

LEED-Certification for Building Design and Construction (BD+C)

Documentation package

LEED v.5

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Trolldtekt — LEED

LEED-Certification for Building Design and Construction (BD+C) — (LEED v.5)

LEED – Trolldtekt 2025

This documentation package for Trolldtekt describes the possible contributions to a sustainability certification according to the LEED V. 5 Manual 2025 for new construction and major renovations.

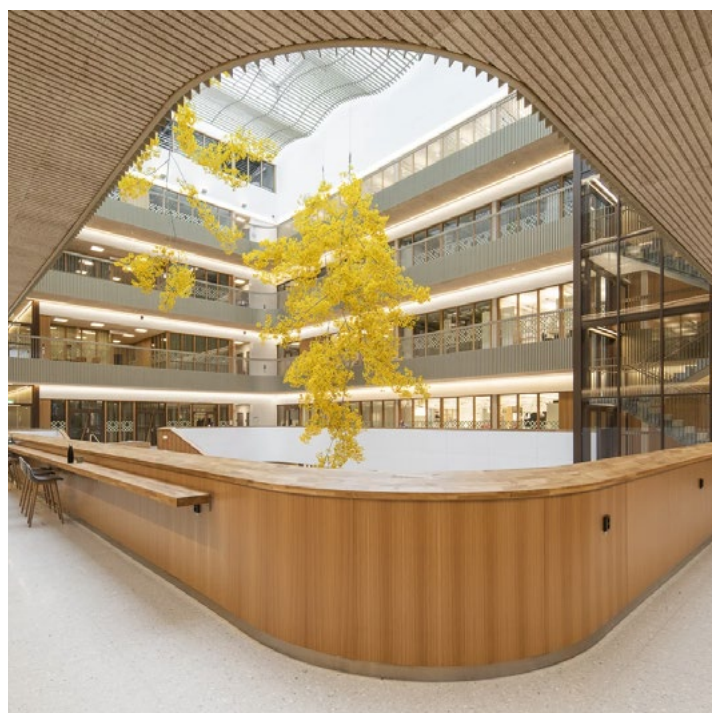
Building materials and products can be used in different ways for different needs. The documentation package is not a sustainability certification or a LEED certification of the product, but a collection of documents and information required to document the material in connection with a LEED certification of a building.

Trolldtekt acoustic panels consist of the natural materials wood and cement extracted from the Danish subsoil. The combination of wood and cement creates Trolldtekt's unique sound-absorbing properties and ensures excellent acoustic performance. The combination of materials provides natural strength and high moisture resistance while also offering effective fire protection.

Trolldtekt acoustic panels are available in a range of different solutions, based on choices of surface texture, edge profile, suspension system, color, panel size, and panel design.



These photos illustrate present some of the color for Trolldtekt's panels



LEED – Materials and resources (MR) ^(1/2)

Below is an overview of the criteria in the LEED V.5 Manual 2025 and the corresponding Trolldtekt documentation. The overview shows how Trolldtekt solutions can contribute to LEED certification for Building Design and Construction (LEED V.5).

Assessment criterion	Leed assessment intent	Trolldtekt's contribution	Resources / Documentation
MRp 2. Quantify and assess embodied carbon (Prerequisite)	"To quantify the embodied carbon impacts of the structure, enclosure, and hardscape of a project and assess the top sources of embodied carbon" ¹ .	The required documentation for MR 1. is mainly aimed at the contractor, but Trolldtekt can provide supportive data for quantifying the cradle-to-gate (A1–A3) embodied carbon emissions for Trolldtekt's solutions. For more information and to ensure the newest documentation for, please visit: Downloads	Environmental product declaration (EPD) Cradle to Cradle Certification
MRc 1. Building and materials reuse	"To incorporate reused materials into new building design, thereby reducing embodied carbon, keeping materials in circularity, reducing demand for virgin material sourcing, preserving resources and histories, and increasing demand for reused materials" ¹ .	Credits for MR 2. can be achieved by incorporating reused materials- In accordance with option 1. Building Reuse or option 2. Materials Reuse. Trolldtekt panels contributes to multifunctional design solutions and provide full flexibility and adaptability when rebuilding or designing new. Disassembly, reuse and recycling are possible with Trolldtekt acoustic panels. The panels offer a high potential of reuse since they can be easily uninstalled (often installed using screws) and thereby sold and reused in an- other construction. They are easy to handle and move and thereby very adaptable. Moreover, the panels can be repainted and customized in various configurations. For more information and to ensure the newest documentation for, please visit: Downloads	Recycling instructions Flexible design options Takeback service agreement
MRc 2. Reduce embodied carbon	"To reduce concentrations of chemical contaminants that can damage air quality and the environment. To protect human health and the comfort of installers and building occupants" ¹ .	To achieve credits for MR 3. Either a Whole-Building Life-Cycle Assessment (LCA) or an EPD analysis must be conducted by the contractor. Furthermore, quantify potential GWP savings. Trolldtekt provides Environmental Product Declarations (EPDs) for the majority of the assortment of Trolldtekt panels and can therefore support documentation for purpose of Life Cycle Assessment (LCA) or an EPD analysis. For more information and to ensure the newest documentation for, please visit: Downloads	Recycling instructions Flexible design options Takeback service agreement

¹ LEED–Certification for Building Design and Construction (BD+C) - (LEED v.5).

