


Declaration of performance No. 03-DoP-2021-2

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|----------------------------------|---|--|--|---|
| 1. | Unique identification code of the product-type | GAMMA PASSIVE FASADA polystyrene boards EPS S EPS-EN 13163-T1-L2-W2-Sb2-P5-BS60 | | |
| 2. | Intended use or uses | Thermal insulation in construction | | |
| 3. | Producer | YETICO SA ul. Towarowa 17A PL-10-416 Olsztyn | | |
| 4. | System (s) of assessment and verification of constancy of performance | System 3 | | |
| 5. | Harmonized standard Notified body or bodies | EN 13163: 2012 + A1: 2015 Building Research Institute, No. 1488 Polish Center for Testing and Certification SA, No. 1434 | | |
| Declared performance | | | | |
| Essential characteristics | | Performance properties | Level / class / limit value / NPD¹⁾ | Harmonized technical specification |
| 6. | Thermal resistance | Thermal resistance Thermal conductivity | R _D - see table 1 λ _D - 0.033 W/m·K | EN 13163: 2012 + A1: 2015 |
| | | Thickness, d _N | T1 (±1mm) d _N - see table 1 | |
| | Reaction to fire | Reaction to fire | E | |
| | Durability of reaction to fire as a function of heat, weather, aging / degradation | Durability of properties ²⁾ | E | |
| | Durability of thermal resistance as a function of heat, weathering, aging / degradation | Thermal resistance ³⁾ Thermal conductivity ³⁾ | R _D - see table 1 λ _D - 0.033 W/m·K | |
| | | Durability of properties | NPD | |
| | Compressive strength | Compressive stress at 10% deformation | NPD | |
| | Tensile / bending strength | Flexural strength | BS60 | |
| | | Tensile strength perpendicular to the faces | NPD | |
| | Durability of compressive strength as a function of aging and degradation | Creep when squeezed | NPD | |
| Resistance to freezing - thawing | | NPD | | |
| Long-term thickness reduction | | NPD | | |

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|---|---|------|---------------------------|--|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Water permeability | Water absorption with prolonged immersion or Water absorption with long-term diffusion | NPD | EN 13163: 2012 + A1: 2015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | NPD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water vapor permeability | Water vapor transmission | NPD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Impact sound insulation index (for floors) | Dynamic stiffness | NPD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Thickness, d_L | NPD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Compressibility | NPD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Continuous glowing combustion | Continuous glowing combustion | NPD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Release of hazardous substances to the internal environment | Release of dangerous substances ⁴⁾ | NPD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ¹⁾ No Performance Determined ²⁾ The fire performance of EPS does not deteriorate over time ³⁾ the thermal conductivity and thermal resistance do not change over time ⁴⁾ European test methods are under development | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Table 1 Declared thermal resistance depending on the thickness of the product</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td>Thickness d_N [mm]</td> <td>10</td><td>20</td><td>30</td><td>40</td><td>50</td><td>60</td><td>70</td><td>80</td><td>90</td><td>100</td><td>110</td><td>120</td><td>130</td><td>140</td><td>150</td> </tr> <tr> <td>R_D [m²·K\W]</td> <td>0.30</td><td>0.60</td><td>0.90</td><td>1.20</td><td>1.50</td><td>1.80</td><td>2.10</td><td>2.40</td><td>2.70</td><td>3.00</td><td>3.30</td><td>3.60</td><td>3.90</td><td>4.20</td><td>4.50</td> </tr> <tr> <td>Thickness d_N [mm]</td> <td>160</td><td>170</td><td>180</td><td>190</td><td>200</td><td>210</td><td>220</td><td>230</td><td>240</td><td>250</td><td>260</td><td>270</td><td>280</td><td>290</td><td>300</td> </tr> <tr> <td>R_D [m²·K\W]</td> <td>4.80</td><td>5.15</td><td>5.45</td><td>5.75</td><td>6.05</td><td>6.35</td><td>6.65</td><td>6.95</td><td>7.25</td><td>7.55</td><td>7.85</td><td>8.15</td><td>8.45</td><td>8.75</td><td>9.05</td> </tr> </table> | | | | Thickness d_N [mm] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | R_D [m²·K\W] | 0.30 | 0.60 | 0.90 | 1.20 | 1.50 | 1.80 | 2.10 | 2.40 | 2.70 | 3.00 | 3.30 | 3.60 | 3.90 | 4.20 | 4.50 | Thickness d_N [mm] | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | R_D [m²·K\W] | 4.80 | 5.15 | 5.45 | 5.75 | 6.05 | 6.35 | 6.65 | 6.95 | 7.25 | 7.55 | 7.85 | 8.15 | 8.45 | 8.75 | 9.05 |
| Thickness d_N [mm] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_D [m²·K\W] | 0.30 | 0.60 | 0.90 | 1.20 | 1.50 | 1.80 | 2.10 | 2.40 | 2.70 | 3.00 | 3.30 | 3.60 | 3.90 | 4.20 | 4.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thickness d_N [mm] | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_D [m²·K\W] | 4.80 | 5.15 | 5.45 | 5.75 | 6.05 | 6.35 | 6.65 | 6.95 | 7.25 | 7.55 | 7.85 | 8.15 | 8.45 | 8.75 | 9.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>The performance of the product identified above is in line with the set of declared performance properties. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Signed on behalf of the manufacturer by:</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p style="text-align: center;">Dyrektor ds. Zapewnienia Jakości Ewa Gawlińska</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>in Olsztyn, on November 15, 2021</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |