

Declaration of Performance



No. 21_19_V1 **styropan**
XPS

- Unique identification code of the product type: **Styropan XPS R&F (Roof & Floor)**
Boards of rigid extruded polystyrene foam | Dimensions: 125cm x 60 cm | Surface: Extrusion skin
- Intended use: **Thermal insulation for roofs and floors**
- Manufacturer: **Styropan I. Katsaounidis & CO SA | GR-57011, Thessaloniki, Greece**
- Authorised representative: -
- System of assessment and verification of constancy of performance (AVCP): **System 1**
- Harmonised standard: **EN13164:2012+A1:2015**
Notified bodies: **NB 2423 | NB 1486**
- Declared performance:



Certificate No.: THERM9921/2
Certificate date: 25/04/2019

Essential characteristics	Performance		Standard
Thermal conductivity λ_D	* table 1		EN 12667:2001
Thermal resistance R_D	* table 1		EN 12667:2001
Dimensional stability	DS(N)2	$\pm 0,2\%$	EN 1603:2013
Compression stress at 10% deformation	CS(10)Y	* table 2	EN 826:2013
Long-term water absorption by total immersion	WL(T)	* table 3	EN12087:2013
Long-term water absorption by partial immersion	WL(P)	0,5 kg/m ²	EN12087:2013
Water vapour diffusion resistance factor μ [1]	150	Tabulated acc. to EN10456 [20 ≤ p ≤ 65 kg/m ³]	EN12086:2013
Tensile strength perpendicular to faces	TR400	$\sigma_{mt} \geq 400$ kPa	EN1607:2013
Compressive creep	CC (2/1,5/50)100	-	EN1606:2013
Reaction to fire	E	-	EN13501-1:2007+A1:2009

* table 1

d (mm)	20	30	40	50	60	70	80	100
λ_D (W/m*k)	0,033	0,033	0,033	0,033	0,033	0,034	0,034	0,034
R_D (m ² *K/W)	0,60	0,90	1,20	1,50	1,80	2,05	2,35	2,90

* table 2

d (mm)	Declared compressive strength	Remarks
20 ≤ d ≤ 30	200	$\sigma_{10} \geq 200$ kPa
40	250	$\sigma_{10} \geq 250$ kPa
50 ≤ d ≤ 100	300	$\sigma_{10} \geq 300$ kPa

* table 3

d (mm)	Level	Requirement (vol. %)
20 ≤ d ≤ 80	WL(T)1,5	≤ 1,5
100	WL(T)0,7	≤ 0,7

Properties not claimed or declared, shall be considered as No Performance Determined (NPD)

8. Appropriate Technical Documentation and/or Specific Technical Documentation: -

The performance of the product identified above is in conformity with the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No 305/211 under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by

Konstantinos Katsaounidis | General Manager

Thessaloniki, 25/04/2019