


BREEAM INTERNATIONAL NEW CONSTRUCTION 2016

PRODUCT DATA FOR CERTIFICATION

SUPAFIL BLOWING WOOL

BREEAM (Building Research Establishment Environmental Assessment Methodology) INTERNATIONAL NEW CONSTRUCTION 2016¹ is a voluntary standard that defines high performance green buildings which are healthier, more environmentally responsible and more profitable structures. Using independent assessors, BREEAM examines criteria covering a range of issues in sections that evaluate: management processes, health and wellbeing, energy, transport, water, materials, waste, land use and ecology, pollution and innovation.

KNAUF INSULATION products can put you on the right track to get the highest result for BREEAM certification.

BREEAM - Credit Category code	Assessment Criteria and Definition	Knauf Insulation Products contribution	Contributes towards
Hea 02 Indoor air quality	Emissions from building products: the insulation materials are one of the 5 product types that needs to meet the emission limits. The following requirements are of application for insulation products: Formaldehyde $\leq 0.06 \text{ mg/m}^3$; Total Volatile Organic Compounds $\leq 1.0 \text{ mg/m}^3$; Carcinogens category 1A and B $\leq 0.001 \text{ mg/m}^3$	SUPAFIL Blowing Wool products are in compliance with the requirements as without any added formaldehyde and certified Blue Angel and Eurofins Gold ² for Indoor Air Comfort, see annexe 1. 	1 credit
	Emissions from building products: the insulation materials are one of the 5 product types that could meet the emission limits for exemplary level emission criteria. The following requirements are of application: Formaldehyde $\leq 0.01 \text{ mg/m}^3$; Total Volatile Organic Compounds $\leq 0.3 \text{ mg/m}^3$; Total Semi-volatile Organic Compounds $\leq 0.1 \text{ mg/m}^3$; Carcinogens category 1A and B $\leq 0.001 \text{ mg/m}^3$	SUPAFIL Blowing Wool products are in compliance with the requirements for exemplary level as without any added formaldehyde and certified Eurofins Gold for Indoor Air Comfort, see annexe 1.	1 credit exemplary level
	Post-construction indoor air quality measurement: the total volatile organic compound and formaldehyde are measured and reported (thresholds for averaged formaldehyde concentration level $\leq 100 \mu\text{g/m}^3$ over 30 minutes and for averaged TVOC $\leq 300 \mu\text{g/m}^3$ over 8 hours).	SUPAFIL Blowing Wool products without any added formaldehyde and certified Eurofins Gold for Indoor Air Comfort are helping to stay at a very low concentration level.	1 credit
Hea 04 Thermal comfort	To ensure that appropriate thermal comfort levels are achieved through design, and controls are selected to maintain a thermally comfortable environment for occupants	Through the insulation level, insulation products contribute to the comfort level (heating and cooling) in accordance to ISO 7730:2005. Thermal modelling can be facilitated through products Building Information Modelling (BIM) files ³ .	1 credit

¹Technical manual : SD233 – 1.0:2016

² www.product-testing.eurofins.com

³ <https://www.knaufinsulation.com/BIM>

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Hea 05 Acoustic performance	To insure the building's acoustic performance, including sound insulation, meets the appropriate standards for its purpose	Products performance aims to reduce indoor ambient noise level and reverberation times in order to comply with regulations or good practices standards.	1 credit
Ene 01 Reduction of energy use and carbon emissions	To recognize and encourage buildings designed to minimise operational energy demand, primary energy consumption and CO2 emissions.	SUPAFIL Blowing Wool products help reducing the 3 parameters: operational energy demand, primary energy consumption and CO2 emissions through the improving of energy building performance (e.g. Uvalue) in accordance with EPBD best practices and ASHRAE standard 90.1-2013 or 90.2-2007 (as applicable).	15 credit
ENE 04 Low carbon design	To encourage the adoption of design measures, which reduce building energy consumption and associated carbon emissions and minimise reliance on active building services systems.	SUPAFIL Blowing Wool products contribute to implement passive design solutions that reduce building energy demand and associated carbon emissions.	1 credit
Ene 05 Energy efficiency cold storage	Energy efficient design, installation and commissioning: To encourage the installation of energy efficient refrigeration systems, therefore reducing operational greenhouse gas emissions. The building has been designed to minimize heat loads through high levels of insulation.	SUPAFIL Blowing Wool products can contribute to high insulation efficiency in the design options.	1 credit
Mat 01 Life cycle impacts	To encourage the use of robust and appropriate life cycle assessment tools and specification of construction materials with a low environmental impact over the full life cycle of the building	The Environmental Products Declarations ⁴ (EPDs) are available and 3rd party verified against EN 15804, this allows to maximise points through Mat 01 calculator and contribute to reach the target of 5 products (10 products for exemplary level) with EPDs for additional points (with confirmation of use on the construction site at Post-Construction Stage)	1 credit + 1 credit exemplary level
Mat 03	To recognize and encourage the specification	Products comply with RSC as they	3 credit

⁴ <https://www.knaufinsulation.com/downloads/environmental-product-declaration-epd/blowing-wool-bw>
<https://ibu-epd.com/>
<http://www.base-inies.fr>

