

DECLARATION OF PERFORMANCE

Nr.: 0751-CPR-291.0-01 (2020)

(1/2)

1. Unique identification code of the product-type:

X-FOAM HBT 300
Extruded polystyrene panels (XPS)

2. Intended use of the product:

Thermal insulation for buildings according to EN 13164

3. Name and contact address of the manufacture:

EDILTEC Bayern GmbH
Ottostr. 5
D 92442 WACKERSDORF
Phone 211/125/20802 – Ust-ID-Nr.: DE258227256

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

System 3

5. Notified body:

FIW – FORSCHUNGSINSTITUT FÜR WÄRMESCHUTZ e.V. Manchen Lochhamer Schlag
4 -82166 Gräfelfing**Notified testing laboratory (NB 0751) 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

Wackersdorf 10/02/2021

The legal representative: Ing. Stefano Sboarina



ANNEX DECLARATION OF PERFORMANCE

Nr.: 0751-CPR-291.0-01 (2020)

(2/2)

Declared performance

Essential characteristics	Performance	Technical specification																																																			
Thickness tolerance class	Declared Class T1: Thickness < 50 mm: ±2 mm Thickness 50 - 120 mm: -2/+3 mm Thickness > 120 mm: -2/+6 mm																																																				
Thermal conductivity (λ_D) and Thermal resistance (R_D)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Thickness (mm)</th> <th style="text-align: center;">λ_D: W/mK</th> <th style="text-align: center;">R_D: m²K/W</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">30</td><td style="text-align: center;">0,032</td><td style="text-align: center;">0,90</td></tr> <tr><td style="text-align: center;">40</td><td style="text-align: center;">0,033</td><td style="text-align: center;">1,20</td></tr> <tr><td style="text-align: center;">50</td><td style="text-align: center;">0,034</td><td style="text-align: center;">1,45</td></tr> <tr><td style="text-align: center;">60</td><td style="text-align: center;">0,034</td><td style="text-align: center;">1,75</td></tr> <tr><td style="text-align: center;">80</td><td style="text-align: center;">0,035</td><td style="text-align: center;">2,25</td></tr> <tr><td style="text-align: center;">100</td><td style="text-align: center;">0,035</td><td style="text-align: center;">2,85</td></tr> <tr><td style="text-align: center;">120</td><td style="text-align: center;">0,035</td><td style="text-align: center;">3,40</td></tr> <tr><td style="text-align: center;">140</td><td style="text-align: center;">0,037</td><td style="text-align: center;">3,75</td></tr> <tr><td style="text-align: center;">160</td><td style="text-align: center;">0,037</td><td style="text-align: center;">4,30</td></tr> <tr><td style="text-align: center;">180</td><td style="text-align: center;">0,034</td><td style="text-align: center;">5,25</td></tr> <tr><td style="text-align: center;">200</td><td style="text-align: center;">0,035</td><td style="text-align: center;">5,70</td></tr> <tr><td style="text-align: center;">220</td><td style="text-align: center;">0,035</td><td style="text-align: center;">6,25</td></tr> <tr><td style="text-align: center;">240</td><td style="text-align: center;">0,035</td><td style="text-align: center;">6,85</td></tr> <tr><td style="text-align: center;">260</td><td style="text-align: center;">0,035</td><td style="text-align: center;">7,40</td></tr> <tr><td style="text-align: center;">280</td><td style="text-align: center;">0,035</td><td style="text-align: center;">8,00</td></tr> <tr><td style="text-align: center;">300</td><td style="text-align: center;">0,035</td><td style="text-align: center;">8,55</td></tr> </tbody> </table>	Thickness (mm)	λ_D : W/mK	R_D : m ² K/W	30	0,032	0,90	40	0,033	1,20	50	0,034	1,45	60	0,034	1,75	80	0,035	2,25	100	0,035	2,85	120	0,035	3,40	140	0,037	3,75	160	0,037	4,30	180	0,034	5,25	200	0,035	5,70	220	0,035	6,25	240	0,035	6,85	260	0,035	7,40	280	0,035	8,00	300	0,035	8,55	
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Compressive strenght	Declared level: CS(10/Y)300 ≥ 300 kPa	EN 13164:2012 + A1:2015																																																			
Compressive creep	Declared level: CC(2/1,5/50)130 ≥ 130 kPa																																																				
Dimensional stability under specified conditions	Declared class: DS(70,90) At 70° C and 90% U.R.: Change in size ≤ 5%																																																				
Deformation under specified conditions	Declared class: DLT(2)5 At 70° C , 168 ore, 40 kPa: Change in size ≤ 5%																																																				
Long term water absorption by total immersion (28 days)	Declared level: WL(T)0,7 Absorption ≤ 0,7% vol.																																																				
Long term water absorption by diffusion (28 days)	Declared level: WD(V)5 Absorption ≤ 5% vol. (thick. 30 - 50 mm) Declared level: WD(V)3 Absorption ≤ 3% vol. (thick. 60 - 160 mm) Declared level: WD(V)2 Absorption ≤ 2% vol. (thick. 170 - 300 mm)																																																				
Water vapour diffusion resistance factor (μ)	Declared level: MU150 (thick. 30 mm) Declared level: MU100 (thick. 40 - 300 mm)																																																				
Freeze-thaw resistance	Declared level: FTCD1 Absorption ≤ 1% vol.																																																				
Reaction to fire	Euroclass E																																																				