Panels coated on both sides

Any panel may be finished on both sides, either in the same or in a different colour, with the same or a different type of coating. Typical applications are possible for balconies: maximum thickness: 12 mm, different type of coating. Typical applications are

- Any panel may be finished on both sides, either in the same or in a different colour, with the same or a different type of coating. Typical applications are possible for balconies: maximum thickness: 12 mm, different type of coating.

Embossed surfaces

They replicate the aspect of wood, revisiting a nature-like side.

Textured surfaces

3 standard patterns thanks to the advanced embossing technology as well as the sandblasted surface treatment complementing designing possibilities with coloured through panels.

Limitations in design

- Wood and natural slate. They reproduce the aspect of wood, refining natural slate.
- Embossed surfaces thanks to the embossing process, giving each surface a unique, slightly rough characteristic.
- Sandblasted surfaces. Thanks to this enhancing process, the creative possibilities are unlimited. Ornament may be within the surface.

3-D ornaments

Geometric designs, custom pat-

terns at random, company logo, etc., the creative possibilities are endless. Customisable treatment such as sides, windbreaker panels, sliding shutters, louvers, etc., the creative possibilities are unlimited. Ornament may be within the surface.

- The façade system SIGMA 8 offers a wide scope for individual expression.
- The Swiss Collection: service range

- The Swiss Collection is provided for high-end projects coached by the local authorised SWISSPEARL Distributor. Our dedicated partners committed to our high standards of service and the professional support of the designers and our quality concept until the façade is installed.
- Together with the Swiss technical service, they are always available to answer promptly any questions relating to the SWISSPEARL systems and details on sustainable solutions and, on request, perform technical audits.

Available colours

- 8720 Brown, 8730 Beige, 8740 Blue, 8750 Green, 8760 Light Grey, 8780 Yellow, 8790 White, 8799 Black, 8799 Black

Useable panel sizes

- 1100 x 2900 mm
- 2400 x 2900 mm
- 3040 x 2900 mm
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SWISSPEARL facade system SIGMA 6

Large-size façade panels (SWISSPEARL) allow an almost free design for applications with the highest demands. Fugitive protruding elements are integrated into the façade system SIGMA 6. The system includes two facade depths to matched demands.

Panels are supplied in factory assembled and ready for wall, floor, and roof, with pre-sliced heulsken, drilled or treated to the required standard and finished (sandblasted, etc.).

The largest external panels can be used as weatherresistant cladding supporting all types of architectural styles (panel cut in by clients).

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The Swiss Collection

Competence, Excellence and Innovation

For more than 20 years the Swiss Research & Development bureau has continuously improved their unique expertise regarding core finishing materials and applied high-end cement composite systems. These huge technological advances are the foundation of the Swiss quality.

SWISSPEARL panels are produced in very modern state of the art facilities in Winterthur (Switzerland) and Vöcklabruck (Austria) operated with low energy and high environment consciousness. Facilities in Niederurnen (Switzerland) and Vöcklabruck (Austria) are operated with low energy and high environment consciousness.

All products are manufactured from high-quality Portland cement, synthetic fibres, cellulose materials and stable pigments. The proprietary processes pioneered by Switzerland with special surface finishes, tinted coating after fabricating. This provides a high quality finishing aspect with a special touch to every high profile building. These fantastic additional options allow giving an exclusive, imitated according to the designer’s project specific surface finishing to the interior environment. Read always to the architects individual request – high functional and aesthetical appeal.

The designing possibilities offered by the wide range may be complemented with special fabrications on surface treatments. These fantastic additional options allow giving an exclusive, imitated according to the designer’s project specific surface finishing to the interior environment. Read always to the architects individual request – high functional and aesthetical appeal.

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SWISSPEARL CARAT SL

Panels with a very vivid cement composite structure.

- Initial focus on the needs of North European architects expressed the timeless beauty of the monolithic material with its delicate vein texture shining through.
- Ask for NOBILIS (translucent coating with the cement structure coated panels on a grey core) are still available for building extensions, partitions, shading elements etc.
- CARAT SL plays the lead role. The unique natural look and the possibility of creating uniquely attractive façades.

