



DECLARATION OF PERFORMANCE

No : VN80/6.2.2023 - CPR (EU) 305/2011



Insulation board made of neopor graphite expanded polystyrene for use in : E.T.I.C.S.

VITEX THERM EPS-80 GRAPHITE PLUS



R THERMO® GRAPHITE PLUS EPS 80



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)0,10

External Thermal Insulation Applications For Buildings

Manufacturer : **MONOSI-SYSKEVASIA S.A.**

System of AVCP : 3

Notified Laboratory : IMBiGS No 1454

The above designated product is produced in accordance with the standard :

EN 13163:2012+A2:2016 "Thermal insulation products for buildings - Factory made expanded polystyrene (EPS) products - Specification"

and fulfills the requirements for ETICS according to : **EAD 040083-00-0404** (based on Confirmation **347633 THERM / DQS / 2022-12-24**) .

Essential characteristics		Performance									Standard
Thermal conductivity λ_p		0,030 W/mK									EN12667
Thermal resistance R_p	Thickness	25mm	30mm	40mm	50mm	60mm	70mm	80mm	90mm	100mm	
	m^2k/W	0,80	1,00	1,30	1,65	2,00	2,30	2,65	3,00	3,30	
Thickness tolerances (d)		±1mm									EN823
Length tolerances (l)		±2mm									EN822
Width tolerances (b)		±2mm									EN822
Squareness tolerances on length and width (S_b)		±2mm/m									EN824
Maximum deviation from Flatness (S_{max})		3mm									EN825
Reaction to fire of the product as placed on the market		Euroclass E									EN13501-1
Durability of reaction to fire of the product as placed on the market against ageing/degradation		not changed with time									EN13163
Durability of thermal resistance and thermal conductivity against ageing/degradation		not changed with time									EN13163
Dimensional stability under constant normal laboratory conditions (23°C,50%R.H.),($\Delta\epsilon_1 / \Delta\epsilon_b$)		±0,2%									EN1603
Dimensional stability under specified temperature and humidity conditions (48h,70°C,90%R.H.),($\Delta\epsilon_1, \Delta\epsilon_b, \Delta\epsilon_d$)		≤1%									EN1604
Bending strength (σ_b)		≥125 kPa									EN12089
Compressive stress at 10% deformation (σ_{10})		≥80 kPa									EN826
Tensile strength perpendicular to faces (σ_{mt})		≥200 kPa									EN1607
Short-term water absorption by partial immersion (W_{sp})		<1 kg/m ²									EN29767
Long-term water absorption by partial immersion (W_{lp})		≤0,1 kg/m ²									EN16535
Long-term water absorption by total immersion (W_{lt})		≤2,5%									EN16535
Shear strength (τ)		≥60 kPa									EN13163
Shear modulus (G)		≥1648 kPa									EN13163
Water vapour diffusion resistance factor (μ)		20-40 (1)									EN13163
Water vapour permeability (δ)		0,015-0,030 mg/(Pahm)									EN13163

EPS blocks intended to be used in an ETICS application are aged for at least 28 days before cut into boards.

The conformity of the product is verified by the appropriate technical documentation .

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

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February 6, 2023

Nikos Stousidis
General Manager

Date of issue

Name / Position

Sign/Signature



MONOSI SYSKEVASIA S.A.

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