

**DECLARATION OF  
PERFORMANCE  
No 301-G1**

**RAVATHERM HELLAS S.A.**

**Fibrostim xps**

<b>1. Unique identification code of the product-type:</b>										
a) XPS-BDS EN13164-T2-CS(10/Y)200-DS(TH)-WL(T)0,7-WD(V)3-TR400										
b) XPS-BDS EN13164-T2-CS(10/Y)250-DS(TH)-WL(T)0,7-WD(V)3-TR400										
c) XPS-BDS EN13164-T2-CS(10/Y)300-DS(TH)-WL(T)0,7-WD(V)3-TR400										
d) XPS-BDS EN13164-T2-CS(10/Y)300-DS(TH)-WL(T)0,7-WD(V)3-TR400										
e) XPS-BDS EN13164-T2-CS(10/Y)300-DS(TH)-WL(T)1,5-WD(V)3-TR400										
<b>2. Type:</b>										
a) Fibrostim 20mm embossed-gofrated (GF)										
b) Fibrostim 30mm embossed-gofrated (GF)										
c) Fibrostim 40mm-50mm embossed-gofrated (GF)										
d) Fibrostim 60mm-70mm-80mm embossed-gofrated (GF)										
e) Fibrostim 100mm-120mm embossed-gofrated (GF)										
<b>3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification:</b>										
EN 13164:2012+A1:2015 - Thermal insulation for Buildings										
<b>4. Name and contact address of the manufacturer:</b>										
Ravatherm Hellas SA Sevasti-Pieria-Greece 60100										
<b>5. System of assessment and verification of constancy of performance of the construction product: System 3</b>										
<b>6. Name and identification number of notified body: I.G. (No 0407), NISM (No 1950), CTEC (No 1871)</b>										
<b>7. Essential characteristics EN 13164:2012+A1:2015</b>										
Dimensional tolerances	Standard EN	Symbol						Performance		
	EN 823	T						2		
Compressive strength	EN 826	CS(10/Y) [kPa]						a)200 b)250 c)300 d)300 e)300		
Tensile strength	EN 1607	TR [kPa]						400		
Reaction to fire	EN 13501-1	Euroclass						E		
Continuous glowing combustion								NPD		
Acoustic absorption index								NPD		
Water permeability	Long term water absorption by total immersion	EN 12087	WL(T) [vol%]						a)0,7 b)0,7 c)0,7 d)0,7 e)1,5	
	Long term water absorption by diffusion	EN 12088	WD(V) [vol%]						NPD	
Water vapor transmission	Water vapor diffusion resistance factor	EN 12086	MU						50	
Durability of compressive strength against heat, weathering, ageing/degradation	Compressive creep	EN 1606	CC (2/1,5/50)						NPD	
Durability of reaction to fire against heat, weathering, ageing/degradation	The reaction to fire performance of XPS does not change with time									
Thermal resistance and thermal conductivity	see below R <sub>0</sub> and λ <sub>0</sub>									
Durability of thermal resistance against heat, weathering, ageing/degradation	Freeze-thaw resistance after long term water diffusion test	EN 12091	FTCD						NPD	
	Freeze-thaw resistance after long term water absorption by total immersion	EN 12091	FTCI						NPD	
	Dimensional stability under specified temperature and humidity conditions	EN 1604	DS						(70,90) (≤5%)	
	Deformation under specified compressive load	EN 1605	DLT						NPD	
Dangerous substances	Release of dangerous substances to the indoor environment									
<b>Thickness-d<sub>N</sub> [mm]</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>100</b>	<b>120</b>	
<b>Thermal resistance-R<sub>0</sub> [(m<sup>2</sup>·K)/W]</b>	EN 12667	0,66	0,94	1,21	1,52	1,82	2,06	2,35	2,94	3,53
<b>Thermal conductivity-λ<sub>0</sub> [W/(m·K)]</b>	EN 12667	0,0304	0,0318	0,033			0,034			

Quality Assurance Manager  
Apostolos Giannoulis

Issue Date 1/3/2017

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