



## **LEED**

See how Rockfon acoustic ceiling tiles, baffles, islands and wall applications satisfy LEED requirements.

## 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 acoustic ceiling tiles and wall panels are specially designed to provide acoustic ceiling solutions that are beautiful while creating healthy, comfortable spaces.



## 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 way of thinking throughout the lifecycle of the product. It's why we use natural stone, constantly reduce our carbon footprint and recycle, doing our part for the circular economy.

We know sustainability is important to you and we want to share our knowledge show you how Rockfon products and their properties can help you earn more credits toward the LEED building rating scheme.

LEED v4.1 is a standard for green building design, construction and performance, which is applied in many countries worldwide. LEED focuses on delivering results to the triple bottom line "people, profit and the planet", raising the ambitions higher for designing energy-efficient buildings, conserving water, material selection, access to daylight, attention on acoustics and reducing waste. Our acoustic solutions are an excellent choice for designing and constructing sustainable buildings you want to have LEED-certified, and they can help you earn more points toward your certification.

The following table provides an overview of the possible credits you can earn by using our acoustic solutions.

## Integrative Process

Credit Category	Rockfon's contribution	Max Credits
Integrative Process	<p><b>LEED Intent:</b> To support the pre-design and design phases, identify relationships between the various systems and use them to produce efficient and cost-effective projects.<sup>1</sup></p> <p><b>Rockfon:</b> We 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 lower electric lighting expenses and reduce cooling costs, saving both energy and other associated costs. By choosing ceilings with the right light reflectance, Rockfon promotes occupants' productivity, comfort, and well-being. You can find more information on the technical properties of our solutions in our datasheets <a href="#">here</a>.</p>	1 point

## Innovation

Credit Category	Rockfon's contribution	Max Credits
Innovation	<p><b>LEED Intent:</b> To enhance and support the use of innovative practices and strategies.<sup>2</sup></p> <p><b>Rockfon:</b> Our products can enable projects to go above and beyond the current requirements of LEED. In Rockfon we are continuously innovating new applications that can improve the indoor spaces. Please reach out to us to design and achieve an innovation feature together.</p>	5 points

<sup>1</sup>US Green Building Council (USGBC), 2021, LEED BD+C: New Construction v4.1 - LEED v4.1 Integrative process, available at <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-healthc-153?return=/credits/New%20Construction/v4.1/Integrative%20process%20credits>, accessed at Jan 2021

<sup>2</sup>US Green Building Council (USGBC), LEED BD+C: New Construction v4.1 - LEED v4.1 Innovation available at <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-healthc-182?return=/credits/New%20Construction/v4.1>, accessed at Jan. 2021

## Materials and Resources

Credit Category	Rockfon's contribution	Max Credits
Building Life-Cycle Impact Reduction	<p><b>LEED Intent:</b> To support high environmental performance through reusing and reducing resources.<sup>3</sup></p> <p><b>Rockfon Contribution to Option 1 - Building and Material Reuse:</b> Our modular design is a natural fit for building flexibility and adaptive use over the building's life. Rockfon's acoustic solutions can be manually dismantled and removed from the ceiling, and reused without any damage to the tiles.</p>	1 point
Building product disclosure and optimization - Environmental Product Declarations	<p><b>LEED Intent:</b> To promote the installation and use of products and materials that have verified preferable and improved environmental life-cycle impacts.<sup>4</sup></p> <p><b>Rockfon:</b> In Rockfon, we have third-party verified Environmental Product Declarations (Product-specific Type III EPDs) following EN 15804, covering our whole portfolio. Due to the product-specific scaling formula, the product-specific impacts can be calculated, and you can be awarded one point.</p>	1 point
Building product disclosure and optimization - Sourcing of Raw Materials	<p><b>LEED Intent:</b> To promote the use of products and materials that have preferable environmental life-cycle impacts and meet responsible extraction and sourcing criteria.<sup>5</sup></p> <p><b>Rockfon:</b> As part of the ROCKWOOL Group, we expect our suppliers to enforce the same guidelines within their supply chain. Before being approved as a supplier to the ROCKWOOL Group, new potential suppliers must register in our online supplier portal and either accept the ROCKWOOL Supplier Code of Conduct or upload their own for review and approval. Our commitment to sustainable practices is documented in the ROCKWOOL Group Annual Report and the ROCKWOOL Group Sustainability Report, which is self-declared and is informed by the Global Reporting Initiative (GRI) Standards. We publish a separate GRI Standard Reference Index along with our annual Sustainability Report that can be downloaded at <a href="http://www.rockwoolgroup.com/sustainability">www.rockwoolgroup.com/sustainability</a>.</p>	2 points
Building product disclosure and optimization - Material Ingredients	<p><b>LEED Intent:</b> To promote the use of products and materials with improved environmental life-cycle impacts and support material ingredient reporting and optimisation.<sup>6</sup></p> <p><b>Rockfon:</b> Our products can contribute to this credit in 2 different ways, helping you earn up to 2 points.</p> <p><b>Option 1 - Material Ingredient Reporting (1 point):</b> More than 90% of our products have been Cradle to Cradle certified in Silver or Bronze level. For more information, please access <a href="http://c2ccertified.com">c2ccertified.com</a> or our Product Sustainability Declarations. In our Product Sustainability Declarations, we provide the basic composition of our products to qualify for meeting this criterion. If you require more information, please contact us.</p> <p><b>Option 2 - Material Ingredient Optimization (1 point):</b> All our products are screened under REACH. More than 90% of our products have been Cradle to Cradle certified in Silver or Bronze level, and they also have a Material Health Certificate. You can find more information in our Product Sustainability Declarations and qualify for one credit under this option.</p>	2 points
Construction and Demolition Waste Management	<p><b>LEED Intent:</b> To support the creation of a construction and demolition waste management plan and ensure diversion and waste perversion.<sup>7</sup></p> <p><b>Rockfon:</b> 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 inform you about the recycling solution available in your market.</p>	2 points

