

BREEAM INTERNATIONAL NEW CONSTRUCTION 2016

PRODUCT DATA FOR CERTIFICATION

ROCK MINERAL WOOL

BREEAM (Building Research Establishment Environmental Assessment Methodology) International New Construction¹ 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 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 ² .	1 credit
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.	Rock Mineral 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.	Rock Mineral Wool products contribute to implement passive design solutions that reduce building energy demand and associated carbon emissions.	1 credit

¹ Technical manual : SD233 – 1.0:2016

² <https://www.knaufinsulation.com/BIM>

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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.	Rock Mineral 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 ³ (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 Responsible sourcing of construction products	To recognize and encourage the specification and procurement of responsibly sourced construction (RSC) products. Insulation Products with more than 50% recycled content or with ISO 14001 certification for key extracted materials (BREEAM Guidance note18.v3.1 – 2018) .	The key process is covered by EMS (ISO 14001) which allows to meet the criterion of responsible sourced construction (RSC) products. see annexe 1 for details by sites.	3 credit
Mat 06 Material efficiency	To recognise and encourage measures to optimise material efficiency in order to minimise the environmental impact of material use and waste without compromising on structural stability, durability or service life of the building. This includes procuring materials with higher levels of recycled content.	Rock Mineral Wool products contains up to 60% of recycled components and contribute therefore to minimise the environmental impact of insulation, see annexe 1.	1 credit
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. Products cut-offs can also be used to fill some remaining tiny holes on working site. Mineral wool waste can be reused or recycled no matter the age or type.	3 credit
Wst 06 Functional adaptability	To recognise and encourage measures taken to accommodate future changes of uses of the building over its lifespan, this includes the use of	Rock Mineral Wool products and technical principle of implementations (i.e.: ventilated	1 credit

³ <https://www.knaufinsulation.com/downloads/environmental-product-declaration-epd/rock-mineral-wool-rmw>
<https://ibu-epd.com/>

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	products or systems which allow easy replacements.	façade) may allow easy replacements of each component (Outside and/or inside use) and facilitate future adaptations or insulation reuse.	
Pol 02 (NOx emissions)	To contribute to a reduction in national NOx emission levels to the use of low emission heat source in the building	High insulation efficiency products can help reducing energy and NOx emissions for heat and hot water supply (i.e: Rock Mineral Wool Technical Solutions products).	3 credits
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 : Mat 03 Responsible sourcing of Rock Mineral Wool

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 information⁴ by production site about waste introduced into the fabrication of the Rock mineral wool. ISO 14001 certifications of main raw materials suppliers (any quarried or mined mineral over 20% input) can be provided on demand.

	Novi Marof (Croatia)	Sankt Egidien (Germany)	Nová Baňa (Slovakia)	Skofja Loka (Slovenia)	Surdulica (Serbia)
% external waste content (slags and offcuts return from customers)	--	--	23%	6%	--
% internal waste content (materials from production lines with further processing into briquettes before it is used)	26%	8%	26%	36%	16%
% internal waste content (edge trim from production lines with shredding before it is re-input)	16%	16%	16%	16%	16%
Total recycled content	42%	24%	69%	58%	32%
BREEAM Mat 04 contributes towards 1 credit					

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

⁴ Most recent 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 (0)3 247 94 00.

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BREEM INTERNATIONAL NEW CONSTRUCTION 2016
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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: Mechelsesteenweg 128-136 - B-2018 - Antwerp, Belgium



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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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