

FACTSHEET & CREDIT SUMMARY FOR

# **BREEAM International**





## 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 value pillars: 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 in all our processes and thinking throughout the lifecycle of the product. It's why we use abundant stone, work to 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 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 10 performance categories, 5 of which could be relevant to the use of Rockfon products. Each of these categories addresses and documents factors which influence performance outcomes such as low impact design, carbon emission reductions, design durability, and biodiversity protection.<sup>1)</sup> Rockfon acoustic solutions can be the right choice for designing and constructing more sustainable, BREEAM rated buildings and can help earn the BREEAM performance credits desired for certification.

<sup>1)</sup> BREEAM International New Construction Version 6.0 – SD250, BRE Global LTD, Watford, United Kingdom, 2021.

The following gives an overview of the ways in which we help you achieve your green building performance goals through Rockfon solutions.

## Management

Assessment issue	BREEAM's assessment aim	Rockfon's contribution	Resources
<p><b>Man 02</b> Life cycle cost and service life planning</p>	<p>"To deliver whole life value by encouraging the use of life cycle costing to improve design, specification, through-life maintenance and operation, and through the dissemination of capital cost reporting to promote economic sustainability."</p>	<p>Rockfon can support you and offer information on the component life cycle cost. Rockfon products have a long lasting performance (50 years of service life) and do not have maintenance or repair costs associated with their use. Life cycle costs of a Rockfon component include the initial cost and the disposal costs.</p>	<p><a href="#">Ask</a> for expert advice on component costs from your local Rockfon support specialists.</p>

## Materials

Assessment issue	BREEAM's assessment aim	Rockfon's contribution	Resources
<p><b>Man 01</b> Life cycle impacts</p>	<p>"To recognise and encourage the use of robust and appropriate life cycle assessment tools and consequently the specification of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building."<sup>1)</sup></p>	<p>To achieve credits in this category 5 to 10 different building components must be documented with Environmental Product Declaration (EPDs). Rockfon can provide EPDs for your project's acoustic solutions. Rockfon's third party verified EPDs are available on our website and also in third party EPD databases (EPD Norge).</p>	<p>Find our third party verified EPDs <a href="#">here</a> or by searching an EPD provider's database today.</p>
<p><b>Man 03</b> Responsible sourcing for construction materials</p>	<p>"To recognise and encourage the specification and procurement of responsibly sourced construction products."<sup>1)</sup></p>	<p>To achieve credits for responsible sourcing, project procurement must include responsible sourcing certification scheme requirements. One such approved scheme is an environmental management system. Proof of Rockfon's stone wool factory's ISO 14001 (Environmental Management System, EMS) certification can be provided. Additionally, Rockfon offers solutions made of FSC certified wood materials which is also stipulated under BREEAM Mat 03.</p>	<p><a href="#">Ask</a> your local Rockfon technical support for ISO 14001 documentation and to discover which products hold FSC certification.</p>
<p><b>Man 06</b> Material efficiency</p>	<p>"To recognise and encourage measures to optimise material efficiency in order to minimise the environmental impact of material use and waste without compromising on structural stability, durability or service life of the building."<sup>1)</sup></p>	<p>A detailed project plan will result in less re-work and less ceiling tile damage. We recommend discussing the installation thoroughly and well in advance with installers that have to work on or near the suspended ceiling. By doing so, damaged ceiling tiles and rework can be reduced increasing material use efficiency.</p>	<p>Find our many resources for planning installation on our website. We offer <a href="#">installation guides</a>, <a href="#">videos</a>, <a href="#">trainings</a>, <a href="#">BIM Library</a> objects, and much more.</p>

<sup>1)</sup> BREEAM International New Construction Version 6.0 – SD250, BRE Global LTD, Watford, United Kingdom, 2021.

