CLIMAPLUS

ULTRAWOOL

Thermal insulation plates

The ULTRAWOOL is a high quality, non-combustible mineral wool panel. It is used as a thermal insulation board, on THRAKON's External Thermal Insulating System (ETICS) CLIMAPLUS, for the thermal, sound and fire insulation of buildings. The fibres of ULTRAWOOL are produced by the melting of basalt stone at a temperature of 1350°C - 1400°C. It has a high thermal re-sistance (R), and contributes toward a lower energy cost. Its properties are kept stable and unchanged throughout its life cy-cle, as long as the material is effectively protected from moisture. Available in panels..



Advantages:

- • Quick and easy installation.
- • External thermal and sound insulation of walls.
- • Fire resistance.
- • Chemically inert product.
- • Low thermal conductivity.
- • Material with a long service life.
- • Recyclable material.

CE

LOW VOC · ISO 14001 · ISO 9001 · Ελληνικό προϊόν · Hellenic product

EPD

INTERNATIONAL EPD SYSTEM

TECHNICAL CHARACTERISTICS

Packaging:

Plastic film

Application:

Suitable for thermal insulation in external masonries

Storage:

Keep in a dry, humidity-free place away from the sun. Avoid application under solar radiation. Place a mesh or a net on scaffolds in order to create a shady place.

Technical characteristics		Units	Standard	Symbol	Value
					MW
Fire resistance		(Kg/m³)	EN 13162	EN 13501-1 Euroclass	A1
Thermal conductivity		(W/mK)		EN 12667 λ	0,037
Dimension tolerance	Length	(mm)		EN 29465 L2	1200
	Width	(mm)		EN 29465 W2	600
	Thickness	(mm)		EN 29466 T5	50-100
	Squareness on length and width	(mm/m)		EN 824 S2	max.5
	Flatness	(mm)		EN 29468 P5	max.6
Water absorption by partial immersion over extended periods		(kg/m²)		EN 16535 WL(P)	≤3
Water absorption by partial immersion over a short periods		(kg/m²)		EN 29767 WS	≤1
Vapor permeability		(mg/(Pa h))		EN 12086 MU	1
Airflow resistance				EN 29053	NPD
Point load		N		EN 12430	300
Dimensional stability				EN 1604 DS (70, -)	≤1
Compressive stress at 10% deformation		(kPa)		EN 29469 CS(10)	20
Resistance to ageing / degradation	Fire resistance			EN 13162	A1
	Thermal conductivity				0,037
Tensile strength perpendicular to the faces		(kPa)		EN 1607 TR	10
Nominal density		(Kg/m³)		EN 29470	90

PRODUCT DESCRIPTION	DIMENSIONS	THICKNESS	PACKAGE	THERMAL CONDUCTIVITY	THERMAL RESISTANCE
	mm	mm	m^2/ συσκευασία	λ_d (W/mK)	R_d (m^2K/W)
ULTRAWOOL	1200*600	50	5,76	0,037	1,35
		60	4,80		1,62
		70	4,32		1,89
		80	3,60		2,16
		90	3,60		2,43
		100	2,88		2,70

*Note: The measurements were taken in laboratory environment under a temperature of +230C, Relative humidity 50 % and without ventilation. It is possible for them to vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation, absorbability of the substrate.

The technical information and instructions contained in the present brochure and referring to the application and end use of Thrakon products are based on the up to now know-how and experience of the Company with regards to the products and are provided in good faith as long as such products are stored, used and applied as per Thrakon recommendations. Due to the inability, on our part, to directly inspect the conditions prevailing at the worksite as well as the application procedures of the product, the Company does not provide any guarantee with regards to the adequacy of its products for specific purpose while the Company shall not bear any legal responsibility based on the information stated in the present brochure or any other written, oral, or otherwise provided recommendations and instructions. The users of the products are advised to perform a limited surface testing of the products adequacy for the eventual application and use intentions. Thrakon reserves the right to modify the features of its products without prior notification. All orders shall be approved only following acceptance of the above and under the eventual Commercial Policy terms of the Company. The issuance of the present brochure voids any prior version.

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