

**THERMOPLASTIKI**

## DECLARATION OF PERFORMANCE

No. 006.019 – 305/11/EE – 22/August/2022

### Extruded polystyrene XPS

- Unique identification code of the product type: **XPS 400 novablok THERMO T/I**
- Intended use: **Buildings thermal insulation applications**
- Manufacturer: **THERMOPLASTIKI S.A.** Amigdaleonas, Kavala  
P.C. 64012
- Authorised representative: **Not applicable**
- AVCP Systems (evaluation and confirmation of performance stability): **3**
- Harmonised Standard: **EN 13164:2013, EN 14309:2015** and meet the requirements of **EAD 040083-00-0404** (according to the **CERTIFICATE: 506936 THERM/DQS/2022-06-30**)  
  
Notified laboratory: **IMBiGS, Notified Body: 1454**
- Declared performance/s:

| Essential Characteristics                         | Performance          |                     |        | Testing standards |                         |
|---------------------------------------------------|----------------------|---------------------|--------|-------------------|-------------------------|
| Compressive stress                                |                      | $\sigma_{10}$ (kPa) | 400    | EN 13164          | EN 826                  |
| Shearing behaviour                                | Shear stress         | $\tau$ (kPa)        | NPD    |                   | EN 12090                |
|                                                   | Shearing measure     | G (kPa)             | NPD    |                   |                         |
| Tensile strength                                  |                      | $\sigma_{mt}$ (kPa) | 400    |                   | EN 1607                 |
| Thermal resistance                                | Thermal conductivity | $\lambda_D$ (W/mK)  | Table1 |                   | EN 12667 or<br>EN 12939 |
|                                                   | Thermal resistance   | R (m²K/W)           | Table1 |                   |                         |
|                                                   | Thickness tolerances | T                   | T1     |                   |                         |
| Dimensional stability                             |                      | DS(23,90)%          | ≤0.5%  |                   | EN 1604                 |
| Indicative Density                                |                      | $\rho$ (Kg/m³)      | 30-34  |                   | EN 1602                 |
| Water vapour diffusion resistance $\mu$           |                      |                     | 80-200 |                   | EN 13163                |
| Long-term water absorption with partial immersion |                      | $W_{IP}$ (Kg/m²)    | 0.02   |                   | EN 12087                |
| Non-combustibility class                          |                      |                     | E      | EN 13501          |                         |
| Hazardous substances release                      | npd                  |                     |        |                   |                         |

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TABLE 1

| Thickness | Thermal conductivity $\lambda_D$<br>(W/mK) | Thermal resistance R<br>(m <sup>2</sup> K/W) | Thickness | Thermal conductivity $\lambda_D$<br>(W/mK) | Thermal resistance R<br>(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,

22-08-2022