

Renovation with Swisspearl

**SWISS
pearl®**

Long-lasting | Energy-efficient | Quick installation



Competence, excellence and innovation

Long term experience

For more than 50 years, Swisspearl's Research & Development teams have continuously expanded their unique expertise regarding fiber cement material technology, coloration and application of the whole facade systems. These significant technology advances are the backbone of Swiss quality. Swisspearl is the only manufacturer who masters the highly demanding production process for integrally colored, shade in shade fiber cement panels offered in such a wide color variety.

Unique with long time proven quality

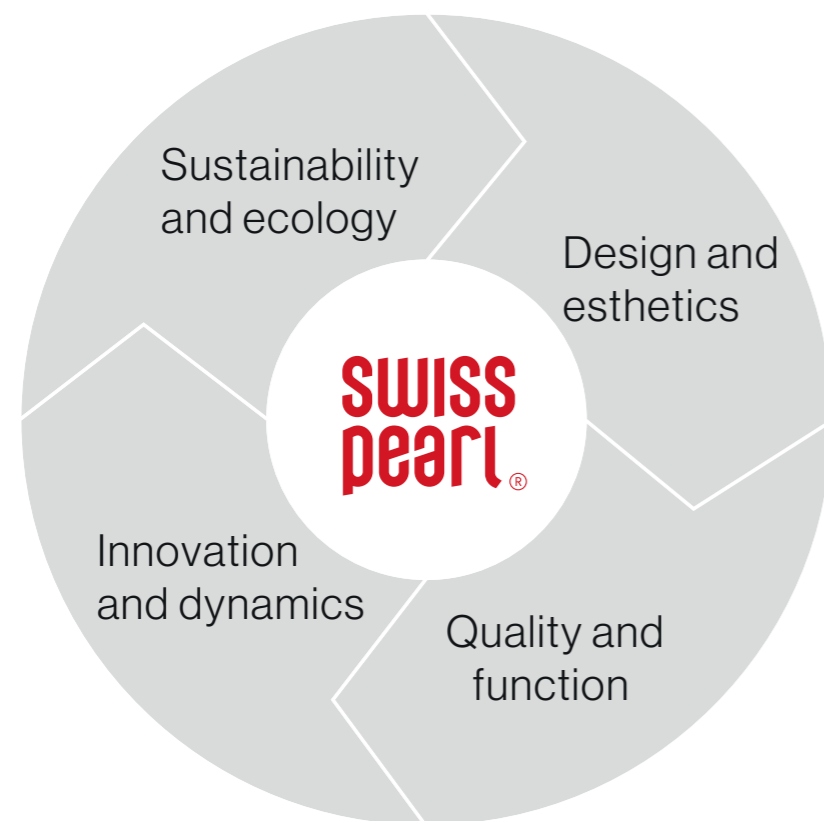
Swisspearl fiber cement panels are manufactured with low energy and high environmental consciousness. Thus, the products are 100% environmentally friendly. Additionally, they are mainly made of local mineral raw materials. The proprietary processes pioneered by Swisspearl with special surface finishes, sealed edges and back coatings ensures optimal behavior and durability of the panels. This has been a proven process since the late 1950's. Furthermore, Swiss construction authorities testify to over 40 years as standard life expectancy. Millions of panels installed throughout the world prove the outstanding, reliable, long-term quality of the fiber cement panels and coatings.



4 Why renovate with Swisspearl?

A decision for sustainability and consistency.

Renovating with Swisspearl is sustainable. The success factor is long-lasting quality that convinces - because when it comes to lasting functionality, reliable safety and a wide range of design options, the innovative products from Swisspearl are unbeatable. Make your property "fit" for the future and decide in favor of Swisspearl facade products for an upcoming renovation.



Sustainability and ecology

- 95% natural raw materials, mainly from the Swiss mountains
- Low energy requirement in the production of fiber cement compared to other claddings
- High economic efficiency over the entire service life
- Durable energy saver, thanks to reliable weather protection of the construction
- Unrivaled long-term durability without maintenance, no repainting required
- Market leader in facade system applications for facades
- Lightweight panels 15kg/m² (3.07lbs/ft²) add minimal weight on the structural wall
- Can be directly installed directly to the current brick, concrete, or existing wall

Design and esthetics

- Large design scope for customized ideas (preserving character or completely modernized)
- A variety of formats, shapes and colors
- Independent, unmistakable fiber cement look that is second to none

