



Office building, Croatia



Business Center, Lithuania



Metro Station, Chile

SWISSPEARL®

PREMIUM SWISS QUALITY

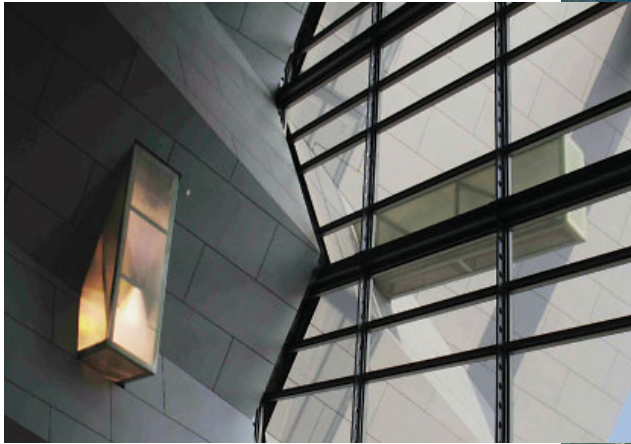
PANEL SYSTEMS FOR

ARCHITECTURAL

INTERIOR DESIGN

SWISSPEARL is renowned all over the world for its façade systems that allow very creative design regardless of the projects' complexity. **SWISSPEARL** panels ensure lasting beauty and quality to be enjoyed by owners and users of the buildings.

PHOTO ROLAND HALBE, STUTTGART | GERMANY



Appropriate also
for complex
wall shapes

Federal Building, USA



Whatever the goal - trendy fashion or classic elegance, functional sobriety or creative experimentation -, the wide and versatile range of **SWISSPEARL** solutions gives architects the freedom to design interior spaces using their innovative architectural ideas.

It is easy to combine standard products and/or Swiss specialities or custom solutions to create a unique, architectural expression. Of course, the wide range of shades in several textures can be tailored to meet the needs of specific working, living or leisure environments.

Explore the virtually unlimited possibilities of walls in complex shapes, colour combinations, perforations, ornamentation to enhance any interior. The result will always be the architect's individual creation with high functional and aesthetic appeal.

Shopping Center, Mexico

SWISSPEARL is the key for high class interior spaces of universities, administrations, offices, conference rooms, hotels and restaurants, shopping malls, airports, train stations and residences.

The unique material with its unmatched character allows the architect to use the same panels both outside and indoors for consistency regarding aesthetics, fire rating and other high-performance characteristics meeting specific requirements.

SWISSPEARL adds value to the building - in line with the client's corporate identity, style and expectations. For new builds, interior remodelling and refurbishment work.

Discover our extensive line of creative solutions for design, lighting, sound absorption, etc.



School, Norway

With – amongst others - following **features**

- Authentic material character
- Green, sustainable material with low proportion of grey energy
- Permanent high fire rating A2-s1, d0 (see brochure Tests & Approvals and Fire Test Data)
- Panel system conceals imperfections and inaccuracies of the built rooms
- Cost-efficient thanks to long life expectancy and low maintenance
- Many options for customised solutions, high service level
- Easy to dismantle/re-install for access to hidden appliances
- 10 years warranty for standard applications

Suitable for the following **applications**

- Innovative design for walls, ceilings, partitions, stair cases, etc.
- Transitions from outdoor to indoor spaces usign the same material, for inner courtyards, etc.
- To conceal/accommodate lighting, and any other technical appliances in suspended ceilings or in the ventilation cavity
- Eye catching interplay of colours or combination with perforated panels or panels with 3-D ornamentation
- Signposts (printed, perforated, etc.)

Special products/fabrications are fully manufactured in-house in Switzerland to ensure highest quality and finishing standards.

