



PAROC SUPPORTS LEED & BREEAM

Compliance of Paroc products with LEED & BREEAM, environmental rating systems for buildings.

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PREFACE

In this document, the compliance of Paroc products with various environmental rating systems for buildings are assessed. The aim is to present the environmental qualities of Paroc products as well as highlight the essential Paroc sustainable best practices. The features have been presented in a way that contributes to meeting the requirements of global environmental certifications.

This document applies to all Paroc products produced in Sweden, Finland, Lithuania, Poland and Russia.

The following environmental rating systems for buildings are assessed:

- LEED Building Design & Construction v2009 (BD&C v2009)
- LEED Building Design & Construction v4 (BD&C v4)
- BREEAM International New Construction 2016 (NC 2016)
- BREEAM International Refurbishment and Fit-Out 2015 (RFO 2015)

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PAROC SUPPORTS LEED & BREEAM

Compliance of Paroc products with LEED & BREEAM, environmental rating systems for buildings, is Supervised by Green Building Partners Ltd



ENVIRONMENTAL MANAGEMENT, REPORTING AND EXTENDED PRODUCER RESPONSIBILITY

PAROC PRACTICES IN BRIEF

- Self-reporting according to GRI (Global Reporting Initiative) guidelines
- BES 6001 certification (Responsible Sourcing of Construction Products) for supply chain management (Russian site Izoplit will be certified under the BES 6001 in 2018)
- REWOOL® system for Extended Producer Responsibility (EPR)
- ISO 14001 and ISO 9001 certifications for all production sites
- OHSAS 18001 certification for the Paroc site in Poland

COMPLIANCE WITH THE ENVIRONMENTAL RATING SYSTEMS

LEED BD&C v2009

No credits concerning environmental management, reporting or extended producer responsibility in this rating system.

LEED BD&C v4

MR 3 Building Product Disclosure and Optimization - Sourcing of Raw Materials

Paroc contribution EPR (Extended Producer Responsibility) system, REWOOL®, can be counted in with a 50 % weighting (based on costs) for products. The system is in operation in all countries except Russia.

Assessment In option 2, at least 25 % of the overall material costs must consist of products that fulfil LEED criteria. Paroc's REWOOL® system fulfils the requirements of an EPR system that has not been validated by a third party. Costs from Paroc products can be calculated with a 50 % weight.

BREEAM International NC 2016

Mat 03 Responsible sourcing of construction products

Paroc contribution BES 6001 certification secures 5 points in the "Mat 03 Responsible Sourcing of Materials" calculator which is the best possible rating for new materials. For products produced in Russia, ISO 14001 certification secures 1 point.

Assessment The credit requires products with a responsible supply chain to be used in the construction. With the BES 6001 certification, Paroc products earn 5 point scores in the "Mat 03 Responsible Sourcing of Materials" calculator. Only reusing structures entirely could earn the project a higher point score.

Proving compliance with ISO 14001 is another option. As the BES 6001 provides a higher score in the Mat 03 Calculator (5 points) than ISO 14001 (1 point or 2 points if the producers of the main ingredients also have the ISO 14001), compliance path using BES 6001 is recommended.

BREEAM International RFO 2015

Mat 03 Responsible sourcing of materials

Paroc contribution BES 6001 certification secures 5 points in the Mat 03 Responsible Sourcing of Materials calculator. For products produced in Russia Izoplit, ISO 14001 certification secures 1 point.

Assessment Similar assessment as in BREEAM International NC 2016.

PAROC PRACTICES IN DETAIL

- When it comes to corporate sustainability reporting (CSR), Paroc does self-reporting and follows the guidelines of GRI (Global Reporting Initiative) providing information on the company's sustainable practices and principles.
- To control the sustainability of the entire product supply chain, Paroc has a BES 6001 certification (Responsible Sourcing of Construction Products) with a performance rating "Good". All raw material suppliers and sub-producers are included in the reporting scope. Paroc has a "Code of Conduct for Suppliers and Subcontractors" based on the BES 6001 standard requirements. The BES 6001 certification includes all Paroc mineral wool production sites in Sweden, Finland, Lithuania and Poland. Russian site Izoplit will be certified under the BES 6001 in 2018.
- The mineral wool for acoustic products is produced in the other Swedish factories although the actual acoustic products are manufactured in the Skövde factory in Sweden. Therefore, Skövde is not mentioned amongst the other production sites.
- In order to minimize environmental impacts and the amount of mineral wool going to waste after for example demolition of buildings, Paroc also has created an Extended Producer Responsibility (EPR) system called REWOOL®. In short, Paroc takes back pure and reusable excess mineral wool from construction sites and demolished buildings which is then directed back to the Paroc production line and used to produce new Paroc products.
- All Paroc factories and management all over Europe including the factories in Finland, Sweden, Lithuania, Poland and Russia, are both ISO 14001 and ISO 9001 certified. The Paroc site in Poland is certified with the OHSAS 18001 occupational health and safety management system.