Innovation and dynamics

- Innovative products that provide unique added value in the field of renovation
- One contact for the renovation of an entire building envelope
- Not only do we offer products, but also customized solutions with first-class, expert service

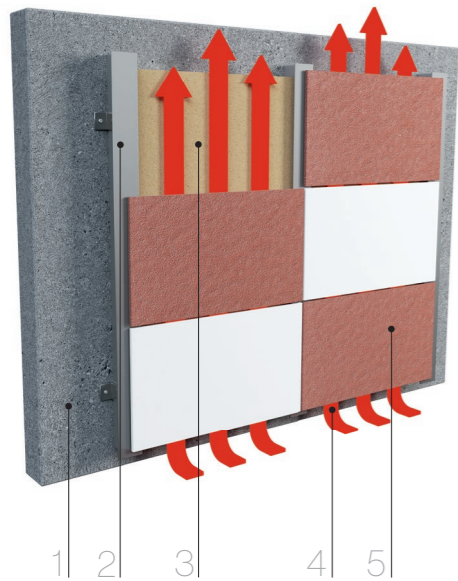
Quality and function

- Non-combustible cladding
- Ideally suited for renovation, thanks to simple assembly on the existing construction
- Reliable construction progress, thanks to installation, regardless of season
- Comfortable living climate, thanks to optimum system in terms of building physics
- Over one hundred years of experience and competence in the renovation of buildings

6 Maximum longevity to exterior cladding

The five main components

The typical rainscreen system is based on natural rear ventilation. It is most reliable, sustainable and provides maximum longevity to exterior cladding. Ventilated facade systems consist of five main components:



- 1 Current support structure
- 2 Sub frame
- 3 Thermal insulation layer
- 4 Ventilated cavity
- 5 Swisspearl Cladding

1 Support structure

The exterior wall of a building is mainly made of concrete, CMU blocks, brickwork, steel or timber frame with studs and planked by gypsum boards.

2 Sub frame

Swisspearl facade panels are installed on timber or metal supports.

3 Thermal insulation layer

The advantage of an exterior thermal insulation is to keep the entire building structure at a constant temperature and to minimize thermal bridges and thus reduce the loss of energy to a minimum. Economical as well as ecological advantages result.

4 Ventilated cavity

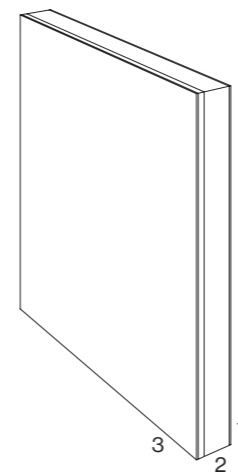
The main task of the air cavity is the evacuation of moisture and excess heat. Thanks to the pressure difference between bottom and top, the air circulation occurs naturally.

5 Swisspearl Cladding

The outer skin of the building envelope has two main functions; to be aesthetically pleasing as well as protecting against influences from climate and environment.

Sophisticated facade design

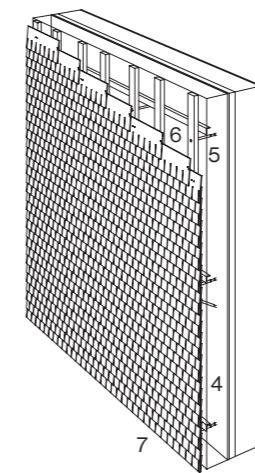
Examples



Old

- 1 Interior plaster
- 2 Brick wall 175 mm
- 3 Exterior insulation 20 mm, plastered or partially damaged

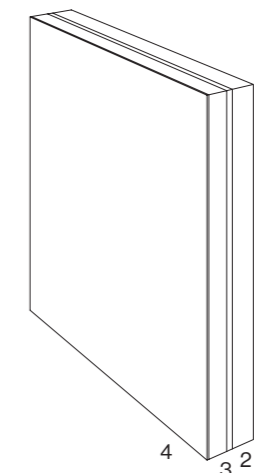
U-value approx. 0.98



New

- 4 Thermal insulation 160 mm
- 5 Substructure spacer anchor screw
- 6 Rear ventilation space
- 7 «Swisspearl» facade slate

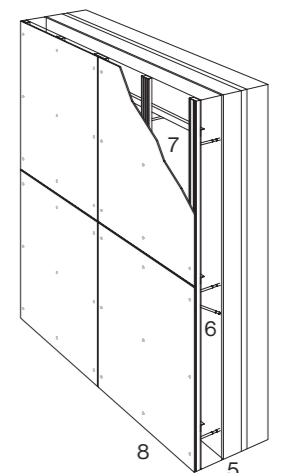
U-value approx. 0.16



Old

- 1 Interior plaster
- 2 Brick double skin 150 mm+125 mm
- 3 Mineral wool insulation 40 mm
- 4 Exterior plaster