Installation guidelines are the same as for façade: see Design and Installation Manual

Jobsite Metro Station, Chile





Bank, Venezuela



Library, Sweden



Entrance Sport Facility, Spain



Motorway Restaurant, Italy

Office building, Hungary



University, Canada



INTERIOR IMAGES, TORONTO | CANADA



University, USA

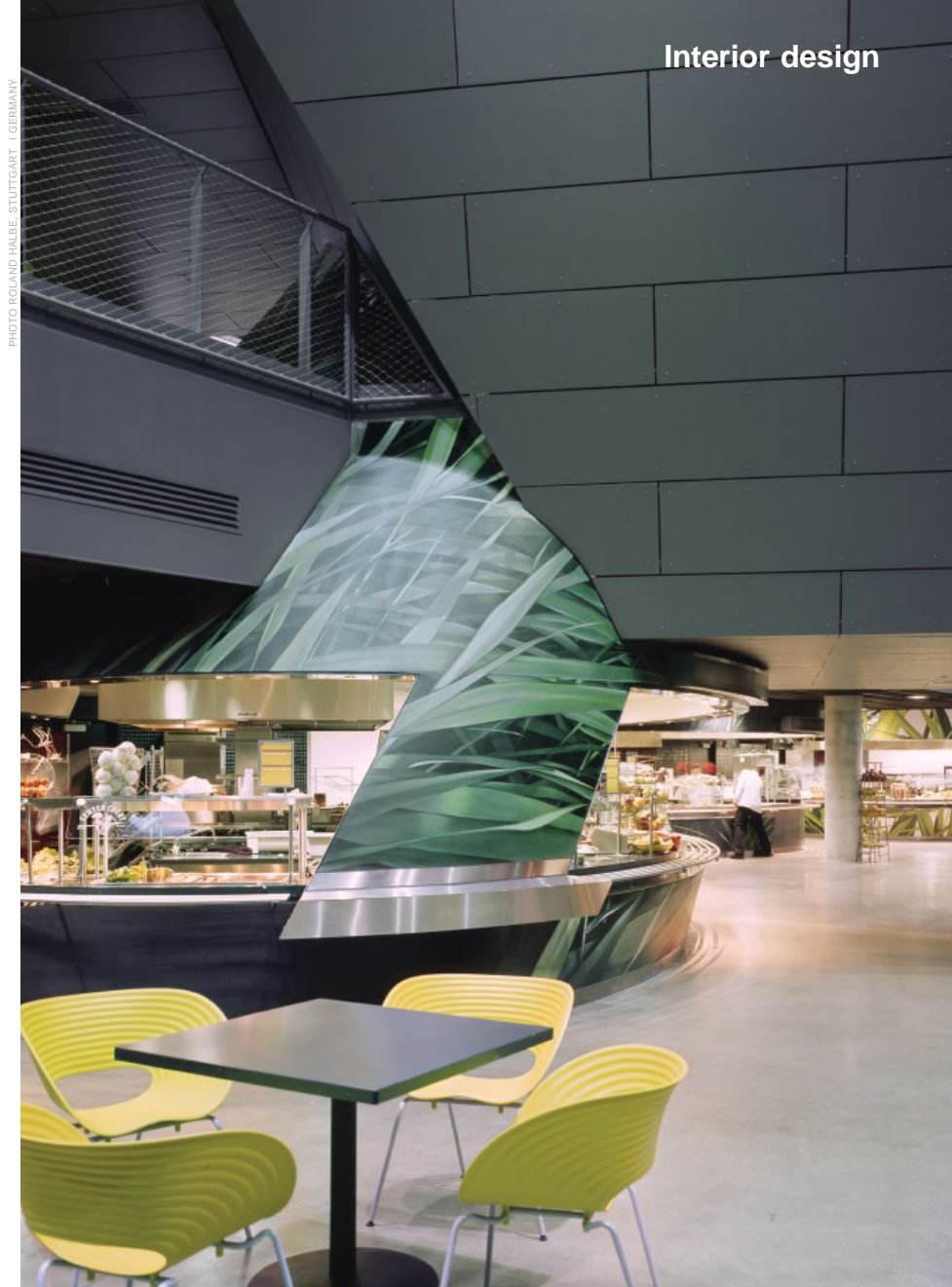


PHOTO ROLAND HALBE - STUTTGART - GERMANY

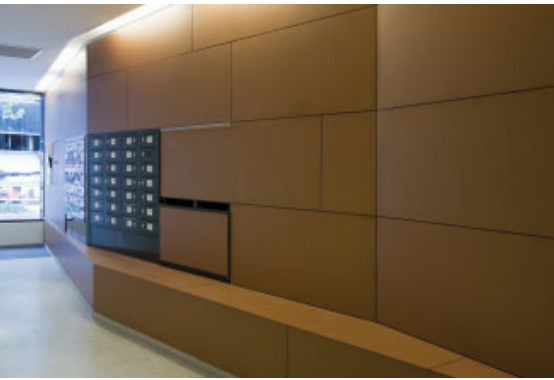
Recreation Center, USA



Jobsite Train Station, Sweden



Interior design



Entrance Residential Building, Norway



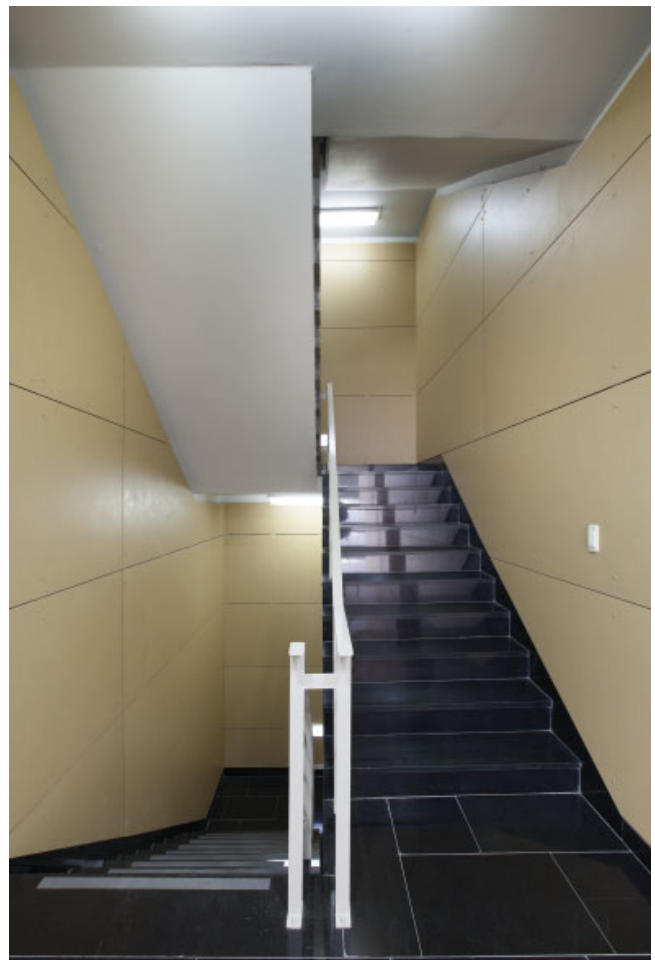
