

# Declaration of Performance

Kooltherm® K108

1000.CPR.2013.K108.002

Unique identification code of the product-type:	<b>Kooltherm® K108</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>FIW München NB. 0751 B.I.T.S NB 1334</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> 20-140mm	T1
	Closed cell content	CV	
Reaction to fire		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)100 )	
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			

Signed for and on behalf of the manufacturer by:

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

