

Specification to eliminate or reduce thermal bridge under a Window Sill

Specification:	SILL
Product ref:	Marmox Thermoblock (Standard Type)
Junction Type:	E3
Manufacturer:	Marmox UK, Caxton House, 101 Hopewell Drive, Chatham, Kent ME5 7NP. 01634 835290; Email: sales@marmox.co.uk; http://www.marmox.co.uk/.

Product Use: Elimination or reduction of the cold bridge from the base of the window frame to the masonry wall.
Reduction in the ψ value used in SAP/SBEM or DEAP/NEAP calculations to enable compliance with UK / Irish building regulations.

Description: Marmox Thermoblock is a load-bearing heat-insulating building block consisting 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.

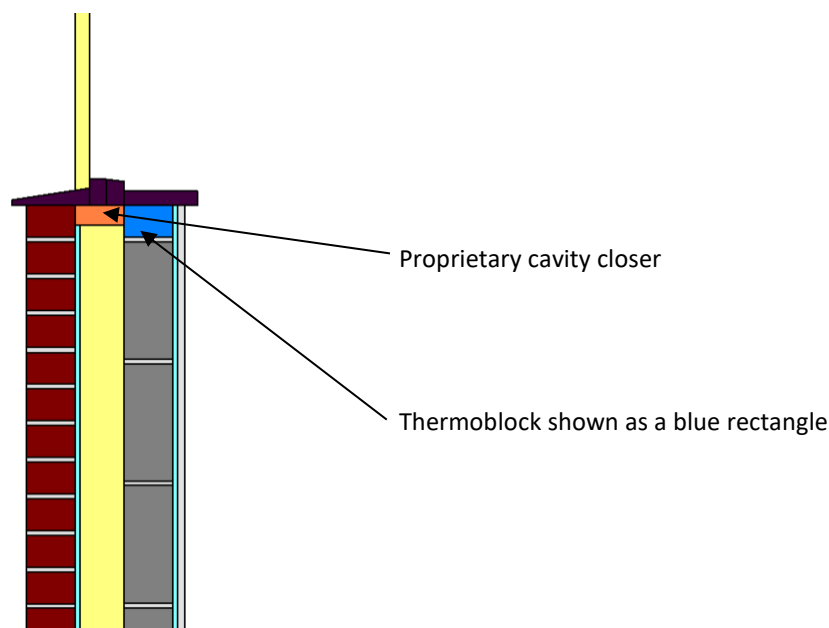
Properties: Average λ value of 0.05W/mK (to EN13164/EN13167)
Mean compressive strength of 9.0N/mm² (to EN772-1)
Water Absorption <3.5% (to EN771-4).

Authorities: ISO9001 (Bureau Veritas)
BRE – Certified Thermal Products Scheme, <http://www.bre.co.uk/certifiedthermalproducts/>
Fire Safety Report: 16781B (Warrington Fire)

Dimensions: Length = 600mm, Thickness = 65mm or 100mm, Width = 100mm, 140mm or 215mm

Marmox Thermoblock replaces the top 65 or 100mm of the inner leaf directly below the window frame.

Typical Detail



Specification to eliminate or reduce thermal bridge at base of an External wall with a Flat (Warm) Roof

- A single course of Marmox Thermoblock of the same width as the blocks comprising the inner leaf is fixed on top of those blocks using ordinary bricklayers' mortar.
- The length of Thermoblocks can be cut using a brick saw.
- Thermoblock edges are sealed together with a ribbon of Marmox MSP360 on the stepped edges to provide a waterproof barrier and improve air-tightness.
- The Thermoblocks present a strong and stable base for the window sill but the sill cannot be simply screwed into Thermoblocks below. *The sill can be fixed either by: -*
 - Adhering it to the row of Thermoblocks with Marmox MSP-360
 - Screw fixing the sill through the middle of the Thermoblocks into the concrete blocks underneath. Bolts are placed through the Thermoblock approximately halfway across its width.

Important notes:

1. The width of the Thermoblocks should be approximately the same width as the blocks which they are fixed onto.
2. **Thermoblocks cannot be stacked** – only one single layer is permitted.