

October 2021

WELL version 2

Product Data for Building Certification

GLASS MINERAL WOOL 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.

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 and the Blue Angel. The binder is without added phenol formaldehyde. Products with or without	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.	facing are certified for Indoor Air Comfort Eurofins Gold ¹	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.	Glass Mineral Wool products help reducing energy demand through very high insulation efficiency.	Precondition

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

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





Feature	Part	Definition	Knauf Insulation Products contribution	Contributes towards
S01. Sound Mapping	S01.1 Label Acoustic zone S01.2 Provide Acoustic Design Plan	To create an acoustical plan that identifies internal and external noise sources that can negatively impact the acoustical environment of interior spaces.	Glass Mineral Wool products	Precondition
S02. Maximum Noise Levels	S02.1 Limit Background Noise Levels	To facilitate comfortable interior noise levels. This feature can operate in tandem with Feature S01: Sound Mapping.	have high performance acoustic properties ² . They reduce HVAC background noise, increase sound insulation of building envelope, partitions, ceilings and aid in controlling	3 points
S03. Sound Barriers	S03.1/S03.2 Design for Sound Isolation at Walls and Doors & achieve sound insulation at walls	To bolster acoustical privacy between rooms. This feature can operate in tandem with Feature S01: Sound Mapping	reverberation time.	3 points
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 and products. 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 ³ .	2 points

² See annex 2 Measurement of Sound Absorption in a Reverberation Room

³ See annex 3 Declare certificates





X06. VOC Restrictions	X06.2 Restrict VOC Emissions from Furniture, Architectural and Interior Products (like Insulation).	It requires adherence to emission thresholds for materials placed inside the building envelope.	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 ⁴	2 points
X07. Material Transparency	X07.1 Select product with Disclosed ingredients X07.2 Select products with Enhanced Ingredient Disclosure X07.3 Select Products with Third-Party Verified Ingredients	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.	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.	3 points
X08. Materials Optimization	X08.1 Promote the selection of products that have been audited to minimize impacts on human and environmental health.	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.	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.	2 points

