SPECIFICATIONS

INERO™ FLOOD BARRIER H 100
(height 102 cm)
Material: Seawater-resistant 4 mm marine-grade aluminium EN-AW-5754 H22.
Dimensions: 1 340 x 880 mm. Plus a 90 mm lip on one short side and a 110 mm lip on one long side.
Weight: 14.6 kg

SUPPORT LEGS
Material: Aluminium profile
Dimensions: 873 x 120 x 30 mm
Weight: 2.1 kg

FOOT BEAM
Material: 4.0 mm marine-grade aluminium
Dimensions: 1 125 x 250/150 mm
Weight: 2.6 kg

CORNER SECTION
Three 30° corners make a 90° corner.
Material: Seawater-resistant 4 mm marine-grade aluminium EN-AW-5754 H22.
Dimensions: 1 321 x 845/450 x 4 mm OUTER, 1 321 x 803/450 x 4 mm INNER
Weight: 8,9 kg OUTER, 8,8 kg INNER

INERO™
FLOOD BARRIER H 100

Inero's patented flood barrier is designed to withstand water levels up to 100 cm. A sturdy, durable barrier with quick connectors for easy, time-saving installation.

INERO™ flood barrier sections, support legs and foot beams 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 aluminium support leg 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. 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 30 cm.

ASSEMBLES IN FOUR EASY STEPS

INERO™ flood barriers are easy to assemble, even with no previous knowledge. Six people can install 100 metres of complete barrier in about an hour.

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 tool.**
4. **Roll the specially designed polyethylene membrane over the barrier framework, attach with clips on the top edge, anchor at the bottom with sand/gravel, sandbags or heavy chains.**

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FLOOD PROTECTION

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LOGISTICS

Lightweight materials and innovative design contribute to low weight and good stackability, which simplifies storage and transport. Two cargo pallets or two specially designed pallets in galvanised steel will hold 100 metres of H 100 barrier. A 20 foot cargo container can hold 350 metres.

The standard configuration of one pallet of INERO™ flood barriers, such as the H 100, is as follows:

50 metres of barrier sections, support legs and foot beams for 50 metres, a plastic box of 100 plastic clips and user manual, screws with pre-mounted nuts and one spanner, and polyethylene membrane for 50 metres. Total weight for one steel pallet with 50 metres of barrier: 1.3 tonnes

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.

After use, simply clean the barrier and reload the sections onto the pallets.

TESTING

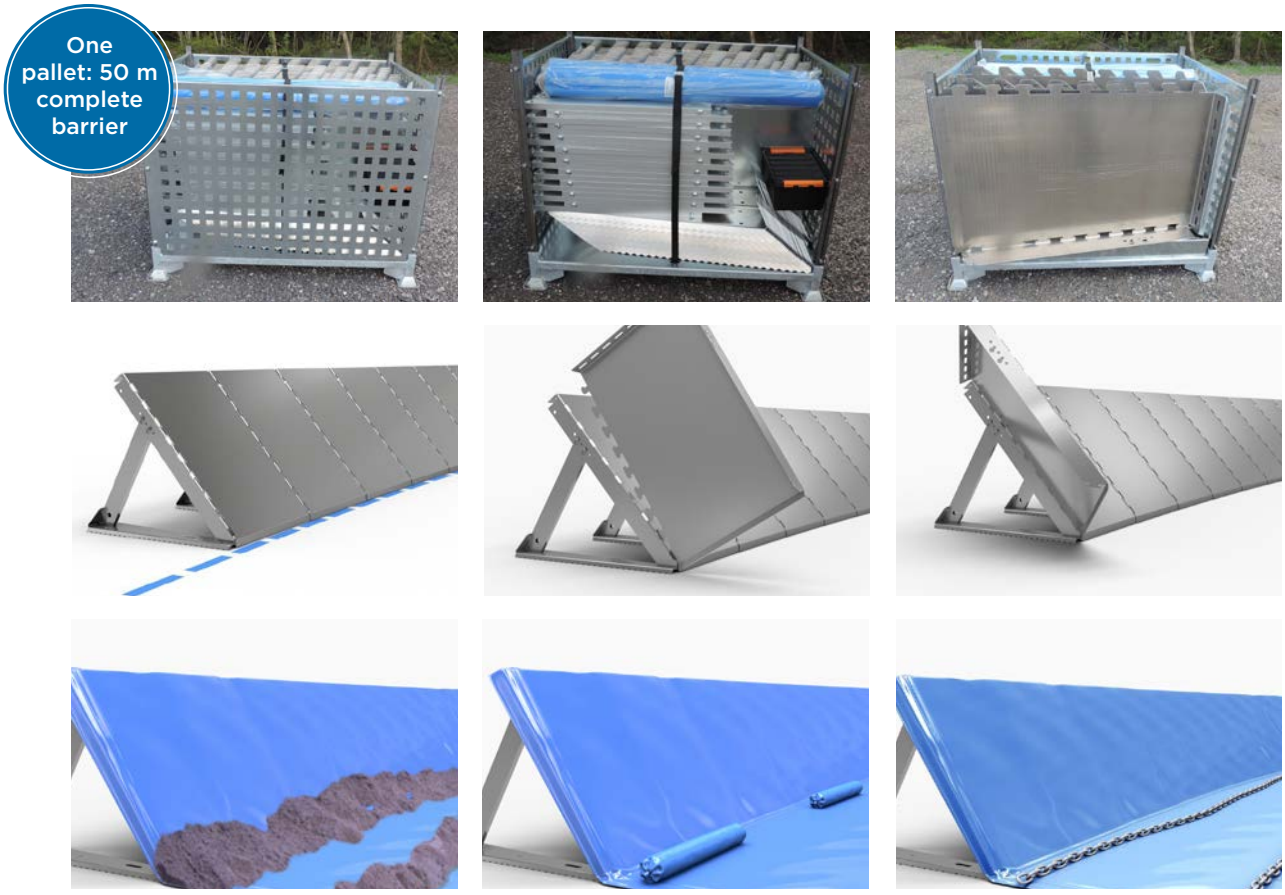
Together with strength calculations and simulations independent third party institutes in Germany* and the UK* have tested the Inero barrier. The tests investigated the barrier's stability, performance, leakage rate and impact resistance with good results. The end results showed that the barrier stands stable at full water pressure of one meter and while overtopping, 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

INERO™ low 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

INERO™ flood barriers are also available in 80 cm, 150 cm and 180 cm height. 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 Inero transport and storage system, the installation principle and different ways of anchoring the membrane (sand, sandbags and heavy chains).

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