

Appendix to Certificate of Verification

Appendix Number: ENP506b Issue: 2

Knauf Insulation Ltd

Stafford Road
St Helens
Merseyside
WA10 3NS



Characterised and normalised data for:

Insulation:

Knauf blown Glass Mineral Wool insulation, density
18 kg/m³

Including: Supafil 37; Supafil 40; Supafil Frame (0.038 W/mK - 0.040 W/mK);
Supafil Party Wall

1 m² over 60-year study period

Quality of data for profiled material

Start date	01/01/2012
End date	31/12/2012
Representativeness	1 site representing 100% production
LCA Methodology	BRE Environmental Profiles Methodology 2008
Allocation	100% to product
Date of data entry	07/11/2014
Boundary	Cradle to Grave over 60-year study period
Applicable buildings	All building types
Source of data	Company records
Geography	UK

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

BRE Ecopoints score: 0.0143 Ecopoints

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

Signed for BRE Global Ltd.

Derek Hughes
Certification Schemes Manager

06 January 2015
Date of Issue

05 January 2018
Expiry Date



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Insulation:

Knauf blown Glass Mineral Wool insulation, density 18 kg/m³
Including: Supafil 37; Supafil 40; Supafil Frame (0.038 W/mK - 0.040 W/mK); Supafil Party Wall
1 m² over 60-year study period

Characterised Data

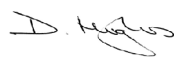
Issue	Value	Unit
Climate Change	2.59	kg CO ₂ eq. (100 yr.)
Water Extraction	0.0305	m ³
Mineral Resource Extraction	0.000782	tonnes
Stratospheric Ozone Depletion	0.00000202	kg CFC 11 eq.
Human Toxicity	0.421	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0108	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.00000000718	m ³ high level waste
Ecotoxicity to Land	0.00299	kg 1,4-DB eq.
Waste Disposal	2.38	kg
Fossil Fuel Depletion	38.3	MJ
Eutrophication	0.00101	kg PO ₄ eq.
Photochemical Ozone Creation	0.00104	kg ethene eq.
Acidification	0.00898	kg SO ₂ eq.

Normalised Data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.00021	12300 kg CO ₂ eq. (100 yr.)
Water Extraction	0.0000808	378 m ³
Mineral Resource Extraction	0.0000321	24.4 tonnes
Stratospheric Ozone Depletion	0.0000093	0.217 kg CFC 11 eq.
Human Toxicity	0.0000213	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000082	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000303	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.0000243	123 kg 1,4-DB eq.
Waste Disposal	0.000634	3750 kg
Fossil Fuel Depletion	0.00014	273 GJ
Eutrophication	0.0000311	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.0000484	21.5 kg ethene eq.
Acidification	0.000126	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.0143 Ecopoints

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