

Appendix to Certificate of Approval

Appendix Number: ENP500h Issue: 3

Kingspan Insulation Ltd
 Pembridge
 Leominster
 Herefordshire
 HR6 9LA



Characterised and normalised data for:

Insulation: Insulation

Kingspan Therma TW53 (0.027 W/m.K) with 75gsm glass fibre facer on both sides - 32 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	Four 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: 0.0529 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	12.6	kg CO ₂ eq. (100 yr.)
Water Extraction	0.342	m ³
Mineral Resource Extraction	0.00385	tonnes
Stratospheric Ozone Depletion	0.0000165	kg CFC11 eq.
Human Toxicity	1.73	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.335	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00000000335	m ³ high level waste
Ecotoxicity to Land	0.0353	kg 1,4-DB eq.
Waste Disposal	3.49	kg
Fossil Fuel Depletion	243	MJ
Eutrophication	0.0116	kg PO ₄ eq.
Photochemical Ozone Creation	0.0257	kg ethene eq.
Acidification	0.0796	kg SO ₂ eq.

Normalised data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00103	12300 kg CO ₂ eq. (100 yr.)
Water Extraction	0.000904	378 m ³
Mineral Resource Extraction	0.000158	24.4 tonnes
Stratospheric Ozone Depletion	0.0000758	0.217 kg CFC11 eq.
Human Toxicity	0.0000876	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.000254	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000141	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000287	123 kg 1,4-DB eq.
Waste Disposal	0.000932	3750 kg
Fossil Fuel Depletion	0.00089	273 GJ
Eutrophication	0.000358	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.00119	21.5 kg ethene eq.
Acidification	0.00112	71.2 kg SO ₂ eq.

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