

# INERO™

## TECHNICAL SPECIFICATION

### INERO FLOOD BARRIER H100+20



Height: 121 cm - to stop water levels up to 121 cm

#### BARRIER SECTION

|                   |   |
|-------------------|---|
| <b>Material</b>   | Seawater-resistant 4 mm marine-grade aluminium EN-AW-5754 H22                           |
| <b>Dimensions</b> | L=1250 x W=880 mm. Plus a 90 mm lip on one short side and a 110 mm lip on one long side |
| <b>Weight</b>     | 14.6 kg   |

#### EXTENSION

|                   |   |
|-------------------|---|
| <b>Material</b>   | Seawater-resistant 4 mm marine-grade aluminium EN-AW-5754 H22 |
| <b>Dimensions</b> | L=230 x W=828 mm  |
| <b>Weight</b>     | 2,6 kg  |

#### SUPPORT LEG

|                   |                   |
|-------------------|-------------------|
| <b>Material</b>   | Aluminium profile |
| <b>Dimensions</b> | 873 x 120 x 30 mm |
| <b>Weight</b>     | 2.1 kg            |

#### FOOT BEAM

|                   |                               |
|-------------------|-------------------------------|
| <b>Material</b>   | 4.0 mm marine-grade aluminium |
| <b>Dimensions</b> | 1 125 x 250/150 mm            |
| <b>Weight</b>     | 2.6 kg                        |

#### TOTAL WEIGHT

|  |                    |
|--|--------------------|
| <b>Total weight per complete section/per meter</b> | 21,90 kg/ 24,90 kg |
| <b>Total number of barrier sections/100 m</b>      | 116 pcs            |

|                       |  |
|-----------------------|--|
| <b>CORNER SECTION</b> | Three 30° corners make a 90° corner                          |
| <b>Material</b>       | Seawater-resistant 4 mm                                      |
| <b>Dimensions</b>     | 1 321 x 845/450 x 4 mm OUTER<br>1 321 x 803/450 x 4 mm INNER |
| <b>Weight</b>         | 8,9 kg OUTER<br>8,8 kg INNER                                 |

|                               |  |
|-------------------------------|--|
| <b>MEMBRANE</b>               |  |
| <b>Material</b>               | polyethylene membrane  |
| <b>Dimensions membrane</b>    | 2 x 1350 x 0,25 mm   |
| <b>No. of meters per roll</b> | 30 lpm   |
| <b>Dimensions roll</b>        | 1350 mm x 120 mm   |
| <b>Weight per roll</b>        | 20 kg  |
| <b>Other</b>                  | UV proof, special mix to keep "soft" and strong in all weather situation, incl. cold temperatures. |

|                             |  |
|-----------------------------|--|
| <b>HEAVY CHAIN</b>          |  |
| <b>Dimensions per chain</b> | 5 m x 12 mm  |
| <b>Weight</b>               | 15 kg (3 kg/m)   |
| <b>Other</b>                | Includes a carabiner to facilitate fixation of the chain |

|   |                             |
|---|-----------------------------|
| <b>STEEL PALLETS &amp; STORAGE</b>              |                             |
| <b>Material</b>                                 | Galvanized steel            |
| <b>Dimensions steel pallet 1 (barrier)</b>      | 1500 mm x 1000 mm x 1100 mm |
| <b>No. meters per pallet</b>                    | 50 m                        |
| <b>Storage space for 100 m</b>                  | 3,5 m <sup>3</sup>          |
| <b>Weight per pallet</b>                        | 1300 kg                     |
| <b>Dimensions steel pallet 2 (extensions)</b>   | 1500 mm x 1000 mm x 1100 mm |
| <b>Weight per pallet</b>                        | 1200 kg                     |
| <b>Dimensions steel pallet 3 (heavy chains)</b> | 1500 mm x 1000 mm x 600 mm  |
| <b>Weight per pallet</b>                        | 1200 kg                     |
| <b>Stackable pallets</b>                        | Yes                         |

|   |   |
|---|---|
| <b>SECURITY AND CERTIFICATION</b>                 |   |
| <b>Independent test institute</b>                 | Wasserbau Institute, Harburg, Germany<br>HS Wallingford, Wallingford, UK    |
| <b>Load test</b>                                  | Yes, without any deformation  |
| <b>Leakage rate</b>                               | Yes, < 40 liters/meter/hour   |
| <b>Long term leakage rate, 22 hrS</b>             | Yes, < 40 liters/meter/hour   |
| <b>Overtopped in test</b>                         | Yes, with remained stability  |
| <b>Impact test, weight</b>                        | Log 225 kg, Log 400 kg  |
| <b>Impact test, velocity</b>                      | 1,5 m/s, 2 m/s, 2,5 m/s   |
| <b>Impact test, results</b>                       | No loss of functionality detected, system remained stable after all impacts |
| <b>Wave test</b>                                  | HR Wallingford, UK  |
| <b>Simulation</b>                                 | YES, separate report Vepro, Sweden, Uniso Technologies, Sweden              |
| <b>Safety factor</b>                              | 2,7   |
| <b>Tensile strength per quick connectors</b>      | 8000 N  |
| <b>No. of quick connectors</b>                    | 8 per section   |
| <b>Total tensile strength between the section</b> | 64 000 N  |
| <b>Tested in real situation</b>                   | YES, several times in Sweden, UK, Germany, Balkan                           |

|   |  |
|---|--|
| <b>INSTALLATION</b>   |  |
| <b>Installation without any extra substructures nor special tools</b>                         | YES, only need of a hand tool as a spanner |
| <b>Time for installing 100 meters of barrier (by 4 people) H100</b>                           | 1 hrs                                      |
| <b>Time for installing 100 meters of extension (by 1 people)</b>                              | 1 hrs                                      |
| <b>Installation on different types of substrates (asphalt, soil, grass, gravel, concrete)</b> | Yes  |

Producer and head office In Sweden



Distributor for Canada

