

Unique identification code of the product: Expanded polystyrene boards MARMOLINE EPS 80

Type: EPS-EN13163-T1-L2-W2-S2-P3-DS(N)2-DS(70,90)1-BS125-CS(10)80-TR200-SS60-GM1648-MU20-WL(T)2,5-WL(P)0,1

Plant.: Avlida Chalkidas

Intended use /es:

Thermal insulation products for buildings – Industrially produced products from expanded polystyrene (EN 13163). White expanded polystyrene suitable for external thermal insulation systems of buildings (ETICS)

Manufacturer /Distributor:

NORDIA S.A., Head Office: 364 Kifissias av., 15233 Chalandri /Greece, tel +302295022225

Manufacturing plant: 1st km Provincial Road Malakasas - Markopoulou, 19011 Malakasa, Attica, Greece

Systems of AVCP: System 3

Harmonized standard: EN 13163:2012+A2:2016, EAD 040083-00-0404

Notified Body:

Declared performance /s:

Essential characteristics	Performance	Technical spec.
Thermal resistance R_D	See table 1	EN 12667
Thermal conductivity λ_D	0.036 W/m-K	
Reaction to fire	Euroclass E	EN 13501-1
Durability against ageing/degradation	not subject to changes	EN 13163
Thickness tolerances (d)	+1mm	EN 823
Length tolerances (l)	+2mm	EN 822
Width tolerances (b)	+2mm	EN 822
Squareness tolerances (S_b)	+2mm/m	EN 824
Flatness tolerances (S_{max})	3 mm	EN 825
Dimensional stability under constant normal laboratory conditions (23°C, 50% R.H.), ($\Delta\epsilon_l / \Delta\epsilon_b$)	+0,2%	EN 1603
Dimensional stability under specified temperature and humidity conditions (48h, 70°C, 90% R.H.), ($\Delta\epsilon_l, \Delta\epsilon_b, \Delta\epsilon_d$)	≤ 1%	EN 1604
Compressive strength at 10% deformation (σ_{10})	≥80 kPa	EN 826
Bending strength (σ_b)	≥125 kPa	EN 12089
Tensile strength perpendicular to faces (σ_{mt})	≥200 kPa	EN 1607
Short term water absorption with partial immersion (w_{sp})	<1 kg/m ²	EN 29767
Long term water absorption with partial immersion (w_{lp})	≤0.1 kg/m ²	EN 16535
Long term water absorption with full immersion (w_{lt})	≤2.5%	EN 16535
Shear strength (T)	≥60 kPa	EN 13163
Shear modulus (G)	≥1648 kPa	EN 13163
Water vapour permeability diffusion factor (μ)	20-40 (1)	EN 13163
Water vapour permeability (δ)	0.015-0.030 mg/(Pahm)	EN 13163

Table 1:

Board thickness [mm]	25	30	40	50	60	70	80	90	100				
Thermal resistance R_D (m ² K/W)	0.65	0.80	1.10	1.35	1.65	1.90	2.20	2.50	2.75				

Proper technical documentation : M&S.: W80/6-2-2023

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) 305/2011, under the sole responsibility of the manufacturer identified above. Signed for and on behalf of the manufacturer by:

Malakasa, 21/1/2025

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