


BREEAM INTERNATIONAL NEW CONSTRUCTION

PRODUCT DATA FOR CERTIFICATION

SUPAFIL BLOWING 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 02 (Indoor air quality)	Volatile organic compound (VOC) emission levels (post construction): the total volatile organic compound and formaldehyde are measured and reported (thresholds for formaldehyde concentration level $\leq 100\mu\text{g}/\text{m}^3$ and for TVOC $\leq 300\mu\text{g}/\text{m}^3$).	SUPAFIL Blowing Wool products comply as they are certified Blue Angel and Eurofins gold ² for indoor air comfort, see annexe1. 	1 credit
Hea 03 (Thermal comfort)	To ensure through design that appropriate thermal comfort levels are achieved and controls are selected to maintain a thermally comfortable environment.	Thermal modelling with full dynamic thermal analysis is facilitated through products Building Information Modelling (BIM) files available on line ³ .	1 credit
Hea 05a/b (Acoustic performance)	To insure the building's acoustic performance, including sound insulation, meets the appropriate standards for its purpose.	Products have high performance acoustic properties and reduce ambient noise level.	1 credit
Ene 01 (Energy efficiency all buildings)	To encourage buildings that minimise their operational energy consumption through good design.	Products help reducing the 3 parameters: operational energy demand, primary energy consumption and CO2 emissions.	15 credits

¹Technical manual : SD 5075 – 1.0:2013

² www.product-testing.eurofins.com

³ www.bimetica.com

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BREEAM Credit Category code	Assessment criteria and definition	Knauf Insulation Products contribution	Contributes towards
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 (EPDs) are available and third party verified against EN 15804 to allow getting maximum points through Mat 01 calculator, see annexe 2.	6 credits
Mat 04 (Insulation all buildings)	At least 80% (by volume) of the thermal insulation used in the assessed building elements must be responsibly sourced.	SUPAFIL Blowing Wool products comply as they have more than 50% recycled content (external cullet), see annexe 3.	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 are recyclable. Supafil Blowing Wool do not generate offcuts on working site.	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 sources by use of acoustical insulation products.	1 credit

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Annexe 1: Hea 02 : Indoor Air Quality

Here below the Eurofins Indoor Air Comfort Gold and Blue Angel Certificates for Supafil Blowing Wool:



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CERTIFICATE

ON THE BASIS OF THE
CONTRACT ON THE USE OF THE ENVIRONMENTAL LABEL NO. 24033

KNAUF INSULATION GMBH
84359 SIMBACH AM INN, GERMANY

IS GRANTED THE RIGHT TO USE THE BLUE ANGEL ECOLABEL SHOWN BELOW
FOR THE PRODUCT

SUPAFIL

AS A SIGN OF SPECIAL ENVIRONMENTAL FRIENDLINESS.

SANKT AUGUSTIN, THIS 23 APRIL 2013



Km
CHAIRMAN OF THE BOARD

RAL gGMBH



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Annexe 2: Mat 01 - Life Cycle Impact - Mat 01 Calculator

As Supafil Blowing Wool Insulation products have third party verified EN 15804 EPD's, please find here below the answers to provide for Mat 01 calculator (if we consider only insulation elements in the assessment).

(M) Source LCA data quality - Methodologies

Majority of individual materials/products in the building:	Score:-	
Are assessed using data of unknown methodology	0	N
Are assessed to a publicly available methodology compliant with (the current version of) ISO 14040 & ISO 14044	4	N
Are assessed to a publicly available AND peer reviewed methodology compliant with (the current version of) ISO 14040 & ISO 14044	8	N
Have an EPD (Manufacturer or Trade Association) to a publicly available AND peer reviewed PCR compliant with (the current version of):		
PAS 2050	12	N
ISO 21930	16	N
EN 15804	20	Y
Points	20	20

(M) Source LCA data quality - Geographic applicability

Majority of individual materials/products in the building are assessed:	Sum:-	
Using LCA data of unknown geographic applicability OR not compensated to local conditions	0	N
Using LCA data that has been compensated to local conditions (e.g. energy-mix) according to CEN/TR 15941	5	Y
Using data no older than 10 years (generic) or 5 years (manufacturer specific)	5	Y
Points	10	10

(M) Source LCA data quality - Verification

Majority of individual materials/products in the building are assessed using:	Score:-	
Unverified LCA data/data of unknown level of verification	0	N
Verified/peer reviewed LCA data	6	N
Verified EPD (Manufacturer or Trade Association) data to ISO 14025, ISO 21930 or EN 15804	10	Y
Points	10	10

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Annexe 3: Mat 04 (Insulation all buildings): Insulation responsibly sourced

Here below additional detailed information⁴ by production site about external cullet utilized in the fabrication of the glass mineral wool products.

	Vise (Belgium)	Lannemezan (France)
Total recycled content (external cullet only)	80%	80%
BREEAM Mat 04	contributes towards 1 credit	

⁴ Most recent data 2013-2014 depending on locations