Other SWISSPEARL products

- Role model of comprehensive colour matched fasteners and fixations.
- Panels disabled into rigid solid and sub-structural modules, sloping etc.
- The same product generations develop the exigencies of surface finishing and surface textures as a grey core utilizable for building solutions or particular needs.
- Ask for NOBILIS (translucent coating with the cement structure coated panels on a grey core) are still available for building extensions, partitions, shading elements etc.

Available sizes for SWISSPEARL panels

| Thickness | Not to scale | 12 mm | 8 mm
<table>
<thead>
<tr>
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<tr>
<td>2400 x 1200 mm</td>
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<tr>
<td>2400 x 1200 mm</td>
<td>200 x 200 mm</td>
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</table>

Dependent on silicon platform and thickness. Following panels may also be supplied. Please contact local SWISSPEARL Distributor to check availability in required colour.

The Swiss Collection: Outstanding product features

- Very weather resistant.
- Low water absorption.
- Minimal maintenance thanks to the smooth surface finish (Xenon Arc Light acc. Weathering Test).
- Temperature resistance guaranteed up to + 80°C and down to - 40°C (176°F to - 40°F).
- Temperature resistance guaranteed up to + 80°C and down to - 40°C (176°F to - 40°F).
- Not affected by coastal environment and normal wet atmosphere conditions.
- Mainly made of mineral raw materials, 100 % recyclable.
- According to European (EN 12467) and UBC Class 1, NFPA Class A according to ASTM E 84 - 99.
- Essentially fire resistant as an inert material.
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SWISSPEARL carat SL

Panels with a very vivid cement composite structure.

PHOTO Sandrér Zagre b

Specially designed for the rear ventilated rainscreen cladding system, the most reliable from the viewpoint of an inert material.

UBC Class 1, NFPA Class A according to ASTM E 84 - 99.

Excellent long term colour fastness and consistency:

Sun, rain (even acid rain), humidity and frost have nearly no influence on surface aspect.

Mostly factory fabricated for consistent high cutting/drilling/sealing quality.

Swell can be easily combined with various finishes and also blend harmoniously with other materials.

The Swiss Collection: A fascinating range

Most demanding projects and interiors. SWISSPEARL Panels only use the anti-fade technology to ensure that you always receive the colors of the facade while remaining sure that the client’s expectations are also met. Therefore, this natural elegance of the authentic and sublet natural color in surface finishes offers much flexibility and a new design potential. All these more in the seductive colors and textures can be readily understood and also develop harmonically with other materials.

Available sizes for SWISSPEARL panels

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Net to cut</th>
<th>16 3/4&quot; x 120&quot;</th>
<th>30&quot; x 120&quot;</th>
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<tr>
<td>12 mm</td>
<td>16 3/4&quot; x 120&quot;</td>
<td>96 1/2&quot; x 120&quot;</td>
<td>96 1/2&quot; x 120&quot;</td>
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SWISSPEARL, carat SL

Panels are very vivid cement composite structures.

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Delivery on request in 2012
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Delivery on request in 2012
Swisspearl façade panels

Swisspearl façade panels are large size cement composite substrates, available in a vast selection of finishes. After testing at all scale levels they have obtained excellent fire performances. Swisspearl façade panels incorporated into buildings with facade and vertical panels, alternately, in cladding system: the draping of flats and features, as well as a virtually unlimited range of shapes thanks to the weight possible in creating unique facade systems. Swisspearl façade panels are based on the ultimate technology of modernized rain surface cladding. Swisspearl development and proven cutting/finishing efficiency provides the building structure with all the resilience for decades. The panels are essentially water-repellent, extremely durable and virtually maintenance-free. In this context, extreme adaptability and aesthetic function are important criteria, guidelines and instructions where to our technical documentation.

Other Swisspearl products:
- Wide range of colour options matched to the building's appearance.
- Panels designed in colour to be facades, residential buildings, shading elements etc.