ACOUSTICS

PAROC PRACTICES IN BRIEF

- NRC (noise reduction coefficient) values available for the majority of the products
- All Paroc product are sound absorbing products which contribute to:
- Lower background noise levels
- Lower STC (sound transmission class) ratings
- Shorter reverberation times

COMPLIANCE WITH THE ENVIRONMENTAL RATING SYSTEMS

LEED BD&C v2009

IEQp3 Minimum Acoustical Performance (prerequisite only for Schools)

Paroc contribution Paroc provides Noise Reduction Coefficient (NRC) values for the majority of products (presented in the product descriptions on the Paroc website). All Paroc acoustic products are sound absorbing products and thus they contribute towards a short reverberation time.

Assessment Classrooms and core learning spaces less than 560 m³:
The total surface area finished with a material with a Noise Reduction Coefficient (NRC) of 0.70 or higher has to equal or exceed the total ceiling area.
Classrooms and core learning spaces more than 560 m³:
The reverberation time in all classrooms and other core learning spaces has to be 1.5 seconds or less.

IEQ 9 Enhanced Acoustical Performance (credit only for Schools)

Paroc contribution All Paroc acoustic products are sound absorbing products and thus they contribute towards a short reverberation time, low background noise level as well as a higher Sound Transmission Class (STC) rating.

Assessment The building shell, classroom partitions and other core learning space partitions have to meet the Sound Transmission Class (STC) requirements of ANSI Standard S12.60-2002 (STC rating of at least 35). Background noise level from HVAC systems must not exceed 40 dbA.

LEED BD&C v4

IEQp3 Minimum Acoustic Performance (prerequisite only for Schools)

Paroc contribution Paroc provides Noise Reduction Coefficient (NRC) values for each product (presented in the product descriptions on the Paroc website). All Paroc acoustic products are sound absorbing products and thus they contribute towards a short reverberation time.

Assessment Classrooms and core learning spaces less than 566 m³:
Option 1. Noise Reduction Coefficient (NRC) of all ceilings or other acoustical panels such as wallpanels has to be 0.70 or higher. Standard S12.60-2002 (STC rating of at least 35).
Background noise level from HVAC systems must not exceed 40 dbA.

IEQ 9 Acoustic Performance

Paroc contribution All Paroc acoustic products are sound absorbing products and thus they contribute towards a short reverberation time, low background noise level as well as a higher Sound Transmission Class (STC) rating.

Assessment The Sound Transmission Class (STC) requirements specified in the credit. The values vary by room type. Background noise level from HVAC systems and reverberation times are also restricted and vary from space type to space type.

BREEAM International NC 2016

Hea 05 Acoustic performance

Paroc contribution All Paroc acoustic products are sound absorbing products and thus they contribute towards a short reverberation time, low indoor ambient noise levels as well as good airborne and impact sound insulation values.

Assessment Indoor ambient noise level and reverberation time targets must be within national building regulations or other appropriate good practice standards (in Finland "SFS 5907, 2006 Acoustic classification of spaces in buildings" and in Sweden "SS 25268:2007, Acoustics").

Depending on the building or space usage type, various measurements (e.g. reverberation times, reverberant sound pressure levels, airborne and impact sound insulation values etc.) must be carried out to ensure that the relevant spaces achieve the required levels.

BREEAM International RFO 2015

Hea 05 Acoustic performance

Paroc contribution All Paroc acoustic products are sound absorbing products and thus they contribute towards a short reverberation time, low indoor ambient noise levels as well as good airborne and impact sound insulation values.

Assessment Similar assessment as in BREEAM International NC 2016.

