MUXBOARD® Technical Data Sheet

Product Description

MUXBOARD® is an innovative, multi-purpose construction board made from magnesium, EPS and vegetable particles, reinforced with fiberglass meshes. MUXBOARD® is non-combustible (Class A1), energy efficient with a thermal conductivity of 0.2 W/MK, it is light, resistant to impacts and weathering.
MUXBOARD® is a board that is easy to mechanize and install, which means a significant saving in time and labor.

Fields of application

The MUXBOARD® panel is available in formats of Length 2600/2700/3000 mm, Width 1200 mm and Thicknesses of 6/8/10/12/15/16/18/20mm. It is also possible to manufacture other formats and thicknesses on demand.
The applications of the MUXBOARD® panel are limitless both outdoors and indoors.
Prefabricated construction, façade envelopes, interior partitions, SIP panel manufacturing, External thermal insulation system manufacturing, are some of its many applications.

Transport and storage

Plates should be stored on a flat surface, in a dry, covered, frost-proof and well-ventilated area. Products should preferably be covered during transport. Care should be taken when handling thick plates. Plates are not load-bearing and should be transported upright. (Follow instructions in the user and installation manual.)

Waste Management

MUXBOARD® boards do not contain asbestos. So they do not require any specific precautions. Waste treatment must be done in accordance with local regulations in local area.

CE

Technical Data

CE marking	ETA 22/0456
Nominal dimensions	2600x1200mm and 3000x1200mm* Thicknesses 6-20 mm*
Dimension tolerance (EN 12467:2012)	Level 1 (+/- 3 mm)
Thickness tolerance (EN 12467:2012)	Level 1 (+/- 0.6 mm)
Medium density (EN 12647)	≤ 950 kg/m3
Reaction to fire (EN 13501-1:2019)	Class A1 (Fireproof)
Fire resistance (EN 13501-2:2016 / EN 1364-1:2015)	EI 120 min. (partition walls)** EI 180 min. (cladding)**
Flexural Strength (EN 12647)	≥ 6.5 Mpa**
Bending radius	2.0 m**
Bending Rupture Strength Modulus	⊥ 10.3 N/mm² ∥ 8.5 N/mm²
Resistance to nail removal	700 N
Impact resistance	≥ 1.5kJ/m²
Water content	≤ 8%
Water Absorption	≤ 23%
Moisture movement	≤0.12%
Water vapor transmission	1,975 g/hm²
Water vapour diffusion coefficient (EN ISO 12572)	54 μ
Water vapour permeability	Cat. A - No water vapour passage after a 24-hour test
Freeze-thaw	Cat. A - No distortion after 100 repeated freeze-thaw cycles
Soak-dry	Cat. A - No deformation after 50 repeated soak-dry cycles
Heat-rain	Cat. A - No deformation after 50 repeated heat-rain cycles
Warm water	Pass
Thermal conductivity (λ) (EN 12667:2001)	0.122 W/(m·K)
Coefficient of linear thermal expansion (α)	≈ 1.5×10^{-5} K^{-1}
Linear thermal shrinkage rate	≤ 0.5%
Sound Transmission Class (ASTM E90 & ASTM E413)	> 41 dB**
Formaldehyde release	0 %
Asbestos content	0 %
Emission of hazardous substances	No emission of hazardous substances

*** Other dimensions and thicknesses on request**
**** Plate thickness 12mm**

CE

Email: info@muxboard.com
Web: www.MUXBOARD.com

Availability

Dimensions*	2600 x 1200 mm* 3000 x 1200mm*
Thicknesses	6/8/10/12/15/16/18/20mm*
Color	Grey
Surface	Front: smooth Reverse: Rough

*** Other dimensions and thicknesses on request**

Notes:

1.- The quality of the MUXBOARD panel and the mandatory CE marking is guaranteed by the ITEC (Technological Institute of Catalonia) through the application of the EVPC System 1 protocol (Evaluation and Verification of the Constancy of Performance) through the six-monthly inspection carried out by technicians of the institute directly at the factory. EUROPEAN TECHNICAL EVALUATION ETA 22/0456 of 19.06.2024.

2.- All physical and mechanical values are averages, based on standard production and tested in accordance with European directives that apply in the areas of safety, health and environment. If you need more information on specific product values, please refer to MUXBOARD.com.

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