



BREEAM International New Construction - 2016

We are Rockfon

We are the world's leading acoustic company. Every day we're inspired to innovate with sound solutions that help people, think, rest and enjoy life more. Our tiles and panels are especially designed to provide acoustic ceiling solutions that are beautiful while creating healthy, comfortable spaces.

Wellbeing is at the heart of everything we do. Our beautiful acoustic solutions bring concentration to classrooms, enjoyment to venues, safety to industrial settings and healing to hospitals. All of this is underpinned by our four core values: Quality, Trust, Sustainability and Innovation.



Sustainability in Rockfon

Sustainability sits at the heart of our research and development. It is not just a buzz word but it is embedded to all our processes and way of thinking throughout the lifecycle of the product. It's why we use natural stone, constantly reduce our carbon footprint and recycle as part of the circular economy.

We want to bring this knowledge on sustainability to our customers and show that how Rockfon products and their characteristics can help you earn more credits in building rating schemes.

"BREEAM is an international scheme that provides independent third party certification of the assessment of the sustainability performance of individual buildings, communities and infrastructure

projects." The assessment is done in a number of stages, from design and construction through to operation and refurbishment. BREEAM has indicators in a series of categories, ranging from energy to ecology. Each of these categories addresses the most influential factors, including low impact design and carbon emissions reduction; design durability and resilience; adaption to climate change; and ecological value and biodiversity protection¹. Rockfon acoustic solutions can be the right choice for designing and constructing sustainable buildings for BREEAM and can help you earn more points during your certification.

¹Building Research Establishment BRE GLOBAL, 2021, "How BREEAM Certification works", available via <https://www.breem.com/discover/how-breem-certification-works/>, accessed at Jan.2021

The following table gives an overview of the possible credits customers can obtain by using Rockfon's ceiling solutions.

Management

Credit	Rockfon's contribution	Max credits
<p>Man 02 Life cycle cost and service life planning</p>	<p>Aim: To promote life-cycle costing and economic sustainability through assessing elemental life-cycle cost, component level life-cycle cost and capital cost reporting.²</p> <p>In Rockfon we can support you and offer information on the component life cycle cost needed for this credit. Rockfon products have a long lasting performance and do not need any maintenance or repair during their useful life in the building, therefore they do not have any occurring use costs. In the end of their life they are manually dismantled, which makes their disposal or recycling more cost - efficient.</p>	1 point

Materials

Credit	Rockfon's contribution	Max credits
<p>Mat 01 Life cycle impacts</p>	<p>Aim: To promote the use of construction materials with low environmental impact over the whole life cycle of the building³.</p> <p>All Rockfon products are included in our third party verified Environmental Product Declaration (Product-specific Type III EPD) available in our website and also in third party databases like IBU, UL, EPD Norge. By using the special "scaling formula" inside the EPD you can easily generate the product specific results. Our technical support team is trained on EPD and will be able to provide you with assistance if needed.</p>	1 point
<p>Mat 03 Responsible sourcing for construction materials</p>	<p>Aim: To ensure a sustainable procurement plan and responsible sourcing for construction products.⁴</p> <p>All our stone wool factories have valid ISO 14001 (Environmental Management System EMS) and also ISO 9001 (Quality Management System) certifications. We select our suppliers after making sure that they fulfil ROCKWOOL Group's Code of Conduct and our high standard and commitment to the environment and to the people.</p>	4 points
<p>Mat 06 Material efficiency</p>	<p>Aim: To promote the efficient use of materials over all the stages of the life cycle of a building and support material use and waste reduction, while keeping the building performance and durability intact.⁵</p> <p>Rockfon products are easy to install and have a long lasting and durable performance, without warping or sagging over time and losing their functional characteristics. They do not generate much waste when installed and they can be recycled back to our factories in the end of their useful life or can be even reused and given a second life.</p>	1 point

²BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#04_management/man02.htm%3FTocPath%3D5.0%2520Management%7C___2, accessed at Jan 2021.

³BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#09_material/mat01_nc.htm%3FTocPath%3D10.0%2520Materials%7C___1, accessed at Jan 2021.

⁴BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#09_material/mat03.htm%3FTocPath%3D10.0%2520Materials%7C___3, accessed at Jan 2021.

⁵BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#09_material/mat06.htm%3FTocPath%3D10.0%2520Materials%7C___6, accessed at Jan 2021.

