



Declaration of Performance

No. 09_18_V1



1. Unique identification code of the product type:

Styropan Graphite EPS 80

Expanded Polystyrene (graphite-grey)



2. Intended use:

Thermal insulation for buildings. Also, suitable for use in External Thermal Insulation Composite Systems (ETICS)

3. Manufacturer:

Styropan I. Katsaounidis & Co. S.A.
14th km Thessaloniki-Veroia Road , GR-57011 Thessaloniki

4. Authorised representative:

Not applicable

5. System of assesment and verification of constancy of performance (AVCP):

System 1

6a. Harmonised standard: EN 13163:2012+A1:2015 & ETAG-004
Notified Bodies:

NB 1434, 1486

NB 2423



6b. Not applicable

Certificate No.: THERM9921/1

Certificate Date: 25/04/2018

7. Declared performance:

Essential characteristics	Performance	Remarks	Harmonised technical specification																						
Thermal conductivity λ_D	λ_D 0,031 W/(m*K)	-	EN 12667:2001																						
Thermal Resistance R_D	<table border="1"> <thead> <tr> <th>d (mm)</th> <th>20</th> <th>30</th> <th>40</th> <th>50</th> <th>60</th> <th>70</th> <th>80</th> <th>100</th> <th>120</th> <th>150</th> </tr> </thead> <tbody> <tr> <td>R_D (m²*K/W)</td> <td>0,60</td> <td>0,95</td> <td>1,25</td> <td>1,60</td> <td>1,90</td> <td>2,25</td> <td>2,55</td> <td>3,20</td> <td>3,85</td> <td>4,80</td> </tr> </tbody> </table>	d (mm)	20	30	40	50	60	70	80	100	120	150	R_D (m ² *K/W)	0,60	0,95	1,25	1,60	1,90	2,25	2,55	3,20	3,85	4,80	-	EN 12667:2001
d (mm)	20	30	40	50	60	70	80	100	120	150															
R_D (m ² *K/W)	0,60	0,95	1,25	1,60	1,90	2,25	2,55	3,20	3,85	4,80															
Dimensional tolerances:	Length	L(2)	+2mm	EN 822:2013																					
	Width	W(2)	+2mm	EN 822:2013																					
	Thickness	T(1)	+1mm	EN 823:2013																					
	Squareness	S(2)	+2/1000mm	EN 824:2013																					
	Flatness	P(5)	5mm	EN 825:2013																					
Dimensional stability	DS(N)2- DS(70,90)1	1%	EN 1604:2013																						
Compression stress at 10% deformation	CS(10)80	$\sigma_{10} \geq 80$ kPa	EN 826:2013																						
Bending strength	BS125	$\sigma_b \geq 125$ kPa	EN 826:2013																						
Tensile strength perpendicular to faces	TR150	$\sigma_{mt} \geq 150$ kPa	EN 1607:2013																						
Shear strength	SS60	-	EN 12090:2013																						
Shear modulus	GM1,648	-	EN 12090:2013																						
Long-term water absorption by partial immersion	WL(P)0,10	-	EN 12087:2013																						
Long-term water absorption by total immersion	WL(T)2,5	-	EN 12087:2013																						
Water vapour diffusion resistance factor μ [1]	20	tabulated acc. to EN 13163/Annex F	EN 12086:2013																						
Reaction to fire	E	-	EN 13501-1:2007+A1:2009																						

Properties not claimed or declared, shall be considered as No Performance Determined (NPD)

8. Not applicable

The performance of the product identified above is in conformity with the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No 305/211 under the sole responsibility of the manufacturer identified above.

Kostantinos Katsaounidis
General Manager

Thessaloniki 30 / 05 / 2018

Signed for and on behalf of the manufacturer by