

LEED version 4

PRODUCT DATA FOR CERTIFICATION

WOOD WOOL – HERAKLITH

LEEDv4 (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 for certification!

LEED - Credit Category code	Definition To achieve increasing levels of performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use.	Knauf Insulation Products contribution Heraklith products help reducing energy demand through very high insulation efficiency.	Contributes towards 20 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 (EDPs) are available on line for Heraklith products ¹ .	2 points
Materials and Resources (MR) Building Product Disclosure and Optimization – Sourcing of Raw Materials	To encourage the use of products where LC A is available and have environmentally, economically and socially preferable LCA. To reward project including products verified to be extracted or sourced in a responsible manner.	Heraklith Products are manufactured with up to 80% of wood-based materials certified following FSC labels (remaining part is the binder) ² .	1 point

¹ http://www.knaufinsulation.com/en/product-sustainability

² See annexe 1



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LEED - Credit Category code Materials and Resources (MR) Building Product Disclosure and Optimization – Material Ingredients	Definition To encourage the use of products where LCA is available and have environmentally, economically and socially preferable LCA. To reward project for which the products chemical ingredients are inventoried.	Knauf Insulation Products contribution Heraklith products contains no ingredients listed on the REACH Authorization or Candidate list or Substances of Very High Concern list. Evidence are available on line ³ .	Contributes towards 1 point
Indoor Environmental Quality (EQ) Low-Emitting Materials	To reduce concentrations of chemical contaminants, as Volatile Organic Compound (VOC) that can damage air quality, human health, productivity and the environment. Emissions from ceilings, walls, thermal, and acoustic insulation are a complete category to be assessed.	Products are compliant with the German AgBB Testing and Evaluation Scheme and the higher category (A+) of the French labelling. They are certified with Blue Angel low air emission ecolabel (following RAL-UZ-132) ⁴ ,	3 points
Indoor Environmental Quality (EQ) Indoor Air Quality Assessment	To establish better quality indoor air in the building after construction and during occupancy	The quality of the Heraklith products help to reach appropriate concentration level regarding formaldehyde and TVOCs during indoor air quality assessment.	2 points
Indoor Environmental Quality (EQ) Acoustic Performance	To provide workspaces and classrooms that promote occupants' well-being, productivity, and communications through effective acoustic design.	Heraklith products have high performance acoustic properties ⁵ .	2 points
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 http://www.knaufinsulation.com/en/sustainable-buildings-and-green-building-rating-systems

⁵ See annexe 3

⁴ See annexe 3



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Annexe 1: FSC certificate - example for Knauf Insulation Simbach Plant

	HOLZ
	HOLZ
	AUSTRIA
	This certificate confirms that the procedure for the production and/or the trade of
	Wood-wool board and wood-wool composite board
	wood-woor board and wood-woor composite board
	produced and/or traded by
A STATE AND	Knauf Insulation Operation GmbH
	Rhau mauaton operation embri
	DE-84359 Simbach a. Inn, Heraklithstraße 8
	at the above facility has undergone an initial inspection, is subject to continuous inspection and
	complies with the requirements of the rules and standards
	(N)
17	
	N 1 N
	TOC
	FSC
	www.fsc.org
	FSC* A000513
	Chain of Custody
	Standard FSC-STD-40-004 (V2-1) - Chain_of_Custody_Certification
Text I said and the said	
	as long as the requirements are fulfilled. Detailed information on the scope of the
	certificate can be found at http://info.fsc.org.
	This certificate is property of the Holzforschung Austria, a Certification Body accredited by the Forest Stewardship
	Council A. C. (d. Nr. FSA-ACC-024). Certificates and copies thereof need to be returned immediately upon request. The validity of the certificate shall be verified at http://info.fsc.org. The certificate itself does not constitute evidence that a
ALL AND ALL AN	certain product supplied by the Certificate Holder is FSC certified (or FSC Controlled Wood). Products offered, sold or
marked in the	delivered by the Certificate Holder can only be considered as included in the scope of the certificate, if they are clearly declared as certified on invoices and delivery notes.
	Certificate number: HFA-COC-100141
	Date of first issuance: 03.03.2015
	Date of issuance: 03.03.2015
	Vali¢ unt/l: 02.03.2020
	Version 1
	THE REPORT
- Alexandra and Alexandra	Dr. Minfred Brandstätter
	Authorised Signatory Head of Certification Body
	HOLZFORSCHUNG AUSTRIA - ÖSTERREICHISCHE GESELLSCHAFT FÜR HOLZFORSCHUNG ZVR 850936522 A-1030 Wien, Franz Grill-Straße 7 Tel +43-1/798 26 23-0 Fax +43-1/798 26 23-50
	hfa@holzforschung.at www.holzforschung.at

Annexe 2: REACH compliance document



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Annexe 3: Blue Angel Requirements and certificate.

From document: "Basic Criteria for Award of the Environmental Label; Low-Emission Thermal Insulation Material and Suspended Ceilings for Use in Buildings RAL-UZ 132".

The product shall not exceed the emission values listed in Table 1 in the test chamber in conformity with the "Health risk assessment process for emissions of volatile organic compounds (VOC) from building products" developed by the Committee for Health-related Evaluation of Building Products.

Table 1: Emission Values

Substance	Requirements Final Value 28 Days
Total organic compounds within the re- tention range $C_8 - C_{16}$ (TVOC)	<u><</u> 100 µg/m³
Total organic compounds within the re- tention range $> C_{16} - C_{22}$ (TSVOC)	<u><</u> 20 µg/m³
C substances 12	<u><</u> 1 μg/m³ per single value
Total VOC without LIC ^{13, 14}	<u><</u> 50 µg/m³
R value	<u><</u> 1
Formaldehyde	<u><</u> 0.05 ppm



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