





## WELL version 2

### Product Data for Building Certification







#### MINERAL Plus WITH ECOSE® TECHNOLOGY

WELL v2 operates on a points-based system. All optimizations have maximum point-values. The point-value of a feature is determined by its potential for impact. This is defined as the extent to which a feature addresses a specific health and wellness concern or opportunity for health promotion, and the potential impact of effective intervention.

**KNAUF INSULATION** put you on the right track for the highest result into the certification process!






Feature	Part	Definition	Knauf Insulation Products contribution	Contributes towards
A01. Fundamental Air Quality 	A01.2 Meet Thresholds for Organic Gases	To provide acceptable air quality levels as determined by public health authorities.	ECOSE Technology products are compliant with the German AgBB Testing and Evaluation Scheme, the higher category (A+) of the French labelling. The binder is without added phenol formaldehyde. Products with or without facing are certified for Indoor Air Comfort Eurofins Gold <sup>1</sup>	Precondition
A05. Enhanced Air Quality 	A05.2 Meet Enhanced Thresholds for Organic Gases	To go above current guidelines to provide enhanced air quality levels that have been linked to improved human health and performance.		1 point
T01. Thermal Performance 	T01.1 Provide acceptable Thermal Environment	To create indoor thermal environments that provide comfortable thermal conditions to the majority of people in support of their health, well-being and productivity.	Mineral Wool products help reducing energy demand through very high insulation efficiency.	Precondition

<sup>1</sup> See annex 1 Indoor Air Confort Gold Eurofins and <https://www.eurofins.com/consumer-product-testing/>

Feature	Part	Definition	Knauf Insulation Products contribution	Contributes towards
S01. Sound Mapping 	S01.1 Label Acoustic zone	To create an acoustical plan that identifies internal and external noise sources that can negatively impact the acoustical environment of interior spaces.	Mineral Wool products have high performance acoustic properties <sup>2</sup> . They reduce HVAC background noise, increase sound insulation of building envelope, partitions, ceilings and aid in controlling reverberation time.	Precondition
	S01.2 Provide Acoustic Design Plan			
S02. Maximum Noise Levels 	S02.1 Limit Background Noise Levels			3 points
S03. Sound Barriers 	S03.1 Design for Sound Insulation at Walls and Doors	To require that walls and doors meet a minimum degree of acoustical separation to provide adequate sound isolation and improve speech privacy.		3 points
	S03.2 Achieve Sound Insulation			
X05. Enhanced Material Restrictions 	X05.2 Select Compliant Architectural and Interior Products	To restrict halogenated flame retardants (HFRs), Per- and polyfluoroalkyl substances (PFAS) and select phthalates commonly used in building materials. Insulation products, including thermal and acoustic insulation in walls, ceilings, ducts, tubes and pipes, contain 100 ppm (0.01%) by weight or less of halogenated flame retardants (HFR).	ECOSE Technology products contain no ingredients listed on the REACH Authorization list, Restriction list or Substances of Very High Concern Candidate list. They are inventoried to at least 0.01% by weight (100ppm) and certified DECLARE LBC Red List Free which means no harmful chemical substances <sup>3</sup> .  	2 points

<sup>2</sup> See annex 2 Measurement of Sound Absorption

<sup>3</sup> See annex 3 Declare certificates

<p>X06. VOC Restrictions</p> 	<p>X06.2 Restrict VOC Emissions from Furniture, Architectural and Interior Products (like Insulation).</p>	<p>It requires adherence to emission thresholds for materials placed inside the building envelope.</p>	<p>ECOSE Technology products are compliant with the German AgBB Testing and Evaluation Scheme, the higher category (A+) of the French labelling and the Blue Angel. The binder is without added phenol formaldehyde. Products with or without facing are certified for Indoor Air Comfort Eurofins Gold <sup>4</sup></p> 	<p>2 points</p>
<p>X07. Material Transparency</p> 	<p>X07.1 Select product with Disclosed ingredients X07.2 Select products with Enhanced Ingredient Disclosure X07.3 Select Products with Third-Party Verified Ingredients</p>	<p>To prioritize supply chain and ingredient transparency in offering product specifiers the tools they need to make fully informed choices when selecting healthier products. This WELL feature requires the compilation and availability of product descriptions, with ingredients evaluated and disclosed through transparency labels.</p>	<p>ECOSE Technology products contain no ingredients listed on the REACH Authorization list, Restriction list or Substances of Very High Concern Candidate list<sup>5</sup>. They are inventoried to at least 0.01% by weight (100ppm) and certified DECLARE LBC Red List Free which means no harmful chemical substances<sup>6</sup>.</p>	<p>3 points</p>
<p>X08. Materials Optimization</p> 	<p>X08.1 Promote the selection of products that have been audited to minimize impacts on human and environmental health.</p>	<p>To take precautionary approach to hazards by emphasizing healthy material selection. It requires screening and labeling of products in accordance with programs that restrict the use of hazardous ingredients in materials and products.</p>		<p>2 points</p>

<sup>4</sup> See annex 1 Indoor Air Comfort Gold Eurofins and <https://www.eurofins.com/consumer-product-testing/>

