

# Breakwater

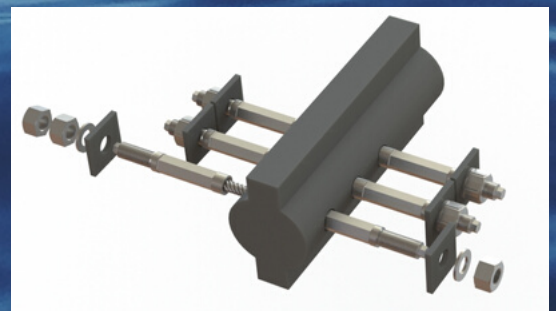
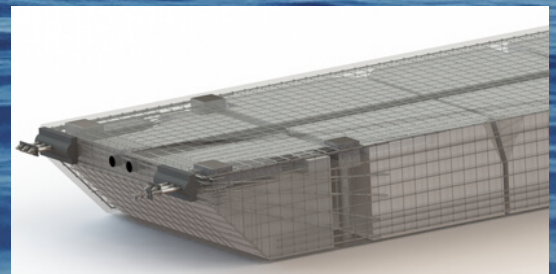
## Technical Specification Sheet



Inland and Coastal Marina Systems Ltd. have been developing breakwaters for over 20 years. The main function of breakwaters is to attenuate waves to an acceptable level so that sheltered berthing can be provided. Breakwaters also offer clients the option to provide a berthing facility for boats in exposed conditions.

### Uses

- Attenuation of waves to protect inner berthing
- Berthing of Ferries
- CTV Berthing for offshore windfarms O&M bases
- Superyacht Berthing
- Berthing of large work vessels
- High Capacity Floating Public Walkways
- Floating House Boat Bases



### Benefits

- Excellent wave attenuation properties with a detailed analysis of all sites offered
- High yield stainless steel wire rope and IRHD 70 rubber buffers combining both high strength and high flexibility.
- C50/60 concrete offering a high strength unit
- Galvanised Reinforcing Steel with Concrete Cover provided in accordance with exposure classifications ensuring longevity of product
- Glass Reinforced Concrete Base Skin to protect the floats from damage and prevent buoyancy loss
- Mooring Boxes cast into the unit for making mooring line connections at deck level eliminating dive work in both installation and maintenance







## Technical Information

### **Live Loading**

4kN/m<sup>2</sup>

### **Design Codes**

BS6349 & Eurocode 2

### **Concrete**

C50/60

### **Steel & Reinforcement**

Designed to Eurocode 2, Hot Dipped Galvanising to EN ISO1461

### **End to End Connections**

6x40T Min. SWL - Stainless Steel Connectors (per joint) with 2Nr. IRHD 70 Rubber Buffers

### **Side to Side Connections**

High Tensile Threaded Bars with Elastomeric Bearings

### **Fendering**

Hardwood timber, extruded rubber profiles, recycled plastic, PVC, composite fenders

### **Surface Finish**

Top surface with non-slip brush finish

### **Mooring**

External Piles, Internal Piles or Mooring Systems using Mooring Hooks or Mooring Tubes

### **Floatation**

500mm - 1000mm Freeboard; 15kg/m<sup>3</sup> Polystyrene Floats with a Grade 18 GRC Base Skin