The Swiss Collection: Outstanding product features

- Not affected by coastal environment and normal atmosphere pollutants.
- No age, no tear, no hub, and hardly any need for cleaning or surface treatment.
- Excellent low water absorption and insulating properties, depending on slab and design (Xenon Arc Light acc. Weathering Test).
- Not affected by coastal environment and normal atmosphere pollutants.
- UBC Class l, NFPA Class A according to ASTM E 84.
- Most factory fabricated for consistent high cutting/painting efficiency and no influence on surface aspect.
- Unmatched physical properties. The only cement composite facade panel to receive the highest class rating 5A according to European CE conformity (EN 12467).
- Virtually unlimited choice of panel sizes allow for endless vertical joints or, alternatively, in strips lapped horizontally.
- Mainly made of mineral raw materials, 100% recyclable.
- Very weather resistant.
- Low water absorption.
- Durability.
- Minimal maintenance thanks to the smooth surface finish.
- Most factory fabricated for consistent high cutting/painting efficiency.
- Ensures a natural and homogeneous ageing of the whole surface of the panel/façade.
- Delta E-values range between 0.0 and 0.06 Depending on slab and design.

Available sizes for Swisspearl panels

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Net size cut</th>
<th>1000 x 1000 mm</th>
<th>2000 x 1000 mm</th>
<th>3000 x 1000 mm</th>
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<tr>
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<td>2030 x 1220 mm</td>
<td>2500 x 920 mm</td>
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<td>4070 x 1220 mm</td>
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</table>

The Swiss Collection: A fascinating range

Millions demanding interior products. Swisspearl façade not only on the facade's architectural needs to translate them to give the right finish of the façade while meeting more than the clients' expectations are also met.

The natural elegance of the authentic and swiss material in surfaces brings much flexibility and at the same time potential, all the more on the seductive nuances and textures can be vastly diversified and also seamlessly harmonized with other materials.

- Very weather resistant.
- Low water absorption.
- Durability.
- Minimal maintenance thanks to the smooth surface finish.
- Mainly made of mineral raw materials, 100% recyclable.
- Basic Construction Activities (BA): 80% in very weather-resistant facades for the facade application of the panels.

For detailed planning guidelines and installation instructions or particular needs. Please contact us to receive the latest information in the colour shade in shade. Combine beauty and seductive colours and textures can be easily combined and spectacular effects or to blend harmoniously into the surrounding settings.

For more information and also blend harmoniously with other materials.

- Natural elegance, outstandingly versatile and also blend harmoniously with other materials.
- Not affected by coastal environment and normal atmosphere pollutants.
- No age, no tear, no hub, and hardly any need for cleaning or surface treatment.
- Excellent low water absorption and insulating properties, depending on slab and design (Xenon Arc Light acc. Weathering Test).
- Not affected by coastal environment and normal atmosphere pollutants.
- UBC Class l, NFPA Class A according to ASTM E 84.
- Most factory fabricated for consistent high cutting/painting efficiency.
- Ensures a natural and homogeneous ageing of the whole surface of the panel/façade.
- Delta E-values range between 0.0 and 0.06 Depending on slab and design.

Available sizes for Swisspearl panels

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Net size cut</th>
<th>1000 x 1000 mm</th>
<th>2000 x 1000 mm</th>
<th>3000 x 1000 mm</th>
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</tbody>
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The Swiss Collection: Outstanding product features

- Specially designed for the rear ventilated rainscreen cladding system, the most reliable from the viewpoint of building physics.
- Virtually unlimited choice of panel sizes allow for endless vertical joints or, alternatively, in strips lapped horizontally.
- Natural elegance, outstandingly versatile and also blend harmoniously with other materials.
- Not affected by coastal environment and normal atmosphere pollutants.
- UBC Class l, NFPA Class A according to ASTM E 84.
SWISSPEARL panels are produced in very modern state of the art facilities in Würenlos (Switzerland) and Vöcklabruck (Austria) operated with low energy and high environment consciousness. The proprietary systems consist of high-quality concrete composite panels, coal-burned materials and stable pigments. The superior quality of the concrete core and coating, sealed edges and back coating ensure optimal behaviour and reliable long term quality. All types of coating and surface treatments are provided with an outstanding finishing quality. They may be used individually or in combination with plain SWISSPEARL panels to name a different situation with other materials.

The Swiss Collection

The various SWISSPEARL panels are ideally suited in architectural
projects with clear finish requirements. The architect’s individual creation with high
functional and aesthetical appeal. Result will always be
the architect’s unique project concept.

