

programme

colours

2011

Panels and systems

SWISSPEARL®

PREMIUM

SWISS QUALITY

PANEL SYSTEMS

FOR HIGH END

ARCHITECTURE

The Swiss Collection

Competence, Excellence and Innovation

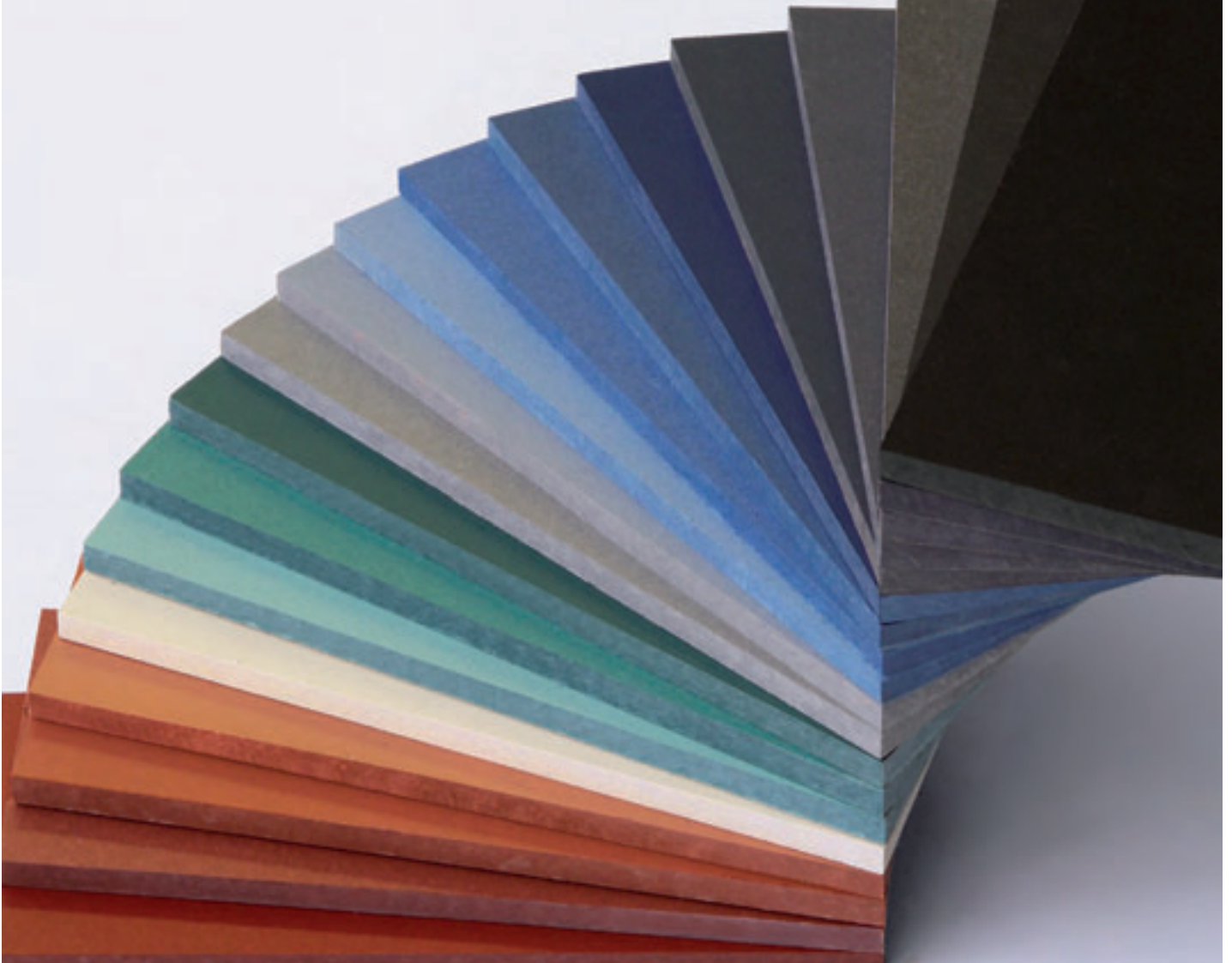
For more than 25 years the Swiss Research & Development teams have continuously expanded their unique expertise regarding core, coloration and application of high-end cement composite façade systems. These huge technological advances are the backbone of the Swiss quality.

