

## **Specification to eliminate or reduce thermal bridge at the junction of a timber-frame wall with the floor**

<b>Product ref:</b>	<b>Marmox Thermoblock (Standard Type)</b>
<b>Manufacturer:</b>	<b>Marmox Ltd</b>
<b>Address:</b>	<b>Marmox UK, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP.</b>

**Description:** Marmox Thermoblock is a load-bearing heat-insulating building block. It is positioned at the foot of a load-bearing or non-load bearing walls to eliminate/reduce the cold bridge or at the top of the wall at the roof/ceiling junction to address the cold bridge there. Marmox Thermoblock consists of two rows of load-carrying epoxy-concrete columns of low thermal conductivity bonded to polymer concrete layers reinforced with fibreglass mesh which comprise the upper and lower surfaces. Thermally insulating Extruded Polystyrene surrounds the columns.

**Dimensions:** Length = 600mm, Thickness = 65mm (100mm upon request),  
Width = 100mm, 140mm or 215mm

**Product Use:** Elimination/Reduction of cold bridge at the junction of a timber framed wall with the floor.

### **Typical Design:**

**Position Marmox Thermoblock (600mm x 100mm/140mm/215mm x 65mm) on the floor at the base of the wall beneath the sole plate using conventional sand/cement mortar. Seal the blocks together by placing a ribbon of Marmox Multibond on the stepped edges to provide a waterproof barrier. Fix the sole plate mechanically to the floor by bolting through the Thermoblock halfway across its width (i.e. 50mm, 70mm or 107mm) into the concrete below.**

**Prior to inserting the bolt, squirt sufficient Multibond into the hole so waterproof it.**

**Apply a single ribbon of Marmox Multibond to the surface of the Thermoblock so it adheres to the underside of the sole plate.**

**Properties:** Average  $\lambda$  value of 0.047W/mK (to EN13164/EN13167)  
Mean compressive strength of 9.0N/mm<sup>2</sup> (to EN772-1)  
Fire resistance >120minutes (to EN1365-1)  
Water Absorption <3.5% (to EN771-4).

**Authorities:** BBA certified (10/4778)  
ISO9001 (Bureau Veritas)  
BRE – Certified Thermal Products Scheme, <http://www.bre.co.uk/certifiedthermalproducts/>