<sup>5</sup> Compliance letter statement to REACH can be requested for dedicated product's manufacturing plants

<sup>6</sup> See annex 3

**Annex 1: Indoor Air Comfort Gold EUROFINS Certificate**





## Appendix to Certificate

IACG-323-01-37-2017

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 unfaced Mineral Wool and Mineral Plus with ECOSE® Technology	Bemburg, Germany Eskisehir, Turkey Krupka, Czech Republic Lannemezan, France Vise, Belgium

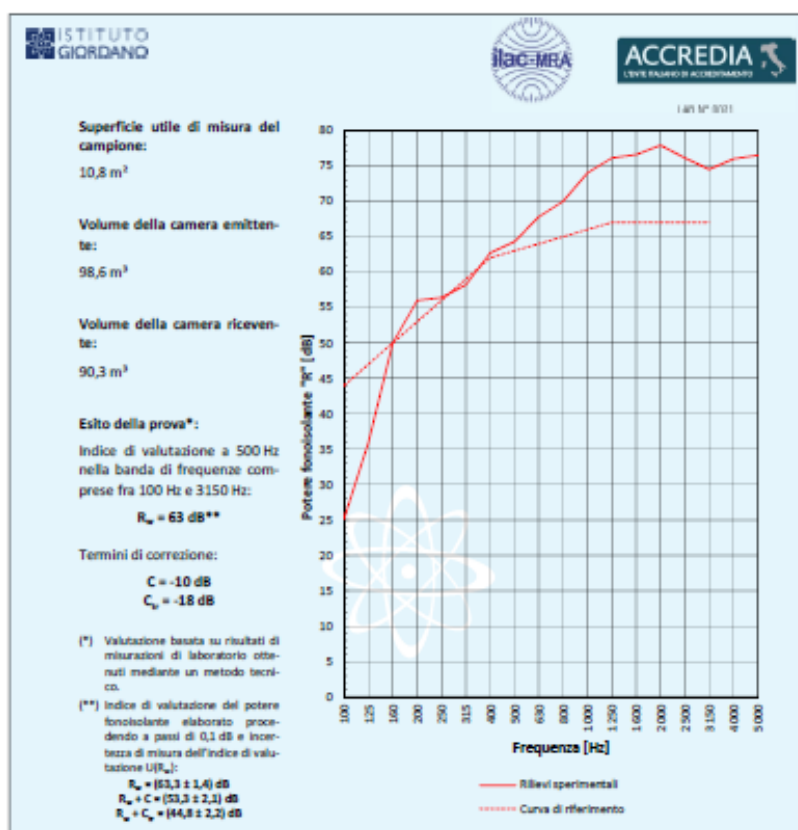
*The products in this group are based on identical or similar recipe and are produced under equivalent conditions. Grouping of the products and inspection of the production process is part of the Indoor Air Comfort Gold certification. A worst-case product, which is representative for the whole group,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



Product Testing

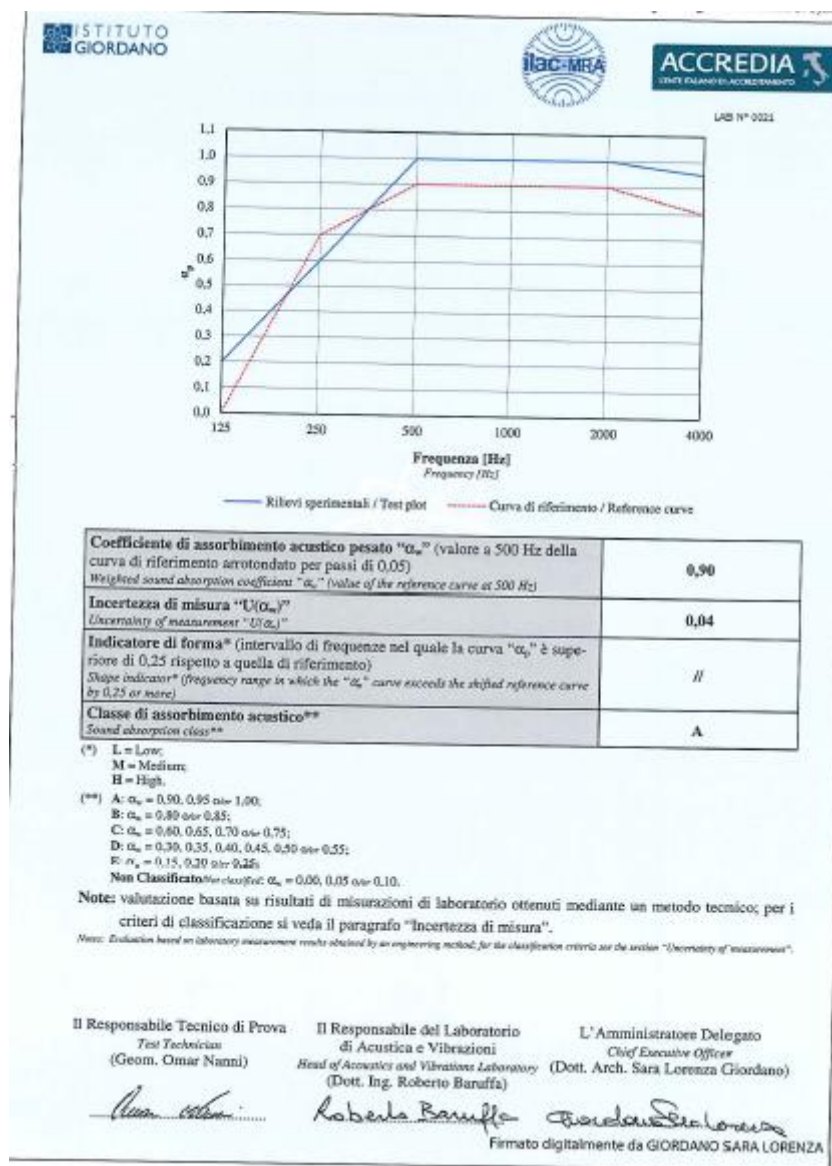
## Annex 2: ECOSE product and sound absorption examples

