

**DECLARATION OF PERFORMANCE
(Regulation (EU) 305/2011)
No. POLITERM BLU 200 - 01/2024**



1. Unique identification code of the product-type: **POLITERM BLU**
2. Type batch or serial number or any other element allowing identification of the construction product as required under Article 11 (4): **BEPS-PS6N-D0-LD190-FMD230-DMD210**
3. Intended use / uses: **Manufactured on-site thermal and/or sound insulating Bound EPS (BEPS) mortar made of EPS (N) beads and cement, for the thermal and/or sound insulation of building constructions.**
4. Manufacturer: **ARCHITEKTONIDIS MONOTIKA S.A. "TEKTO HELLAS" 10 Zakka str, Neapoli-Thessaloniki-Greece, PO 56727, Tel: +302310511871, e-mail: tekto@tekto.gr. Manufacturing site: 10th km Thessalonikis - Neochoroudas road, Tel.: +302310782007**
5. AVCP system(s) (system of assessment and verification of constancy of performance): **System 3 (System 1 for Reaction to Fire)**
6. European technical assessment:
MIRTEC SA, an EOTA member, issued the ETA 24/0636, according to Reg. EU 305/2011, on the basis of the EAD 040635-00-1201 "Thermal and/or sound insulation based on bound expanded polystyrene bulk material". The notified body GSH, notification number 0919 issued the certificate of constancy of performance No. 0919-CPR-994.e according to system 1.
7. Declared performance (-es)

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| Essential characteristics | Declared performance | Harmonized technical specification |
|--|--|------------------------------------|
| Reaction to fire | Euroclass A2-s1, d0 | EN 13501-1 |
| Content, emission and/or release of dangerous substances | Cr (VI) < 2ppm | EN 196-10 |
| | HBCDD-free | EAD 040635-00-1201 |
| Water vapour permeability | $\mu = 9,3$ | EN 12086 |
| Compressive strength | $\sigma_m = 320$ kPa | EN 826 |
| Compressive creep | $\epsilon_{c10a} = 0,37\%$, $\epsilon_{10a} = 0,48\%$ | EN 1606 |
| Thickness and compressibility | NPD | EN 12431 |
| Dimensional stability at 60°C and 90% RH – 48 hours | $\Delta\epsilon_l = 0,1\%$, $\Delta\epsilon_\beta = 0,1\%$, $\Delta\epsilon_d = -0,1\%$ | EN 1604 |
| Deformation under 20kPa and 80°C – 48 hours | $\epsilon_2 = 0,32\%$ | EN 1605 |
| Point load | NPD | EN 12430 |
| Impact sound reduction | NPD | EN 717-2 |
| Dynamic stiffness | NPD | EN 29052-1 |
| Particle size distribution of EPS | PS6(N)-D0 | EN 933-1 |
| Water absorption | $W_p = 1,78$ Kg/m ² | EN 1609 |
| Thermal conductivity | $\lambda_D = 0,067$ W/mK | EN 12667 |
| Density of fresh mortar | 230Kg/m ³ ($\pm 15\%$) | EN 1015-6 |
| Bound EPS density | 210Kg/m ³ ($\pm 15\%$) | EN 1602 |
| Dry density | 190Kg/m ³ ($\pm 15\%$) | EN 1097-3 |
| Moisture sorption | NPD | EN ISO 12571 |
| Alkaline resistance | NPD | EN ISO 175 |



ARCHITEKTONIDIS MONOTIKA S.A. "TEKTO HELLAS S.A."

Production – Distribution – Application of building insulation material

Headquarters

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Branch office

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Production

10Km Thessalonikis - Neochoroudas,
Greece Tel: +302310782007
email: tekto@tekto.gr



The performances of the product identified above is in accordance with the performances declared. This declaration of performance is issued according to the Regulation (EU) number 305/2011, under the sole responsibility of the manufacturer identified above.