Corporate Restaurant, USA



Hotel Lobby, Italy



Restaurant, Serbia



Office building, Korea

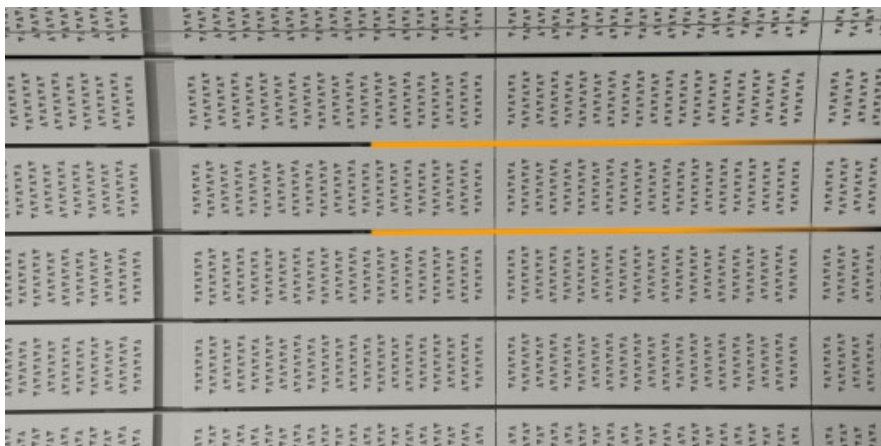
**Bored of standard lighting solutions?
SWISSPEARL offers alternatives!**

Let the light come from unexpected places, in an unusual way as spots or diffusers. Or use natural light but prevent the sun from heating up the interior spaces, for example by using perforated panels in front of the windows. This will not only increase the attractiveness of a unique interior environment, but also delight its users who feel better and comfortable.

