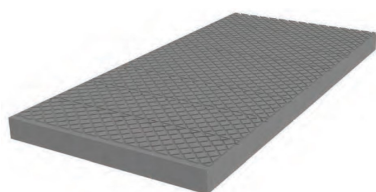




la scelta giusta
per grandi progetti.

SCHEDA TECNICA



LZ 200 BOARD



EXPANDED POLYSTYRENE AND
GRAPHITE EMBOSSED
INSULATION BOARD FOR
SKIRTING

PRODUCT

Sintered Polystyrene Foam and graphite embossed insulation board (EPS) for skirting in insulation system and thermal insulation in foundation. Traction strength ≥ 200 kPa. Thermal conductivity (λ): 0,030 W/mK.

CARATTERISTICS

Light, cheap, insulating, easier in the laying, breathable, non-toxic, impact-resistant, suitable for any type of thermal insulation.

Thicknesses: 40, 50, 60, 80, 100, 120 mm.

The EPS is not a fertile ground for the development of bacteria, fungi or other microorganisms.

Production waste can be recycled as long as not mixed with other materials or substances.

APPLICATION FIELDS

Wainscot of internal and external insulating systems.

SUBSTRATES

Brick masonries, thermo-bricks, mixed or of stone, concrete, old and new plaster, tuff.

PACKAGING

The LZ 200 Boards are supplied in polyethylene packaging.

Standard board dimensions: 1000 x 500 mm.

STORAGE

Storable for at least 12 months in its original packaging, protect from moisture and UV rays.

ITEM SPECIFICATIONS

The wainscot of internal and external insulating systems resistant to impact will be realized through the laying of high-strength graphite EPS boards such as LZ 200 by Edilcol Italia which has a tensile strength equal to 200 kPa.



Cert. n. 27395-2008-AQ-ITA



Cert. n. 1982-CPR-059/471



Polizza n. 70023

PREPARATION OF THE SUBSTRATE

- Check that the substrates are clean, resistant, rough and perfectly seasoned.
- Remove the detached parts without leaving any residues. Treat with a suitable consolidating or remove entirely the crumbly surfaces or tending to crumbling.

WORKING PROCESS

- The fixing and the levelling of the boards will be carried out with the cement-based adhesive mortar CR 510.
- If the substrate is perfectly planar, apply with a notched trowel on the entire surface of the board.
- If the substrate is not perfectly planar and has irregularities lower than one centimeter in height, apply with a trowel in order to form some width strips of few centimeters in parallel to the board sides and at the center of thickness at points with a diameter of about 5-10 cm.
- Place the boards from bottom to top, carefully beating them for a perfect adhesion, using when necessary, a mechanical fixing with appropriate bolts after about 24 hours from the laying of boards.
- Do not apply the product on the edges of the insulation boards, possible cause of the formation of thermal bridges.
- In correspondence of the edges, the boards must be alternated to absorb the tensions.

- After at least 48 hours after the application of the boards, realize the reinforcement layer applying a first coat of CR 510 on which drown the fibreglass mesh HT 150, crushing it with a smooth trowel on the fresh layer of the mixing taking care of overlay the mesh for 10 cm.
- At a distance of 1 hour, cover with a second coat of leveling grout.
- Realize the finishing when the smoothing grout will be well hardened and cured.

RECOMMENDATIONS

During the laying protect the boards from rain.

Do not use CR 510 for the bonding of boards on metal surfaces or on substrates subject to strong movements.

The laying of the boards must not be carried out at temperatures below + 5 ° C or above + 35 ° C.

Although the details contained in this product report correspond to the best of our current experience, all the above information must be confirmed after practical applications. Anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of product. The values given in the technical data derived from tests conducted in laboratory, in a controlled environment, so they may be greatly modified by the conditions of installation.

DATI TECNICI

Rev. 02 - 02/2016

TECHNICAL FEATURES

	Value	Rule		Tolerance
Length	1000 mm	EN 822	L2	± 2 mm
Width	500 mm	EN 822	W2	± 2 mm
Thickness	40, 50, 60, 80, 100, 120 mm	EN 823	T1	± 1 mm
Orthogonality		EN 824	S2	± 2/1000 mm
Planarity		EN 825	P3	± 3 mm

MECHANICAL FEATURES

	UNI EN 13163 Code	Reference rule	Value
Compressive strength at 10% of crushing	CS (10)	EN 826	≥ 200 kPa
Flexural strength	BS	EN 12089	≥ 250 kPa
Dimensional stability	DS (N)	EN 1603	± 0,2%
Shear strength	τ	EN 13163	≥ 125 kPa
Permanent load resistance - deformation of 2% after 50 years	CC(2/1,5/50)	EN 1606	≤ 70

THERMAL FEATURES

Thermal Conductivity λ_D	0,030 W/mK (UNI EN 12667)					
	4 cm	5 cm	6 cm	8 cm	10 cm	12 cm
Thermal resistance R_D (sqK/W) (UNI EN 12667)	1,30	1,65	2,00	2,65	3,30	4,00
Reaction to fire	EUROCLASS E (EN 13501-1)					
Specific heat	c = 1350 J/kg K (EN 10456)					
Coefficient of linear thermal expansion	$65 \times 10^{-6} \text{ K}^{-1}$ (EN 10456)					
Temperature of use	≤ 80°C					