

Technical Leaflet

General dimensions and weight

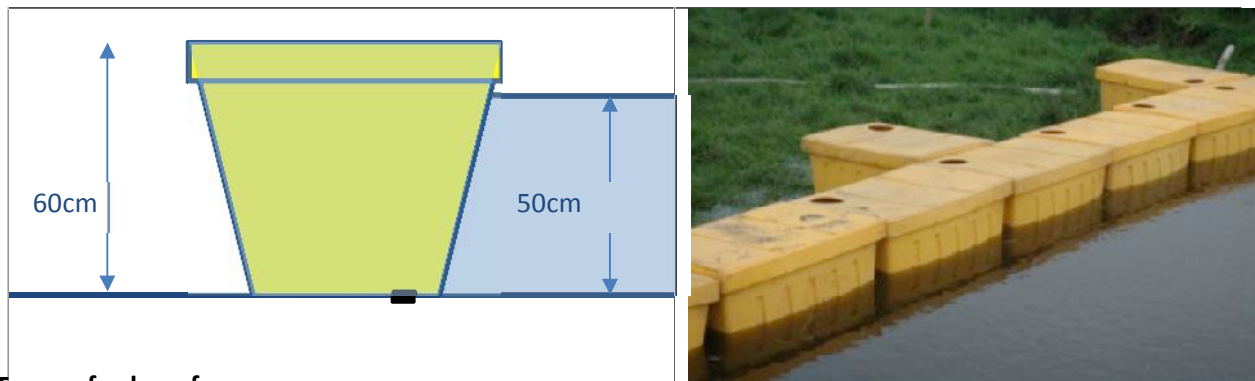
L x h x w = 90cm x 60cm x 60cm

Weight Box (empty): 8.3kg; weight lid: 3.4 kg; weight joint element: 1.5 kg

Weight (completely filled with water) ± 273 kg

Maximum water retaining height:

50cm (BoxBarriers completely filled with water). The water retaining height is dependent on the type and inclination of the subsoil. When required, support boxes or joint elements can be added at the rear of the barrier (as shown in the photograph below). The use of support boxes is also advised in the case of wave action, strong currents and possible impact of floating debris.



Types of sub-surfaces:

The BoxBarrier® can be placed on grass on peat, grass on clay, clay, asphalt pavement and concrete pavement. In case of concrete pavement blocks, the joints between the blocks should be sealed to avoid excessive leakage through the pavement and washout of sand. (also an additional membrane can be applied in this case).

Filling:

The BoxBarriers can be filled by a water pump. Normal pumping rates are 30-60 m³/hour

Placement rate:

A placement rate of 100 m/hour can be achieved with a team of 3 persons with the Boxbarriers supplied at the location of placement.

Leakage:

The BoxBarrier is TUV certified under certificate number 2400-B-154. The leakage of the BoxBarrier is < 0.25 m³/hour/m on a level asphalted surface. A leakage rate of 10-15 m³/hour/100m has been determined from a test by Waterboard Waternet in the Netherlands on a peat subsoil.

Material specifications:

The BoxBarriers are made from UV stabilized polyethylene. The BoxBarriers can be fully recycled. A neoprene rubber seal is applied at the underside.