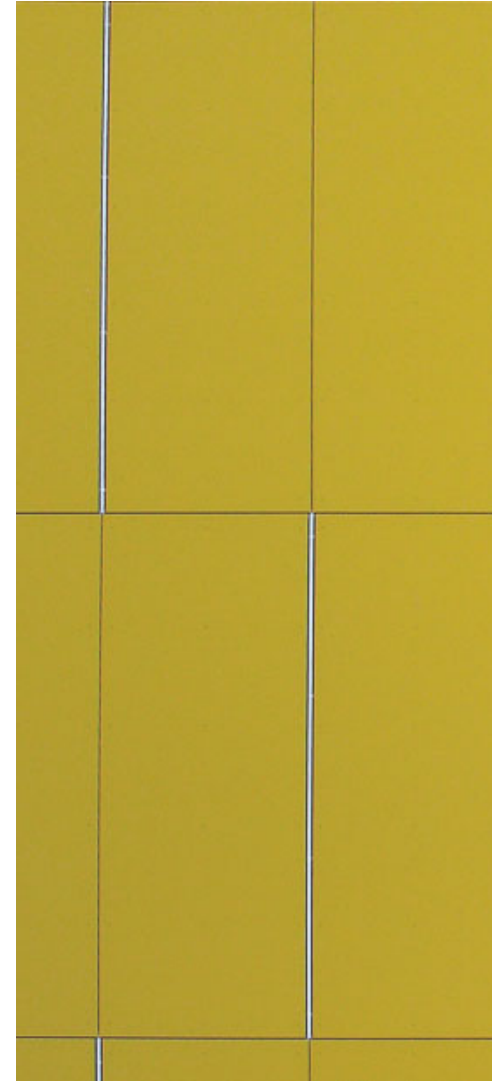
Supplied in any custom perforation pattern complying with our technical restrictions in a wide range of standard or custom shades.

Let space and lighting inspire you to an extraordinary, innovative concept to highlight a great interior design.

Use vertical/
horizontal joints
for creative
lighting concept



Train Station, Sweden



Shopping Center, Switzerland

Office Building, Bulgaria



School, Sweden





Sports Complex, Switzerland

Use ventilation cavity to add lighting system or line with different colour fabric for a special effect



School, Sweden



Office Building and Parking, Slovenia



Sports Hall, Denmark



Staircase Office Building, Russia

School, Sweden



Secret or visible
fastening



White-cross effect achieved by stretching fabric behind perforations

Sound absorption Sound reduction



Holes, slots and other shaped perforations are chamfered prior to coating, which provides a high quality finish aspect.

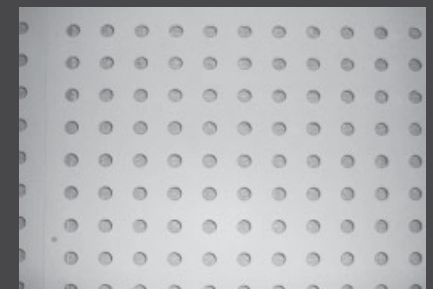
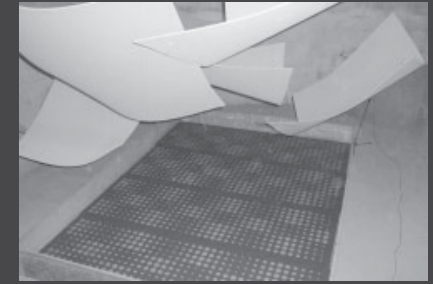


SWISSPEARL is also suitable to enhance room acoustics. Made of inert material, perforated SWISSPEARL panels are sound-absorbent to approx. 10 decibels. Sound absorption coefficient (α_s) at any given frequency varies with depth of air cavity in the ventilated system. It can be further improved by increasing panel thickness or by stretching fabric or other material behind/above perforations.

The graphs and tables on the following pages show the acoustic absorption in relation to hole or slot size/pattern in SWISSPEARL panels. For other performance targets, hole diameters and patterns, please contact your local authorised SWISSPEARL distributor.

Acoustical tests performed at Kühn+Blickle Institute for Sound Proofing, in accordance with EN ISO 354. Available on request.

Within existing standard panel sizes, wall and ceiling panels for acoustical purposes can be tailored according to any design needs. All colour collections and custom shades are appropriate. Perforation pattern complying with the technical restrictions allows up to 18-20 per cent of perforated surface.



