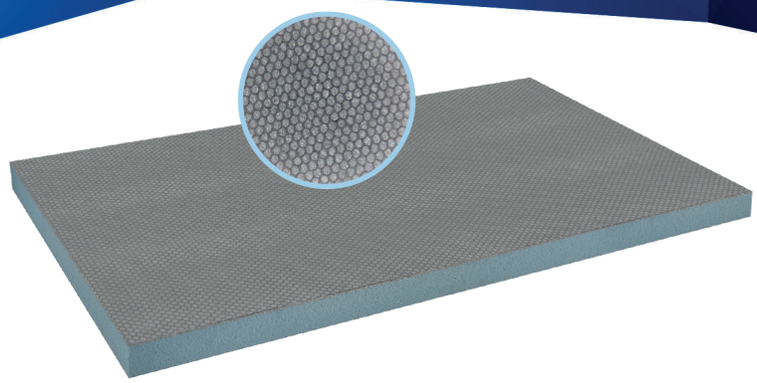
CHEMA FOAM

BUILD YOUR DREAM

CHEMA XBOARD



CHEMA XBOARD is a lightweight structural board produced by extrusion, made of XPS (extruded polystyrene) foam, reinforced on both sides with a fiberglass mesh and coated with a thin layer of specially treated cementitious mortar.

Packaging & Storage

- Boards are wrapped and packed on pallets for transport
- Should be stored flat, in a dry location, away from direct sunlight and moisture

Technical Specifications of XPS Core

Property	TEST METHOD	VALUE
Density	ASTM D1622	32 – 33 kg/m^3
Compressive Strength	ASTM D1621	≥ 500 kPa
Flexural Strength	ASTM C203	≥ 3 – 6 MPa
Tensile Strength	ASTM D1623	≥ 250 – 400 kPa
Impact Resistance	ASTM D5420	≥ 10 – 20 J
Water Absorption	ASTM C272	≤ 0.2%
Thermal Conductivity	ASTM C518	0.032 W/m·K
Surface Burning	ASTM E84	Class B
Dimensional Stability	ASTM D2126	≤ 2%

CHEMA XBOARD

Technical Specifications of CHEMA XBOARD

Thickness (mm)	Width (mm)	Length (mm)	Weight (kg/board)	R-value (m^2 K/w)	U-value (W/m^2· K)
10	600	2400	~ 5.5	0.25	4
20	600	2400	~ 6.5	0.61	1.28
30	600	2400	~ 7.5	0.92	0.92
40	600	2400	~ 8.5	1.20	0.75
50	600	2400	~ 9.5	1.53	0.60
70	600	2400	~ 12	2.15	0.45

PROPERTIES



- Thermal insulation
- Moisture resistance
- Light weight
- Dimensional stability
- Strong adhesion of the cementitious surface to all types of tile adhesives, paints, and finishes

AREA OF USE



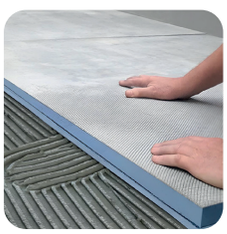
- Thermal and moisture insulation for ceilings, floors, and walls
- Cladding of external façades and internal walls
- Constructing partitions and lightweight walls inside rooms and halls
- Decorative elements for both straight and curved designs
- Fixing tiles and applying all types of finishes and paints
- Moist environments such as bathrooms, kitchens, swimming pools, etc.

Technical Specifications of CHEMA XBOARD

CHEMA XBOARD is installed on flat surfaces such as concrete, brick, wood, or metal frames using:
- A thin layer of adhesive (CHEMA ADHESIVE 102)
- Mechanical fasteners such as screws and anchors
- Additional mechanical fixation can be used if needed
- Joints are treated using joint filler and waterproof sealing tape



The panels can be installed using ChemAdhesive 102 or cement mortar with AdeBond



Mechanical fastening can also be added using appropriate screws and accessories.