## Health and Wellbeing

Assessment issue	BREEAM's assessment aim	Rockfon's contribution	Resources
<b>Hea 01</b> Visual comfort	<p>"To ensure daylighting, artificial lighting and occupant controls are considered at the design stage to ensure best practice in visual performance and comfort for building occupants."<sup>1)</sup></p>	<p>The BREEAM credits for visual comfort include contextually specific ranges of acceptable daylighting. The calculation for the building's daylight factor covers several variables, including the light reflectance of the interior ceilings. Rockfon ceiling's high light reflectance assists with achieving desired daylighting performance ranges of light reflectance.</p>	<p>Our <a href="#">product datasheets</a> inform on light reflection and light diffusion values. For additional information <a href="#">contact</a> your local technical support.</p>
<b>Hea 02</b> Indoor air quality	<p>"To recognise and encourage a healthy internal environment through the specification and installation of appropriate ventilation, equipment and finishes."<sup>1)</sup></p>	<p>BREEAM's indoor product emission credit is achieved by ensuring indoor building components perform within a set limit for indoor air emissions. Rockfon ceiling products have a low release of VOC's and are classified in Class E1 in accordance with BS EN 13964 - EN 717-1. All Rockfon products meet the BREEAM Hea 02 ceiling, wall, and acoustic material limit values.*</p> <p>In addition to achieving this required level of performance, Rockfon products have been awarded 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.</p>	<p>Our <a href="#">product datasheets</a> inform on relevant indoor air emission labels. For additional information <a href="#">contact</a> your local technical support.</p>
<b>Hea 04</b> Thermal comfort	<p>"To ensure that appropriate thermal comfort levels are achieved through design, and controls are selected to maintain a thermally comfortable environment for occupants within the building."<sup>1)</sup></p>	<p>This credit relates to planning and modeling the thermal comfort within the building in operation. Our products are made from stone wool which is not only 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>	<p>Rockfon's document <a href="#">library</a> provides DoPs which include thermal conductivity described for relevant products.</p>
<b>Hea 05</b> Acoustic performance	<p>"To ensure the building's acoustic performance, including sound insulation meets the appropriate standards for its purpose."<sup>1)</sup></p>	<p>Rockfon's products are highly sound absorptive, and therefore contribute to a reduction in reverberation time and increased speech intelligibility. Adding a sound absorbing ceiling can reduce noise levels up to 6 dB (A). The majority of our products fall into sound absorption class A and perform higher than industry average. Our products can also be sound blocking with the enhanced feature of our dB product range. Therefore, they significantly contribute to the room to room sound insulation. Also our products can act as sound barriers in ceiling voids in order to improve the sound insulation between spaces, especially in cases where the walls do not reach ceiling height. All these features will help towards achieving credits within Hea 05.</p>	<p>Find the acoustic performance on each product's respective <a href="#">documentation</a>.</p>

<sup>1)</sup> BREEAM International New Construction Version 6.0 – SD250, BRE Global LTD, Watford, United Kingdom, 2021.

\* BREEAM Hea 02 credit is achieved in part when ceiling, wall, and acoustic materials have  $\leq 0.06 \text{ mg/m}^3$  Formaldehyde,  $\leq 1.0 \text{ mg/m}^3$  TVOCs, and  $\leq 0.001 \text{ mg/m}^3$  category A1 & B1 carcinogen emissions.

## Waste

Assessment issue	BREEAM's assessment aim	Rockfon's contribution	Resources
<p><b>Wst 01</b> Construction waste management</p>	<p>"To promote resource efficiency via the effective and appropriate management of construction waste."<sup>1)</sup></p>	<p>Credits for Wst 01 can be achieved in part by reducing and eliminating waste and diverting construction waste from landfill. If a building is being dismantled, construction waste can be reduced by collecting and reusing tiles which still have years of service life. Careful planning can ensure reduced waste when cutting and installing new ceilings. Old or damaged tiles can further be diverted from landfill by either recycling them through Rockfon's closed loop recycling system which is offered on many markets or by sending the product for recycling by other means.</p>	<p>Reach out to Rockfon's <a href="#">support team</a> to get more information about recycling solutions offered in your market. Learn more on our <a href="#">Sustainability Services</a> page.</p>
<p><b>Wst 06</b> Functional adaptability (non-residential only)</p>	<p>"To recognise and encourage measures taken to accommodate future changes of use of the building over its lifespan."<sup>1)</sup></p>	<p>Rockfon's products are modular and adaptable to internal changes in physical space, refurbishment, repair, and can be manually removed without causing damage or affecting the critical structure of the building.</p>	<p>Find the right solution for repair and refurbishment through browsing our <a href="#">products</a>.</p>

## Innovation

Assessment issue	BREEAM's assessment aim	Rockfon's contribution	Resources
<p>Innovation</p>	<p>"To support innovation within the construction industry through the recognition of sustainability related benefits which are not rewarded by standard BREEAM issues."</p>	<p>Innovation credits can be achieved, among other things, through particularly exemplary performance in several of the above categories. Exemplary credits are available in the categories Mat 01, Mat 03, and Wst 01 to which Rockfon products can contribute as described above. Additionally, a selection of Rockfon products can also achieve the Hea 02 exemplary performance for ceiling, wall, and acoustic materials.*</p>	<p>Reach out to your Rockfon technical <a href="#">support</a> for help to find the best products to achieve exemplary performance in your project.</p>

**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.

<sup>1)</sup> BREEAM International New Construction Version 6.0 – SD250, BRE Global LTD, Watford, United Kingdom, 2021.

\* Exemplary performance in BREEAM Hea 02 is achieved in part when ceiling, wall, and acoustic materials have  $\leq 0.01$  mg/m<sup>3</sup> Formaldehyde,  $\leq 0.3$  mg/m<sup>3</sup> TVOCs,  $\leq 0.1$  mg/m<sup>3</sup> TSVOCs and  $\leq 0.001$  mg/m<sup>3</sup> category A1 & B1 carcinogen emissions.

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# Sounds Beautiful