<sup>3</sup>US Green Building Council (USGBC), 2021, LEED BD+C: New Construction v4.1 - LEED v4.1 Building life-cycle impact reduction, available at <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-data-27?return=/credits/New%20Construction/v4.1/Material%20%20resources> accessed at Jan. 2021

<sup>4</sup>US Green Building Council (USGBC), 2021, LEED BD+C: New Construction v4.1 - LEED v4.1 Building product disclosure and optimization - environmental product declarations, available at <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-data-15?return=/credits/New%20Construction/v4.1/Material%20%20resources>, accessed at Jan. 2021.

<sup>5</sup>US Green Building Council (USGBC), 2021, LEED BD+C: New Construction v4.1 - LEED v4.1 Building product disclosure and optimization - sourcing of raw materials, available at <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-data-26?return=/credits/New%20Construction/v4.1/Material%20%20resources>, accessed at Jan. 2021.

<sup>6</sup>US Green Building Council (USGBC), 2021, LEED BD+C: New Construction v4.1 - LEED v4.1 Building product disclosure and optimization - material ingredients, available at <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-data-20?return=/credits/New%20Construction/v4.1/Material%20%20resources>, accessed at Jan. 2021.

<sup>7</sup>US Green Building Council (USGBC), 2021 LEED BD+C: New Construction v4.1 - LEED v4.1 Construction and Demolition Waste Management, available at <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-healthc-190> accessed at Jan. 2021.

## Indoor Environmental Quality

Credit Category	Rockfon's contribution	Max Credits
Low Emitting Materials	<p><b>LEED Intent:</b> To support the use of low emitting materials and promote wellbeing, productivity and environmental protection.<sup>8</sup></p> <p><b>Rockfon:</b> Rockfon ceiling and wall solutions have the best in class air emission labels and help you earn more points in this credit. 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 the EN 16516-1:2018 testing method. We can give you specific information about the product you are interested in by reaching out to us. Also, you can find more information on the available certificates in our <a href="#">Product Sustainability Declarations</a>.</p>	3 points
Indoor Air Quality assessment	<p><b>LEED Intent:</b> To support a high-quality indoor air environment for the occupants.<sup>9</sup></p> <p><b>Rockfon:</b> Rockfon's low-emitting ceiling products support a healthy indoor environment. Check out our Product Sustainability Declarations to see the great achievements of our portfolio like the Danish indoor climate label, the best Finish emission class M1 for building materials, the French A/A+ class and the Singapore Green Label.</p>	2 points
Interior lighting	<p><b>LEED Intent:</b> To ensure high-quality interior lighting performance through strategies such as glare control, colour rendering, lighting control, surface reflectivity.<sup>10</sup></p> <p><b>Rockfon:</b> Our products have the best in class light reflectance (LRVs) and light diffusion values. For example, Rockfon Blanka<sup>®</sup> has a light reflection of 87% and light diffusion &gt;99%. Higher LRVs mean that the surface reflects more light from the source, resulting in maximum light intensity and promoting alertness and activity. Choosing our products with high light reflection is a good strategy for ensuring that a sufficient amount of light reaches the eye without increasing energy consumption or glare.</p>	1 point
Acoustic performance	<p><b>LEED Intent:</b> To promote a high-quality acoustic performance and ensure compliance with HVAC background noise, sound transmission, and reverberation time requirements.<sup>11</sup></p> <p><b>Rockfon:</b> Our products have high sound absorption, significantly reducing reverberation time and increasing speech intelligibility. Adding a highly sound-absorbing ceiling can reduce noise levels up to 6 dB(A). Most of our products have a sound absorption class A (<math>\alpha_w</math> value between 0.9 and 1.0) and perform significantly better than the industry average. Class A is according to ISO 11654 and represents an <math>\alpha_w</math> value between 0.9 and 1.0. By choosing Rockfon products, you can have an optimal acoustic environment that optimises speech intelligibility and the indoor climate.</p>	1 point

**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>8</sup>US Green Building Council (USGBC), 2021 LEED BD+C: New Construction v4.1 - LEED v4.1, available at <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-healthc-178>, accessed at Jan. 2021.

<sup>9</sup>US Green Building Council (USGBC), 2021 LEED BD+C: New Construction v4.1 - LEED v4.1 Indoor Air Quality Assessment, available at <https://www.usgbc.org/credits/new-construction-schools-new-construction-retail-new-construction-healthcare-data-centers-17?return=/credits/New%20Construction/v4.1>, accessed at Jan. 2021.

<sup>10</sup>US Green Building Council (USGBC), LEED BD+C: New Construction v4.1 - LEED v4.1 Interior Lighting, available at <https://www.usgbc.org/credits/new-construction-schools-new-construction-retail-new-construction-data-centers-new-2?return=/credits/New%20Construction/v4.1>, accessed at Jan. 2021.

<sup>11</sup>US Green Building Council (USGBC), LEED BD+C: New Construction v4.1 - LEED v4.1 Acoustic Performance, available at <https://www.usgbc.org/credits/new-construction-data-centers-new-construction-hospitality-new-construction-warehouse-and-1>, accessed at Jan. 2021

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