

CEMBRIT

Cembrit Build & Indoor.  
Positive impact on  
your DGNB project.



# Choose Cembrit in your sustainable building

DGNB is a voluntary sustainability certification scheme adapted to the Danish building codes, providing a common framework for architects, builders and manufacturers when developing sustainable buildings.

The system includes all aspects of sustainability and offers the possibility to calculate the LCA and LCC of the total building at all building stages. It serves as a decision tool to optimise the building according to the requirements as well as altering the choice of material for the final certification.

Cembrit Facade products are evaluated on 5 of the DGNB qualities; process, environmental, economic, social and technical. The sustainability performance of a building is evaluated on specific criteria within each of these areas.

Cembrit facade products mainly contribute to the DGNB certification qualities; Environmental, Economic and Technical. Key to this contribution is the high transparency of the life cycle assessment as well as the long lifetime of Cembrit facade products.

The contribution to process quality is based on our product documentation to eliminate as many defects as possible and to make it easier to reuse or recycle. Our contribution to the social quality comes from our low-emitting Indoor building materials, which have a M1 classification, which sets limit values for the emission of VOC, formaldehyde and ammonia.

■ DGNB quality  
■ Cembrit's positive impact

## PROCENT



# Contribution to DGNB certification

## PROCESS QUALITY

Cembrit provides detailed guidance for design, handling and installation of products, to ensure a perfect installation and to minimize risk of installers leaving defects in the construction.

Cembrit provides full documentation of required building data and the composition of the materials, as well as on the environmental impact. Our products are tested on the quality of execution to the harmonised standards, datasheets and safety datasheets.

## ENVIRONMENTAL QUALITY

Cembrit build & indoor boards do not contain hazardous substance and are living up to the current REACH policies. All cement and mineral fillers are extracted locally and delivered directly to Cembrit factories, to minimise the transportation of raw materials. Most finished goods are transported by train or by sea to lower CO2 emission during transportation.

Wastewater treatment plan ensures water discharged to the public sewerage system contains no harmful particles or residues from production. Dust and wet cuts are recycled back into the production. The cellulose in Cembrit facade boards is FCS-certified wood fibres from either pine or spruce.

## ECONOMIC QUALITY

Cembrit build and indoor products are guaranteed to meet industry requirements for cost-effective construction as well as long-term durability. The long expected lifetime of our products not only ensure a robust product, it also affects the financial robustness of the building in the building's total Life Cycle Costs (LCC).

Our boards require none or very little maintenance, and there are no costs associated with operation and maintenance of the building. If a board must be removed e.g. because of damage, our facade boards can be removed in a non-destructive way simply by removing the mounting screws and install a new sheet.



Cembrit fibre cement products are designed to last for decades.



At Cembrit, we strive to utilise resources efficiently, reduce waste and emissions on the environment.



Cembrit build and indoor boards have an expected lifetime of 40-60 years.



Cembrit indoor boards are M1 classified according to emission of VOC, formaldehyde and ammonia.



Thanks to the fibre reinforcement, our build products are exceptionally thin with low weight.

### SOCIAL QUALITY

Cembrit build and indoor products are produced without hazardous substances and odour. Our indoor product Cembrit Multi Force is classified as a low-emitting building material.

By classifying our products, we contribute to an indoor air quality with no negative effect on users well-being and health, where the content of volatile and odorous substances can be kept to a minimum in the indoor air.

### TECHNICAL QUALITY

Cembrit build and indoor boards have an impact on the quality of the building's envelope. The environmental properties of our build and indoor boards are declared in a 3rd party validated and product specific Environmental Product Declaration, with LCA data used to screen or calculate the Life cycle of a DGNB certified building.

When using Cembrit build products, the building envelope is ventilated through an opening at the bottom of the products, which ensure that unobstructed ventilation is possible throughout the facade.

Cembrit build and indoor products require none or very little maintenance and are easy to clean. With easy-to-clean surfaces fewer cleaning materials are required, time spent on cleaning is minimised and thus, the cost of cleaning decreases. In addition, the environmental impacts are reduced when fewer cleaning agents are used.

The system can easily be disassembled and separated into parts e.g. metal, wood, fibre cement. It increases the possibility of re-using our products in a similar function or high-value recycling when installed correctly and in compliance with Cembrit installation manuals and guidance.

Cembrit build and indoor products provide at high sound insulation performance and gives a good room acoustics and soundproofing between rooms. For specific data, you can explore our datasheets online.

To live up to the increasing requirements in fire protection, Cembrit continuously develops and tests solutions for improved fire protection performance. Our products are classified as non-combustible. A number of these products are also fire protection classified with a rating K110, K210 and K230.