PAROC PRACTICES IN DETAIL

- Acoustic ceiling tile and other acoustic products are produced in the Skövde factory in Sweden.
- Paroc has NRC (Noise Reduction Coefficient) values for the majority of the products. The values for each product are presented in the product descriptions on the Paroc website. Values are also available upon request.
- When it comes to the STC (Sound Transmission Class) values, Paroc does not use this unit when testing the properties of their products. Instead, Paroc uses the unit “ α_w ” which is a more commonly used unit in Europe. Paroc does the room-to-room sound proofing testing related to their products per the ISO 10848-2 standard. The STC values have to be calculated project specifically as e.g. installation method influences the overall structures’ acoustic performance. However, due to the sound absorbing qualities the Paroc products contribute towards a lower STC value.
- All products in the Paroc Acoustics range are sound absorbing products and thus they contribute towards a short reverberation time. Reverberation times must be assessed project and product specifically.

MATERIAL SOURCING

PAROC PRACTICES IN BRIEF

- Paroc products are manufactured in Sweden, Finland, Lithuania, Poland and Russia
- Raw materials are sourced mainly locally
- Paroc products include recycled materials (both pre-consumer and post-consumer)

COMPLIANCE WITH THE ENVIRONMENTAL RATING SYSTEMS

LEED BD&C v2009

MR 4 Recycled content

Paroc contribution

Most of the Paroc products contain recycled material. The recycled material is either mineral wool collected from customers through the REWOOL® system (postconsumer) or EAF slag from other producers' processes (preconsumer) that is used in the making of Paroc mineral wool. The amount of recycled material varies from product to product and is also dependent on the production site.

Average recycled content for Paroc products is 5%.

For further details please contact Paroc.

Assessment

For credit compliance materials with recycled content such that the sum of postconsumer recycled content plus 1/2 of the preconsumer content constitutes at least 10% (1 point) or 20% (2 points), based on cost, of the total value of the materials in the project.

Mechanical, electrical and plumbing components, and specialty items such as elevators cannot be included in this calculation. Only materials permanently installed in the project can be included.

MR 5 Regional Materials

Paroc contribution

Paroc products are manufactured in Sweden, Finland, Lithuania, Poland and Russia.

Raw materials are sourced mainly locally.

For further details please contact Paroc.

Assessment

Products and the raw materials used to manufacture them must be sourced (extracted, harvested and manufactured) within 500 miles (800 km) from the location of the project site.

LEED BD&C v4

MR 2 Building Product Disclosure and Optimization - Environmental Product Declarations (Option 2 Multi-attribute optimization)

MR 3 Building Product Disclosure and Optimization - Sourcing of Raw Materials (Option 2 Leadership extraction practices)

MR 4 Building Product Disclosure and Optimization - Material Ingredients (Option 2 Material ingredient optimization and Option 3 Product Manufacturer Supply Chain Optimization)

Paroc contribution

Credits MR 2, MR 3 and MR 4:

Paroc products are manufactured in Sweden, Finland, Lithuania, Poland and Russia. Raw materials are sourced mainly locally. Specific information on the regionality of a certain product used in a LEED BD&C v4 project must be asked directly from Paroc.

Credit MR 3:

Most of the Paroc products contain recycled material. The recycled material is either mineral wool collected from customers through the REWOOL® system (postconsumer) or EAF slag from other producers' processes (preconsumer) that is used in the making of Paroc mineral wool. The amount of recycled material varies from product to product and is also dependent on the production site. For further details please contact Paroc.

Assessment

Credits MR 2, MR 3 and MR 4:

For credits achievement calculations, products sourced (extracted, manufactured, purchased) within 100 miles (160 km) of the project site are valued at 200 % of their base contributing cost.

Credit MR 3:

For credits achievement calculations, products meeting recycled content criteria are valued at 100% of their cost. Recycled content is the sum of postconsumer recycled content plus one-half of the preconsumer recycled content, based on cost.

BREEAM International NC 2016

No credits concerning material sourcing in this rating system.

BREEAM International RFO 2015

No credits concerning material sourcing in this rating system.

PAROC PRACTICES IN DETAIL

- Paroc products are manufactured in Sweden, Finland, Lithuania and Poland. Raw materials are harvested from various locations in Europe. Further details on regional materials and harvesting or production locations of various Paroc products will be given project-specifically upon request.
- Most of the Paroc products contain recycled material. The recycled material is either mineral wool collected from customers through the REWOOL® system (postconsumer) or EAF slag from other producers' processes (preconsumer) that is used in the making of Paroc mineral wool. The amount of recycled material varies from product to product and is also dependent on the production site.

