

# Declaration of Performance

Kooltherm® K103

1000.CPR.2013.K103.001

Unique identification code of the product-type:	<b>Kooltherm® K103</b>
Intended use/es:	<b>Thermal insulation for buildings</b>
Manufacturer:	<b>Kingspan Insulation Ltd, Herefordshire HR6 9LA,UK</b>
System/s of AVCP:	<b>System 3</b>
Harmonised technical specification	<b>BS-EN 13166:2012+A2:2016</b>
Notified body/ies:	<b>University of Salford NB 1145.B.I.T.S NB 1334.Exova NB 1104</b>

Essential characteristics		Performance	
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	d <sub>N</sub> 20mm	1.10
		d <sub>N</sub> 30mm	1.65
		d <sub>N</sub> 40mm	2.20
		d <sub>N</sub> 50mm	2.75
		d <sub>N</sub> 60mm	3.30
d <sub>N</sub> 70mm		3.85	
d <sub>N</sub> 80mm		4.40	
d <sub>N</sub> 90mm		5.00	
d <sub>N</sub> 100mm		5.55	
d <sub>N</sub> 120mm		6.65	
d <sub>N</sub> 140mm		7.75	
d <sub>N</sub> 150mm	8.30		
	Thermal conductivity $\lambda_D$ (W/(m.K))	0.018	
	Thickness tolerance	d <sub>N</sub> 25-150mm	T1
	Closed cell content	CV	
Reaction to fire		R <sub>tf</sub> NPD	
Durability of reaction to fire against heat, weathering, ageing / degradation		Reaction to fire does not change with time	
Dimensional stability under specified temperature and humidity condition		DS(70,90) DS(-20,-)	
Compressive strength	Compressive stress or compressive strength	CS(Y)120	
Tensile / Flexural strength	Tensile strength perpendicular to faces	NPD	
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 transmission	NPD	
Release of dangerous substances to the indoor environment		No harmonized test method available	
Continuous glowing combustion		No harmonized test method available	
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:

Richard Burnley  
 Managing Director UK and Ireland 1/1/2016  
 Pembridge, England, UK

