

# DECLARATION OF PERFORMANCE (DoP)

N° 040002-CPR2013-IT



1. Unique identification code of the product type:

## X-FOAM HBD

### Extruded polystyrene boards (XPS)

2. Intended use of the product: Thermal insulation for buildings

3. Name and address of the manufacturer:

**EDILTEC INSULATION S.p.A.**
**Z.I. CONTRADA STAMPALONE – 64036 – CELLINO ATTANASIO (TE)**
**Ph. 0861 668008 – Fax. 0861 669256**

4. System of assessment and verification of constancy of performance: **System 3**

5. Notified bodies:

**FIW – FORSCHUNGSINSTITUT FÜR WÄRMESCHUTZ e.V. Manchen Lochhamer Schlag 4 –  
82166 Gräfelfing, NB 0751; ISTITUTO GIORDANO, Via Rossini, 2 – 47814 Bellaria (RN) – ITALIA, NB 0407**
**Notified testing laboratories (NB 0751 and NB 0407) carried out determination of the product type (ITT) for groups of products according to characteristic.**

- ❖ The performance of the product identified in point 1 is in conformity with the declared performance in Annex
- ❖ This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3

6. Prestazione dichiarata

| Essential characteristics                                  | Performance                                                                                                                                                                                                              | Harmonized technical specification |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Thickness class tolerance                                  | <b>Declared class: T1</b><br>Thickness < 50 mm : ± 2 mm<br>Thickness 50-100 mm : -2/+3 mm                                                                                                                                | EN 13164:2012<br>+ A1:2015         |
| Dimensional stability under specified conditions           | <b>Declared class: DS(70,90)</b><br>A 70° C e 90% U.R.:<br>Dimensional change: ≤ 5%                                                                                                                                      |                                    |
| Long term water absorption after total immersion (28 days) | <b>Declared level: WL(T)0,7</b><br>Absorption ≤ 0,7% vol.                                                                                                                                                                |                                    |
| Long term water absorption after diffusion (28 days)       | <b>Declared level: WD(V)3</b><br>Absorption ≤ 3% vol. (thick. < 60 mm)<br><b>Declared level: WD(V)2</b><br>Absorption ≤ 2% vol. (thick. 60 mm)<br><b>Declared level: WD(V)1</b><br>Absorption ≤ 1% vol. (thick. > 60 mm) |                                    |
| Freeze-thaw resistance                                     | <b>Declared level: FTCD1</b><br>Absorption ≤ 1% vol.                                                                                                                                                                     |                                    |
| Deformation under specified conditions                     | <b>Declared class: DLT(2)5</b><br>A 70°C, 168 h, 40 kPa:<br>Dimensional change ≤ 5%                                                                                                                                      |                                    |

**6. Declared performance:**

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| Essential characteristics                                             | Performance                                                                                |                      |                 | Harmonized technical specification |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------|-----------------|------------------------------------|
| Thermal Conductivity ( $\lambda_D$ ) and Thermal Resistance ( $R_D$ ) | Thickness [mm]                                                                             | $\lambda_D$ : [W/mK] | $R_D$ : [m²K/W] | EN 13164:2012 + A1:2015            |
|                                                                       | 30                                                                                         | 0,031                | 0,95            |                                    |
|                                                                       | 40                                                                                         | 0,032                | 1,25            |                                    |
|                                                                       | 50                                                                                         | 0,033                | 1,50            |                                    |
|                                                                       | 60                                                                                         | 0,033                | 1,80            |                                    |
|                                                                       | 80                                                                                         | 0,032                | 2,50            |                                    |
|                                                                       | 100                                                                                        | 0,033                | 2,90            |                                    |
| Compressive strenght                                                  | Declared level: CS(10/Y)300<br>≥ 300 kPa                                                   |                      |                 |                                    |
| Compressive creep, long term compression stress                       | Declared level: CC(2/1,5/50) 120<br>≥ 120 kPa                                              |                      |                 |                                    |
| Tensile strenght perpendicular to faces                               | NPD                                                                                        |                      |                 |                                    |
| Reaction to fire                                                      | Euroclass E                                                                                |                      |                 |                                    |
| Durability of the reaction to fire                                    | There are no variations with time                                                          |                      |                 |                                    |
| Water vapour diffusion resistance factor ( $\mu$ )                    | Declared level: MU150 (thickness. 30 mm)<br>Declared level: MU100 (thickness. 50 - 100 mm) |                      |                 |                                    |
| Continuous glowing combustion                                         | Test method under development – European norm not available yet                            |                      |                 |                                    |
| Release of dangerous substances                                       | Test method under development – European norm not available yet                            |                      |                 |                                    |

**Cellino Attanasio (TE), 1 december 2023**
**The legal representative:**