A little village, Årslev, Funen, Denmark  
DGNB Gold



Construction year: 2018  
Cembrit product:  
Cembrit Windstopper Extreme

'A little green village' is the name of 40 sustainable public housing units finalised in 2018 in Årslev, Funen, certified as DGNB Gold

To live up to the high standards and the focus on quality and sustainable materials, Cembrit has delivered Cembrit Windstopper Extreme, to the partially open facade, securing the construction for weather conditions.

Vital for the project has been materials thoroughly tested for their quality solutions, which minimise the ongoing operation costs without compromising the architecture.



# Cembrit build and indoor products

## - criteria impact



PROCESS

**PRO 2.2 (1.7%)**

Documentation of the quality of execution



ENVIRONMENTAL

**ENV 1.1 (7.9%)**

Life cycle assessment (LCA)  
- environmental impacts

**ENV 1.2 (3.4%)**

Environmental risks related to  
construction products

**ENV 1.3 (1.1%)**

Sustainable resource extraction

**ENV 2.1 (5.6%)**

Life cycle assessment (LCA)  
- primary energy



ECONOMIC

**ECO 1.1 (9.6%)**

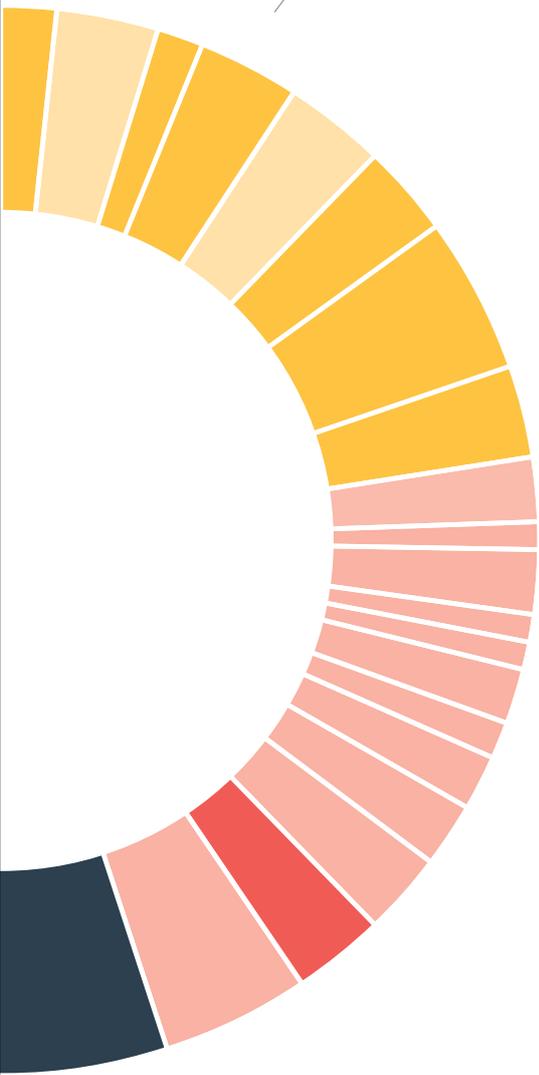
Life cycle cost

**ECO 2.2 (6.4%)**

Robustness



DGNB is a method that puts sustainability on formula and assesses a building's overall score, where project specific characteristics are evaluated. Cembrit build and indoor products positively impact on the highlighted criteria according to the Office Buildings manual, 2016.



**TEC 1.1 (3.0%)**

Fire safety and security

**TEC 1.2 (4.5%)**

Acoustics and sound insulation

**TEC 1.3 (3.0%)**

Quality of the building envelope

**TEC 1.5 (3.0%)**

Ease of cleaning and maintaining building components

**TEC 1.6 (1.5%)**

Ease of recovery and recycling

**TEC 1.8 (1.5%)**

Environmental Product Declarations (EPD)



TECHNICAL

**SOC 1.2 (2.7%)**

Indoor air quality



SOCIAL

## Positive Impact.

Cembrit build and indoor products will positively impact up to 54,9 percent of the overall criteria score in a DGNB project. The contribution of our products is individually calculated by the DGNB Consultant for the specific project.

# CEMBRIT

[www.cembrit.com](http://www.cembrit.com)

Please visit the local website for contact details and further information.

Cembrit is one of the leading European manufacturers of multi-capability fibre-cement building products. Our products and solutions add exciting new design opportunities for moulding attractive, durable settings for people's lives. But Cembrit is more than mere products. We also help make all kinds of design and construction projects easier - as well as more profitable, inspiring and effective. For us, all construction also involves building relations with people, making your day better, and helping you make the day better for others. Making it a day to remember.