

## Floating Applications with Floatmaster

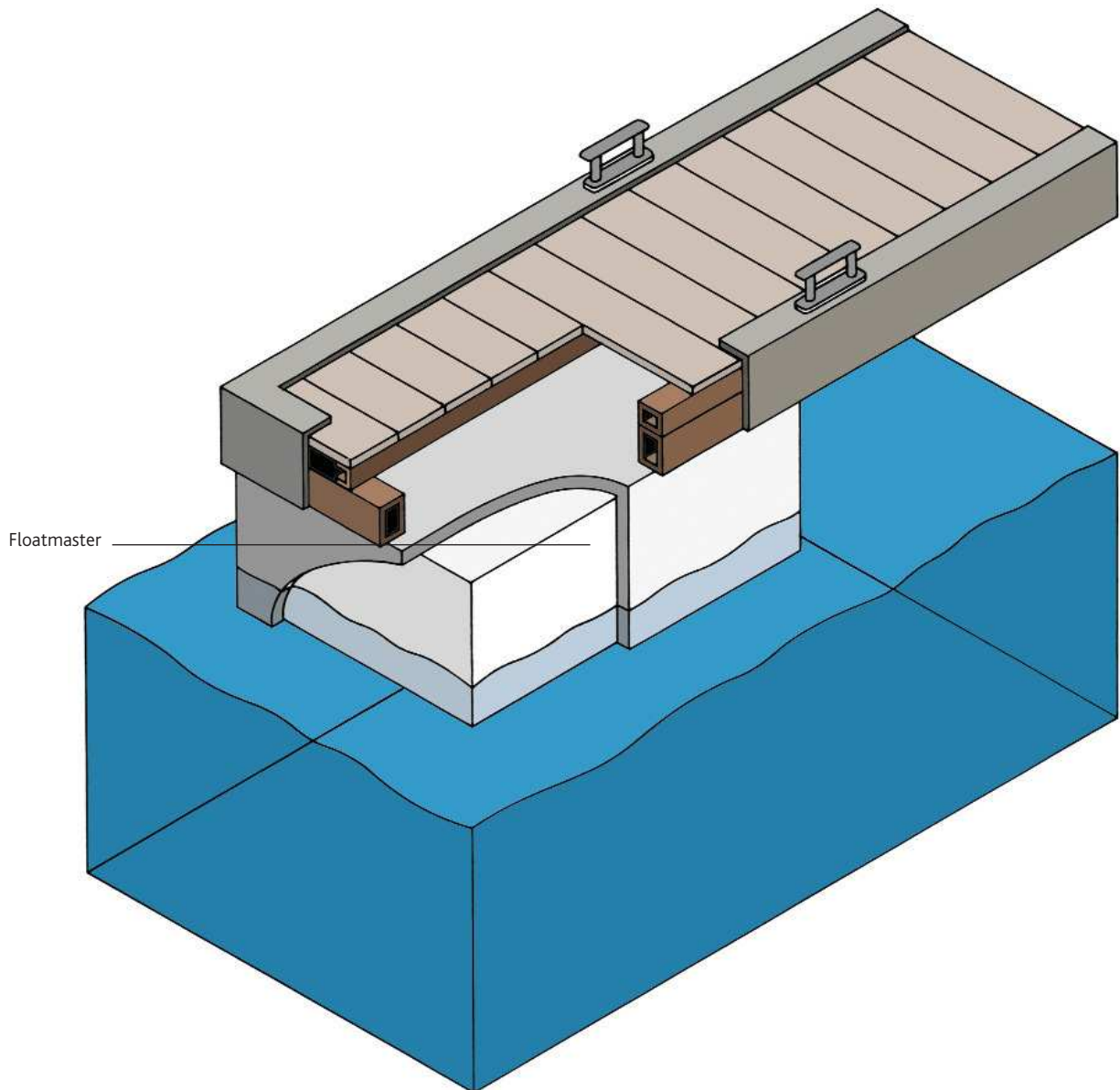
Table 1

Thickness	U-value					
	0.25 W/m <sup>2</sup> K	0.27 W/m <sup>2</sup> K	0.28 W/m <sup>2</sup> K	0.29 W/m <sup>2</sup> K	0.30 W/m <sup>2</sup> K	0.31 W/m <sup>2</sup> K
100	0.04	0.04	0.04	0.04	0.04	0.04
125	0.04	0.04	0.04	0.04	0.04	0.04
150	0.04	0.04	0.04	0.04	0.04	0.04
175	0.04	0.04	0.04	0.04	0.04	0.04
200	0.04	0.04	0.04	0.04	0.04	0.04
225	0.04	0.04	0.04	0.04	0.04	0.04
250	0.04	0.04	0.04	0.04	0.04	0.04
275	0.04	0.04	0.04	0.04	0.04	0.04
300	0.04	0.04	0.04	0.04	0.04	0.04
325	0.04	0.04	0.04	0.04	0.04	0.04
350	0.04	0.04	0.04	0.04	0.04	0.04

# Floating Applications

Floatmaster is manufactured from EPS, a closed cell material which offers a high buoyancy factor – approximately  $900\text{kg/m}^3$  when submerged to water level. This makes allowance for self weight and limited water uptake. This performance has made Floatmaster an ideal material for the construction of marina pontoons and floating safety booms.