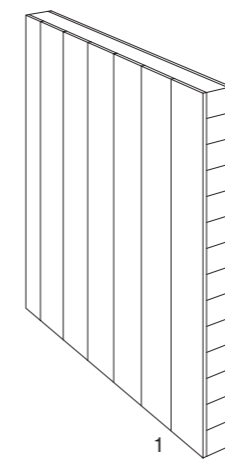
U-value approx. 0.62



New

- 5 Thermal insulation 140 mm
- 6 Substructure spacer anchor screw
- 7 Rear ventilation space
- 8 Largo large format

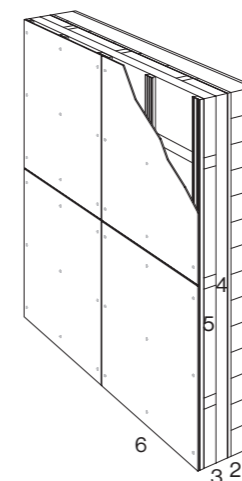
U-value approx. 0.16



Old

- 1 Solid wood construction

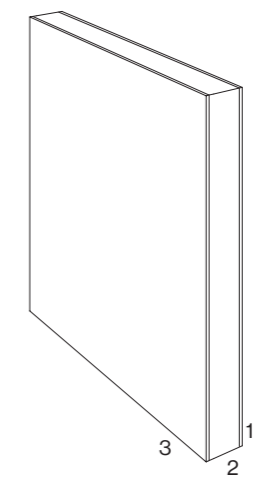
U-value approx. 0.68



New

- 2 Air seal
- 3 Mineral wool insulation, two-ply, total 160 mm
- 4 Wood substructure
- 5 Rear ventilation space
- 6 Largo large format

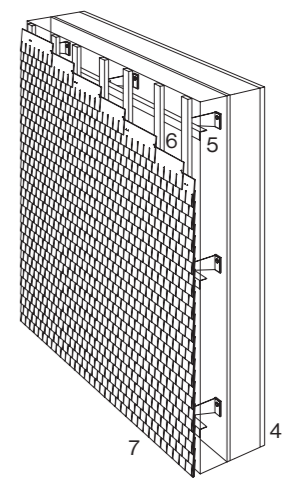
U-value approx. 0.19



Old

- 1 Interior plaster
- 2 Brick 150 mm
- 3 Exterior plaster

U-value approx. 1.88



New

- 4 Mineral wool insulation 200 mm
- 5 Wood/metal substructure
- 6 Rear ventilation space
- 7 «Swisspearl» facade slate

U-value approx. 0.20

8 Les Hautains

Saint -Genis Pouilly, France

PRODUCT

Swisspearl Largo Nobilis N211 / N112

RENOVATION PERIOD

2016 - 2018

ARCHITECT

Delta Architects, France

PHOTO

Juerg Zimmerman, Switzerland

CATEGORY

Residential building



Before



After

10 Gratosoglio Housing Development

Milan, Italy

PRODUCT

Swisspearl Largo Carat and Nobilis, various standard and custom colours (overlapped)

RENOVATION PERIOD

2004 - 2009

ARCHITECT

Aler Milan client's internal architect, Italy

PHOTO

Stefano Topuntoli, Studio Fotografico Topuntoli, Italy

CATEGORY

Residential building



Before



After

City Hall of Sala

Sala, Slovakia

PRODUCT

Swisspearl Largo Carat Sahara 7002 (HR)

