

Sika ThermoCoat®-2 HS Grafrit Plus 80

DECLARATION OF PERFORMANCE

No. 53291544

1	UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE:	53291544
2	INTENDED USE/S:	Factory made thermal insulation products of Expanded Polystyrene for buildings
3	MANUFACTURER:	Sika Hellas ABEE 15 Protomagias Str. GR 145 68 Kryoneri Athens - Greece www.sika.gr
4	AUTHORISED REPRESENTATIVE:	
5	SYSTEM/S OF AVCP:	System 3
6	HARMONIZED STANDARD:	EN 13163 : 2012+A1:2015
	Notified body/ies:	1454

Declaration of Performance

Sika ThermoCoat®-2 HS Grafrit Plus 80

53291544

2023.12 Version 2

7a DECLARED PERFORMANCE/S:

Essential Characteristics	Performance	AVCP	Harmonised Technical Specification
Resistance to fire	Class E	System 3	EN 13163 : 2012+A1:2015
Thermal Resistance	R_d [m ² K/W] Table 7.b	System 3	
Thermal conductivity	0,030 λ_d [W/m K]	System 3	
Thickness	± 1 T	System 3	
Length	± 2 L	System 3	
Width	± 2 W	System 3	
Squareness	± 2 S	System 3	
Flatness	± 5 P	System 3	
Dimensional Stability: Laboratory Conditions (23° C / 50% moist.)	≤2% DS(N)	System 3	
Dimensional Stability: Special Conditions (70° C / 90% moist.)	≤ 1% DS(70,90)	System 3	
Compression strength for 10% deformation σ_{10}	≥ 80 CS(10) [kPa]	System 3	
Tensile strength perpendicular to faces σ_{mt}	≥ 150 TR [kPa]	System 3	
Bending strength σ_b	≥ 125 BS [kpa]	System 3	
Resistance against ageing/degradation: Resistance to fire	No change	System 3	
Resistance against ageing/degradation: Thermal conductivity	No change	System 3	
Absorption with total immersion for 28 days	NPD	System 3	
Absorption by partial immersion for 24 hours	≤ 0,5 WL(P) [kg/m ²]	System 3	
Water vapour diffusion agent	20-40 μ [1]	System 3	
Vapour diffusion	0,015 - 0,030 δ [mg/(Pa h m)]	System 3	
Release of dangerous substances	NPD	System 3	
Dynamic stiffness	NPD	System 3	
Compressibility	NPD	System 3	
Shear strength	≥ 0,02 f_{tk} [N/mm ²]	System 3	
Shear factor	≥ 1,0 G_m [N/mm ²]	System 3	

7b DECLARED PERFORMANCE/S: Characteristics corresponding to the classification (CSTB)

Product thickness - mm	20	30	40	50	60	70	80	100	120
Therm. resist. R_d - m²K/W	0,667	1,000	1,333	1,667	2,000	2,333	2,667	3,333	4,000
Product thickness - mm	140	160	180	200	220	240	260	280	300
Therm. resist. R_d - m²K/W	4,667	5,333	5,000	6,000	7,333	8,000	8,667	9,333	10,000

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**8 APPROPRIATE TECHNICAL DOCUMENTATION AND/OR -
SPECIFIC TECHNICAL DOCUMENTATION:**

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Name: Nikos Anagnostopoulos
Function: Target Market Manager
Refurbishment
At Athens on 11 December 2023



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Name: Angeliki Zacharopoulou
Function: QEHS Manager
At Athens on 11 December 2023



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End of information as required by Regulation (EU) No 305/2011

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DoP No 53291544

Sika Hellas ABEE, Athens - Greece

Notified Body 1454

EN 13163: 2012+A1:2015

Factory made thermal insulation products of Expanded Polystyrene for buildings

Resistance to fire	Class E
Thermal Resistance	R_d [m ² K/W] Table 7.b
Thermal conductivity	0,030 λ_d [W/m K]
Thickness	± 1 T
Length	± 2 L
Width	± 2 W
Squareness	± 2 S
Flatness	± 5 P
Dimensional Stability: Laboratory Conditions (23° C / 50% moist.)	$\leq 2\%$ DS(N)
Compression strength for 10% deformation σ_{10}	≥ 80 CS(10) [kPa]
Tensile strength perpendicular to faces σ_{mt}	≥ 150 TR [kPa]
Dimensional Stability: Special Conditions (70° C / 90% moist.)	$\leq 1\%$ DS(70,90)
Bending strength σ_b	≥ 125 BS [kpa]
Resistance against ageing/degradation: Resistance to fire	Δ εν μεταβάλλεται
Resistance against ageing/degradation: Thermal conductivity	Δ εν μεταβάλλεται
Absorption by partial immersion for 24 hours	$\leq 0,5$ WL(P) [kg/m ²]
Water vapour diffusion agent	20-40 μ [1]
Vapour diffusion	0,015 - 0,030 δ [mg/(Pa h m)]
Shear strength	$\geq 0,02$ f_{tk} [N/mm ²]
Shear factor	$\geq 1,0$ G_m [N/mm ²]

<http://dop.sika.com>

ECOLOGY, HEALTH AND SAFETY INFORMATION (REACH)

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

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LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the products suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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