

# Declaration of Performance

Kooltherm® K5

1003.CPR.2013.K5.001

1.	Unique identification code of the product-type	<b>Kooltherm® K5</b>
2.	Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4)	<b>See product label and marking on boards</b>
3.	Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer	<b>Thermal insulation for buildings</b>
4.	Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)	<b>Kingspan Insulation BV Lingewei 8 4004 LL, Tiel The Netherlands</b>
5.	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2)	<b>Not relevant</b>
6.	System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V	<b>System 1; reaction to fire System 3; all other characteristics</b>
7.	In case of the declaration of performance concerning a construction product covered by a harmonised standard	<b>EN 13166:2012</b> <b>Notified certification body FIW München (No. 0751) performed the determination of the product type, the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control under system 1 and issued the certificate of constancy of performance for reaction to fire (No. K1-0751-CPD-282.0-01)</b>  <b>Notified testing laboratory FIW München (No. 0751) performed the determination of the product type under system 3 for all other characteristics</b>
8.	In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued	<b>Not relevant</b>

9. Declared performance

Essential characteristics	Performance		Harmonised technical specification
Thermal resistance	Thermal resistance $R_D$ ((m <sup>2</sup> .K)/W)	d <sub>N</sub> 30mm 1.40 d <sub>N</sub> 40mm 1.90 d <sub>N</sub> 50mm 2.50 d <sub>N</sub> 60mm 3.00 d <sub>N</sub> 70mm 3.50 d <sub>N</sub> 80mm 4.00 d <sub>N</sub> 90mm 4.50 d <sub>N</sub> 100mm 5.00 d <sub>N</sub> 120mm 6.00 d <sub>N</sub> 140mm 6.65 d <sub>N</sub> 150mm 7.10	EN 12667 EN 12939
	Thermal conductivity $\lambda_D$ (W/(m.K))	d <sub>N</sub> 15-44mm 0.021 d <sub>N</sub> 45-120mm 0.020 d <sub>N</sub> 121-159mm 0.021	
Thickness tolerance	d <sub>N</sub> < 50mm d <sub>N</sub> 50-100mm d <sub>N</sub> > 100mm	T1; ±2,0mm T1; -2,0 +3,0mm T1; -2,0 +5,0mm	EN 823
Reaction to fire		RtF C-s2,d0	EN 13501-1
Reaction to fire end-use		NPD	EN 15715
Compressive strength		CS(10/Y)100	EN 826
Tensile strength	Perpendicular to faces	TR80	EN 1607
Dimensional stability under specified temperature and humidity condition	48 h, 70 °C	DS(70,-)	EN 1604
	48 h, 70 °C, 90 % R.H.	DS(70,90)	
	48 h, -20 °C	DS(-20,-)	
Water permeability	Short term water absorption	WS2	EN 1609
	Closed cell content	CV	EN ISO 4590
Apparent density		AD35	EN 1602

*All other essential characteristics according to EN 13166:2012 ZA.1; NPD*

Where pursuant to Article 37 or 38, the Specific Technical Documentation has been used, the requirements with which the product complies:

**Not relevant**

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

H. Jacobs,  
Managing Director Continental Europe



Tiel, The Netherlands, 1<sup>st</sup> of July 2013