RENOVATION PERIOD

2017 - 2018

ARCHITECT

VISIA, s.r.o., Sala, Slovakia

CATEGORY

Residential building



Before



After

14 Residential building

Unterkaernten, Austria

PRODUCT
Swisspearl Largo Carat Titan 7060

RENOVATION PERIOD
2011

ARCHITECT
DI Werner Thurner, Austria

PHOTO
DI Werner Thurner, Austria

CATEGORY
Residential building



Before



After

16 Office building

Austria

PRODUCT
Swisspearl Largo Carat Titan 7060

RENOVATION PERIOD
2010

ARCHITECT
Rudolf Berger, Austria

PHOTO
Rudolf Berger, Austria

CATEGORY
Office building



Before



After

18 Residential building

Austria

PRODUCT

Swisspearl Largo Carat Black Opal 7021

RENOVATION PERIOD

2011

ARCHITECT

DI Stefan Thalmann, Austria

PHOTO

DI Stefan Thalmann, Austria

CATEGORY

Residential building



Before



After

20 Residential building

Germany

PRODUCT

Swisspearl Largo Carat special color

RENOVATION PERIOD

2020

ARCHITECT

Ackermann & Raff GmbH & Co, Germany

PHOTO

Swisspearl

CATEGORY

Residential building



Before



After

22 Residential building

Austria

PRODUCT

Swisspearl Largo Carat Black Opal 7021

RENOVATION PERIOD

2013

ARCHITECT

Dreier und Korntheuer, Buesserach, Switzerland

PHOTO

Juerg Zimmermann, Switzerland

CATEGORY

Residential building



Before



After

24 Cost efficiency

Savings up to 30% over typical facade

A Swisspearl facade is a cost-efficient and extremely economical building envelope which retains its value very well; thanks to its excellent characteristics, such as easy assembly in all weather conditions, long-life, functional reliability and being mostly maintenance-free.

Swisspearl ventilated facades have proven in severe climates to be very energy efficient and cost effective over the long term. They also ensure a longer life expectancy for the building structure and the building envelope with low-cost maintenance.



Energy efficiency

Swisspearl facades are ideally suited for energy efficient construction concept. Sophisticated construction with long-lasting weather protection offers distinct, long-lasting energy efficiency.



Durability and maintenance

Rear ventilated claddings are virtually maintenance free. Costs for repainting, recaulking and repairing regularly is therefore eliminated. The longevity of Swisspearl cladding panels makes the economic advantage of the product obvious.



Sustainable and efficient

Outstanding features such as durability, functional reliability, maintenance free upkeep, and simple installation make Swisspearl facades an especially cost-effective, efficient, and high value building envelope starting from day one. The sustainability of Swisspearl products is proven by EPDs (Environmental Product Declarations).

25 One system

Many advantages

Rear ventilated cladding, often referred to as rainscreen cladding, in combination with the use of a thermal insulation on the outside of the exterior wall, generate numerous advantages as follows:



Long-lasting reliability

Unrivaled everlasting Swisspearl slates offer optimal protection of the facade construction against all manner of weather or outside influences, thus guaranteeing a long-lasting, reliable building envelope for decades.



Flawless

The exterior of every facade is subject to extreme temperature fluctuations. The Swisspearl facade system allows for unhampered dilation of the exterior mounted siding. Therefore, you don't have to worry about extensive repair work to fix cracks in the plaster or flaking due to frost on the exterior.



Fireproof

Swisspearl panels are composed of mineral and thus non combustible according to ASTM E-136. They have outstanding fire protection properties. A feature that offers the necessary safety even for especially compact structures. Fire classification according to NFPA 285 EN 13 501-1 & A2-s1, d0.



Architecturally inspiring

Swisspearl uniquely combines functionality with a strong aesthetic power of expression. Its unique material features, combined with the variety of forms and colors opens up virtually boundless realms of possibility for the design of first-class facades.



Moisture protection

No condensation and mildew on the walls. The back ventilation space allows diffused water vapor inside the building to escape to the outside in a controlled manner.



Ecological from A to Z

Minimal energy required for production and its long service life make Swisspearl panels the embodiment of sustainability in construction, even in comparison to wood. The layers of the Swisspearl facade system are also separable, making it easy to dismantle.



Optimized comfort

The special structural-physical properties of the Swisspearl facade system maintain an ideal, healthy environment in the building all year round. While the insulation placed throughout keeps the cold out of the living space, natural air circulation in the back ventilation space prevents heat transfer to the interior in the summer and keeps the living space pleasantly cool.

26 Environmental management

Ecology and sustainability

We design our production processes so that energy usage and hazardous material production is kept as low as possible. Even in the composition of our products, we rely on natural raw materials that originate predominantly from the local region. Doing this also avoids unnecessary transportation.

With its extended durability, our products improve both the ecological as well as economic balance of every building shell. Fiber cement can be disposed as construction waste or simply recycled. Even waste resulting from production is recycled to a large extent. Excess water from the production process is also biologically purified.

Thanks to the ongoing modernization of our production facilities, roughly 2,500 tons fewer raw materials are consumed each year in comparison to a few years ago. We were also able to reduce CO₂ emissions by 2,100 tons per year.



