canal, bridge or boat ramp repair work? Or maybe dredging, shoreline restoration or environmental remediation? Why not take advantage of the vast experience and knowledge that our partners and ourselves have gained over the years when using Geodesign Barriers for engineering work.

Biogas Plant, Linköping

Contact our coffer dam partner

Bosham

Clayton

River Ilm

Sludge basin

Needham Mill

Temple lock

Sankey Viaduct

Waiuku Stream

Walley

Opawa Bridge

Black Water

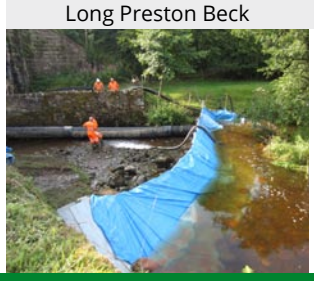
Dunedin

Hebden Bridge

Wattle Farm

Wattle Farm

Long Preston Beck



Toowomba

New Tredegar

Framework Partner and Supplier of Temporary Flood Barriers to the Environment Agency

The Geodesign Barrier system was introduced to the UK in 2001, just after having been awarded the Nova Award, by Construction Innovation Forum, Ann Arbor University, Michigan, USA. This was the year after the great 2000 flood, when Yorkshire, South England, Wales and Shropshire were under water.

At Geodesign Barriers, we listen to our customers and the barrier system is continuously further developed and improved. Our barriers are now being used a lot more frequently across the UK, not only by the Environment Agency but also by Local Authorities and infrastructure companies.

The simplicity of the system, together with its easy and quick deployment, outstanding performance and track record, has created a continued interest in our technology, from both its users and the media.

In 2016, Geodesign Barriers Ltd, was awarded a four year flood defence framework agreement, set up by the Environment Agency. As a trusted partner, Geodesign will supply temporary flood barriers and training to help this governmental body improve its future flood response capability.

After many years of working closely together with the EA, we are delighted and proud that Geodesign Barriers has been awarded the commission as primary provider of temporary flood barriers in the United Kingdom.

BSI Kitemark

As part of the efforts in the UK, Geodesign Barrier was awarded the BSI Kitemark for Temporary Flood Barriers, PAS 1188:2 in May 2003, which was renewed in 2009. The BSI Kitemark is a widely recognized quality symbol in the UK. Since then, Geodesign AB has continuously – and successfully – undergone yearly BSI audits of its flood barrier production.

Pumps, Drain Block Sets and Training

Already in the mid 1990s, we realised how important it is to use effective pumps, blocking drains and gullies when deploying the barriers. The high flexibility of the system makes it possible to protect almost any building or infrastructural asset, but even though it is very straightforward to deploy the barrier, it is crucial to provide practical training and refreshers, for best practice. Although the barrier itself is water tight, the ground underneath is ordinary soil and will transport water from the wet side to the dry side of the barrier, due to the hydraulic gradient under flood conditions. Therefore, together with barrier deployment training, there is a need for high capacity pumps and drain block sets. Combine all these factors and you stand a good chance to keep properties dry.

The new Geodesign Supertwin 3000 Diesel and Supertwin 6000 Petrol are developed especially to cope with flood water. They can be handled by one person and have a high capacity: 3,000 litres/min and 6,000 litres/min.

Please contact: