

INERO™

TECHNICAL SPECIFICATION

INERO FLOOD BARRIER H150+20



Height: 170 cm. 150 cm + 20 cm, withstand water levels up to 171 cm.

BARRIER SECTION

Material	Seawater-resistant T = 5 mm marine-grade aluminium EN-AW-5754 H2
Dimensions	2 170 x 755 mm Plus a 103 mm lip on one short side and a 121 mm lip on one long side.
Weight	24,96 kg

EXTENSION

Material	Seawater-resistant T = 5 mm marine-grade aluminium EN-AW-5754 H22
Dimensions	714 x 235/90 mm
Weight	2,6 kg

SUPPORT LEG

Material	MAGNELIS S350GD+ZM310 T = 1,5 mm
Dimensions	1 296 x 180 x 30 mm
Weight	5,6 kg

FOOT BEAM

Material	FZV DX51D+Z275 T = 1,5 mm
Dimensions	1 774 x 330/230 mm
Weight	7,4 kg

CORNER SECTION

	Four 22,5° corners make a 90° corner
Material	Seawater-resistant T = 5 mm marine-grade aluminium EN-AW-5754 H22
Weight per complete section H150+20	38,5 kg

TOTAL WEIGHT

per meter of barrier H150+20	57,30 kg
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MEMBRANE	
Material	polyethylene membrane
Dimensions membrane	2 x 1 850 x 0,25 mm
No. of meters per roll	30 lpm
Dimensions roll	1 350 mm x 120 mm
Weight per roll	Ca. 25 kg
Other	UV proof, special mix to stay "soft" and strong even when low temperatures
HEAVY CHAIN	
Length per galvanized chain	5 meters
Weight	14 kg/pcs
Other	Includes a carabinier to facilitate fixation of the chain
STEEL PALLETS & STORAGE	
Material	Galvanized steel
Dimensions steel pallet 1 (25 m of barrier)	2 300 mm x 1 100 mm x 1 000 mm
Weight per pallet:	1 525 kg
Dimensions steel pallet 2 (extensions approx. 400 m)	1 500 mm X 1 000 mm X 1 100 mm
Weight per pallet	1 200 kg
Dimensions steel pallet 3 (heavy chains 400 m)	1 500 mm x 1 000 mm x 600 mm
Weight per pallet	1 200 kg
Stackable pallets for chain:	Yes 5 high
Storage - floor space	1 pallet: 2,5 m ² , 2 pallets: 2,5 m ²
No of meters of barrier in one 20 ft container	6 pallets x 25 mts, total 150 m (excl. extensions)
SECURITY AND CERTIFICATION	
Independent test institute	Wasserbau Institute, Harburg, GermanyHS Wallingford, Wallingford, UK Swedish Authorities MSB, Karlstad, Sweden. Products tested: H80 and H100.
Load test	Yes, without any deformation
Leakage rate	Yes, < 40 liters/meter/hour
Long term leakage rate, 22 hrs	Yes, < 40 liters/meter/hour
Overtopped in test	Yes, with remained stability
Impact test, weight	Log 225 kg, Log 400 kg
Impact test, velocity	1,5 m/s, 2 m/s, 2,5 m/s
Impact test, results	No loss of functionality detected, system remained stable after all impacts
Wave test	HR Wallingford, UK
Simulation	Yes, separate report Veproxx Sweden, Uniso Technologies Sweden
Safety factor	H150, SF=2,10, H150+20, SF=1,9
Friction Coefficient	The friction coefficient between the barrier and the tarpaulin is assumed to 0.15
Tensile strength per quick connectors	1 100 N
No. of quick connectors	15 per section
Tested in real situation	YES, several times in Sweden, UK, Germany, Balkan
INSTALLATION	
Installation without any extra substructures nor special tools	YES, only need of a hand tool as a spanner
Time for installing 100 meters of barrier (by 6 people)	1 hrs
Installation on different types of substrates (asphalt, soil, grass, gravel, concrete)	Yes



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