Figure 28. Marina Pontoon



# Floatmaster



**Tate Gallery**

## Tate Gallery

The remarkable buoyancy of Floatmaster meant it was chosen as the ideal product when building the new Millbank Millennium Pier on the River Thames, linking London's Tate Britain and Tate Modern Galleries. Incorporated into the new pier's Pontoon, Floatmaster provides the required buoyancy with maximum safety, as it cannot be punctured or become waterlogged. A further advantage of using Floatmaster is that inspection manholes are not required for each buoyancy compartment, as they would be in a traditional structure. They are extremely costly to install and interfere with the floor covering system on the deck, whereas in this case a rubber floor surface was laid, without the need for complicated cutting around manholes. Approximately 330m<sup>3</sup> of Floatmaster 70 was used in the new pier construction, which measures 40m x 13m x 2.4m, and factory cut by Vencel Resil to fit in tightly packed segments below the floor deck. Mr. Kevin Kelly, Managing Director of K & N Welding Ltd, the new pier's design and build contractor stated that "Safety is always a crucial factor in Pontoon design and it is much less expensive to achieve safety when using Floatmaster. Substantial savings were made than with a conventional approach. Floatmaster is easy to use and cost effective, guaranteeing safety and allowing steel to be used as it should be, for rigidity and strength, instead of flotation."

**Client:** London River Services  
**Consulting Engineer:** Marks Barfield Architects/Beckett Rankine Partnership  
**Contractor:** K and N Welding Ltd  
**Volume:** 330m<sup>3</sup>



**Woolwich Pontoon**

## Woolwich Pontoon

The regeneration of the Greenwich Docklands area, in particular the creation of a Pontoon to promote the use of pleasure crafts and commuter service on the river Thames has proved a remarkable success for Vencel Resil's revolutionary, highly buoyant Floatmaster.

The new Pontoon had to be cost effective and comply with stringent safety regulations in terms of its ability to stay afloat, creating a safe platform for a full complement of passengers and in addition to withstand being punctured by passing boats. River and Marine Ltd, the designer of the Pontoon, under normal circumstances would have had to create 26 separate watertight chambers, consisting of numerous and very expensive heavy steel bulkheads and plates. However by recommending Vencel Resil's unique Floatmaster 70 product, the cost saving was an outstanding 50% without any reduction in quality, strength, stability or in safety measure. The Pontoon measures 32 metres by 10 metres and filled with 531m<sup>3</sup> of Floatmaster 70 and constructed by packing the blocks of Floatmaster tightly together within a steel frame, forming a stable, watertight and solid buoyant structure.

**Client:** Greenwich Borough Council  
**Consulting Engineer:** River and Marine Ltd  
**Contractor:** K and N Welding Ltd  
**Volume:** 531m<sup>3</sup>

# Floors | Walls | Roofs

Table 2.1

Thickness	U-values					
	0.25 W/m <sup>2</sup> K	0.22 W/m <sup>2</sup> K	0.20 W/m <sup>2</sup> K	0.18 W/m <sup>2</sup> K	0.15 W/m <sup>2</sup> K	0.10 W/m <sup>2</sup> K
100	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0
200	0.0	0.0	0.0	0.0	0.0	0.0
250	0.0	0.0	0.0	0.0	0.0	0.0
300	0.0	0.0	0.0	0.0	0.0	0.0
350	0.0	0.0	0.0	0.0	0.0	0.0
400	0.0	0.0	0.0	0.0	0.0	0.0
450	0.0	0.0	0.0	0.0	0.0	0.0
500	0.0	0.0	0.0	0.0	0.0	0.0
550	0.0	0.0	0.0	0.0	0.0	0.0
600	0.0	0.0	0.0	0.0	0.0	0.0
650	0.0	0.0	0.0	0.0	0.0	0.0
700	0.0	0.0	0.0	0.0	0.0	0.0
750	0.0	0.0	0.0	0.0	0.0	0.0
800	0.0	0.0	0.0	0.0	0.0	0.0
850	0.0	0.0	0.0	0.0	0.0	0.0
900	0.0	0.0	0.0	0.0	0.0	0.0
950	0.0	0.0	0.0	0.0	0.0	0.0

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