



Certificate

Indoor Air Comfort Gold

Knauf Insulation unfaced GMW products with ECOSE® Technology

Certified Product

Knauf Insulation Sprl.

Rue de Maastricht 95, 4600 Visé, Belgium

Applicant

The above product complies with the Indoor Air Comfort Gold specifications, version 9.0 (2023). These include both inspection of factory production and VOC emissions testing according to EN 16516, at regular intervals. Indoor Air Comfort Gold combines all key European and selected global requirements on VOC product emissions. Additional requirements not related to VOC product emissions, for example content of certain substances or odour are not combined or evaluated. The following VOC emission requirements are combined and the certified product shows compliance with these VOC emission related limit values:

- France VOC class A+
- Germany (AgBB/ABG)
- Italian CAM Edilizia
- EU Taxonomy Regulation
- LEED (ACP)
- BREEAM New Construction
- WELL Building
- DGNB
- SKA Rating
- French HQE certification
- Blue Angel DE-UZ 132
- Austrian Baubook
- M1
- Danish Indoor Climate Label (Emission Class 1)
- BVB (Sweden)
- Miljöbyggnad (Sweden)
- Eco Product Norway
- SINTEF (Norway)
- Cradle to Cradle
- very low emitting products according to EN 16798-1
- Singapore Green Label
- Global GreenTag
- Declare 2.0

Issue date: 14 June 2024

Product type: Thermal Insulation

Validity date: 14 June 2029

Certificate number: IACG-323-01-25-2024

This certificate is valid as specified if regular surveillance and testing is done.

Thomas Neuhaus

Head of Certification Body

Eurofins Product Testing A/S
Smedeskovvej 38, Gate 9
8464 Galten
Denmark

**DANAK**
PROD Reg.no. 7054
Member EA MLA



Appendix to Certificate IACG-323-01-25-2024

Knauf Insulation Sprl.

receives the Indoor Air Comfort Gold certificate with validity 14 June 2029

for below product group, including subgroups and individual products as listed:

Product group: Knauf Insulation unfaced GMW products with ECOSE® Technology

Product type: Thermal Insulation

Production sites:

Bernburg, Germany
Cwmbran, UK
Eskisehir, TR
Johor, Malaysia
Krupka, Czechia
Lannemezan, France
St Helens, UK
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.



Certificate

Indoor Air Comfort Gold

Unfaced, paper and aluminum faced Rock Mineral Wool with ECOSE® Technology

Certified Product

Knauf Insulation Sprl.

Rue de Maastricht 95, 4600 Visé, Belgium

Applicant

The above product complies with the Indoor Air Comfort Gold specifications, version 9.0 (2023). These include both inspection of factory production and VOC emissions testing according to EN 16516, at regular intervals. Indoor Air Comfort Gold combines all key European and selected global requirements on VOC product emissions. Additional requirements not related to VOC product emissions, for example content of certain substances or odour are not combined or evaluated. The following VOC emission requirements are combined and the certified product shows compliance with these VOC emission related limit values:

- | | | | |
|--------------------------|----------------------------|--|--|
| - France VOC class A+ | - LEED (ACP) | - Blue Angel DE-UZ 132 | - Eco Product Norway |
| - Germany (AgBB/ABG) | - BREEAM New Construction | - Austrian Baubook | - SINTEF (Norway) |
| - Italian CAM Edilizia | - WELL Building | - M1 | - Cradle to Cradle |
| - EU Taxonomy Regulation | - DGNB | - Danish Indoor Climate Label (Emission Class 1) | - very low emitting products according to EN 16798-1 |
| | - SKA Rating | - BVB (Sweden) | - Singapore Green Label |
| | - French HQE certification | - Miljöbyggnad (Sweden) | - Global GreenTag |
| | | | - Declare 2.0 |

Issue date: 09 September 2024

Product type: Thermal Insulation

Validity date: 09 September 2029

Certificate number: IACG-323-02-01-2024

This certificate is valid as specified if regular surveillance and testing is done.

Thomas Neuhaus

Head of Certification Body

Eurofins Product Testing A/S
Smedskovvej 38, Gate 9
8464 Galten
Denmark

 **DANAK**
PROD Reg.no. 7054
Member EA MLA



Appendix to Certificate IACG-323-02-01-2024

Knauf Insulation Sprl.

receives the Indoor Air Comfort Gold certificate with validity 09 September 2029

for below product group, including subgroups and individual products as listed:

Product group: Unfaced, paper and aluminum faced Rock Mineral Wool with ECOSE® Technology

Product type: Thermal Insulation

Production sites:

Novi Marof, Croatia
Surdulica, Serbia
Queensferry, UK

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.



Certificate

Indoor Air Comfort Gold

Veil faced Rock Mineral Wool products with ECOSE® Technology

Certified Product

Knauf Insulation Sprl.

