Declaration of Performance



Optim-R

1000.CPR.2016.OPTIM-R.002

Unique identification code of the product-type:

Intended use/es: Factory made Vacuum insulation panel Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK Manufacturer:

System/s of AVCP: System 3 Harmonised technical specification ETA 15/0090

Notified body/ies: Exova NB 1104.KIWA NB.0063

Essential characteristics		Performance	
Thermal resistance	Thermal resistance R _D ((m².K)/W)	dN 25mm 3 dN 30mm 4 dN 40mm 5	2.86 3.57 1.28 5.71 7.14
	Thermal conductivity λ_D (W/(m.K))	d _N 20-50mm 0	0.007
	Thickness tolerance	+2/-2mm	
Flatness	Flatness	≤5mm.m ⁻¹	
Squareness	Squareness	≤5mm.m-1	
Reaction to fire	RtF	RtF E/Efl	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability Characteristic	NPD	
Durability of Thermal resistance against heat, weathering, ageing / degradation	Durability Characteristic	NPD	
	Deformation under specified compressive load and temp conditions	DLT(2)5	
	Dimensional stability under normal lab conditions	DS(N)5	
	Dimensional stability under specified temperature and humidity condition	DS(70,90)1	
	Determination of the aged values of thermal resistance and thermal conductivity	RD and λD	
	Thermal conductivity λ_D (W/(m.K))	0.007	
Compressive strength	Compressive stress or compressive strength	CS(10)150	
Tensile / Flexural strength	Tensile strength perpendicular to faces	TR80	



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Density	Range	180-220 kg.m ⁻³	
OTR	(oxygen transmission rate)	OTR<0.05	
length and width	L≤ 1000mm: -3mm/+ L> 1000mm: -5mm/+ W ≤ 1000mm: -3mm/+3mm W> 1000mm: -5mm/+5mm	(Min length =300mm) (Min width =300mm)	
Durability of compressive strength against ageing / degradation	Compressive creep	NPD	
Water permeability	Short term water absorption	NPD	
	Long term water absorption	NPD	
Water vapour permeability	Water vapour resistance	NPD	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD	
Continuous glowing combustion	Continuous glowing combustion	NPD	
NPD: No Performance Determined			

The performance of the product identified above is in conformity with the set of declared performances. 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:

..... Ralph Mannion

Managing Director UK and Ireland Pembridge, England, UK

Version 2

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