





LEED version 4.1

PRODUCT DATA FOR CERTIFICATION

ROCK MINERAL WOOL

LEEDv4.1 (Leadership in Energy and Environmental Design) is a voluntary standard that defines high performance green buildings which are healthier, more environmentally responsible, and more profitable structures. Credits for certification can be earned in various categories, each with a unique focus on sustainable design: sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, innovation and design process.


KNAUF INSULATION products can put you on the right track for the highest result into the certification!

LEED - Credit Category code	Definition	Knauf Insulation Products contribution	Contributes towards
Energy and Atmosphere (EA) Optimize Energy Performance 	To achieve increasing levels of performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use.	Rock Mineral Wool products help reducing energy demand through very high insulation efficiency (building envelop, partition walls, HVAC equipment, floors and ceilings).	18 points
Materials and Resources (MR) Building Product Disclosure and Optimization – Environmental Product Declarations 	To encourage the use of products where Life Cycle Assessment (LCA) is available and have environmentally, economically and socially preferable LCA. To reward project including products with verified LCA.	Third party verified Environmental Product Declarations (EPDs) are available on line for Rock Mineral Wool products ¹ . 	2 points
Materials and Resources (MR) Building Product Disclosure and Optimization – Sourcing of Raw Materials 	To reward project including products verified to be extracted or sourced in a responsible manner	Rock Mineral Wool products, (ex: from Nová Baňa plant in Slovakia) are manufactured with up to 30% of recycled content ² (pre-consumer and post-consumer waste).	2 points

¹ https://www.knaufinsulation.com/download-epd-rock-mineral-wool?environmental_product_declaration=72
<https://ibu-epd.com/>; <https://www.environdec.com/EPD-Search/?query=knauf>

² See annex 1

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LEED - Credit Category code	Definition	Knauf Insulation Products contribution	Contributes towards
Materials and Resources (MR) Building Product Disclosure and Optimization – Material Ingredients	To reward project for which the products chemical ingredients are inventoried	Rock Mineral Wool products contains no ingredients listed on the REACH Authorization or Candidate list or Substances of Very High Concern list ³ .	1 point
Indoor Environmental Quality (EQ) Acoustic Performance 	To provide workspaces and classrooms that promote occupants' well-being, productivity, and communications through effective acoustic design.	Rock Mineral Wool products have high performance acoustic properties. Products reduce HVAC background noise levels, increase sound insulation of building envelope, partitions, ceilings and aid in controlling reverberation time ⁴ .	1 point
Indoor Environmental Quality (EQ) Thermal Comfort	To promote occupants productivity, comfort, and well-being by providing quality thermal comfort.	Insulation is a design alternative strategy. Heat radiation and air-conditioning will be minimized which will have positive comfortability feel and increase productivity for workers.	1 point

³ See annex 2

⁴ See annex 3

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Annex 1: Materials and Resources: Sourcing of Raw Materials

Here below additional detailed information⁵ about pre-consumer waste (reintroduction of manufacturing scrap into another manufacturing process) and post-consumer waste (produced by the end consumer) utilized in the raw materials batch for the manufacturing of the rock mineral wool.

In LEED, total recycled content is the sum of 100% post-consumer recycled content plus 50% of the pre-consumer recycled content.

	Nová Baňa (Slovakia)	Skofja Loka (Slovenia)	St Egidien (Germany)	Surdulica (Serbia)	Queensferry (UK)
%pre-consumer waste content	30%	10%	6%	3%	31%
% post-consumer waste content	-	-	-	-	-
Total recycled content: 50% pre-consumer + 100% post-consumer	15%	5%	3%	1.5%	15.5%
LEED MR 4					contributes towards 2 points

Recycled content claims for products must conform to the definition ISO 14021-1999.

Pre-consumer waste: waste comes from process waste that is used to make a different product. This definition does not include in-house industrial scrap or trimmings, which are normally fed back into the same manufacturing process.

Post-consumer waste: waste which comes from curbside recycling programs (glass, plastic, paper, ect). Other postconsumer feedstock is generated when construction and demolition debris is recycled. To be a feedstock, the raw materials must have served a useful purpose in the consumer market before being used again.


