



EN 13165 : 2012+A2:2016

Declaration of Performance

Identification: BTR

Version No. 4

September 2018

Declaration of Performance

1	Unique identification code of the product-type:	Ballytherm BTR (Roof 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 ² K/W)	dN 20mm - 0.909m ² K/W dN 25mm - 1.136m ² K/W dN 30mm - 1.364m ² K/W dN 35mm - 1.590m ² K/W dN 40mm - 1.818m ² K/W dN 50mm - 2.272m ² K/W dN 60mm - 2.727m ² K/W dN 65mm - 2.955m ² K/W dN 70mm - 3.181m ² K/W dN 75mm - 3.409m ² K/W dN 80mm - 3.636m ² K/W dN 90mm - 4.091m ² K/W dN 100mm - 4.545m ² K/W dN 110mm - 5.000m ² K/W dN 120mm - 5.454m ² K/W dN 125mm - 5.681m ² K/W dN 130mm - 5.909m ² K/W dN 140mm - 6.363m ² K/W dN 150mm - 6.818m ² K/W dN 160mm - 7.272m ² K/W dN 165mm - 7.500m ² K/W dN 170mm - 7.727m ² K/W dN 180mm - 8.181m ² K/W dN 190mm - 8.636m ² K/W dN 200mm - 9.090m ² K/W		
Reaction to fire	Euroclass Rt F	EN 13501-1	
Thickness	dN < 50mm - T2; ±2mm dN 50 to 75mm - T2; ±3mm dN > 75mm - T2; +5, -3mm	EN 823	
Length and width	<1000mm ± 5mm 1000 to 2000mm ± 7mm 2001 to 4000mm ± 10mm >4000mm ± 15mm	EN 822	
Squareness	≤5mm/m	EN824	
Flatness	Length ≤2,50m Area ≤0,75m ² Deviation ≤ 5mm Area >0,75m ² Deviation ≤ 10mm	EN 825	
Flatness after one side wetting	FW2 Deviation ≤ 10mm	EN 825	
Long term water absorption (immersion)	Wlt 28Days ≤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	48 h, 23°C, 90% R.H. DS (23,90)2 48 h, -20°C DS (-20,-)2	EN1604	
Deformation under specified compressive load and temperature conditions	20 kPa, 23°C, 48h DLT (1)5 20 kPa, 80°C, 48h DLT (1)5	EN 1605	

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)