

**SWISSPEARL**

# Positive impact on your international LEED project



# Choose Swisspearl in your sustainable building

**LEED is a voluntary American sustainability certification scheme for buildings. It is comprehensive, flexible and applicable to buildings at any stage in their life cycles.**

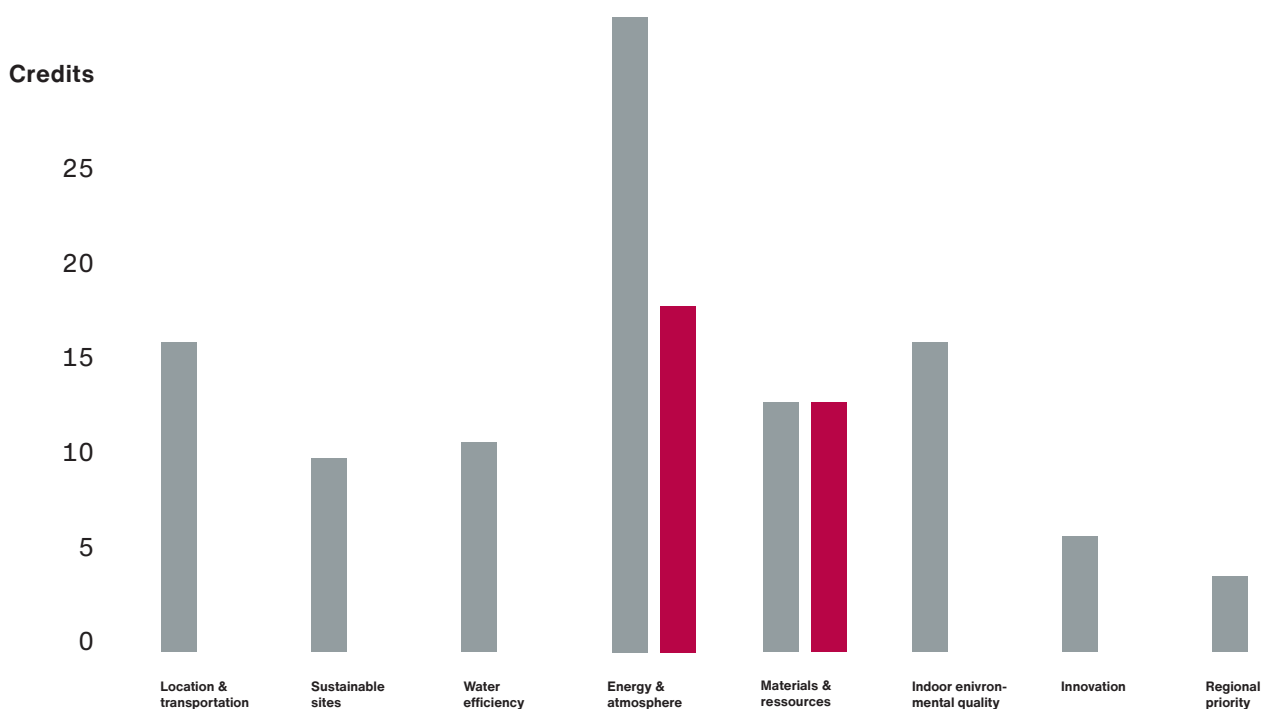
Swisspearl facade\* products are evaluated in 8 categories; Location and Transportation, Sustainable Sites, Water Efficiency, Energy and Resources, Indoor Environmental Quality, Innovation and Regional Priority.

Construction products contribute to some of the categories, were as all categories are considered when looking at the overall building. Some criteria require product as well as project specific data.

Swisspearl facade\* products contribute to the LEED International certification in the categories; Energy and Atmosphere and Materials and Resources.

Swisspearl's contribution to these categories is based on our internal requirements to lower energy and water use, as well as recycling production waste and wastewater. Swisspearl facade\* boards are designed for robustness and have high product lifetime. Our raw material composition gives an exceptionally strong and weather resistant building material.

■ LEED categories  
■ Swisspearl's positive impact



# Contribution to LEED certification

## Energy & atmosphere

Our facade\* products are part of a ventilated structure. The ventilation gap at the bottom of the construction, 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. Our products are strong and unaffected from day-to-day impacts as well as highly resistant to most external conditions and impacts. Swisspearl facade\* products are simply designed to withstand extreme weather conditions and last for decades.

## Materials & resources

The robustness of the boards combined with a weather resistant surface contributes to lowering 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.

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's life cycle. We can deliver data for the lifecycle assessment of a building through our 3<sup>rd</sup> party verified Environmental Product Declaration. 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.

Swisspearl strive to be a socially responsible company in relation to effects on nature and on local and global communities from business activities. Swisspearl do not use forced labour nor do we make use of child labour in any of our operations.

