

Appendix to Certificate of Approval

Appendix Number: ENP500t Issue: 3

Kingspan Insulation Ltd
 Pembridge
 Leominster
 Herefordshire
 HR6 9LA



Characterised and normalised data for:

Insulation: Insulation

Kingspan Kooltherm K5, K3 (0.02 W/m.K) with 70gsm glass fibre facer on both sides - 35 kg/m³

1 m² over 60-year study period

Quality of data for profiled material

Start date	01/01/2015
End Date	31/12/2015
Representativeness	2 sites representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	13/06/2017
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All building types
Source of data	Company records
Geography	UK and Ireland

(Data for other constituent materials are available from BRE Global)

BRE Ecopoints score: 0.0272 Ecopoints

This certificate appendix is maintained and held in force through annual review and verification.

Signed for BRE Global Ltd.

Emma Baker
 Scheme Manager

28 July 2017
 Date of Issue

27 July 2020
 Expiry Date



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Characterised Data

Issue	Value	Unit
Climate Change	6.1	kg CO ₂ eq. (100 yr.)
Water Extraction	0.0725	m ³
Mineral Resource Extraction	0.000756	tonnes
Stratospheric Ozone Depletion	0.00000392	kg CFC11 eq.
Human Toxicity	1.79	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.126	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00000000826	m ³ high level waste
Ecotoxicity to Land	0.0199	kg 1,4-DB eq.
Waste Disposal	2.74	kg
Fossil Fuel Depletion	145	MJ
Eutrophication	0.00489	kg PO ₄ eq.
Photochemical Ozone Creation	0.0165	kg ethene eq.
Acidification	0.035	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.000496	12300 kg CO ₂ eq. (100 yr.)
Water Extraction	0.000192	378 m ³
Mineral Resource Extraction	0.000031	24.4 tonnes
Stratospheric Ozone Depletion	0.0000181	0.217 kg CFC11 eq.
Human Toxicity	0.0000906	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000956	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000348	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000161	123 kg 1,4-DB eq.
Waste Disposal	0.000731	3750 kg
Fossil Fuel Depletion	0.000531	273 GJ
Eutrophication	0.000151	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.000766	21.5 kg ethene eq.
Acidification	0.000492	71.2 kg SO ₂ eq.

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