



# Declaration of Performance

Kingspan GreenGuard® GG500

1001.CPR.2013.GG500.007

Unique identification code of the product-type: **Kingspan GreenGuard® GG500**  
 Intended use/es: **Thermal insulation for buildings**  
 Manufacturer: **Kingspan Insulation Ltd, Herefordshire HR6 9LA, UK**  
 System/s of AVCP: **System 4 (Reaction to fire), System 3 (Other Properties)**  
 Harmonised technical specification: **EN 13164:2012+A1:2015**  
 Notified body/ies: **FIW Munchen: 0751**

Essential characteristics		Performance	
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	d <sub>N</sub> 40mm	1.15
		d <sub>N</sub> 50mm	1.45
		d <sub>N</sub> 60mm	1.75
d <sub>N</sub> 70mm		1.90	
d <sub>N</sub> 80mm		2.20	
d <sub>N</sub> 100mm		2.75	
		d <sub>N</sub> 120mm	3.30
	Thermal conductivity $\lambda_D$ (W/(m.K))	d <sub>N</sub> 50-60	0.034
		d <sub>N</sub> >60	0.036
	Thickness tolerance	d <sub>N</sub> <50	T1 ±2mm
		d <sub>N</sub> 50-120	T1 -2 +3mm
		d <sub>N</sub> >120	T1 -2 +6mm
Reaction to fire	Reaction to fire	F	
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	NPD	
Closed cell content	Closed cell content	NPD	
Continuous Glowing combustion	Glowing combustion	NPD	
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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**Aiveen Kearney**  
**Managing Director**  
**Selby, England, UK**  
**Date signed: 17/10/2022**  
**Issue Number: 007**