⁵ Data 2019

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Annex 2: REACH compliance letter



May 1st 2020

SUBJECT: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)- Regulation (EC) No 1907/2006

Dear Customer

Thank you for your enquiry with regard to the following products: –

KNAUF INSULATION STONE MINERAL WOOL PRODUCTS

Knauf Insulation has registered Mineral Wool Insulation fibre; manufactured or imported by its legal entities and used in the manufacture of the products listed above, under the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); Regulation (EC) No 1907/2006.

The registered fibers meet the following definition:-

- EC number: 926-099-9 • Definition: Man made vitreous (silicate) fibres with random orientation with alkaline and alkali earth oxides (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the nota Q conditions. • Public name: MMVF note Q fibre • Classification: Not classified (manmade vitreous (silicate) fibre with and index number of 650016-00-2 fulfilling one of the note Q conditions in the Classification, labelling, packaging regulations (CLP) (EC) No 1272/2008, as amended in regulation (EC) No 790/2009 and thus exempted from classification.


The registration is confirmed by the receipt of registration numbers for each of the listed legal entities by The European Chemical Agency (ECHA). The registration numbers are included on the relevant company product safety data sheets.

Knauf Insulation Stone Mineral Wool products do not contain any substances listed under the Candidate List of Substances of Very High Concern for Authorisation in concentration higher than 0.1% (w/w).

If you have any questions please do not hesitate to contact us; details below

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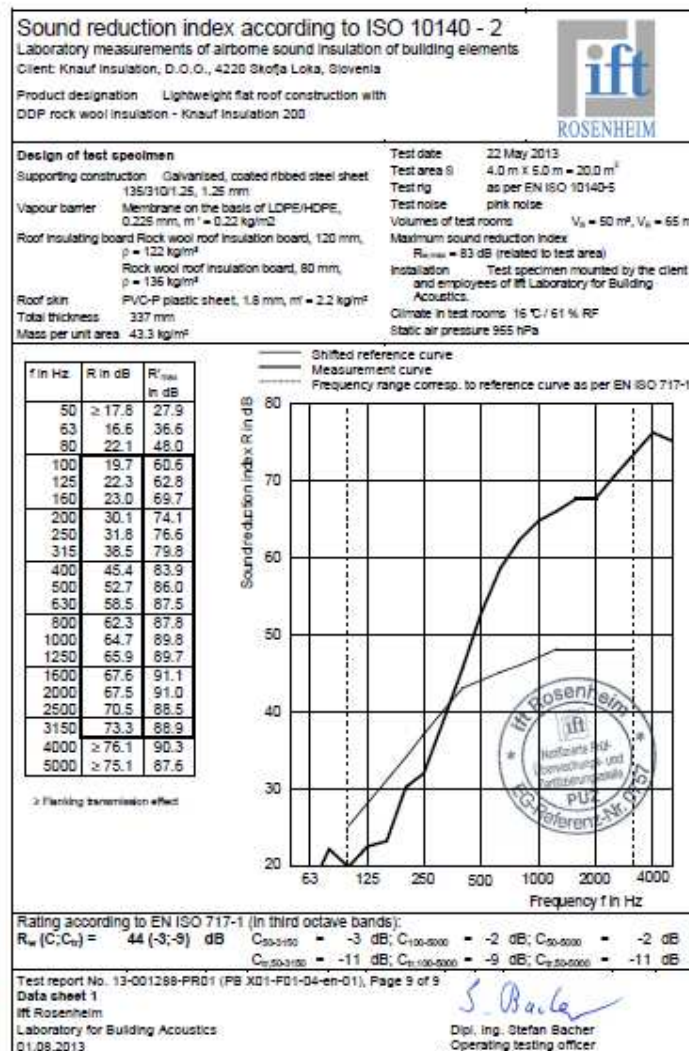
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Annex 3: Sound transmission and sound absorption example

STC_c in North America is the composite Sound Transmission Class and is equivalent to R_w Sound Reduction Index in Europe. α coefficient is the coefficient for sound absorption.



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