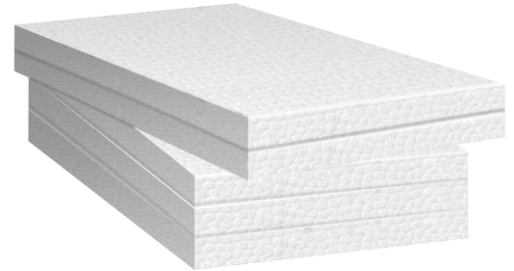


CLIMAPLUS

ULTRAPOR EPS

Polystyrene thermal insulation plates

ULTRAPOR EPS is a high-quality, white, expanded polystyrene foam insulation. It is free of voids and cavities. With high R values, it provides lower energy costs. It can be applied on different substitutes. It is available in panels. EPS is a light weight material. It can easily be stored and handled. It is installed on the job site and can be cut with ordinary tools, in order to ensure tight joints. EPS has easy application in exterior masonry as thermal insulation.



Advantages:

- Wide range of sizes.
- Various densities.
- Quick and easy in installation.
- Simple to handle.
- Not harmful and skin irritating.
- Excellent bond with various substitutes.
- Low thermal conductivity.
- Light weight.
- Economic system.
- Material with long life.



EPD
INTERNATIONAL EPD SYSTEM

TECHNICAL CHARACTERISTICS



Packaging:

6-30 item packages depending on the thickness



Application:

Suitable for thermal insulation in external masonries



Shades:

Available in white.



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					
				EPS 60	EPS 80	EPS 100	EPS 150	EPS 200	
Fire resistance	(Kg/m ³)	EN 13163	EN 13501-1	Euroclass		E			
Thermal conductivity	(W/mK)		EN 12667	λ	0.037	0.036	0.035	0.034	0.033
Dimension tolerance	Length		(mm)	EN 822	L2	±2			
	Width		(mm)	EN 822	W2	±2			
	Thickness		(mm)	EN 823	T2	±1			
	Squareness on length and width		(mm/m)	EN 824	S2	±2			
	Flatness		(mm)	EN 825	P5	±5			
Water absorption by partial immersion	(kg/m ²)		EN 12088	WL(P)	0.2				
Resistance to vapour diffusion	(1)		EN 12086	μ	20 to 40	20 to 40	30 to 70	30 to 70	30 to 70
Vapor permeability	(mg/(Pa h m))		EN 12086	δ	0.015 to 0.030	0.015 to 0.030	0.009 to 0.02	0.009 to 0.020	0.009 to 0.020
Shear strength	(N/mm ²)	ETAG 004	EN 12090	f _{tk}	≥0.02				
Shear factor	(N/mm ²)			G _m	≥1				
Dimensional stability	Condition: 23°C, 50% R.H.	(%)	EN 1603	DS (N)2	Length, Δε _l , and width, Δε _b , %: ± 2				
	Condition: 48 h, 70°C, 90% R.H.	(%)	EN 1604	DS (70, 90)1	Length, Δε _l , and width, Δε _b , %: 1 Thickness Δε _d : 1%				
Compressive stress at 10% deformation	(kPa)	EN 826	CS(10)	≥ 60 kPa	≥80	≥100	≥150	≥200	
Resistance to aging / degradation	Fire resistance Thermal conductivity	No change							
Bending strength	(kPa)	EN 12089	BS	≥ 100 kPa	≥125	≥150	≥200	≥250	
Tensile strength	(kPa)	EN 1607	TR	≥ 100 kPa	≥150	≥150	≥200	≥250	

Product description	Dimensions	Thickness	Package			Thermal conductivity	Thermal resistance
			Sheets/package	m ² /package	m ³ /package		
	mm	mm				λ_d (W/mK)	R _D (m ² K/W)
EPS 60	1000*500	30	20	10	0.3	0.037	0.8
		40	15	7.5	0.3		1.1
		50	12	6	0.3		1.4
		60	10	5	0.3		1.6
		70	9	4.5	0.32		1.9
		80	8	4	0.32		2.2
		90	7	3.5	0.32		2.4
		100	6	3	0.3		2.7
EPS 80	1000*500	30	20	10	0.3	0.036	0.8
		40	15	7.5	0.3		1.1
		50	12	6	0.3		1.4
		60	10	5	0.3		1.7
		70	9	4.5	0.32		1.9
		80	8	4	0.32		2.2
		90	7	3.5	0.32		2.5
		100	6	3	0.3		2.8
		120	5	2.5	0.30		3.3
		150	4	2	0.3		4.2
EPS 100	1000*500	30	20	10	0.3	0.035	0.9
		40	15	7.5	0.3		1.1
		50	12	6	0.3		1.4
		60	10	5	0.3		1.7
		70	9	4.5	0.32		2.0
		80	8	4	0.32		2.3
		90	7	3.5	0.32		2.6
		100	6	3	0.3		2.9
		120	5	2.5	0.30		3.4
		EPS 150	1000*500	30	20		10
40	15			7.5	0.3	1.2	
50	12			6	0.3	1.5	
60	10			5	0.3	1.8	
70	9			4.5	0.32	2.1	
80	8			4	0.32	2.4	
90	7			3.5	0.32	2.6	
100	6			3	0.3	2.9	
EPS 200	1000*500	30	20	10.00	0.30	0.033	0.9
		40	15	7.50	0.30		1.3
		50	12	6.00	0.30		1.6
		60	10	5.00	0.30		1.9
		70	9	4.50	0.32		2.3
		80	8	4.00	0.32		2.6
		90	7	3.50	0.32		2.9
		100	6	3.00	0.30		3.2
120	5	2.50	0.30	3.6			

*Note: The measurements were taken in laboratory environment under normal temperature and relative humidity conditions (+23°C, 50%). It is possible for them to vary depending on the conditions prevailing at the worksite (temperature, humidity, 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.

Version G: 1/08/2025