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



**Swisspearl facade products are maintenance-free, and the thin facade enables an energy efficient design.**



**Swisspearl facade\* boards have a life time of 40-60 years, contributing to a low Total Life Cycle Cost (LCC).**

We report our environmental impact from extraction, operations and activities associated with our product and the product supply chain. Our Code of Conduct outlines a set of principles and minimum standards regarding ethical behaviour and social responsibility.

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.

Our products do not contain hazardous nor substances listed in the 'Candidate List of Substances of Very High Concern for Authorisation'. In addition to this, Swisspearl has performed leaching tests to confirm the low risk which our facade\* boards pose to the local environment during their lifetime as well as living up to the current REACH policies.

Swisspearl facade\* products are non-combustible with a reaction to fire class A2-s1, d0.

Swisspearl facade\* products can easily be removed, separated from other materials, sorted, recycled or even reused with the highest possible quality of reuse and recycling – and thereby avoid sending the products to landfill.



**Siemens Headquarter, Kv Dalen, Finspång, Sverige**  
**LEED rating: Gold**



**Construction year: 2012**  
**Swisspearl product: Patina Original & Solid**

The sustainable office of the future, Siemens' new office 'Dalen' in Finspång is built with a focus on sustainability and flexibility, certified as LEED Gold.

Swisspearl delivered Patina Original and Solid boards in three different colours, cut into long tiles. Creating a shift in the length of the building, gives a modern and high-tech design.

The concept has been to create a building with a focus not only on functionality, cost efficiency, quality and flexibility but also sustainability.

# Swisspearl facade\* products

## – criteria impact



**ENERGY &  
ATMOSPHERE**

**EA 2 (18 Credits)**  
Optimize Energy Performance



**MATERIALS &  
RESOURCES**

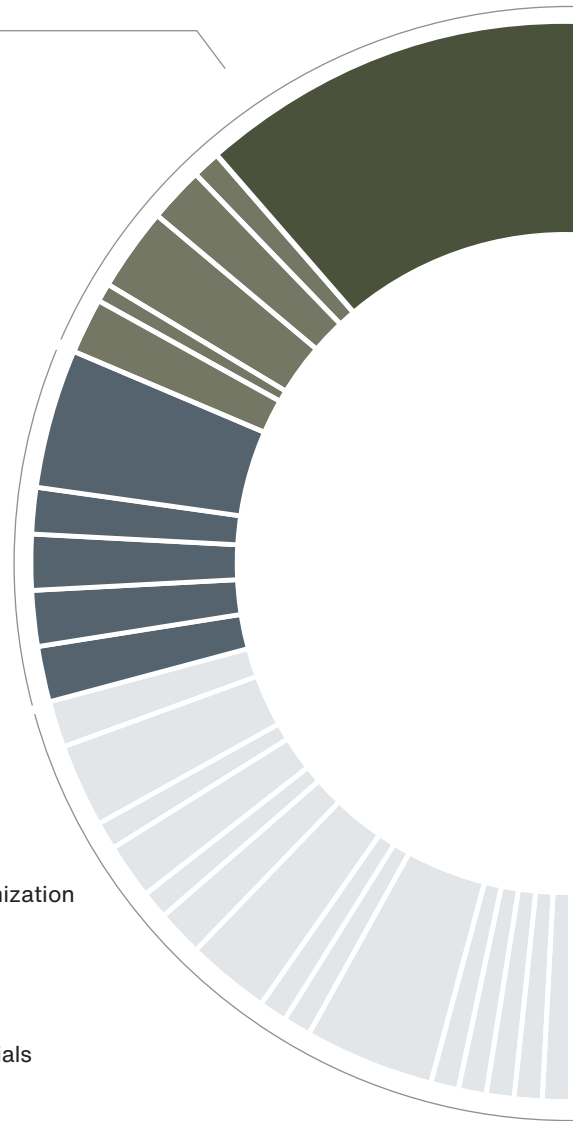
**MR 1 (5 Credits)**  
Building Life-Cycle Impact Reduction

**MR 2 (2 Credits)**  
Building Product Disclosure and Optimization  
– Environmental Product Declarations

**MR 3 (2 Credits)**  
Building Product Disclosure and  
Optimization – Sourcing of Raw Materials

**MR 4 (2 Credits)**  
Building Product Disclosure and  
Optimization – Material Ingredients

**MR 5 (2 Credits)**  
Construction and Demolition  
Waste Management





LEED International for building design and construction scheme provides a 3<sup>rd</sup> party green building certification assessment, flexible and applicable to buildings at any stage in their life-cycle. New construction, the ongoing operations and maintenance of an existing building and a significant tenant retrofit to a commercial building are all addressed by LEED rating systems.

Swisspearl facade\* boards positively impact the highlighted criteria according to the LEED International manual for building design and construction, 2013.

Credits in LEED are optional strategies or elements that projects can pursue to gain points towards LEED certification. Each credit is based on environmental impacts and human benefits of the building-related impacts that is addressed.

## Positive Impact.

Swisspearl facade\* products will positively impact up to 31 credits of the overall score in a LEED International project. Credits available for a LEED International project are assessed individually for each project.



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