SPECIFICATIONS

GEO-Inero Flood Barrier H80 (height 0.8m)
Material: Seawater-resistant 3mm marine-grade aluminium EN-AW-5754 H22
Dimensions: 1010 x 890mm. Plus a 100mm lip on one short side and a 110mm lip on one long side.
Weight: 8.4kg

SUPPORT LEGS
Material: Aluminium profile
Dimensions: 715 x 120 x 20mm
Weight: 1kg

FOOT BEAM
Material: 1.5mm steel Magnelis
Dimensions: 783 x 174/164mm
Weight: 1.7kg

CORNER SECTION
Three 30° corners make a 90° corner
Material: Seawater-resistant 3mm marine-grade aluminium EN-AW-5754 H22
Dimensions: 820/450 x 1010 x 3mm OUTER, 620/450 x 1010 x 3mm INNER
Weight: 4.6kg OUTER, 3.5kg INNER

GEO-INERO
H80 FLOOD BARRIER

GEO-Inero's patented flood barrier is designed to withstand water levels up to 0.8m. A sturdy, durable barrier with quick connectors for easy, time-saving installation.

GEO-Inero flood barrier sections, support legs and foot beam are made of seawater-resistant marine-grade aluminium. The material has high durability and withstands extremely tough outdoor conditions. The sections are erected using a sturdy support leg with a with a conical foot beam. The unique shape of the foot beam, combined with the integrated gripping teeth, guarantees extra stability and an optimal grip on all sorts of substrates. The sections interlock using a patented quick connector to form a continuous, flexible barrier that adapts to the substrate. GEO-Inero flood barriers are suitable for all common substrates, such as concrete, grass, gravel and asphalt. They can also be curved 90° through the use of corner sections – outer and inner corners of 30°. The barriers stop and withstand both standing and rushing water and can be assembled directly in the water as long as the water level is no more than 0.3m.

ASSEMBLES IN FOUR EASY STEPS
GEO-Inero flood barriers are easy to assemble, even with no previous knowledge. Two people can install 100 metres of complete barrier in 90 minutes.

1. **Affix the foot beam to the support leg.**
2. **Connect the barrier sections with the quick connector. It is easiest to do so from left to right.**
3. **Affix the support legs and the foot beam to the barrier section. The two galvanised screws and pre- mounted nuts fit into keyhole slots on the long side of the barrier. Adjust by hand or using a spanner.**
4. **Roll the specially designed polyethylene membrane over the barrier framework, attach with clips on the top edge, anchor at the bottom with sandbags or heavy chains.**

LOGISTICS

Lightweight materials and innovative design contribute to low weight and good stackability, which simplifies storage and transport. One cargo pallet or one galvanised steel specially designed pallet will hold 100 metres of H80 barrier. A 20 foot cargo container can hold 700 metres.

The standard configuration of one pallet of GEO-Inero flood barriers, such as the H80, is as follows: 100 metres of barrier sections, support legs and foot beams for 100 metres (116 pcs each), a plastic box of 200 plastic clips and user manual, screws with pre-mounted nuts and one spanner, polyethylene membrane for 100 metres. Total weight for one steel pallet with 100 metres of barrier: 1500kg.

The steel pallet is specially designed to allow ergonomic and user-friendly installation of the barrier with the barrier plates standing on end and the material accessible from both sides. Two teams can work in tandem to install the barrier quickly. After use, simply clean the barrier and reload the sections onto the pallets for reuse.

