

**SWISSPEARL**

# Positive impact on your BREEAM NOR project



# Choose Swispearl for your sustainable building

**BREEAM NOR is a voluntary Sustainability Certification rating scheme for the built environment based on a holistic assessment. It is developed in the UK and adapted to the Norwegian building code as BREEAM NOR. The scheme provides Sustainable Built Environment framework that helps clients manage and mitigate risk through demonstrating sustainability performance during all building phases.**

Swispearl facade\* products are evaluated in 10 categories; Management, Health and Wellbeing, Energy, Transport, Water, Materials, Waste, Land use and Ecology, Pollution and Innovation. The sustainability performance of a building is evaluated on specific criteria within each of these categories.

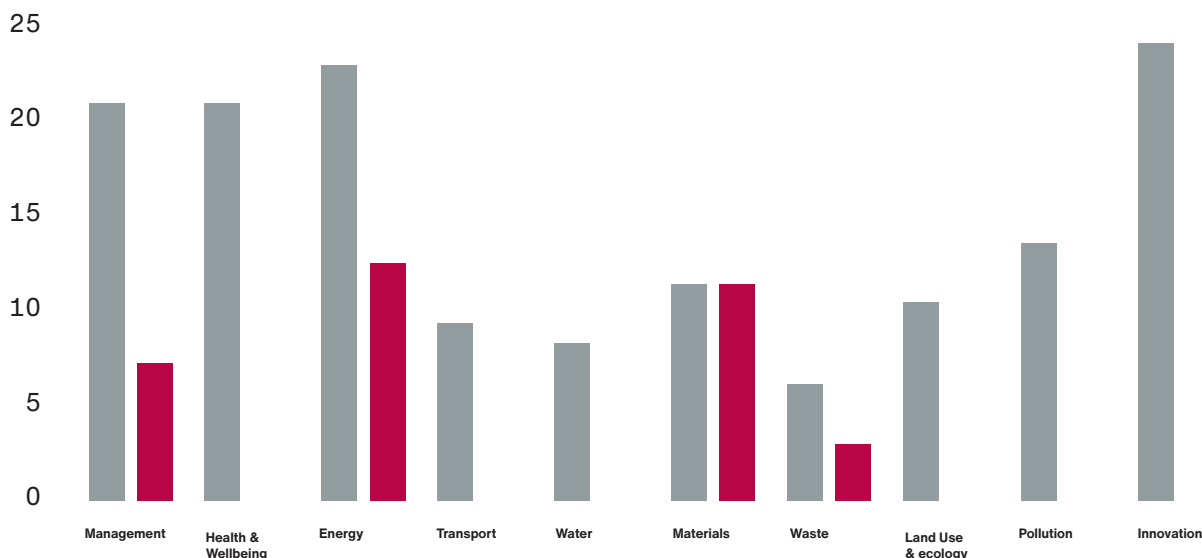
Calculation of LCA and LCC at all building stages serves as a decision tool to optimise the building according to the requirements as well as altering the choice of material for the final certification.

Swispearl facade\* products contribute to the BREEAM NOR certification in the Management, Energy, Materials and Waste categories. Our contribution in these categories is the high transparency on the life cycle assessment (LCA) as well as the long lifetime and low maintenance of Swispearl facade\* products which lowers the operational energy and costs in the building's lifetime.

Swispearl facade\* boards are designed for robustness. The raw material composition makes the fibre cement board an exceptionally strong and weather resistant building material.

BREEAM categories  
 Swispearl's positive impact

## Credits



# Contribution to BREEAM NOR

## **Management**

Swisspearl facade\* products contribute to reduced life cycle cost and thereby supporting economically sustainable design. The durability, robustness and long product lifetime helps building owners achieve low Total Life Cycle Costs (LCC) throughout the building's lifetime with no aftercare.

Our products encourage sustainable management with products which are strong and unaffected from day-to-day influence as well as highly resistant to most external conditions and impact. Swisspearl facade\* products are simply designed to withstand extreme weather conditions and last for decades.

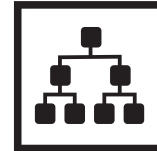
All our facade\* boards have a 3<sup>rd</sup> party verified Environmental Product Declarations (EPD), documentation and detailed guidance on our facade\* boards.

## **Energy**

Swisspearl facade\* products are maintenance-free and the low weight facade enables an energy efficient design. Our facade\* products are mounted on a ventilated facade structure with a ventilation gap at the bottom of the facade. This ensures that ventilation is possible throughout the facade, minimising temperature fluctuations in the outer wall. Sunlight and heat is ventilated away from the facade, and the natural ventilation behind the facade\* products minimises the risk of condensation.

These properties contribute to lowering energy consumption and environmental impacts while at the same time reducing costs for energy as well as operating costs in the building's lifetime.

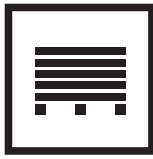
\*) Facade covers the Swisspearl products Patina Original, Patina Rough, Patina Inline, Deco, Cover, Solid and Transparent.



**Swisspearl facade\* boards contribute to embedding sustainability actions in the management and design stages.**



**Swisspearl production facilities continuously improve processes to lower energy consumptions.**



**Swisspearl strives to minimise transportation of raw materials and to lower CO<sub>2</sub> emissions from transport where possible.**



**Swisspearl facade\* boards have a low risk to the local environment during the product lifetime.**

## **Materials**

At Swisspearl, we constantly focus on reducing emission related impacts on the environment to keep consumption of non-renewable resources to a minimum across all stages of the building, life cycle. We can deliver data for the lifecycle assessment of a building through our 3<sup>rd</sup> party verified Environmental Product Declaration.