Health and Wellbeing

Credit	Rockfon's contribution	Max credits
Hea 01 Visual comfort	<p>Aim: To ensure that lighting is considered and that the building is designed to provide best practice visual comfort to the building occupants.⁶</p> <p>Rockfon can deliver a number of ceiling solutions with a light reflectance of 85% or above. Better distribution of natural light within interior spaces can help building owners to lower electric lighting loads and reduce cooling costs, saving both energy and associated costs. By choosing ceilings with the right light reflectance, Rockfon promotes occupants' productivity, comfort, and well-being.</p>	4 points
Hea 02 Indoor air quality	<p>Aim: To promote a healthy indoor environment, ensuring avoidance of asbestos, minimizing sources of air pollution and designing a flexible and adaptable building ventilation strategy.⁷</p> <p>Rockfon ceiling and wall products carry the best in class air emission labels and help you earn more points in this credit, they are low emitting and do not contain any asbestos fibres. Our products have been awarded the best-in-class indoor climate labels like the French VOC A+, Finish M1, Blue Angel, Singapore Green Building Product Certificate, and the Danish Indoor Climate Label. The emission levels are established according to EN 16516-1:2018 testing method. By reaching out to us we can give you specific information about the product you are interested in. Also you can find more information on the available certificates in our product sustainability declarations⁸.</p>	1 point
Hea 04 Thermal comfort	<p>Aim: To ensure that a flexible and thermally comfortable environment and appropriate occupant controls are provided to the building occupants.⁹</p> <p>Our products are out of stone wool which is inherently not only a highly sound-absorbent, but also a thermal-insulating material. The thermal conductivity of Rockfon ceiling tiles is between 37-40 mW/mK.</p> <p>Our Facett and Cosmos product families have improved thermal insulating properties and are installed in order to offer good thermal comfort. Their thermal conductivity value is as low as 34 mW/mK.</p>	2 points
Hea 05 Acoustic performance	<p>Aim: To ensure good practice acoustic performance standards, including sound insulation and reverberation times.¹⁰</p> <p>Rockfon's products are highly sound absorptive, and therefore significantly contribute to the reduction in reverberation time and the increased speech intelligibility. Adding a highly sound absorbing ceiling can reduce the noise levels even up to 6 dB(A). The majority of our products fall into sound absorption class A and perform significantly better than industry average. By choosing Rockfon products you can have an optimal acoustic environment that optimizes speech intelligibility and the possibility for relaxation.</p> <p>Our products are not only highly sound absorptive, but can also be highly sound blocking with the enhanced feature of our so-called dB product range. Therefore they significantly contribute to the room to room sound insulation. Also our products can act as sound barriers on walls in order to improve the sound insulation between spaces, especially in cases where the walls do not reach the ceiling height.</p>	4 points

⁶Building Research Establishment BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#05_health/hea_01_nc.htm%3FtocPath%3D6.0%2520Health%2520and%2520Wellbeing%7C___1, accessed at Jan 2021.

⁷BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#05_health/hea_02.htm%3FtocPath%3D6.0%2520Health%2520and%2520Wellbeing%7C___2, accessed at Jan 2021.

⁸https://www.rockfon.co.uk/knowledge-centre/document-library/?selectedCat=Documents*Product+sustainability+declarations%2C+tiles+and+panels

⁹BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#05_health/hea_04.htm%3FtocPath%3D6.0%2520Health%2520and%2520Wellbeing%7C___4, accessed at Jan 2021.

¹⁰BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#05_health/hea_05.htm%3FtocPath%3D6.0%2520Health%2520and%2520Wellbeing%7C___5, accessed at Jan 2021.

Waste

Credit	Rockfon's contribution	Max credits
Wst 01 Construction waste management	<p>Aim: To ensure best practice management of construction waste by promoting the reduction of construction waste and the diversion of resources from landfill.¹¹</p> <p>Rockfon products can be reused or recycled back to our factories, following a closed-loop recycling system. In many markets we support our customers and we offer a complete recycling solution, by establishing partnerships with waste handling companies and forming logistic networks to take back waste. Please reach out to our local team to get more information about the solutions offered in your market.</p>	3 points
Wst 06 Functional adaptability (non-residential only)	<p>Aim: To promote the adoption of functional design plans and enable the building to be adapted to future changes or requirements of its use.¹²</p> <p>Rockfon's products are adaptable to internal changes in physical space, refurbishment and can be manually removed without affecting the structure.</p>	1 point

Innovation

Credit Category	Rockfon's contribution	Max credits
Innovation	<p>Aim: To promote innovation through exemplary level performance in existing BREEAM issues, or an approved innovation that enhances the sustainability performance of a building.¹³</p> <p>Our products have the highest performance in the market and can enable projects to go above and beyond the current requirements of BREEAM. In Rockfon we are continuously innovating new applications that can improve the indoor spaces. Please reach out to us to scope and achieve an innovation feature together.</p>	10 points

DISCLAIMER: The points gained in each feature are not solely dependent upon the performance of Rockfon products. Rockfon products merely help towards the goal of achieving the credits but they are not a stand-alone element. Rockfon shall not guarantee or be held liable for non-fulfilment of the credits which can include a broader assessment of construction products and building elements.

¹¹BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#10_waste/wst01_nc.htm%3FTocPath%3D11.0%2520Waste%7C___1, accessed at Jan 2021.

¹²BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#10_waste/wst06.htm%3FTocPath%3D11.0%2520Waste%7C___7, accessed at Jan 2021.

¹³BRE GLOBAL., 2016. BREEAM INTERNATIONAL NEW CONSTRUCTION 2016. Reference: SD233 – Issue: 2.0. BRE GLOBAL LTD. Available at https://www.breeam.com/BREEAMInt2016SchemeDocument/#13_innovation/inn01_nc.htm%3FTocPath%3D14.0%2520Innovation%7C___1, accessed at Jan 2021.

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Sounds Beautiful

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