RECYCLING AND WASTE MANAGEMENT

PAROC PRACTICES IN BRIEF

- The Paroc mineral wool products are reusable
- Paroc has the REWOOL® system (available for Paroc customers)

COMPLIANCE WITH THE ENVIRONMENTAL RATING SYSTEMS

LEED BD&C v2009

MR 2 Construction Waste Management

Paroc contribution	Paroc mineral wool is recyclable and can help the constructor to meet their recycling targets. Paroc has a REWOOL® system in place to take back reusable mineral wool.
Assessment	At least 50 % of the construction site or demolition waste has to be recycled. An additional point is awarded if the recycling rate exceeds 75 %.

LEED BD&C v4

MR 5 Construction and Demolition Waste Management

Paroc contribution	Paroc mineral wool is recyclable and can help the constructor to meet their recycling targets. Paroc has a REWOOL® system in place to take back reusable mineral wool.
Assessment	At least 50 % of the construction site or demolition waste, including waste from a minimum of three different waste streams, has to be recycled. An additional point is awarded if the recycling rate exceeds 75 % and at least 4 different waste streams included.

BREEAM International NC 2016

Wst 01 Construction waste management

Paroc contribution	Paroc mineral wool is recyclable and can help the constructor to meet their recycling targets. Paroc insulation products fulfil the criteria for the key waste group "insulation". Paroc has a REWOOL® system in place to take back reusable mineral wool.
Assessment	Construction site or demolition waste has to be separated into at least five key waste groups. Insulation products are considered as one of these key groups. Actual points are awarded based on the final recycling rate of all waste accumulated on-site during the construction or demolition process.

BREEAM International RFO 2015*Wst 01 Project waste management*

Paroc contribution Paroc mineral wool is recyclable and can help the constructor to meet their recycling targets. Paroc acoustic boards fulfil the criteria for the key material category "mineral fibre ceiling panels and tiles". Paroc has a REWOOL[®] system in place to take back reusable mineral wool.

Assessment Construction site or demolition waste has to be separated into certain key material groups. Mineral fibre ceiling panels and tiles are labeled as one of these key groups. The materials have to be either reused on-site or off-site or sent back to the manufacturer. Actual points are awarded based on the recycling rate.

PAROC PRACTICES IN DETAIL

- The mineral wool products can be reused. If the mineral wool is pure and has not been mixed e.g. with concrete or other building materials, it can be used as heat insulation material in other construction products.
- Paroc has a REWOOL[®] system in place to collect reusable mineral wool from construction sites. The goal is to maximize the amount of mineral wool that can be reused. With the REWOOL[®] system, surplus insulation is recycled and turned into new loose wool insulation, instead of being disposed of as waste. The REWOOL[®] system involves the collection and transport of waste wool for the production of new loose wool. A small fee is charged for collecting the waste wool, as well as for transport costs, thus avoiding the need for landfill disposal. In Russia, REWOOL[®] system will be in the use in the future.

ENVIRONMENTAL PRODUCT DECLARATIONS

PAROC PRACTICES IN BRIEF

- EPD's for Finland and Sweden according to ISO 14025, ISO 21930 and EN 15804
- International EPD's according to EN 15804
- Both EPD types contain information on the CO₂, CFC-11, SO₂, phosphate and ethene (C₂H₄) emissions

COMPLIANCE WITH THE ENVIRONMENTAL RATING SYSTEMS

LEED BD&C v2009

No credits concerning environmental product declarations in this rating system.

LEED BD&C v4

MR 2 Building Product Disclosure and Optimization - Environmental Product Declarations (Option 1 Environmental product declaration EPD)

Paroc contribution The current Paroc EPD's are per ISO 14025, ISO 21930 and EN 15804. Compliance with ISO 14040 and ISO 14044 is lacking and thus the requirements are not met. However, Paroc is currently working on EPD's that follow ISO 14025, ISO 14040 and ISO 14044 as well as ISO 21930 and EN 15804 standards for all its products.

Assessment At least 20 different permanently installed products sourced from at least five different manufacturers have either a publicly available, critically reviewed life-cycle assessment conforming to ISO 14044 or an EPD according to ISO 14025, ISO 14040 and ISO 14044 and EN 15804 or ISO 21930.

MR 2 Building Product Disclosure and Optimization - Environmental Product Declarations (Option 2 Multi-attribute optimization)

Paroc contribution Both the international EPD's and the EPD's for Finland and Sweden contain information on the amounts of emissions in the following categories: CO₂, CFC-11, SO₂, phosphate and ethene (C₂H₄) which account for four of the required categories. This credit can not be awarded with Option 2 because no specific programs have been approved yet.

