



UK Declaration of Performance

Kingspan OPTIM-R®

1000.UKDoP.OPTIM-R.003

Unique identification code of the product-type:

Intended use/es:

Manufacturer:

System/s of AVCP:

Designated technical specification/UKAD:

UK Assessment body/ies:

UK Technical Assessment no:

Kingspan OPTIM-R

Factory made Vacuum insulation panel

Kingspan Insulation Ltd, Herefordshire HR6 9LA, UK

System 3

UKAD-040011-00-1201

BBA:0836

UKTA-0836-22/0029

Essential characteristics		Performance	
Thermal resistance	Thermal resistance R_D ((m ² .K)/W)	d_N 20mm	2.85
		d_N 25mm	3.55
		d_N 30mm	4.25
		d_N 40mm	5.70
		d_N 50mm	7.10
	Thermal conductivity λ_D (W/(m.K))	d_N 20-50mm	0.007
	Thickness tolerance	+2/-2mm	
Flatness	Flatness	$\leq 5\text{mm.m}^{-1}$	
Squareness	Squareness	$\leq 5\text{mm.m}^{-1}$	
Reaction to fire	RtF	E	
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 λ_D	
	Thermal conductivity λ_D (W/(m.K))	0.007	

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Compressive strength	Compressive stress or compressive strength	CS(10\Y)150
Tensile / Flexural strength	Tensile strength perpendicular to faces	TR80
Density	Range	170-210 kg.m ⁻³
OTR	(oxygen transmission rate)	OTR 0.5µl.m ⁻² .day ⁻¹
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		

EU Regulation 305/2011, as retained in UK law, and as amended by SI no. 465/2019 (the Construction Products (Amendment etc.) (EU Exit) Regulations 2019) and SI no. 1359/2020 (the Construction Products (Amendment etc.) (EU Exit) Regulations 2020.)

Signed for and on behalf of the manufacturer by:



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Siobhan O'Dwyer
Managing Director
Pembridge, England, UK
Date signed: 29/07/2024
Issue Number: 003



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