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BREEAM - Credit Category code	Assessment Criteria and Definition	Knauf Insulation Products contribution	Contributes towards
Responsible sourcing of construction products	and procurement of responsibly sourced construction (RSC) products. Insulation Products with more than 50% recycled content (BREEAM Guidance note 18.v3.1 – 2018).	have minimum 50% and up to 80% recycled content (external cullet), see annexe 2. The key process is also covered by EMS (ISO 14001) which allows meeting the criterion of responsible sourced construction (RSC) products.	
Wst 01 Construction waste management	To promote resource efficiency via the effective and appropriate management of construction waste.	Packaging's (wood and plastics) and products itself are recyclable. Mineral wool waste can be reused or recycled no matter the age or type.	3 credit
Pol 05 Noise attenuation	To reduce the likelihood of noise, arising from fixed installations on the new development, affecting nearby noise-sensitive buildings.	Attenuation of noise by use of insulation mineral wool absorbers.	1 credit

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Annexe 1: Hea 02 : Indoor Air Quality

Here below the Eurofins Indoor Air Comfort Gold Certificate:



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Appendix to Certificate

IACG-323-01-33-2017

Knauf Insulation

receives the Indoor Air Comfort Gold certificate with validity 19 June 2022 for below product group, including subgroups and individual products listed in the following table:

Product group	Production site
Knauf Insulation Virgin Blowing Wool and Supafil	Cwmbran, United Kingdom Lannemezan, France St Helens, United Kingdom Vise, Belgium

The products in this group are based on identical or similar recipe and are produced under equivalent conditions. Grouping of the products and inspection of the production process is part of the Indoor Air Comfort Gold certification. A worst-case product, which is representative for the whole group, is being tested frequently.

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Annexe 2: Mat 03 Responsible sourcing of Glass Mineral Wool with ECOSE

Material Category	Key Process	Key Supply Chain Process
Insulation		
Foam Insulation	Insulation manufacture	Main polymer production, e.g. Polystyrene, MDI, Phenolic resin or equivalent
Stone wool, glass & cellular glass made using < 50% recycled input	Product manufacture	Any quarried or mined mineral over 20% of input
Wool	Product manufacture	Wool scouring
Products using > 50% recycled content except those using timber	Product manufacture	Recycled content by default

Here below additional detailed information⁵ by production site about yearly average external cullet utilized in the fabrication of the glass mineral wool products.

	Vise (Belgium)	Lannemezan (France)
Total recycled content (external cullet only)	72,1%	53.3%

On the next page, please find the ISO 14001 certificate for Key Process.

⁵ Data 2017

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BUREAU VERITAS
Certification



KNAUF INSULATION SPRL

Rue de Maastricht 95, 4600 Vise, Belgium

This is a multi-site certificate. Additional site details are listed in the appendix to this certificate.

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System standards detailed below.

ISO 14001:2015

Scope of certification

Design, Development and Production of Insulation Materials and Systems.

Certification cycle start date: **23 December 2016**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **22 December 2019**

Original certification date: **23 December 2010**

Certificate no.: **BE010259** Version: **1** Revision date: **15 December 2016**

Signed on behalf of BVCH SAS - UK Branch

Certification body address: 66 Prescott Street, London, E1 8HG, United Kingdom
Local Office: Mechelsesteenweg 128-136 – B-2018 – Antwerp, Belgium



Further clarifications regarding the scope of this certificate and the applicability of the Management System requirements may be obtained by consulting the organization. To check this certificate validity, please call +32 (03) 247 94 00.

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BUREAU VERITAS
Certification

Appendix

KNAUF INSULATION SPRL

This certificate concerns below mentioned sites

D-09356 St. Egidien, Bahnhofstrasse 25, Germany
SK-968 14 Nová Baňa, Železničný rad 24, Slovakia
Knauf Insulation doo, 17530 Surdulica, Naselje Belo Polje bb, Serbia
SL0-4220 Skofja Loka, Trata 32, Slovenia
Chemistry Ln, Queensferry, Flintshire, CH5 2DA, United Kingdom
Weststrasse 1, 06406 Bernburg, Saale, Germany
D-84359 Simbach/Inn, Heraklithstrasse 8, Germany
H-8924 Alsonemesapati (Zalaegerszeg), Ipartelep, Hungary
NL-4903 RM Oosterhout, Florijnstraat 2, Netherlands
Pontyfelin Works, A4051, Croesyceiliog, Cwmbran, NP44 2YQ, United Kingdom
417 42 Krupka, Industrial Park Krupka, Pod Dolni drahou 110, Czech Republic
Stafford Road, St Helens, Merseyside, WA10 3NS, United Kingdom
Industrialnaya St, Estate 2, Stupino, Moscow Region, 142800, Russian Federation
501 Voie Napoleon III 65300 Lannemezan, France
400 East Walker, Shelbyville Plant 1, IN.46176, United States
1 Knauf Dr., Shelbyville Plant 3, IN.46176, United States
3100 Ashby Rd, Shasta Lake, CA 96019, United States
3502 43rd Street SW, AL 36863 Lanett, United States
Kamchatskaya 198, Tyumen 625034, Russian Federation
75. Yil Mahallesi 1.Cadde 1/G, Küçük Organize Sanayi, 26250 Eskişehir, Turkey
1000E North ST, MI 49224 Albion, United States
Knauf Insulation d.o.o. Novi Marof, Varaždinska 140 Croatia
Knauf Insulation Customized Solutions d.o.o, Vipavska 4L, SI-5270, Ajdovščina Slovenia
4812 Tabler Station Rd, Inwood, WV 25428, United States

Certificate no.: **BE010259** Version: 1 Revision date: **15 December 2016**
*Signed on behalf of BVCH SAS - UK Branch*Certification body address: 66 Prescott Street, London, E1 8HG, United Kingdom
Local Office: Mecheissteerweg 128-136 – B-2018 – Antwerp, Belgium

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