

Declaration of performance No. 21-DoP-2021-2

1.	Unique identification code of the product-type	Styrofoam plates AQUA PASSIVE EPS P80 EPS 80 EPS-EN 13163-T1-L3-W2-Sb2-P5-BS125-CS(10)80-DS(N)2-DS(70.90)1-DLT(1)5-WL(T)2-WD(V)3		
2.	Intended use or uses	Thermal insulation in construction		
3.	Producer	YETICO SA PL-10-416 Olsztyn ul. Towarowa 17A		
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 - 0.031 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 - 0.031 W/m·K	
		Durability of properties	DS(70.90)1 relative thickness change (≤1%)	
	Compressive strength	Compressive stress at 10% deformation	CS(10)80	
	Tensile / bending strength	Flexural strength	BS125	
		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	WL(T)2 NPD	EN 13163: 2012 + A1: 2015																																												
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><i>Table 1 Declared thermal resistance depending on the thickness of the product</i></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="text-align: left;">Thickness d_N [mm]</th> <th>50</th><th>60</th><th>70</th><th>80</th><th>90</th><th>100</th><th>110</th><th>120</th><th>130</th><th>140</th><th>150</th><th>160</th><th>170</th><th>180</th><th>190</th><th>200</th><th>210</th><th>220</th><th>230</th><th>240</th><th>250</th> </tr> </thead> <tbody> <tr> <th style="text-align: left;">R_D [m²·K/W]</th> <td>1.60</td><td>1.90</td><td>2.25</td><td>2.55</td><td>2.90</td><td>3.20</td><td>3.50</td><td>3.85</td><td>4.15</td><td>4.50</td><td>4.80</td><td>5.15</td><td>5.45</td><td>5.80</td><td>6.10</td><td>6.45</td><td>6.75</td><td>7.05</td><td>7.40</td><td>7.70</td><td>8.05</td> </tr> </tbody> </table> <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 style="text-align: center;">Signed on behalf of the manufacturer by:</p> <div style="text-align: center; margin: 10px 0;">  Dyrektor ds. Zapewnienia Jakości Ewa Gawlińska </div> <p style="text-align: center;">in Olsztyn, on November 15, 2021</p>				Thickness d_N [mm]	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	R_D [m ² ·K/W]	1.60	1.90	2.25	2.55	2.90	3.20	3.50	3.85	4.15	4.50	4.80	5.15	5.45	5.80	6.10	6.45	6.75	7.05	7.40	7.70	8.05
Thickness d_N [mm]	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250																										
R_D [m ² ·K/W]	1.60	1.90	2.25	2.55	2.90	3.20	3.50	3.85	4.15	4.50	4.80	5.15	5.45	5.80	6.10	6.45	6.75	7.05	7.40	7.70	8.05																										