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 fibres, cellulose materials and stable pigments. The proprietary processes pioneered by Switzerland with special surface finish, sealed edges and back coating ensure optimal behaviour and durability of the fully compressed panels. Millions of panels installed since 1985 throughout the world prove the outstanding, reliable long term quality of the cement core and coating.

Eternit Switzerland is the only manufacturer which masters the highly demanding production processes for integrally coloured cement composite panels offered in such a wide colour variety yet ensuring high production hygiene and very low environmental impact.



Always at least an innovation step ahead...



SWISSPEARL façade panels

SWISSPEARL façade panels are large size cement composite sheets, available in various distinctive finishes. After trimming all four sides the sheets may then be cut to any desired sizes. SWISSPEARL façade panels can be installed in one plane with horizontal and vertical joints or, alternatively, in strips lapped horizontally. The detailing of joints and fixations, as well as a virtually unlimited choice of panel sizes allow for endless possibilities in creating uniquely attractive façades.

SWISSPEARL façade panels are installed following the ultimate technology of uninterrupted rear ventilation. This fully developed and proven cladding system effectively protects the building structure and with it the whole building from the elements for decades. The panels are rot-resistant, incombustible, extremely durable and virtually maintenance free - in all aspects an extremely advantageous and attractive solution. For detailed planning guidelines and installation instructions refer to our technical documentation.

Available sizes for SWISSPEARL panels

Thickness	Net size cut	
8 mm and 12 mm	3040 × 1220 mm	119 11/16" × 48 1/32"
	2500 × 1220 mm	98 7/16" × 48 1/32"

Depending on colour platform and shade, following panels may also be supplied. Please contact local SWISSPEARL Distributor to check availability in required colour.

8 mm only	3040 × 920 mm	119 11/16" × 36 7/32"
	2500 × 920 mm	98 7/16" × 36 7/32"



The Swiss Collection: A fascinating range

When developing new products SWISSPEARL focuses only on the architects' creative needs to enable them to plan and realize their vision of the façade while making sure that the client's expectations are also met.

Therefore, the natural elegance of the authentic and sober material in various finishes offers much flexibility and tremendous design potential, all the more as the seductive colours and textures can be easily combined and also blend harmoniously with other materials.

PHOTO JÜRIG ZIMMERMANN | CH ZÜRICH



The Swiss Collection: Outstanding product features

SWISSPEARL façade and interior panels are supplied by the only manufacturer in the world with more than 20 years' experience in cement composite façade panels with new core technology and not just painted with a solid color.

The legendary Swiss quality rests especially on the following features:

- Cement composite panels with top finishing and core coloured through shade in shade. Combine beauty and durability.
- Specially designed for the rear ventilated rainscreen cladding system, the most reliable from the viewpoint of building physics.
- Unmatched physical properties. The only fibre cement façade panel to receive the highest class rating 5A according to European CE conformity (EN 12467).
- High quality reinforcement fibres (< 6 % of cellulose fibres).
- Low water absorption.
- Very weather resistant.

- Not affected by coastal environment and normal atmospheric pollutants.
- Sun, rain (even acid rain), humidity and frost have nearly no influence on surface aspect.
- Excellent long term colour fastness and consistency: depending on shades, Delta E-values range between 0.5 and 3 on the CIELAB scale after 5000 hours of exposure (Xenon Arc Light acc. Weathering Test). Ensures a natural and homogeneous ageing of the whole surface of the panel/façade.
- Temperature resistance guaranteed up to + 80°C and down to - 40°C (176°F to - 40°F).
- Fire rating: A2-s1, d0 according to EN Standard 13501-1/ UBC Class I, NFPA Class A according to ASTM E 84 - 99.
- Mostly factory fabricated for consistent high cutting/drilling/sealing quality.
- Minimal maintenance thanks to the smooth surface finish of an inert material.
- Mainly made of mineral raw materials, 100 % recyclable.
- Swiss Construction Authorities testify 40 years as standard life expectancy for the façade application of the panels.