Rue de Maastricht 95, 4600 Visé, Belgium

Applicant

The above product complies with the Indoor Air Comfort Gold specifications, version 9.0 (2023). These include both inspection of factory production and VOC emissions testing according to EN 16516, at regular intervals. Indoor Air Comfort Gold combines all key European and selected global requirements on VOC product emissions. Additional requirements not related to VOC product emissions, for example content of certain substances or odour are not combined or evaluated. The following VOC emission requirements are combined and the certified product shows compliance with these VOC emission related limit values:

- France VOC class A+
- Germany (AgBB/ABG)
- Italian CAM Edilizia
- EU Taxonomy Regulation
- LEED (ACP)
- BREEAM New Construction
- WELL Building
- DGNB
- SKA Rating
- French HQE certification
- Blue Angel DE-UZ 132
- Austrian Baubook
- M1
- Danish Indoor Climate Label (Emission Class 1)
- BVB (Sweden)
- Miljöbyggnad (Sweden)
- Eco Product Norway
- SINTEF (Norway)
- Cradle to Cradle
- very low emitting products according to EN 16798-1
- Singapore Green Label
- Global GreenTag
- Declare 2.0

Issue date: 09 September 2024

Product type: Thermal Insulation

Validity date: 09 September 2029


Certificate number: IACG-323-02-02-2024

This certificate is valid as specified if regular surveillance and testing is done.

Thomas Neuhaus

Head of Certification Body

Eurofins Product Testing A/S
Smedskovvej 38, Gate 9
8464 Galten
Denmark

**DANAK**
PROD Reg.no. 7054
Member EA MLA



Appendix to Certificate IACG-323-02-02-2024

Knauf Insulation Sprl.

receives the Indoor Air Comfort Gold certificate with validity 09 September 2029

for below product group, including subgroups and individual products as listed:

Product group: Veil faced Rock Mineral Wool products with ECOSE® Technology

Product type: Thermal Insulation

Production sites:

Novi Marof, Croatia
Surdulica, Serbia

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.



Certificate

Indoor Air Comfort Gold

Knauf Insulation unfaced, paper and aluminum faced Rock Mineral Wool products with E - Technology

Certified Product

Knauf Insulation Sprl.

Rue de Maastricht 95, 4600 Visé, Belgium

Applicant

The above product complies with the Indoor Air Comfort Gold specifications, version 9.0 (2023). These include both inspection of factory production and VOC emissions testing according to EN 16516, at regular intervals. Indoor Air Comfort Gold combines all key European and selected global requirements on VOC product emissions. Additional requirements not related to VOC product emissions, for example content of certain substances or odour are not combined or evaluated. The following VOC emission requirements are combined and the certified product shows compliance with these VOC emission related limit values:

- | | | | |
|--------------------------|----------------------------|--|--|
| - France VOC class A+ | - LEED (ACP) | - Blue Angel DE-UZ 132 | - Eco Product Norway |
| - Germany (AgBB/ABG) | - BREEAM New Construction | - Austrian Baubook | - SINTEF (Norway) |
| - Italian CAM Edilizia | - WELL Building | - M1 | - Cradle to Cradle |
| - EU Taxonomy Regulation | - DGNB | - Danish Indoor Climate Label (Emission Class 1) | - very low emitting products according to EN 16798-1 |
| | - SKA Rating | - BVB (Sweden) | - Singapore Green Label |
| | - French HQE certification | - Miljöbyggnad (Sweden) | - Global GreenTag |
| | | | - Declare 2.0 |

Issue date: 09 September 2024

Product type: Thermal Insulation

Validity date: 09 September 2029

Certificate number: IACG-323-02-04-2024

This certificate is valid as specified if regular surveillance and testing is done.

Thomas Neuhaus

Head of Certification Body

Eurofins Product Testing A/S
Smedskovvej 38, Gate 9
8464 Galten
Denmark

 **DANAK**
PROD Reg.no. 7054
Member EA MLA



Appendix to Certificate IACG-323-02-04-2024

Knauf Insulation Sprl.

receives the Indoor Air Comfort Gold certificate with validity 09 September 2029

for below product group, including subgroups and individual products as listed:

Product group: Knauf Insulation unfaced, paper and aluminum faced Rock Mineral Wool products with E - Technology

Product type: Thermal Insulation

Production sites:

Novi Marof, Croatia
Surdulica, Serbia
Queensferry, UK

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.

Declare.



Glass Mineral Wool products without 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%)

EU CoC Screened: Does Not Contain

Ingredients:

∴ EC: 926-099-9 Man-Made Vitreous (silicate) Fibers; Syrups, 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-0043

EXP. 01 JUL 2025

SCREENED: 01 JUL 2024

Original Issue Date: 2021