

## Appendix to Certificate of Approval

Appendix Number: ENP500at Issue: 3

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



### Characterised and normalised data for:

#### Insulation: Insulation

Kingspan Kooltherm K110 and K110 Plus & K118 baseboard (excludes plasterboard) (0.018 W/m.K) with 70gsm glass fibre facer on one side and foil-scrim facer on the other - 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: 0.0276 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



This certificate appendix remains the property of BRE Global Ltd and is issued subject to terms and conditions (for details visit [www.greenbooklive.com/terms](http://www.greenbooklive.com/terms)).

To check the validity of this certificate please visit [www.greenbooklive.com/check](http://www.greenbooklive.com/check), scan the QR Tag, or contact us.

BRE Global Ltd., Garston, Watford WD25 9XX.  
 T: +44 (0)333 321 8811 E: [Enquiries@breglobal.com](mailto:Enquiries@breglobal.com)



## Appendix No: ENP500at

Issue: 3

### Kingspan Insulation Ltd

Pembridge  
Leominster  
Herefordshire  
HR6 9LA

### Insulation: Insulation

Kingspan Kooltherm K110 and K110 Plus & K118 baseboard (excludes plasterboard) (0.018 W/m.K) with 70gsm glass fibre facer on one side and foil-scrim facer on the other - 35 kg/m<sup>3</sup>  
**1 m<sup>2</sup> over 60-year study period**

### Characterised Data

Issue	Value	Unit
Climate Change	5.8	kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	0.0694	m <sup>3</sup>
Mineral Resource Extraction	0.00137	tonnes
Stratospheric Ozone Depletion	0.00000377	kg CFC11 eq.
Human Toxicity	3.84	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.125	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00000000933	m <sup>3</sup> high level waste
Ecotoxicity to Land	0.0225	kg 1,4-DB eq.
Waste Disposal	2.54	kg
Fossil Fuel Depletion	130	MJ
Eutrophication	0.00455	kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.015	kg ethene eq.
Acidification	0.0343	kg SO <sub>2</sub> eq.

### Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.000472	12300 kg CO <sub>2</sub> eq. (100 yr.)
Water Extraction	0.000184	378 m <sup>3</sup>
Mineral Resource Extraction	0.0000562	24.4 tonnes
Stratospheric Ozone Depletion	0.0000174	0.217 kg CFC11 eq.
Human Toxicity	0.000195	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000951	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000394	2.37 x 10 <sup>-5</sup> m <sup>3</sup> high level waste
Ecotoxicity to Land	0.000183	123 kg 1,4-DB eq.
Waste Disposal	0.000676	3750 kg
Fossil Fuel Depletion	0.000478	273 GJ
Eutrophication	0.00014	32.5 kg PO <sub>4</sub> eq.
Photochemical Ozone Creation	0.000698	21.5 kg ethene eq.
Acidification	0.000481	71.2 kg SO <sub>2</sub> eq.

**BRE Ecopoints score: 0.0276 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



This certificate appendix remains the property of BRE Global Ltd and is issued subject to terms and conditions (for details visit [www.greenbooklive.com/terms](http://www.greenbooklive.com/terms)).

To check the validity of this certificate please visit [www.greenbooklive.com/check](http://www.greenbooklive.com/check), scan the QR Tag, or contact us.

BRE Global Ltd., Garston, Watford WD25 9XX.  
T: +44 (0)333 321 8811 E: [Enquiries@breglobal.com](mailto:Enquiries@breglobal.com)