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

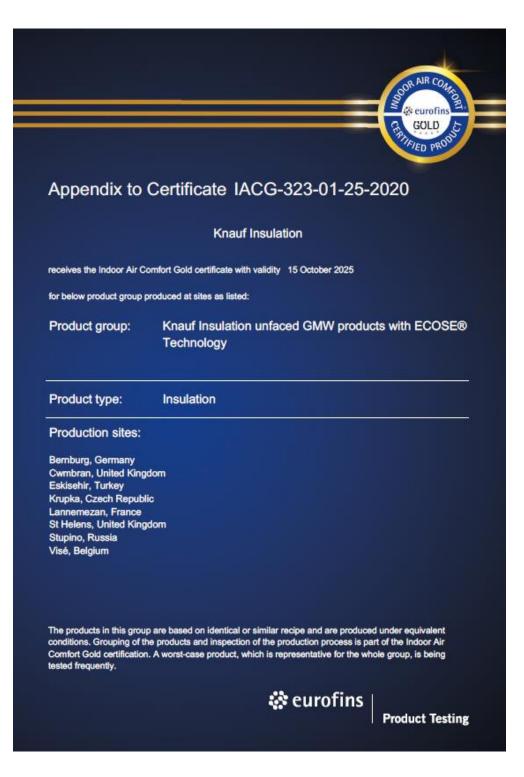




Annex 1: Indoor Air Comfort Gold EUROFINS Certificate



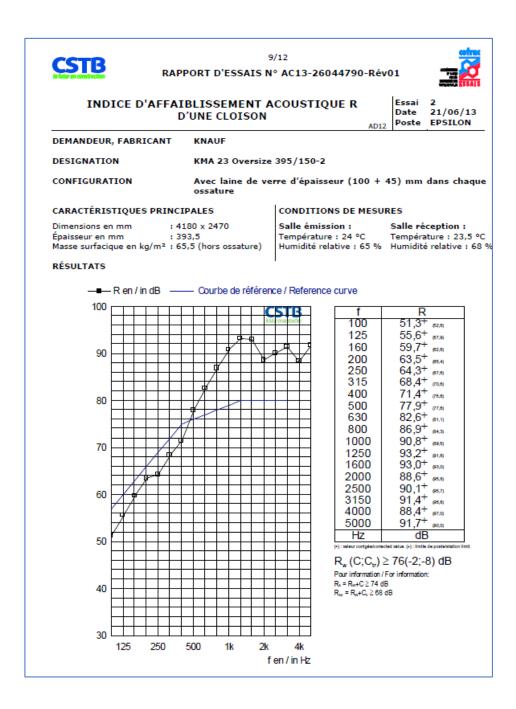




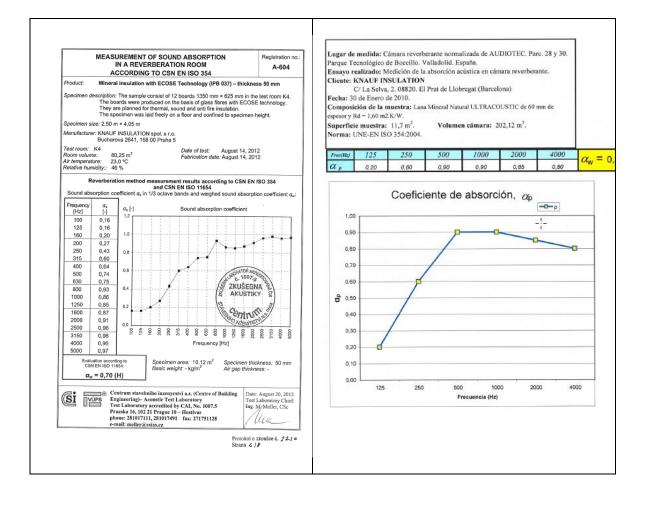


Annex 2: ECOSE product and sound transmission and absorption examples

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



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Annex 3: DECLARE labels

Declare.	Declare.
Glass Mineral Wool products without facing, with ECOSE Technology* Knauf Insulation	Glass Mineral Wool products with paper Kraft or aluminum Kraft facing, with 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:	Final Assembly: Multiple Locations in Europe Life Expectancy: Life of Structure Year(s) End of Life Options: Salvageable/Reusable in its Entirety. Recyclable (100%), Landfill (100%) Ingredients:
hydrolyzed starch, Ammonium Sulfate: Mineral Oil; Silane; Silicone oil	.: EC: 926-099-9 Man-Made Vitreous cilicate) Fibers: Kraft paper: Syrups. Tydrolyced starch: PE: Aluminum: Ammonium Sulfate: PVAC Glue: Glass scrim – part I; Glass scrim – part 2; Mineral Oli: Siliane; Silicone oli; Sodium silicate glue
EC: 926-099-9 Man-Made Vitreous (silicate) Fibers; Syrups, hydrolyzed starch; Ammonium Sulfate; Mineral Oil, Silane; Silicone oil	paper: Syrups, llydrolyzed starch: PE: Aluminum: Ammonium Suffate: PAAC Guide: Glass scrim- part I; Glass scrim- part 1; Mineral Oli: Silane; Silicone oli; Sodium silicate glue
hydrolyzed starch, Ammonium Sulfate: Mineral Oil; Silane; Silicone oil	paper: Syrups. Trydrol yzed starct: PE: Aluminum: Ammonium Suffare: PYAC Glue: Gluiss scrim - part 1; Mineral Oli: Siliane; Silicone oit: Sodium silicate glue Living Building Challenge Criteria: Compliant I-13 Red List: BLBC Red List Free DLBC Red List Approved Declared HO Interior Performance: AgBB Scheme Franch A+ 2011
hydrolyzed starch; Ammonium Sulfate; Mineral Oil; Silane; Silicone oil Living Bullding Challenge Criteria: Compliant 13 Red List: LBC Red List Free LBC Red List Approved VOC Content: Not Applicable Declared H Declared H Dinterior Performance; AgBB Scheme French A+ 2011	paper: Syrups, liydrolyzed starcti, PE: Aluminum: Ammonium Suffate: PVAC Glue: Glass scrim – part 1; Glass scrim – part 2; Mineral Oli: Siliane; Silicone oli: Sodium silicate glue Living Building Challenge Criteria: Compliant H3 Red List: ■ LBC Red List Free □ LBC Red List Free □ LBC Red List Free □ LBC Red List Free □ Declared
hydrolyzed starch; Ammonium Sulfate; Mineral Oil; Silane; Silicone oil Ltving Bullding Challenge Criteria: Compliant 13 Red List: LBC Red List Free LBC Red List Approved VOC Content: Not Applicable 1 Declared 10 Interior Performance: AgBB Scheme French A+ 2011	paper: Syrups. Trydrol yzed starct: PE: Aluminum: Ammonium Suffare: PYAC Glue: Gluiss scrim - part 1; Mineral Oli: Siliane; Silicone oit: Sodium silicate glue Living Building Challenge Criteria: Compliant I-13 Red List: BLBC Red List Free DLBC Red List Approved Declared HO Interior Performance: AgBB Scheme Franch A+ 2011

https://declare.living-future.org/