Swisspearl strives to be a socially responsible company in relation to effects on nature and on local and global communities from business activities. Swisspearl does not use forced labour nor do we make use of child labour in any of our operations. Our Code of Conduct outlines a set of principles and minimum standards regarding ethical behavior and social responsibility.

We report our environmental impact from extraction, operations and activities associated with our product and the product supply chain. All cement and mineral fillers are extracted locally and delivered directly to Swisspearl factories. The procured cellulose in Swisspearl facade\* products have certified chain of custody, e.g. FSC or PEFC Certification.

Swisspearl facade\* boards have an expected lifetime of 40-60 years. The robustness of the boards combined with a weather resistant surface contributes to lower the life cycle cost of the building envelope. If a board must be replaced, e.g. because of damage, Swisspearl facade\* boards can be removed in a non-destructive way simply by removing the mounting screws and installing a new board.

Load-bearing structures and performance of individual materials have a significant impact on the fire safety of a building. Swisspearl facade\* products are non-combustible with a reaction to fire class A2-s1, d0.

## **Waste**

Swisspearl facade\* boards do not contain hazardous substance. Leaching tests are performed to confirm the low risk our facade\* boards pose to the local environment as well as living up to the current REACH policies.

Ventilated facade system can easily be disassembled from the substructure and separated into parts, e.g. metal, wood and fibre cement. This makes it possible to reuse the products in a similar function when installed correctly and in compliance with Swisspearl installation manuals and guidance.



Photo; Byggeindustrien v/Jørn Hindklev

## BREEAM® NOR

**Office building, Ringvegen 16, Gjørvik, Norway**  
**BREEAM rating: Very Good**

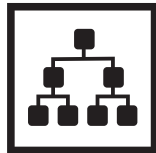
**Construction year: 2019**  
**Swisspearl product: Swisspearl Original**

BREEAM NOR certified office building rated VERY GOOD, located in Gjørvik, Norway. Swisspearl delivered white Patina Original boards which live up to the high standards of durability and quality of the rainscreen. In addition to the BREEAM NOR scheme, the office building also meets the demands and methods applied in passive houses.

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# Swisspearl facade\* products – criteria impact



MANAGEMENT

**MAN 0.2 (4 Credits)**

Life cycle cost and service life planning

**MAN 0.5 (3 Credits)**

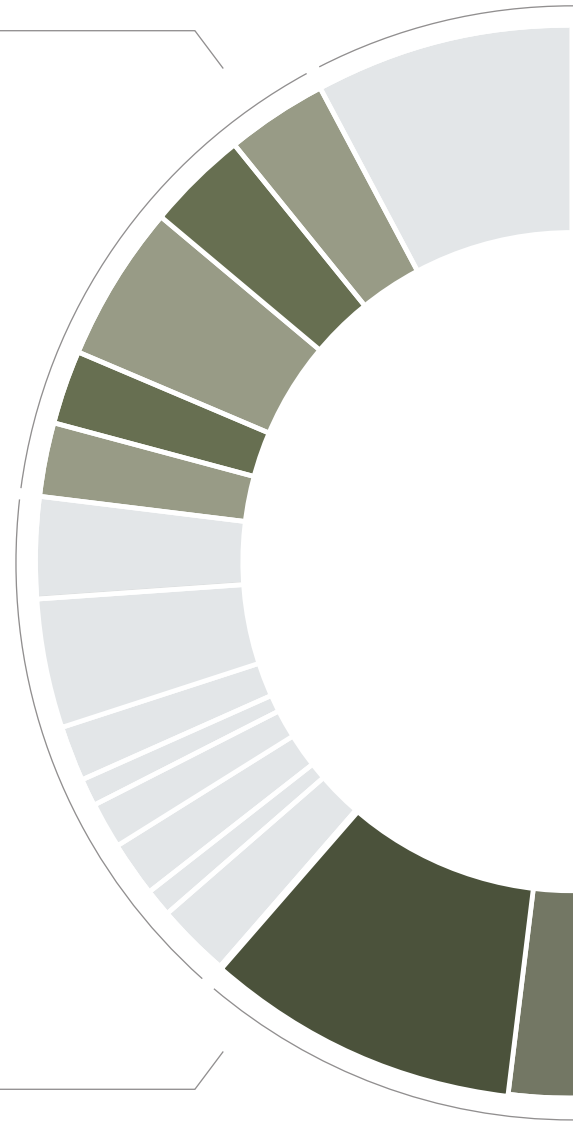
Aftercare



ENERGY

**ENE 0.1 (12 Credits)**

Energy efficiency



BREEAM NOR scheme provides independent 3<sup>rd</sup> party verified assessment of the sustainability performance of a new individual and the surrounding environment. The system also focuses on improving the economic and social impact of the building during its lifetime in a costeffective manner.

Swisspearl facade\* boards positively impact the highlighted criteria according to the BREEAM NOR manual for new construction, version 2016.



**WST 0.1 (3 Credits)**  
Construction waste management



**WASTE**

**MAT 0.1 (7 Credits)**  
Life cycle impacts

**MAT 0.3 (3 Credits)**  
Responsible sourcing of materials

**MAT 0.5 (1 Credits)**  
Designing for durability



**MATERIALS**

## Positive Impact.

Swisspearl facade\* boards positively impact up to 33 credit of the overall category score in a BREEAM NOR project for new constructions. The contribution of our product is individually calculated by the BREEAM NOR assessor for the specific project.



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