

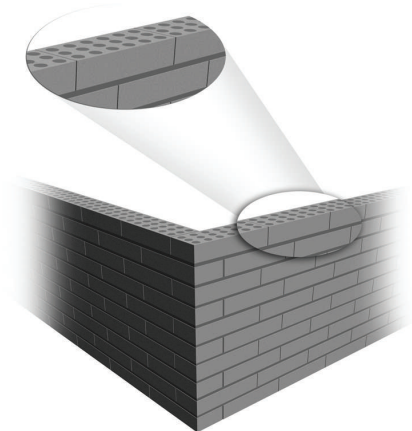
MARMOX BLOCK

General Description:

Marmox Block is a heat insulating, load-bearing building block. It differs from other products in its high strengths and very high thermal insulation properties. Marmox Block consists of heat insulating self-distinguishing XPS (or non-combustible foam) embedding uniformly distributed vertical polymeric concrete load carrying prisms. Marmox Block is characterised by a thin top and bottom polymer-cement layer reinforced with an alkali-resistant fiberglass mesh. The top and the bottom layers surround the vertical carrying prisms and the surrounding foam block.

Applications:

Marmox Blocks (50 & 60 kg/m²) are used in bottom and top layers of walls to manage heat flux. These types are characterised by a high vertical thermal insulation (k value 0.055 W/mK) and acceptable load bearing strengths (50 – 75 kg/cm²). Marmox Blocks (120 & 200 kg/m²) are used as main building blocks for both load-bearing and non load-bearing outside walls. These types are distinguished by their very high load bearing strengths (120 – 240 kg/cm²) as well as their extraordinary horizontal thermal insulation (k horizontal = ca.0.038–0.040 W/mK), thus saving completely traditional outside wall layers and all related items.



Standard Dimensions:

Length (L) : 50 cm

Width (W) : 9 - 11.50 - 14 - 19 - 24 cm

Height (H) : 5 – 25 cm

(Marmox Block types and technical data are available upon request).

MARMOX BOARD HD “Heavy Duty”

Heavy Duty, High Strength, Non-Compressible Type

MARMOX BOARDS HD differ from standard MARMOX BOARD in that they are strengthened with regularly distributed polymeric concrete prisms passing through the total thickness of the board. The diameter of the columns range between 10 to 30 mm. They are spaced at distances of 25 to 100 mm and are staggered in both directions.

The main advantage of MARMOX BOARD HD is its high compressive strength ranging between 4 and 24 kg/cm² at a negligible compressibility when compared to the standard MARMOX BOARD.

Compared to the standard type, MARMOX BOARD HD does not show a significant decrease in heat insulation nor a high increase in weight.

Technical Data:

Type *	Comp. Strength kg/cm ²	k-value W/mK	Weight kg/m ²					
			10mm	20mm	30mm	40mm	50mm	
MARMOX BOARD								
HD 40	4.0	0.036	3.65	4.15	4.85	5.10	5.95	
HD 80	8.0	0.038	3.80	4.45	5.10	6.70	6.70	
HD 120	12.0	0.040	3.90	4.65	5.40	6.10	7.20	
HD 240	24.0	0.042	4.30	5.45	6.60	7.70	9.20	
MARMOX BOARD Standard	3 kg/cm ² at 10% deflection	0.032	3.50	3.85	4.20	4.50	5.20	



Other types (e.g. higher strengths) are available upon request.