TESTING

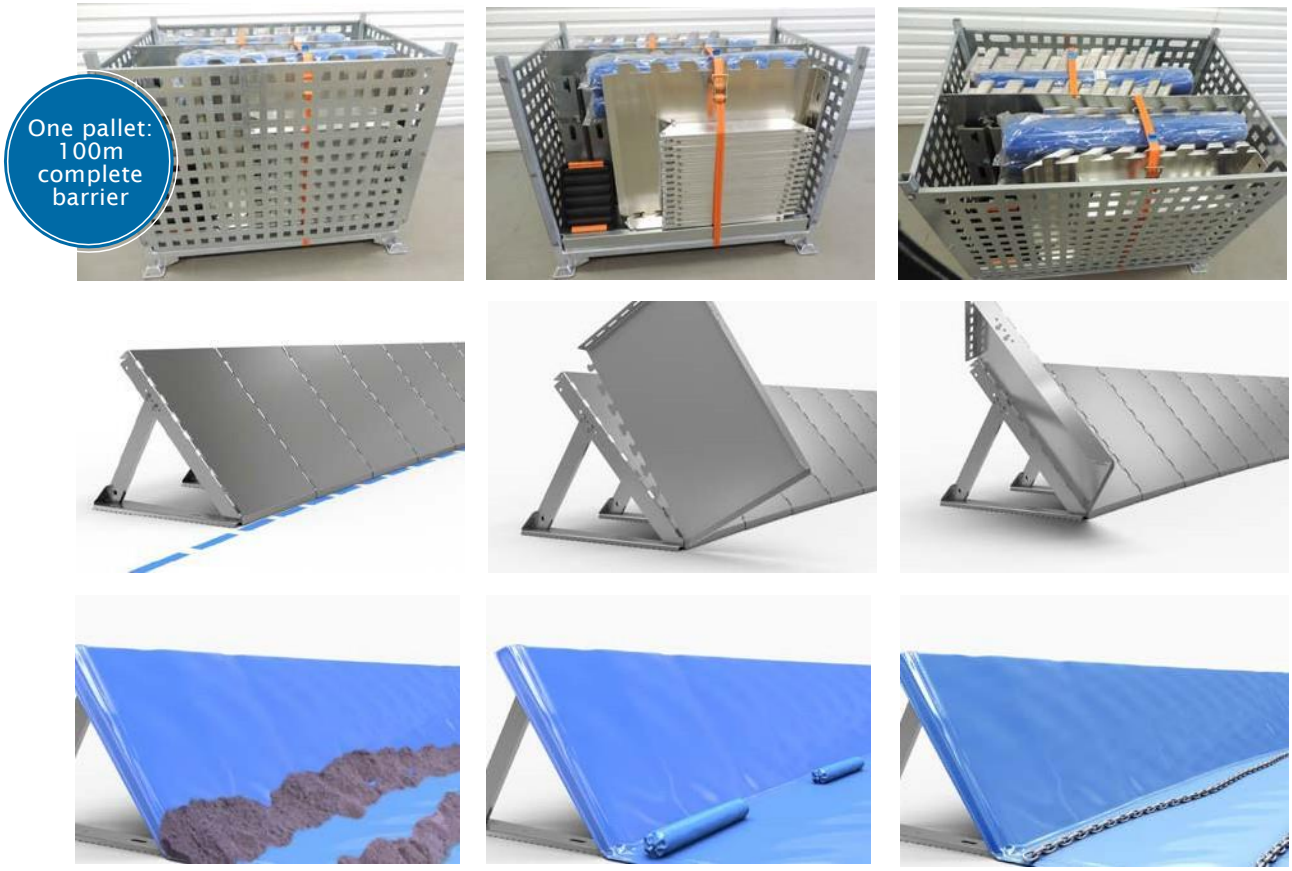
Together with strength calculations and simulations independent third party institutes in Germany* and the UK* have tested the GEO-Inero flood barrier. The tests investigated the barrier's stability, performance, leakage rate and impact resistance with good results. The end results showed that the barrier stands stable at full water pressure of one meter and while over-topping, stands stable after the impact of heavy logs, is easy to install and has a leakage rate below 40 l/h/m both after 1 hour and after 18/22 hours.

ENVIRONMENT

GEO-Inero H80 flood barriers are designed with minimal materials. Their low weight also means reduced carbon emissions from transport. The barriers have an extremely long service life and are 100% recyclable. The polyethylene membrane is single-use only and is suitable for eco-friendly incineration.

*Wasserbau's institute and Hamburg University of Technology and HR Wallingford

GEO-Inero flood barriers are also available in 0.5m, 1.0m, 1.5m and 1.8m heights. The size of the quick connector is the same regardless of height, which means that different barriers can be interconnected.



The photos above show the GEO-Inero transport and storage system, the installation principle and different ways of anchoring the membrane (sand, sandbags and heavy chains).

GEO INERO FLOOD PROTECTION

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