



Kooltherm® Lower Lambda

FREQUENTLY ASKED QUESTIONS

What is a 'lambda'?

The lambda of a product is its thermal performance. The lower the lambda value, the more difficult it is for heat to pass through, therefore thermal performance is improved and a reduced thickness of insulation is needed to achieve the desired U-value for the construction.

What is the lambda value of the new Kingspan Kooltherm® products?

The new products have a lambda value of just 0.018 W/m·K, for all thicknesses. Here are the thicknesses required for commonly used insulation materials to achieve the same level of thermal performance:

Lambda W/m·K	Type of Insulation	Thickness
0.018	Lower lambda Kingspan Kooltherm®	55 mm
0.020	Kingspan Kooltherm®	60 mm
0.022	PIR	65 mm
0.038	Mineral Fibre	110 mm

Thickness of insulation to achieve an R-value of 2.857 m²·K/W (thicknesses are rounded up to nearest 5 mm).

Lower lambda Kingspan Kooltherm® provides a level of performance that is unrivalled in the world of rigid thermoset insulation materials.

What are the new lower lambda products?

The following products are currently available:

Kingspan Kooltherm® K103 Floorboard – insulation for floors

Kingspan Kooltherm® K106 Cavity Board – cavity wall insulation

Kingspan Kooltherm® K108 Cavity Board – partial fill cavity wall insulation

Kingspan Kooltherm® K110 Soffit Board – insulation for structural ceilings (soffits)

Kingspan Kooltherm® K110 plus Soffit Board – insulation for structural ceilings (soffits), with a 6 mm non-combustible building board

Kingspan Kooltherm® K118 Insulated Plasterboard – insulated plasterboard for mechanically fixed or plaster dab / adhesive bonded dry-lining.

NEW
THERMAL
CONDUCTIVITY
0.018 W/m·K

LOWER THE LAMBDA
LOWER THE HEAT LOSS

Where can I get more information?

For more information on the new Kingspan Kooltherm® lower lambda range, please visit www.kingspaninsulation.co.uk/lowerlambda or www.kingspaninsulation.ie/lowerlambda.



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