



EN 13165 : 2012+A2:2016

Declaration of Performance

Identification: BTF

Version No. 4

September 2018

Declaration of Performance

1	Unique identification code of the product-type:	Ballytherm BTF (Floor Insulation)
2	Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):	See product label for details (including the batch No on each board)
3	Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:	PIR Thermal Insulation For Buildings
4	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):	Ballytherm Limited Annagh Industrial Park Ballyconnell Co Cavan Ireland
5	Where applicable, name and contact address of the authorised representative whose mandate covers the task specified in Article 12 (2):	Not applicable (See 4)
6	System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:	System 3 and system 4
7	In case of the declaration of performance concerning a construction product covered by a harmonised standard:	EN 13165:2012+A2:2016 Notified testing laboratory 1: BBA Bucknalls Lane, Watford, Herts WD25 9BA , United Kingdom. Notified body No: 0836 Performed type testing under system 3 and issued test reports.
8	In case of the declaration of performance concerning a construction product for which a European technical assessment has been issued:	Not applicable (See 7)


9 Declared performance:

Essential characteristics	Performance	Harmonised technical specification.																																																			
		Test Standard	Harmonised Standard																																																		
Thermal conductivity λ_D (W/(m.K))	0.022	EN 12667	EN13165:2012 +A2:2016																																																		
Thermal resistance R_D (m^2K/W)	<table border="0"> <tr><td>d_N 20mm -</td><td>0.909m^2K/W</td></tr> <tr><td>d_N 25mm -</td><td>1.136m^2K/W</td></tr> <tr><td>d_N 30mm -</td><td>1.364m^2K/W</td></tr> <tr><td>d_N 35mm -</td><td>1.590m^2K/W</td></tr> <tr><td>d_N 40mm -</td><td>1.818m^2K/W</td></tr> <tr><td>d_N 50mm -</td><td>2.272m^2K/W</td></tr> <tr><td>d_N 60mm -</td><td>2.727m^2K/W</td></tr> <tr><td>d_N 65mm -</td><td>2.955m^2K/W</td></tr> <tr><td>d_N 70mm -</td><td>3.181m^2K/W</td></tr> <tr><td>d_N 75mm -</td><td>3.409m^2K/W</td></tr> <tr><td>d_N 80mm -</td><td>3.636m^2K/W</td></tr> <tr><td>d_N 90mm -</td><td>4.091m^2K/W</td></tr> <tr><td>d_N 100mm -</td><td>4.545m^2K/W</td></tr> <tr><td>d_N 110mm -</td><td>5.000m^2K/W</td></tr> <tr><td>d_N 120mm -</td><td>5.454m^2K/W</td></tr> <tr><td>d_N 125mm -</td><td>5.681m^2K/W</td></tr> <tr><td>d_N 130mm -</td><td>5.909m^2K/W</td></tr> <tr><td>d_N 140mm -</td><td>6.363m^2K/W</td></tr> <tr><td>d_N 150mm -</td><td>6.818m^2K/W</td></tr> <tr><td>d_N 160mm -</td><td>7.272m^2K/W</td></tr> <tr><td>d_N 165mm -</td><td>7.500m^2K/W</td></tr> <tr><td>d_N 170mm -</td><td>7.727m^2K/W</td></tr> <tr><td>d_N 180mm -</td><td>8.181m^2K/W</td></tr> <tr><td>d_N 190mm -</td><td>8.636m^2K/W</td></tr> <tr><td>d_N 200mm -</td><td>9.090m^2K/W</td></tr> </table>	d_N 20mm -		0.909 m^2K/W	d_N 25mm -	1.136 m^2K/W	d_N 30mm -	1.364 m^2K/W	d_N 35mm -	1.590 m^2K/W	d_N 40mm -	1.818 m^2K/W	d_N 50mm -	2.272 m^2K/W	d_N 60mm -	2.727 m^2K/W	d_N 65mm -	2.955 m^2K/W	d_N 70mm -	3.181 m^2K/W	d_N 75mm -	3.409 m^2K/W	d_N 80mm -	3.636 m^2K/W	d_N 90mm -	4.091 m^2K/W	d_N 100mm -	4.545 m^2K/W	d_N 110mm -	5.000 m^2K/W	d_N 120mm -	5.454 m^2K/W	d_N 125mm -	5.681 m^2K/W	d_N 130mm -	5.909 m^2K/W	d_N 140mm -	6.363 m^2K/W	d_N 150mm -	6.818 m^2K/W	d_N 160mm -	7.272 m^2K/W	d_N 165mm -	7.500 m^2K/W	d_N 170mm -	7.727 m^2K/W	d_N 180mm -	8.181 m^2K/W	d_N 190mm -	8.636 m^2K/W	d_N 200mm -	9.090 m^2K/W	