Assessment Based on costs, 50 % of the permanently installed products must be third party certified products that demonstrate impact reduction below industry average in at least three of the following categories: kg CO₂-e; kg CFC-11, kg H₂O or SO₂; kg nitrogen or phosphate; and formation of tropospheric ozone (kg NO_x, kg O₃ or ethene C₂H₄) as well as depletion of nonrenewable energy resources (MJ). No specific programs have been approved yet.

BREEAM International NC 2016

Mat 01 Life cycle impacts

Paroc contribution The international EPD's are per EN 15804 and the EPD's for Finland and Sweden are per ISO 14025, ISO 21930 and EN 15804 standards. Therefore, using Paroc products may contribute to achieving at least one credit and potentially an additional exemplary credit.

Assessment One credit can be achieved if at least 5 products used in the building construction have an EPD that is in accordance with either ISO 14025, ISO 21930 or EN 15804. A maximum of 2 EDP's per product group may be included in the calculations.
The exemplary level credit can be achieved when the Mat01 calculator has been completed and at least 10 products used in the building construction are in accordance with at least one of the before mentioned standards. Again, a maximum of 2 EDP's per product group may be included in the calculations.

BREEAM International RFO 2015

Mat 01 Environmental impact of materials (Option 2)

Paroc contribution The international EPD's are per EN 15804 and the EPD's for Finland and Sweden are per ISO 14025 and EN 15804 standards. Therefore, using Paroc products contribute to achieving points under this credit.

Assessment Up to 5 points can be achieved in the Mat01 calculator if at least one product per element type has a third party certified environmental product declaration that conforms to either ISO 15804 (type III), ISO 14025 (type III) or ISO 14024 (type I) standards.

PAROC PRACTICES IN DETAIL

- Paroc EPD's for Finland and Sweden follow the ISO 14025, ISO 21930 and EN 15804 standards. They include all products produced in the Finnish and Swedish factories and that have no facing or other features other than mineral wool on them. The EPD's have been based on the density of the products (products with a density of less than 70 kg/m³, 70–120 kg/m³ and more than 120 kg/m³).
- Paroc also has three international EPD's that cover all production plants in Finland, Sweden, Poland and Lithuania. These EPD's also cover products with no facing and have been divided into three groups based on the same density categories as the Finland and Sweden specific EPD's. There are international EPD's for products with an average density of 35 kg/m³, 93 kg/m³ and 144 kg/m³ which are equivalent with the less than 70 kg/m³, 70–120 kg/m³ and more than 120 kg/m³ categories. These EPD's are self-declarations done in accordance with the EN 15804 standard.
- Both the international EPD's and the EPD's for Finland and Sweden are in accordance with the ISO 21930 standard with information on the amounts of emissions in the following categories:
 - CO₂-e
 - CFC-11 eq
 - SO₂e
 - Phosphate
 - Ethene (C₂H₄)
- Paroc is currently working on EPD's that follow ISO 14025, ISO 14040 and ISO 14044 as well as ISO 21930 and EN 15804 standards for all its products including both products with and without various coatings in all factories all over Europe.

EMISSIONS

PAROC PRACTICES IN BRIEF

- No substances listed on the REACH Authorization or Candidate list used in Paroc mineral wool products
- M1 classifications for nearly all products
- Eurofins "Indoor Air Comfort GOLD" product certifications for several technical insulation products

COMPLIANCE WITH THE ENVIRONMENTAL RATING SYSTEMS

LEED BD&C v2009

MR 4 Building Product Disclosure and Optimization - Material Ingredients
(Option 2 Material ingredient optimization)

Paroc contribution Paroc mineral wool products contain no substances of very high concern listed in the so-called REACH Authorization or Candidate list and thus they are valued at a 100 % weight (by cost) in the credit calculations.

Assessment At least 25 % (by cost) of permanently installed products must meet the credit requirements. End use products and materials that do not contain substances that meet REACH criteria for substances of very high concern (listed on the REACH Authorization or Candidate list) are valued at a weight 100% of cost. Paroc mineral wool products do not contain any substances listed in the aforementioned lists.

IEQ 2 Low-Emitting Materials

Paroc contribution Several Paroc products have a Finnish M1 classification (version 22.11.2015) which is compliant with the credit requirements (General Emissions Evaluation) in Europe.