LEED – Materials and resources (MR) ^(2/2)

Assessment criterion	Leed assessment intent	Trolldtekt's contribution	Resources / Documentation
MRC 3. Low-emitting materials	"To track and reduce embodied carbon of major structural, enclosure, and hardscape materials from construction processes on new construction and renovation projects" ¹.	Credits in MRC 3. can be achieved by meeting LEED requirements and ensuring that products comply with LEED standards, including minimum classification class of formaldehyde. Trolldtekt panels are third party tested by Eurofins with a focus on VOCs and formaldehyde; Trolldtekt is classified as formaldehyde class E1. The paint used for the acoustic panels is water-based with no added solvents. Additionally, Trolldtekt panels can be integrated with ventilation systems. For more information and to ensure the newest documentation for, please visit: Downloads	M1 classification Allergy Friendly Product-Certificate Danish Indoor Climate Labelling certificate Der Blaue Engel certificate Datasheets and VOC-content
MRC 4. Building product selection & procurement	"To encourage the use of products and materials that have sustainability information available and that have environmentally, economically, and socially preferable impacts in alignment with industry momentum. To reward project teams for selecting products from manufacturers who have disclosed sustainability information about their products and optimized their products across multiple criteria areas" ¹.	Credits in MRC 4. can be achieved if a product includes multiple eco-friendly attributes and building-materials that prioritize sustainability throughout their lifecycle. Credits are based upon three achievement levels, which varying requirements. Trolldtekt provides Environmental Product Declarations (EPDs) for the majority of the assortment of Trolldtekt panels and can therefore support documentation for purpose of Life Cycle Assessment (LCA) Moreover, Trolldtekt's solutions are sound-absorbing and help reduce reverberation time, thereby contributing positively to acoustic comfort. To support this, Trolldtekt offers an acoustic calculator that provides a quick overview of a room's acoustics, including calculations of absorption area, reverberation time, and other relevant acoustic parameters. Additionally, Trolldtekt panels can be integrated with ventilation systems. For more information and to ensure the newest documentation for, please visit: Downloads	Environmental product declaration (EPD) Cradle to Cradle Certification Ceilings (Sound absorption values) Walls (Sound absorption values) Calculator (Acoustics)
MRC 5. Construction and demolition waste diversion	"To reduce construction and demolition waste disposed of in landfills and incineration facilities and pollution to the environment. To reduce the environmental impacts and embodied carbon of manufacturing new materials and products. To delay the need for new landfill facilities that are often located in frontline communities. To create green jobs and materials markets for building construction services" ¹.	Trolldtekt acoustical panels are both biodegradable and recyclable providing that the product is grinded into small pieces. Trolldtekt are Cradle to Cradle- certified with focus on e.g., Material reutilization as well as Take-Back Service Agreements. Furthermore, the panels offer a high potential of reuse since they can be easily uninstalled (often installed using screws) and thereby sold and reused in another construction. The packaging consists of cardboard and/or foil wrap (plastic). Both waste groups can be recycled on the construction site, however, there is a tendency to recycle the cardboard and incinerate the foil wrap. Packages are delivered on wooden pallets that are returned to Trolldtekt and reused. For more information and to ensure the newest documentation for, please visit: Downloads	Recycling instructions Takeback service agreement

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LEED – Indoor environmental quality (EQ)

Assessment criterion	Leed assessment intent	Trolldtekt's contribution	Resources / Documentation
EQc 2. Occupant experience Option 4. Sound environment & Option 5. Lighting environment	"To move beyond neutral or sufficient spaces toward human-centered design that supports customization, enjoyment, and emotional connections between people and the building, thus increasing the likelihood of consistent satisfaction and ongoing stewardship" ¹.	LEED points for this category can be achieved through compliance of options mentioned in the requirements. Option 4 Trolldtekt's solutions are sound-absorbing and help reduce reverberation time, thereby contributing positively to acoustic comfort. To support this, Trolldtekt offers an acoustic calculator that provides a quick overview of a room's acoustics, including calculations of absorption area, reverberation time, and other relevant acoustic parameters. Option 5 The color of the ceiling affects the lighting requirements, as the ceiling's light reflectance influences the amount of light needed for the ceiling cladding. Trolldtekt acoustic panels easily integrate lighting solutions to maintain an even brightness distribution across the ceiling. For more information and to ensure the newest documentation for, please visit: Downloads	Ceilings (Sound absorption values) Walls (Sound absorption values) Calculator (Acoustics) Reflectance level of panels

DISCLAIMER

This documentation package is not a sustainability certification or a LEED certification of Trolldtekt's products, but a collection of documents and information that can be used to document the material in connection with a certification.

The primary responsibility for documentation lies with the contractor/client, but this document provides supplementary information that can help meet the assessment criteria.