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Reaction to fire	Euroclass Rt F	EN 13501-1																																																			
Thickness	<table border="0"> <tr><td>$d_N < 50mm$ -</td><td>T2; $\pm 2mm$</td></tr> <tr><td>$d_N 50$ to 75mm -</td><td>T2; $\pm 3mm$</td></tr> <tr><td>$d_N > 75mm$ -</td><td>T2; +5, -3mm</td></tr> </table>	$d_N < 50mm$ -	T2; $\pm 2mm$	$d_N 50$ to 75mm -	T2; $\pm 3mm$	$d_N > 75mm$ -	T2; +5, -3mm	EN 823																																													
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Length and width	<table border="0"> <tr><td><1000mm</td><td>$\pm 5mm$</td></tr> <tr><td>1000 to 2000mm</td><td>$\pm 7mm$</td></tr> <tr><td>2001 to 4000mm</td><td>$\pm 10mm$</td></tr> <tr><td>>4000mm</td><td>$\pm 15mm$</td></tr> </table>	<1000mm	$\pm 5mm$	1000 to 2000mm	$\pm 7mm$	2001 to 4000mm	$\pm 10mm$	>4000mm	$\pm 15mm$	EN 822																																											
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Squareness	$\leq 5mm/m$	EN824																																																			
Flatness	<table border="0"> <tr><td>Length</td><td>$\leq 2,50m$</td></tr> <tr><td>Area $\leq 0,75m^2$</td><td>Deviation $\leq 5mm$</td></tr> <tr><td>Area $> 0,75m^2$</td><td>Deviation $\leq 10mm$</td></tr> </table>	Length	$\leq 2,50m$	Area $\leq 0,75m^2$	Deviation $\leq 5mm$	Area $> 0,75m^2$	Deviation $\leq 10mm$	EN 825																																													
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Flatness after one side wetting	FW2 Deviation $\leq 10mm$	EN 825																																																			
Long term water absorption (immersion)	Wlt 28Days $\leq 1.5\%v/v$	EN 12087																																																			
Water vapour permeability	Z 60-100 (h m^2 Pa)/mg	EN 12086																																																			
Compressive Strength	CS (10\Y)140	EN 826																																																			
Dimensional stability under specified temperatures and humidity conditions	<table border="0"> <tr><td>48 h, 23°C, 90% R.H.</td><td>DS (23,90)2</td></tr> <tr><td>48 h, -20°C</td><td>DS (-20,-)2</td></tr> </table>	48 h, 23°C, 90% R.H.	DS (23,90)2	48 h, -20°C	DS (-20,-)2	EN1604																																															
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Deformation under specified compressive load and temperature conditions	<table border="0"> <tr><td>20 kPa, 23°C, 48h</td><td>DLT (1)5</td></tr> <tr><td>20 kPa, 80°C, 48h</td><td>DLT (1)5</td></tr> </table>	20 kPa, 23°C, 48h	DLT (1)5	20 kPa, 80°C, 48h	DLT (1)5	EN 1605																																															
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10 Declaration

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Brendan Cosgrove Managing Director 	Annagh Industrial Park Ballyconnell Co Cavan ROI 3 rd September 2018
(Name and function)	(Place and date of issue)