Assessment Ceilings, walls, thermal and acoustic insulation products are evaluated based on the General Emissions Evaluation. In Europe, the Finnish M1 material emissions class (version 22.11.2015) is accepted as proof for compliance with the requirements.

BREEAM International NC 2016

Hea 02 Indoor air quality

Paroc contribution Several Paroc products have the Finnish M1 emission classification which is compliant with the credit requirement. M1 meets also the exemplary level requirement.

Assessment Ceiling, wall, and acoustic and thermal insulation materials must fulfil the following criteria:
- Formaldehyde max. 0.06 mg/m³
- TVOC (total volatile organic compounds) max 1.0 mg/m³
- 1A and 1B carcinogens max 0.001 mg/m³
The Finnish M1 emission classification fulfils the criteria listed above.

BREEAM International RFO 2015

Hea 02 Indoor air quality

Paroc contribution Several Paroc products have the Finnish M1 emission classification which is compliant with the credit requirement. M1 meets also the exemplary level requirement.

The Paroc products contribute to low VOC and formaldehyde levels in the overall indoor air since the products have the M1 certifications and include no added formaldehyde.

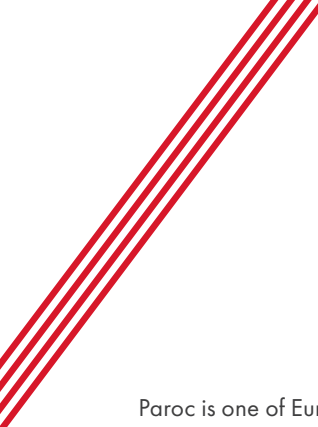
Assessment Suspended ceiling tiles must fulfil the following criteria:

- Formaldehyde E1 class
- Formaldehyde level of 0.1 mg/m³

The Finnish M1 emission classification fulfils the criteria listed above.

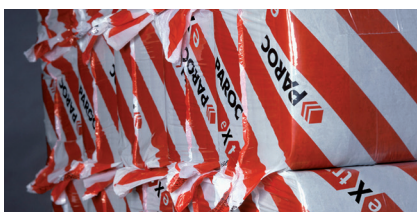
PAROC PRACTICES IN DETAIL

- Paroc mineral wool products do not contain (nor are they added in production) substances mentioned in the so-called candidate list (substances of very high concern) of REACH.
- Several Paroc products have a Finnish M1 emission (version 22.11.2015) classification. A list of Paroc products with a M1 classification can be found on the Finnish Rakennustieto website at <http://m1.rts.fi/en/>.

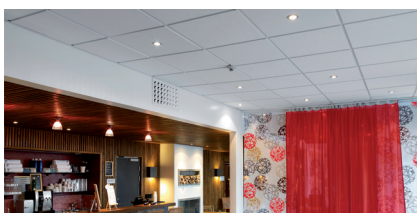


Paroc is one of Europe's leading manufacturers of energy-efficient and fire-proof insulation solutions. Throughout our 80-year history, we have earned a reputation for high product performance, technical expertise and sustainability among builders of single-family homes, architects, contractors, dealers and industrial builders.

The cornerstones of our operations are customer and personnel orientation, constant innovation, profitable growth and sustainable development. Paroc products include building insulation, technical insulation, marine and offshore insulation, and acoustic products. The products are manufactured in Finland, Sweden, Lithuania, Poland and Russia. Paroc has sales and representative offices in 14 European countries.



Building Insulation offers a wide range of products and solutions for all traditional building insulation. The building insulation products are mainly used for the thermal, fire and sound insulation of exterior walls, roofs, floors and basements, intermediate floors and partitions.



Sound absorbing ceilings and wall panels for interior acoustic control, as well as industrial noise control products, are available in the range.



Technical Insulation products are used for thermal, fire and sound insulation in HVAC systems, industrial processes and pipe work, industrial equipment as well as shipbuilding and offshore industry.

The information in this brochure describes the conditions and technical properties of the disclosed products, valid at the time of publication of this document and until replaced by the next printed or digital version. The latest version of this brochure is always available on the Paroc website. Our information material presents applications for which the functions and technical properties of our products have been approved. However, the information does not mean a commercial guarantee. We do not assume liability of the use of third party components used in the application or the installation of our products. We cannot warrant the suitability of our products if used in an area or conditions which are not provided in our information material. As a result of constant further development of our products we reserve the right to make alterations to our information material at any time.

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