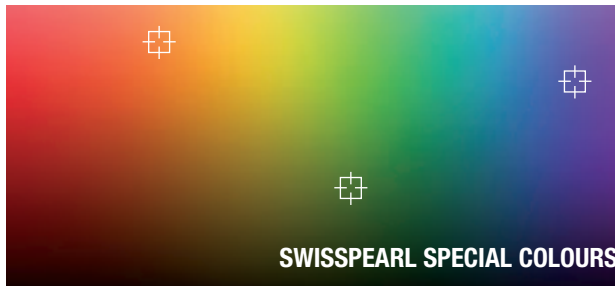
SWISSPEARL CARAT SL



SWISSPEARL REFLEX



SWISSPEARL XPRESSIV



SWISSPEARL SPECIAL COLOURS

SWISSPEARL CARAT SL

Integrally coloured panel with either translucent or pigmented top layer, CARAT SL plays the lead role. The unique natural look and the timeless beauty of the monolithic material with its delicate vein texture provide an exciting and noble expression to buildings with special character.

Initially focused on the needs of North European architects expressed in SWISSPEARL surveys, the colour range has been widened to also meet the designers' wishes in the rest of the world for more vibrant tones. Now available in a wide spectrum of complementary shades, CARAT SL is just the top of the line façade solution to create contrasts and spectacular effects or to blend harmoniously into the surrounding settings.

SWISSPEARL REFLEX

Mostly integrally coloured, these high tech panels bear an iridescent surface finishing on pure acrylic base. Changing lighting and angle of vision produce fascinating nuances in the colours.

These directional panels come in 15 shades; they are particularly suited for contemporary buildings of any size and scope with a very modern architecture.

SWISSPEARL XPRESSIV

Panels with a very vivid fibre cement structure.

SPECIAL COLOURS

SWISSPEARL has an unmatched competence and know-how regarding special colours. In the past 10 years, more than 2000 customized colours were supplied according to architects' specification.

Other SWISSPEARL products

- Wide range of complementary colour matched fasteners and accessories.
- Panels coloured on both sides for balconies, slotted internal partitions, shading elements etc.
- The former product generations developed in the eighties (surface coated panels on a grey core) are still available for building extensions or particular needs.

Ask for NOBILIS (translucent coating with the cement structure shining through) or PLANEA (clear, strong solid colors with matte surface finish).