Sustainability of the Swisspearl products

Environmental Product Declarations (EPDs) form the data basis for ecological evaluation of buildings in accordance with DIN EN 15987 on the Sustainability of Building Construction and are important for the evaluation of the quality of buildings in relation to the environment and health. The declarations provide information about the use of energy and resources as well as the emission of hazardous materials in the production process and thereby delivers insight into the environmental consciousness of a company in the manufacture of their products.

The sustainability of Swisspearl products, can be clearly proven by the EPD's.

LEED certification

Rear ventilated claddings are virtually maintenance free. Costs for repainting, LEED (Leadership in Energy and Environmental Design) is the most widely used green building rating system in the world. Available for virtually all building project types, from new construction to interior fit-outs, operation & maintenance, LEED provides a framework that project teams can apply to create healthy, highly efficient, and cost-saving green buildings. LEED certification is a globally recognized symbol of sustainability achievement.



Environmental management

Ecology and sustainability

Find some LEED certified Swisspearl projects below.



Laboratories Office Building Hubben, Uppsala, Sweden



Square 50., Washington, DC 20037, USA

Product range

Color overview

Swisspearl offers a great number of different colors and surfaces to meet many design envisions. The complete current range is shown here.

Carat

-  Sahara 7000
-  Sahara 7001
-  Sahara 7002
-  Crystal 7010
-  Black Opal 7020
-  Black Opal 7021
-  Black Opal 7024
-  Black Opal 7025
-  Coral 7030
-  Coral 7031
-  Coral 7032
-  Azurite 7040
-  Azurite 7041
-  Jade 7050
-  Sapphire 7060
-  Sapphire 7061
-  Topaz 7070
-  Topaz 7071
-  Topaz 7073
-  Amber 7080
-  Amber 7082
-  Onyx 7090
-  Onyx 7091
-  Onyx 7099
-  Agate 7219




Gravial

-  Crystal 125
-  Granite 624
-  Amber 723
-  Anthracite 3020
-  Ivory 3090
-  Ivory 3099

Vintago

-  VI 001
-  VI 011
-  VI 021
-  VI 031
-  VI 041
-  VI 051
-  VI 061
-  VI 071
-  VI 091
-  VI 100

Vintago-Reflex

-  VIR 9000
-  VIR 9221
-  VIR 9290

Incora

-  IN 090
-  IN 100


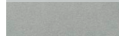
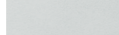
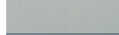
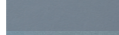






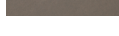
Avera

-  AV 000
-  AV 010
-  AV 020
-  AV 030
-  AV 040
-  AV 050
-  AV 060
-  AV 070
-  AV 100

Reflex

-  Silver 9000
-  Platinum 9020
-  Black Velvet 9221
-  Dark Silver 9222
-  Crimson 9231
-  Cobalt Blue 9241
-  Autumn Leaves 9270
-  Mystic Brown 9271
-  Gold 9272
-  Champagne 9290
-  Satin White 9291









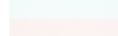
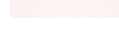
Nobilis

-  Crystal 122
-  Crystal 123
-  Crystal 124
-  Crystal 125
-  Azurite 421
-  Azurite 422
-  Jade 521
-  Jade 522
-  Granite 622
-  Granite 624
-  Amber 721
-  Amber 723

Terra

-  Amber 751
-  Amber 752
-  Amber 753
-  Amber 754
-  Amber 755
-  Amber 756

Planea

-  Coral 331
-  Dragon 332
-  Crimson 333
-  Ruby 334
-  Cactus 531
-  Jungle 532
-  Sunrise 831
-  Sunset 832
-  Igloo 932
-  Seashell 933

There for you

Contact us

Swisspearl's comprehensive offering of services and advice allows to respond to the different needs of builders, facade builders, roofers, architects and planners in order to jointly develop informed solutions. Sharing knowledge plays a key role here. That is also why we have partnered up with exclusive Distributors to serve the market better.

Furthermore, Swisspearl supports its customers with comprehensive specialist advice, detailed documentation, technical manuals and its customer magazine, which has become a renowned publication for planners and architects.

Please do not hesitate to contact us. One of our dedicated and knowledgeable staff will be happy to provide you with help and advice.



The internationally distributed Swisspearl Architecture magazine sets Swisspearl fiber cement products within a contemporary architectural context.



Subscribe to our **Swisspearl Architecture** magazine.