$STC_c$  in North America is the composite *Sound Transmissions Class* and is equivalent to  $R_w$  *Sound Reduction Index* in Europe.  $\alpha$  coefficient is the coefficient for *sound absorption*.



Simbolo	Descrizione
1	Montanti "Knauf" realizzati con profilati in acciaio zincato sagomati a forma di "C", spessore 75 mm
2	Lastre in gesso rivestito "Knauf GKB (A)", spessore rilevato 12,5 mm
3	Pannelli in lana minerale "Mineral Wool 35", spessore rilevato 60 mm
4	Viti autoperforanti fosfatate





## Annex 3: DECLARE labels

**Declare.**

**Mineral Wool and Mineral Plus products without facing, with the ECOSE Technology®**  
**Knauf Insulation**

**Final Assembly:** Multiple Global Locations  
**Life Expectancy:** Life of Structure Year(s)  
**End of Life Options:** Salvageable/Reusable in its Entirety, Recyclable (100%), Landfill (100%)

**Ingredients:**  
J EC: 926-099-9 Man-Made Vitreous (silicate) Fibers; Syrup, hydrolyzed starch; Ammonium Sulfate; Mineral Oil; Silane; Silicone oil

**Living Building Challenge Criteria:** Compliant

**I-13 Red List:**  
■ LBC Red List Free % Disclosed: 100% at 100ppm  
□ LBC Red List Approved VOC Content: Not Applicable  
□ Declared

**I-10 Interior Performance:** AgBB Scheme French A+ 2011  
**I-14 Responsible Sourcing:** Not Applicable

KNF-0051  
EXP: 01 AUG 2022  
Original Issue Date: 2021

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY  
INTERNATIONAL LIVING FUTURE INSTITUTE™ [living-future.org/declare](https://living-future.org/declare)

**Declare.**

**Mineral Wool and Mineral Plus products with bio-based binder Glass veil, with ECOSE Technology®**  
**Knauf Insulation**

**Final Assembly:** Visé, Liege, Belgium; Lannemezan, Hautes-Pyrénées, France; Eskisehir Otlumazalan/Eskisehir, Turkey  
**Life Expectancy:** Life of Structure Year(s)  
**End of Life Options:** Salvageable/Reusable in its Entirety, Recyclable (100%), Landfill (100%)

**Ingredients:**  
J EC: 926-099-9 Man-Made Vitreous (silicate) Fibers; Syrup, hydrolyzed starch; Glass fiber; Ammonium Sulfate; Mineral Oil; Silane; Silicone oil; PVCH

**Living Building Challenge Criteria:** Compliant

**I-13 Red List:**  
■ LBC Red List Free % Disclosed: 100% at 100ppm  
□ LBC Red List Approved VOC Content: Not Applicable  
□ Declared

**I-10 Interior Performance:** AgBB Scheme French A+ 2011  
**I-14 Responsible Sourcing:** Not Applicable

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**Declare.**

**Mineral Wool and Mineral Plus products with Aluminized PET facing, with ECOSE Technology®**  
**Knauf Insulation**

**Final Assembly:** Visé, Liege, Belgium  
**Life Expectancy:** Life of Structure Year(s)  
**End of Life Options:** Salvageable/Reusable in its Entirety, Recyclable (100%), Landfill (100%)

**Ingredients:**  
J EC: 926-099-9 Man-Made Vitreous (silicate) Fibers; Syrup, hydrolyzed starch; Ammonium Sulfate; PE; PET foil; PVAC Glue; Mineral Oil; Silane; Silicone oil; Glass scrim - part 1; Glass scrim - part 2; Metalized coating

**Living Building Challenge Criteria:** Compliant

**I-13 Red List:**  
■ LBC Red List Free % Disclosed: 100% at 100ppm  
□ LBC Red List Approved VOC Content: Not Applicable  
□ Declared

**I-10 Interior Performance:** AgBB Scheme French A+ 2011  
**I-14 Responsible Sourcing:** Not Applicable

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