PHOTO STEVE HALL | USA CHICAGO



SWISSPEARL CARAT SL

7052 Jade

7050 Jade

7051 Jade

7219 Agate

7010 Crystal
Delivery on request in 2012

7060 Sapphire

7061 Sapphire

7043 Azurite



PHOTO RUNE BACKS | DK COPENHAGEN

PHOTO LOUIS DALLARA | USA IMEDFORD



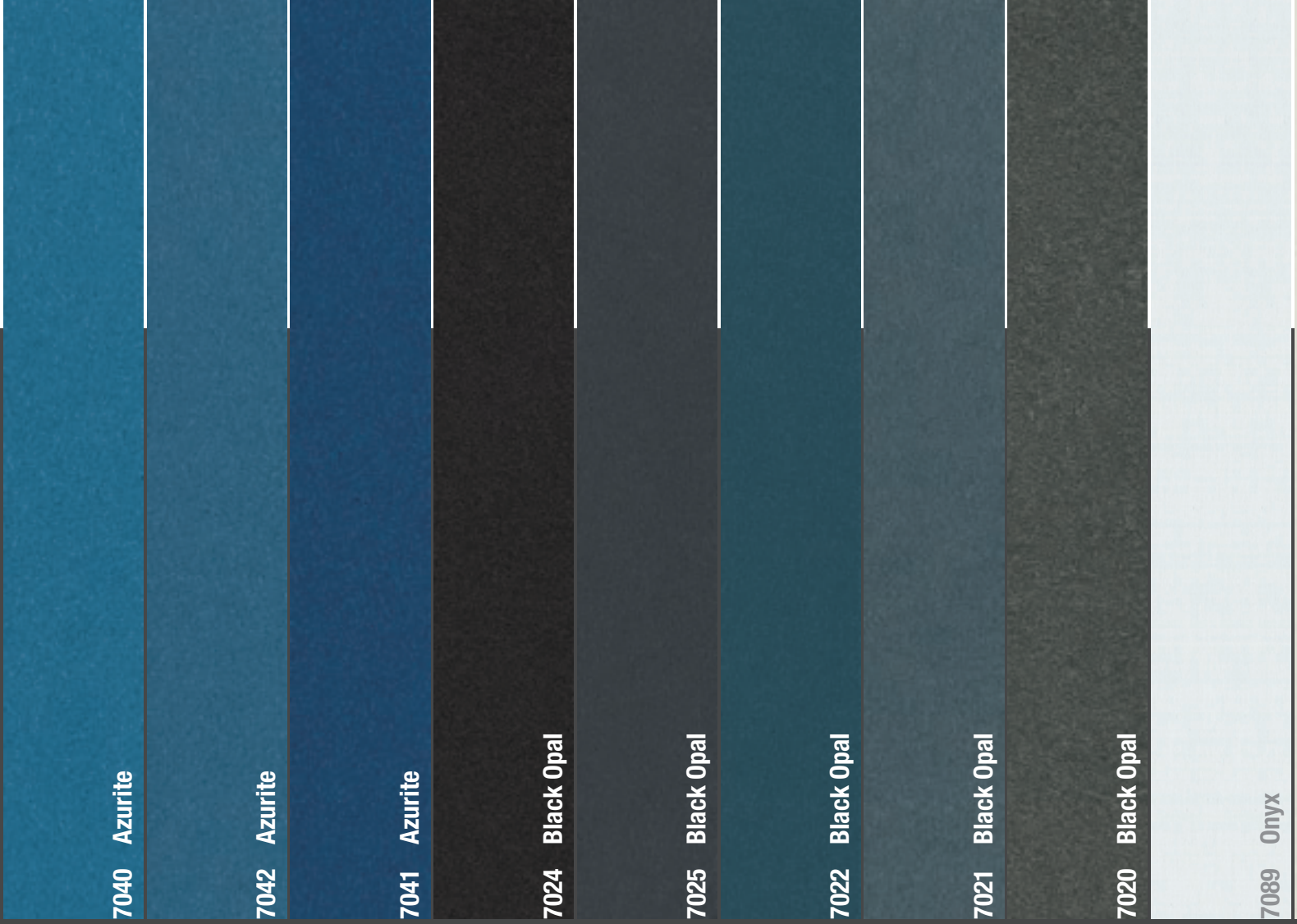


PHOTO ROLAND HALBE | D. STUTTGART



7090 Onyx

7091 Onyx

7092 Onyx

7093 Onyx

7094 Onyx

7082 Amber

7080 Amber

7081 Amber

7083 Amber

PHOTO RUINE BACKS | DK COPENHAGEN



PHOTO CRISTIAN BARAHONA | SANTIAGO DE CHILE



7072 Topaz

7073 Topaz

7070 Topaz

7071 Topaz

7031 Coral

7032 Coral

7030 Coral

7033 Coral



PHOTO COLIN MCRAE | USA BERKELEY CA



SWISSPEARL REFLEX

9000 Silver

9020 Platinum

9090 Champagne

9290 Champagne

9291 Satin White

9230 Sunset

9231 Crimson

9270 Autumn Leaves

PHOTO SANDRO LENDLER | HR ZAGREB



SWISSPEARL REFLEX

9271 Mystic Brown

9272 Gold

9240 Blue Ice

9241 Cobalt Blue

9242 Night Blue

9250 Green Lagoon

9221 Black Velvet

PHOTO JÜRIG ZIMMERMANN | CH ZÜRICH



SWISSPEARL X PRESSIV

8060 Light Grey

8220 Dark Grey

8230 Red

8270 Brown

8080 Yellow

8050 Green

8040 Blue

8090 White

PHOTO JÜRIG ZIMMERMANN | CH ZÜRICH



Fabricated Panels

The designing 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.

The various SWISSPEARL specialities rest on the integrally coloured panel platform. Panels with perforations, 3D-ornaments or other surface treatments are provided with an outstanding finishing quality. They may be used individually or in combination with plain SWISSPEARL panels in same or different shade or with other materials.

Creativity

Architects want great creative freedom to express their innovative architectural ideas. Perforations and 3D-ornaments meet this requirement since they are fabricated according to the designer's project specific wishes to enhance façades or interior environment. Result will always be the architect's individual creation with high functional and aesthetical appeal.