SWISSPEARL REFLEX

SWISSPEARL REFLEX is produced in very modern state of the art facilities in Würenlos (Switzerland) and Vöcklabruck (Austria) operated with low energy and high environment consciousness. The various SWISSPEARL panels are ideally suited in architectural projects with clear finish requirements. The architect’s individual creation with high functional and aesthetical appeal. Result will always be the architect’s unique project concept
The Swiss Collection

Competence, Excellence and Innovation

For more than 25 years the Swiss Research & Development teams have continuously expanded their unique expertise regarding core, colours, and applications of high-end composite façade systems. These huge technological advances are the backbone of the Swiss quality.

SWISSPEARL panels are produced in very modern state of the art facilities in Niederurnen (Switzerland) and Vöcklabruck (Austria) operated with low energy and high environment consciousness. They are manufactured from high quality Portland cement, synthetic materials and stable pigments. The proprietary processes pioneered by Switzerland with special surface finish, fibres, cellulose materials and stable pigments. The designing possibilities offered by the wide range may be complemented with special fabrication or surface treatments. The various SWISSPEARL panels are in some different shade with other materials.

Architects want great creative freedom and architects, designers, developers and contractors appreciate freedom of design. SWISSPEARL panels are ideally suited to every high profile building. These fantastic additional options allow giving an exclusive, special touch to every high profile building. The various SWISSPEARL panels are available in such a wide colour variety yet ensuring high production hygiene and very low environmental impact.

Fabricated Panels

The developing possibilities offered by the wide range may be complemented with special fabrication or surface treatments. These fantastic additional options allow giving an exclusive special touch to every high profile building.

From 1982 onwards all product lines gradually shifted to new production technology and new facilities in Niederurnen (Switzerland) and Vöcklabruck (Austria) operated with low energy and high environment consciousness.

In 1982 the Start of development of coloration technology with translucent coating and NOBILIS range with translucent surface was available.

In 1997 the Through coloured ranges CARAT SL and REFLEX made available in 45 shades were launched onto the market.

In 2006 Perforations and 3D-Ornaments and in 2009 Product Range X PRESSIV were launched onto the market.

In 2011 SWISSPEARL REFLEX was launched onto the market.

Millions of m² installed throughout Europe with new core technology and translucent coating.

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The Swiss Collection

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SWISSPEARL, façade panels

SWISSPEARL façade panels are the leading cement composite system worldwide. Since 1964, SWISSPEARL façade panels have set new standards in the world of building materials. The unique innovation and today’s leading technology produces a unique product that is a colourful solution in various building types.

**Special features**

- Colourfast: surfaces are produced by using a continuous direct pigmentation process and not just painted with a solid colour.
- High quality reinforcement fibres (less than 6% of cellulose fibres).
- Excellent long term colour fastness and consistency: Sun, rain (even acid rain), humidity and frost have nearly no influence on surface aspect.
- Fire rating: A2-s1, d0 according to EN Standard 13501-1/ UBC Class l, NFPA Class A according to ASTM E 84 - 99.
- Minimal maintenance thanks to the smooth surface finish (no soiling of the panels).
- Excellent performance in tests of an inert material.
- Very weather resistant.
- High quality cutting quality (4.5-5.5 for production lines). No dust, no smoke, no fumes.
- No affected by coastal environment and normal pollution.
- Bar, saw, plane and knife hardly affects the surface quality and surface aspect.
- Excellent long term colour fastness and consistency: Depending on shade, Delta E-values range between 0.5 and 3 on the CIELAB scale after 5000 hours of exposure to direct light (weathering field). Because of its thermal and homogeneous ageing of the active surface of the components, it is not possible yet to obtain the exact CIE-values after 5000 hours of exposure to direct light.
- The Swiss Collection: Outstanding product features

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Panel systems

- Uniform panel thickness<br>- Precision panel edges<br>- High-quality glazing system<br>- Excellent wind and weather protection<br>- Sunny or shaded façades<br>- Aluminium sub-frame<br>- High-quality installation<br>- Customizable design<br>

The Facades System SIGMA 8 offers a wide scope for individual expression. It is suitable for applications with the highest standards regarding sophisticated presentation.

Available colours:
- 8710 Dark Grey, 8720 Dark Grey, 8730 Red, 8740 Blue, 8750 Green, 8760 Light Grey, 8770 Brown, 8780 Yellow, 8790 White

Useful panel sizes:
- 1100 x 2500 mm
- 1220 x 3040 mm
- 2400 x 3300 mm

Max. distance between fasteners is reduced. Please contact Technical Advisor if necessary.

