Declaration of Performance

Kingspan Kooltherm® Duct Insulation

1000.CPR.2013.KDI.004

Unique identification code of the product-type:	**Kooltherm® Duct Insulation**
Intended use/es:	**Factory made phenolic foam (PF) products** **Thermal insulation for building equipment and industrial installations**
Manufacturer:	**Kingspan Insulation Ltd, Pembridge, Herefordshire HR6 9LA, UK**
System/s of AVCP:	**System 1 Reaction to Fire - Exposed foil face only** **System 3 Reaction to Fire – Non exposed tissue face only** **System 3 other properties**
Harmonised standard	**BS EN 14314: 2009+A1: 2013**
Notified body/ies:	**Efectis France NB.1812, FIW München NB. 0751**

Declared performances:		
Essential characteristics		**Performance**
Thermal resistance	Thermal conductivity λ_D (W/(m.K))	-20°C 0.024 10°C 0.022 19°C 0.023 25°C 0.023 50°C 0.026 80°C 0.031
	Thickness and tolerance (mm)	d_N 20-50 T1 ±2.0
	Closed cell content	CV
	Durability of thermal resistance against ageing/degradation	The aged values of thermal conductivity are declared above
Reaction to fire	Euroclass characteristics	B-s2,d0 – exposed foil face (Under AVCP 1) E – Non exposed glass tissue face (Under AVCP 3)
	Durability of reaction to fire against ageing/degradation and high temperature	NPD
Service temperatures	Maximum service temperature (°C)	ST(+) +80
	Minimum service temperature (°C)	ST(-) -20
Compression resistance properties	Compressive stress or compressive strength (kPa)	CS(10\Y) 100
	Point load	NPD
	Compressive creep	NPD
Water absorption	Short term water absorption	NPD
	Long term water absorption	NPD
Water vapour permeability	Water vapour transmission	NPD
Release of corrosive substances		NPD
Release of dangerous substances to the indoor environment		NPD
Continuous glowing combustion		NPD
Durability of dimensional stability under specified temperature and humidity condition	48 h, 70ºC	NPD
	48 h, -20ºC	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.

For System 1 AVCP Notified certification body No 1812 performed, carried out the determination of the product type, the inspection of the manufacturing plant and factory production control and continuous surveillance, assessment and evaluation of the factory production control, and issued the certificate of constancy of performance for reaction to fire (Exposed foil face side), cert No 1812-CPR-2072.

Notes
System 1 AVCP is only applicable to Reaction to Fire class C and above
System 3 AVCP is applicable to Reaction to Fire class D & E

Notified testing lab 0751 performed the tests for the other relevant declared characteristics (AVCP 3 properties).

* Note: Our declaration is based on tests performed on:

- 30 mm Kingspan Kooltherm® Duct Insulation for these characteristics: Closed cell content
- 50 mm Kingspan Kooltherm® Duct Insulation for these characteristics: Maximum service temperature, Minimum service temperature, Compressive strength.

Signed for and on behalf of the manufacturer by:

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Siobhan O'Dwyer
Managing Director
Pembridge, England, UK
Date signed: 13/03/2025
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