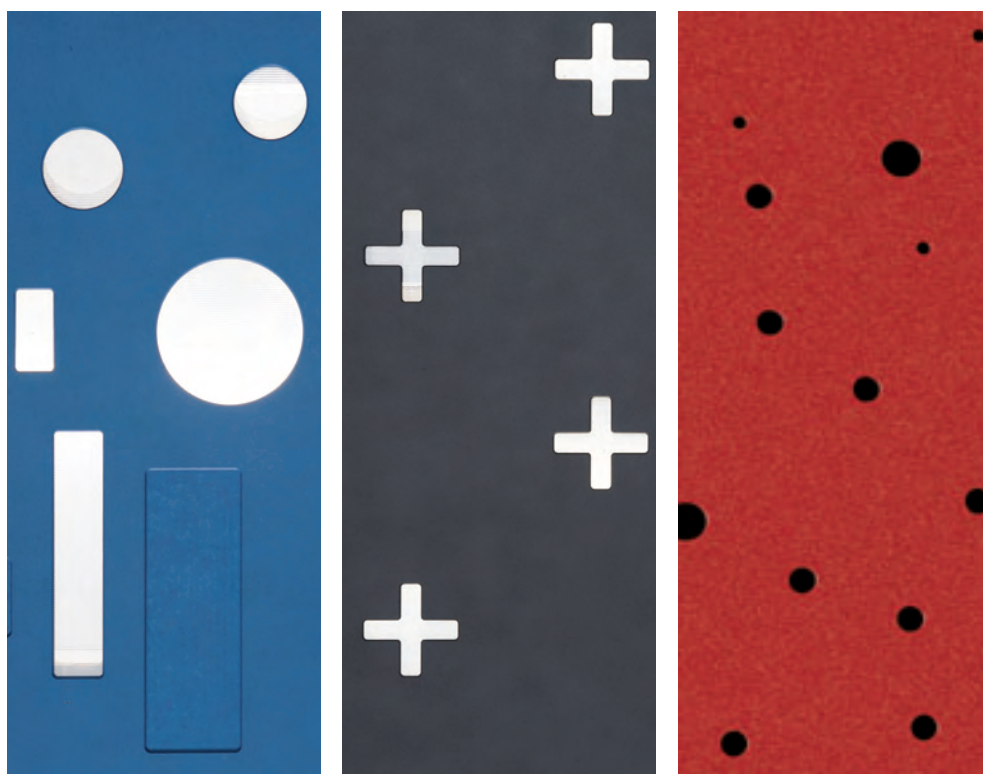
Scaled drawings of intended patterns are to submit as DWG or DXF-files for approval. For exterior use, perforations (minimum diameter 20 mm) and 3-D ornaments are chamfered 45° and fully surface finished with a transparent or tinted coating after fabrication. This provides a high quality finishing aspect with a long time quality. All types of coating and custom shades may be specified.

PHOTO MIRAN KAMBIČ | SL. RADOVLJICA



Perforations

Holes, slots and other shaped perforations allow creating very unusual effects. Perforated panels may have a function (sliding shutters, lightin concepts, windscreens, separation, sound absorption, etc.) ... or be purely decorative.



Limitations in design possibilities for perforations

- Required thickness depends on static, function, number, size and repartition of the perforations
- Static of each intended perforation design is to check, depending on type, size, repartition and position of wished perforations.
As guidelines:
Surface of perforations:
 - maximum 18-20 % depending on panel thickness
- Space between holes should correspond to 2 x the size of the perforation
- Approximately 90 mm border without perforations.
Also allow for non perforated surfaces at position of the fasteners
- Spacing of fastening points may have to be adjusted depending on pattern/statics.



PHOTO RICARDO LUCAS DE ALMEIDA | BR SAO PAULO



PHOTO ROLAND HALBE | D STUTTGART



Panels coated on both sides

Any panel may be finished on both sides, either in same or in different colour, with the same or a different type of coating. Typical applications are panels for balconies (minimum thickness: 12 mm, 15/32”), partition walls partly visible from the other side, windbreaker panels, sliding shutters, louvers, etc. Additional customised treatment such as perforations, etc. is of course also possible.

3-D ornaments

Geometric designs, custom patterns at random, company logo, etc, the creative possibilities are unlimited. Ornament may be within a panel, change from one panel to the other or run over several panels to create a bigger pattern.

Limitations in design possibilities for 3-D ornaments

- Required thickness depends on static, number, size and repartition of the ornaments.
- Static / feasibility of each intended pattern have to be checked. As guidelines:
 - Depth of ornaments
 - maximum 1.5 mm if thickness 8 mm
 - maximum 4 mm if thickness 12 mm
 - Surface of ornaments
 - maximum 18% if thickness 8 mm
 - maximum 20% if thickness 12 mm
- Minimum width of grooved lines, whatever shape and position: 3 mm
- No sharp angles, minimum radius 4 mm
- Space between 2 elements of the pattern should correspond to at least 100 mm
- Approximately 90 mm border without ornaments around fixing points.
- Spacing of fastening points may have to be adjusted depending on pattern/statics.