For more information, visit www.swisspearl-architecture.com.
SPACING OF FASTENING POINTS

- Approx. 90 mm
- Max. distance between fasteners is reduced. Please contact Technical Advisor.

FOR USE IN SYSTEMS

- Panes are supplied ex factory pretrimmed to 1100 mm, 2400 mm, 2900 mm and 3040 mm if requested.
- Panels are directional; aspect refers to finished panel size (already trimmed).
- Panes are available in any panel size from 100 x 100 mm to 1000 x 1000 mm.
- Useable panel sizes:
  - 1220 x 2400 mm
  - 2500 x 2500 mm

*Please note that these sizes are for guidance only and may vary from panel to panel depending on the type of sub-frame (metal or wooden sub-frame).

**If thicker than 12 mm, please enquire about the thickness options available.

FOR FURTHER INFORMATION

Please contact Technical Advisor.

www.swisspearl-architecture.com

DETAILED PATTERNS

- Available with standard or customized design
- Maximum of 2 trees per pane
- Pattern may be integrated with any design
- Design according to a set pattern, company logo, etc., the creative possibilities are unlimited. Ornament may be within patterns at random, company logo, etc.

GEOMETRIC DESIGNS

- Available with standard or customized design
- Available in 3-D ornaments
- Minimum width of grooved panel: 4 mm
- Minimum thickness of panel: 12 mm
- Maximum thickness of panel: 45 mm
- Maximum width: 2000 mm
- Maximum height: 2000 mm
- Maximum depth: 150 mm
- Maximum mass per panel: 150 kg
- Maximum mass per pane: 150 kg

ADDITIONAL CUSTOMISED TREATMENTS

- Side, windbreaker panels, sliding shutters, louvers
- Panels for balconies (minimum thickness: 12 mm, different type of coating)
- Typical applications are panels coated on both sides or run over several panels
- A panel, change from one panel to another or run over several panels
- Limitations in design: non-sharp angles, minimum radius 4 mm
- Maximum thickness depends on: 8720 Dark Grey: 8 mm; 8730 Red: 8 mm; 8740 Blue: 8 mm; 8750 Green: 8 mm; 8760 Light Grey: 8 mm; 8770 Brown: 8 mm; 8780 Yellow: 8 mm;
- Possible variations: 3 mm, 4 mm, 6 mm, 8 mm
- Additional consideration:
  - Panel alignment: the interior sides of the panels should correspond with the exterior sides of the panels
  - Spacing of fastening points: approx. 90 mm
  - Max. distance between fasteners is reduced. Please contact Technical Advisor.

MATERIALS

- Recycled design: custom pat-
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- Embossed surfaces
- They reproduce the aspect of wood, rendition and natural slate.
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- Textured surfaces
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- Sandblasted surfaces
- Thanks to this enhancing process, sandblasted finishes have a unique, slightly rough surface.
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Panels coated on both sides

Any panel may be finished on both sides, either in same or in different colours, with the same or a different type of coating. Typical applications are panels for balconies (minimum thickness: 12 mm; 1/2’’), podiums with girl, valences from the other side, wall covering panels, sliding shutters, barriers, etc. Additional customised treatment such as perforations, etc. is of course also possible.

Textured surfaces

2 standard patterns (thanks to the advanced embossing technology) as well as the sandblasted surface treatment complemented designating possibilities with textural through panels.

Embossed surfaces

The re-interpreation of wood, rice designs and natural slate.

Sandblasted surfaces

Thanks to this enhancing process, panels get a unique, slightly rough surface. As guidelines:

- Depth of ornaments: 3 mm if thickness 12 mm, 4 mm if thickness 16 mm
- Spacing of fastening points: 8 mm
- Useable panel sizes 1220x2400 mm (already trimmed)
- Colour: Natural Grey
- Available colours may vary from panel to panel

Fascination of Innovation

The Swiss Collection is provided for high-end projects coached by the local and international SWISSPEARL technical service. The selected patterns cover its our high standards regarding the professional support of the designers and end customers until the façade is installed.

Together with the Swiss technical service, they are always available to answer promptly any questions relating to the SWISSPEARL programme colours 2011.