

Appendix to Certificate of Verification

Appendix Number: ENP506i Issue: 1

Knauf Insulation Ltd

Stafford Road
St Helens
Merseyside
WA10 3NS



Characterised and normalised data for:

Insulation:

Knauf Glass Mineral Wool insulation with ECOSE Technology (0.031-0.033 W/mK) - density 35 kg/m³
Including: Earthwool Acoustic Floor Roll; Earthwool Park Home Slab 32; Timber Frame Facade Slab 033; Timber Frame Facade Slab 032
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	16/03/2015
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: 0.0257 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

11 May 2015
Date of Issue

05 January 2018
Expiry Date



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1 m² over 60-year study period

Characterised Data

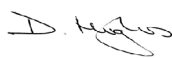
Issue	Value	Unit
Climate Change	4.33	kg CO ₂ eq. (100 yr.)
Water Extraction	0.0521	m ³
Mineral Resource Extraction	0.00125	tonnes
Stratospheric Ozone Depletion	0.00000341	kg CFC 11 eq.
Human Toxicity	0.758	kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0741	kg 1,4-DB eq.
Nuclear Waste (higher level)	0.0000000126	m ³ high level waste
Ecotoxicity to Land	0.0191	kg 1,4-DB eq.
Waste Disposal	3.91	kg
Fossil Fuel Depletion	71	MJ
Eutrophication	0.0048	kg PO ₄ eq.
Photochemical Ozone Creation	0.00183	kg ethene eq.
Acidification	0.0218	kg SO ₂ eq.

Normalised Data

Issue	Value	Western European Citizen's Annual Impacts
Climate Change	0.000352	12300 kg CO ₂ eq. (100 yr.)
Water Extraction	0.000138	378 m ³
Mineral Resource Extraction	0.0000511	24.4 tonnes
Stratospheric Ozone Depletion	0.0000157	0.217 kg CFC 11 eq.
Human Toxicity	0.0000384	19700 kg 1,4-DB eq.
Ecotoxicity to Freshwater	0.0000563	1320 kg 1,4-DB eq.
Nuclear Waste (higher level)	0.000532	2.37 x 10 ⁻⁵ m ³ high level waste
Ecotoxicity to Land	0.000155	123 kg 1,4-DB eq.
Waste Disposal	0.00104	3750 kg
Fossil Fuel Depletion	0.00026	273 GJ
Eutrophication	0.000148	32.5 kg PO ₄ eq.
Photochemical Ozone Creation	0.0000848	21.5 kg ethene eq.
Acidification	0.000306	71.2 kg SO ₂ eq.

BRE Ecopoints score: 0.0257 Ecopoints

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