Textured surfaces

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

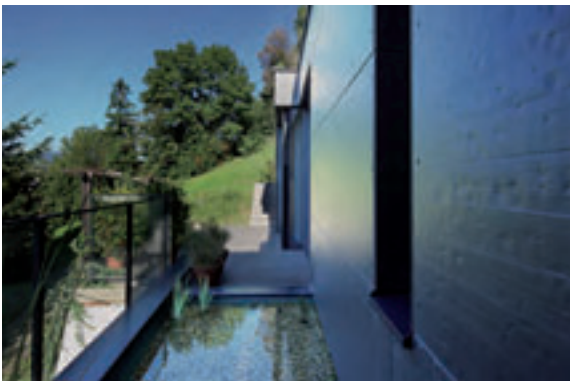


PHOTO GÜNTHER R. WETT | A. INNSBRUCK



Embossed surfaces

They reproduce the aspect of wood, rendering and natural slate and will be available on request, latest in Autumn 2011.



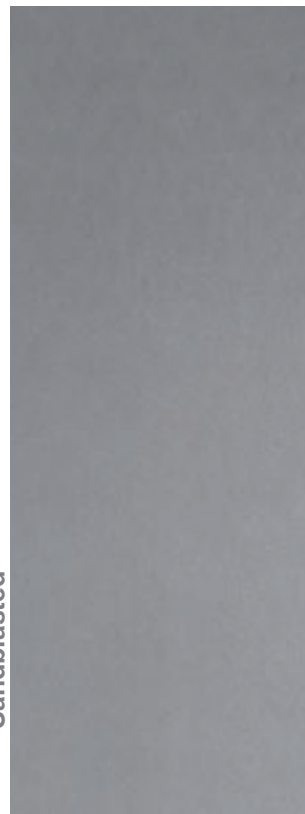
Wood



Natural slate

Sandblasted surfaces

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



Sandblasted

Limitations in design possibilities for embossed surfaces

- Useable panel sizes
1220 × 2500 mm
1220 × 3040 mm
- Panels are directional
- Colour: Natural Grey

Limitations in design possibilities for sandblasted surfaces

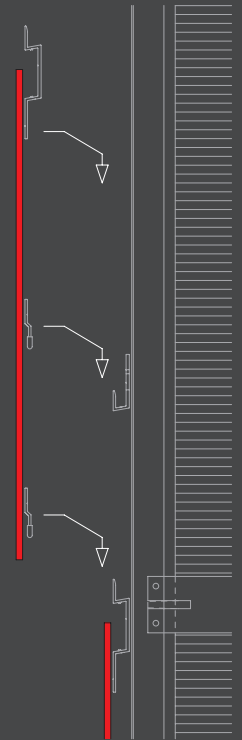
- Useable panel sizes
1100 × 2400 mm
1100 × 2900 mm
(already trimmed)
- Panels are directional; aspect may vary from panel to panel
- Available colours
8790 White, 8760 Light Grey, 8720 Dark Grey, 8730 Red, 8740 Blue, 8750 Green, 8770 Brown, 8780 Yellow.
- Due to thinner panel thickness, max. distance between fasteners is reduced. Please contact Technical Advisor.

SWISSPEARL façade system SIGMA 8

Large size façade panels SWISSPEARL installed with secret fixing, are designed for applications with the highest standards regarding sophisticated presentation. The façade system SIGMA 8 offers a wide scope for individual expression.

Panels are supplied ex factory accurately and cleanly cut to size, with predrilled backside holes, all executed under strict quality control. The system includes the special anchors and three ingeniously designed hanging elements to be installed on the job site.

This clever and rational system can be used with any standard vertical supporting metal or wooden sub-frame (carried out by others).



Fascination of Innovation

SWISSPEARL®

Authorized Distributor

www.swisspearl-architecture.com

PREMIUM

SWISS QUALITY

PANEL SYSTEMS

FOR HIGH END

ARCHITECTURE

The Swiss Collection: Unpaired service range

The Swiss Collection is provided for high-end projects coached by the local authorized SWISSPEARL Distributor. Our dedicated partners commit to our high standards regarding 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 or custom tailored solutions and / or colours.