

## Appendix to Certificate of Approval

Appendix Number: ENP500o Issue: 3

**Kingspan Insulation Ltd**  
**Pembridge**  
**Leominster**  
**Herefordshire**  
**HR6 9LA**



### Characterised and normalised data for:

#### Insulation: Insulation

Kingspan Kooltherm K7 (0.02 W/m.K) with 50lb duplex foil facer on both sides in a roof with a 13mm min unventilated airspace to one side - 35 kg/m<sup>3</sup>

1 m<sup>2</sup> 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: 0.0247 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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### Kingspan Insulation Ltd

Pembridge  
Leominster  
Herefordshire  
HR6 9LA

### Insulation: Insulation

Kingspan Kooltherm K7 (0.02 W/m.K) with 50lb duplex foil facer on both sides in a roof with a 13mm min unventilated airspace to one side - 35 kg/m<sup>3</sup>  
**1 m<sup>2</sup> over 60-year study period**

### Characterised Data

Issue	Value	Unit
Climate Change	5.22	kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	0.0694	m <sup>3</sup>
Mineral Resource Extraction	0.000806	tonnes
Stratospheric Ozone Depletion	0.0000038	kg CFC11 eq.
Human Toxicity	2.26	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.112	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00000000836	m <sup>3</sup> high level waste
Ecotoxicity to Land	0.0187	kg 1,4-DB eq.
Waste Disposal	2.38	kg
Fossil Fuel Depletion	125	MJ
Eutrophication	0.00473	kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.015	kg ethene eq.
Acidification	0.0325	kg SO <sub>2</sub> eq.

### Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.000425	12300 kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	0.000184	378 m <sup>3</sup>
Mineral Resource Extraction	0.000033	24.4 tonnes
Stratospheric Ozone Depletion	0.0000175	0.217 kg CFC11 eq.
Human Toxicity	0.000114	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000852	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000353	2.37 x 10 <sup>-5</sup> m <sup>3</sup> high level waste
Ecotoxicity to Land	0.000152	123 kg 1,4-DB eq.
Waste Disposal	0.000635	3750 kg
Fossil Fuel Depletion	0.000457	273 GJ
Eutrophication	0.000146	32.5 kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.000698	21.5 kg ethene eq.
Acidification	0.000457	71.2 kg SO <sub>2</sub> eq.

**BRE Ecopoints score: 0.0247 Ecopoints**

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Emma Baker

Scheme Manager

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