



Declaration of Performance

Kingspan GreenGuard® GG500

1001.CPR.GG500.2019.003

Unique identification code of the product-type: **GreenGuard® GG500**
 Intended use/es: **Thermal insulation for buildings**
 Manufacturer: **Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK**
 System/s of AVCP: **System 3**
 Harmonised technical specification: **EN 13164:2012+A1:2015**
 Notified body/ies: **BBA No.0836, BITS No.1334, Warringtonfire No. 0833, Efectis No. 2822, University of Salford No.1145**

Essential characteristics		Performance	
Thermal resistance	Thermal resistance R_D ((m ² .K)/W)	d_N 40mm	1.15
		d_N 50mm	1.45
		d_N 60mm	1.75
		d_N 70mm	1.90
		d_N 80mm	2.20
		d_N 100mm	2.75
		d_N 120mm	3.30
Thermal resistance	Thermal conductivity λ_D (W/(m.K))	d_N 40-60	0.034
		d_N >60	0.036
Thermal resistance	Thickness tolerance	d_N <50	T1 ±2mm
		d_N 50-120	T1 -2 +3mm
Thermal resistance	Thickness tolerance	d_N >120	T1 -2 +6mm
		Length and width	≤ 1500 mm
Thermal resistance	Flatness	> 1500 mm	± 10.0mm
		Squareness	Length and width
Reaction to fire	Reaction to fire	E	
Durability of reaction to fire against heat, weathering, ageing / degradation	Durability characteristics	NPD	
Durability of thermal resistance against heat, weathering, ageing/degradation	Dimensional stability under specified temperature and humidity conditions	DS(70,90)	
	Deformation under specified compressive load and temperature conditions	NPD	
Compressive strength	Compressive stress or compressive strength	CS(10/Y)500	
Tensile / Flexural strength	Tensile strength perpendicular to faces	TR100	
Durability of compressive strength against ageing / degradation	Compressive creep	NPD	
Water permeability	Long term water absorption by total immersion	NPD	
	Long term water absorption by diffusion	NPD	
	Freeze-thaw resistance after long term water absorption by diffusion	NPD	
Water vapour permeability	Water vapour transmission	MU80	
Closed cell content	Closed cell content	CV98	
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD	
NPD: No Performance Determined			



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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:

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Ralph Mannion
Managing Director UK and Ireland
Selby, England, UK
Version: 3
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First signed: 1/1/2019