Table of thickness-thermal resistance R_D for $\lambda_D = \lambda_{(23,50)} = 0,067 \text{ W/mK}$

| Thickness cm | R_D $\text{m}^2\text{K/W}$ | Thickness cm | R_D $\text{m}^2\text{K/W}$ | Thickness cm | R_D $\text{m}^2\text{K/W}$ |
|-----------------|---------------------------------|-----------------|---------------------------------|-----------------|---------------------------------|
| 5,00 | 0,74 | 17,50 | 2,61 | 30,00 | 4,47 |
| 5,50 | 0,82 | 18,00 | 2,68 | 30,50 | 4,55 |
| 6,00 | 0,89 | 18,50 | 2,76 | 31,00 | 4,62 |
| 6,50 | 0,97 | 19,00 | 2,83 | 31,50 | 4,70 |
| 7,00 | 1,04 | 19,50 | 2,91 | 32,00 | 4,77 |
| 7,50 | 1,11 | 20,00 | 2,98 | 32,50 | 4,85 |
| 8,00 | 1,19 | 20,50 | 3,05 | 33,00 | 4,92 |
| 8,50 | 1,26 | 21,00 | 3,13 | 33,50 | 5,00 |
| 9,00 | 1,34 | 21,50 | 3,20 | 34,00 | 5,07 |
| 9,50 | 1,41 | 22,00 | 3,28 | 34,50 | 5,14 |
| 10,00 | 1,49 | 22,50 | 3,35 | 35,00 | 5,22 |
| 10,50 | 1,56 | 23,00 | 3,43 | 35,50 | 5,29 |
| 11,00 | 1,64 | 23,50 | 3,50 | 36,00 | 5,37 |
| 11,50 | 1,71 | 24,00 | 3,58 | 36,50 | 5,44 |
| 12,00 | 1,79 | 24,50 | 3,65 | 37,00 | 5,52 |
| 12,50 | 1,86 | 25,00 | 3,73 | 37,50 | 5,59 |
| 13,00 | 1,94 | 25,50 | 3,80 | 38,00 | 5,67 |
| 13,50 | 2,01 | 26,00 | 3,88 | 38,50 | 5,74 |
| 14,00 | 2,08 | 26,50 | 3,95 | 39,00 | 5,82 |
| 14,50 | 2,16 | 27,00 | 4,02 | 39,50 | 5,89 |
| 15,00 | 2,23 | 27,50 | 4,10 | 40,00 | 5,97 |
| 15,50 | 2,31 | 28,00 | 4,17 | 40,50 | 6,04 |
| 16,00 | 2,38 | 28,50 | 4,25 | 41,00 | 6,11 |
| 16,50 | 2,46 | 29,00 | 4,32 | 41,50 | 6,19 |
| 17,00 | 2,53 | 29,50 | 4,40 | 42,00 | 6,26 |

Signed on behalf of the manufacturer:


Theodore Architektonidis

Chemical Engineer, M.Eng.

Thessaloniki - Greece, 15/11/2024



CE MARKING

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| ARCHITEKTONIDIS MONOTIKA SA "TEKTO HELLAS" Headquarters: 10 Zakka str. Neapoli-Thessaloniki-Greece, PO 56727, Tel: +302310511871 Production site: 10km Thessalonikis-Neochoroudas road, Tel: +302310782007 www.tekto.gr e-mail: tekto@tekto.gr |
| DoP: POLITERM BLU 200 - 01/2024 |
| ETA 24-0636 |
| Manufactured on-site thermal and/or sound insulating Bound EPS (BEPS) mortar made of EPS (N) beads and cement, for the thermal and/or sound insulation of building constructions |
| <p>Reaction to fire: Euroclass A2-s1, d0 Content, emission and/or release of dangerous substances: Cr (VI) < 2ppm / HBCDD-free Water vapour permeability: $\mu = 9,3$ Compressive strength: $\sigma_m = 320$ kPa Compressive creep: $\epsilon_{c10a} = 0,37\%$, $\epsilon_{10a} = 0,48\%$ Dimensional stability at 60°C and 90% RH – 48 hours: $\Delta\epsilon_l = 0,1\%$, $\Delta\epsilon_\beta = 0,1\%$, $\Delta\epsilon_d = -0,1\%$ Deformation at 20kPa and 80°C – 48 hours: $\epsilon_2 = 0,32\%$ Particle size distribution of EPS: PS6(N)-D0 Water absorption: $W_p = 1,78\text{Kg/m}^2$ Thermal conductivity: $\lambda_D = 0,067$ W/mK Density of fresh mortar: $230\text{Kg/m}^3 (\pm 15\%)$ Bound EPS density: $210\text{Kg/m}^3 (\pm 15\%)$ Dry density: $190\text{Kg/m}^3 (\pm 15\%)$</p> |
| www.tekto.gr |