



**THERMOPLASTIKI**

## DECLARATION OF PERFORMANCE

No. 006.019 – 305/11/EE – 31/July/2024

### Extruded polystyrene XPS

- 1. Unique identification code of the product type: **XPS 400 novablok THERMO T/I**
- 2. Intended use: **Buildings thermal insulation applications**
- 3. Manufacturer: **THERMOPLASTIKI S.A. Amigdaleonas, Kavala P.C. 64012**
- 4. Authorised representative: **Not applicable**
- 5. AVCP Systems (evaluation and confirmation of performance stability): **3**
- 6. Harmonised Standard: **EN 13164:2013, EN 14309:2015** and meet the requirements of **EAD 040083-00-0404** (according to the **CERTIFICATE: 506936 THERM/DQS/2024-07-17**)  
  
Notified laboratory: **IMBiGS, Notified Body: 1454**
- 7. Declared performance/s:

Essential Characteristics	Performance			Testing standards	
Compressive stress		$\sigma_{10}$ (kPa)	400	EN 13164	
Shearing behaviour	Shear stress	$\tau$ (kPa)	NPD		EN 826
	Shearing measure	G (kPa)	NPD		EN 12090
Tensile strength		$\sigma_{mt}$ (kPa)	400		EN 1607
Thermal resistance	Thermal conductivity	$\lambda_D$ (W/mK)	Table1		EN 12667 or EN 12939
	Thermal resistance	R (m <sup>2</sup> K/W)	Table1		
	Thickness tolerances	T	T1		
Dimensional stability		DS(23,90)%	≤0.5%		EN 1604
Indicative Density		$\rho$ (Kg/m <sup>3</sup> )	30-34		EN 1602
Water vapour diffusion resistance $\mu$			80-200		EN 13163
Long-term water absorption with partial immersion		$W_{IP}$ (Kg/m <sup>2</sup> )	0.02		EN 12087
Non-combustibility class			E		EN 13501
Hazardous substances release	npd				



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TABLE 1

Thickness	Thermal conductivity $\lambda_D$ (W/mK)	Thermal resistance R (m <sup>2</sup> K/W)	Thickness	Thermal conductivity $\lambda_D$ (W/mK)	Thermal resistance R (m <sup>2</sup> K/W)
20mm	NPD	NPD	60mm	NPD	NPD
25mm	NPD	NPD	70mm	NPD	NPD
30mm	NPD	NPD	80mm	NPD	NPD
40mm	NPD	NPD	100mm	0,033	3,03
50mm	NPD	NPD			

7. Appropriate technical documentation and/or specific technical documentation: **The technical requirements and the performance of the products are documented in products' Technical Documentation and in the Company's Technical Brochures.**

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) No. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Despoina Germanidou, Products Certification Manager

Amigdaleonas, Kavala,

31-07-2024