Photos of the tests

Sound absorption coefficient

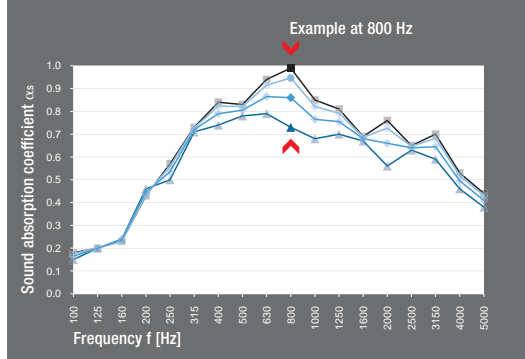
The sound absorption coefficient of any material/system describes the share of total absorption of incident sound. Any remaining sound is reflected.

The absorption coefficient is frequency-dependent, and usually measured between 125 Hz and 4000 Hz for each octave range. The absorption coefficient is a value ranging between 0 (no absorption, all sound waves are reflected) and 1 (full absorption, no reflection).



Examples

When air layer is 10 mm, 94% of the incident sound is absorbed at a frequency of 800 Hz. With an air layer of 60 mm, incident sound absorption is 73%.



SWISSPEARL

Perforation

- Diameter

- Perforated surface

- Pattern [staggered]

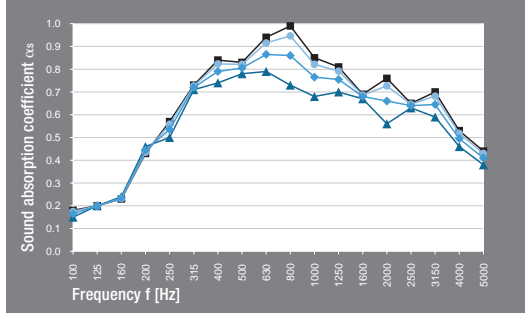
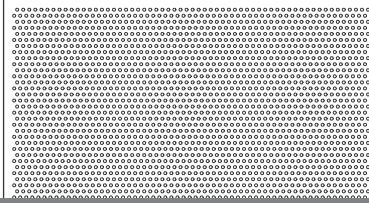
8 mm

● ● ●

8 mm

18.6%

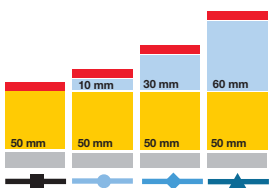
16 × 32 mm



Cavity

Insulation

Mineral wool, density 60 kg/m³



SWISSPEARL

Perforation

- Diameter

- Perforated surface

- Pattern

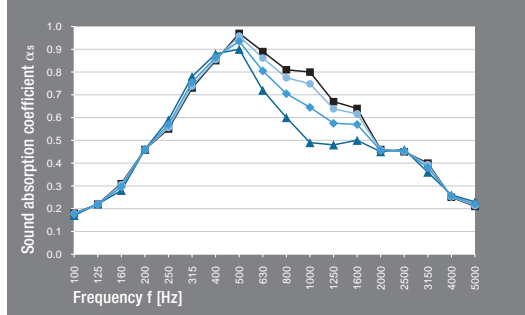
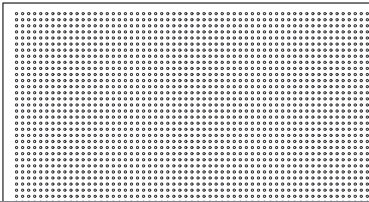
8 mm

● ● ●

6 mm

10.5%

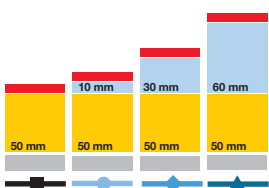
16 × 16 mm



Cavity

Insulation

Mineral wool, density 60 kg/m³



SWISSPEARL

Perforation

- Diameter

- Perforated surface

- Pattern

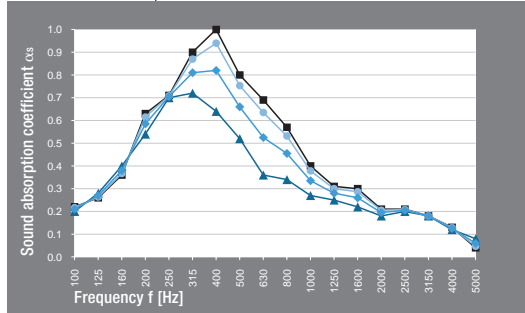
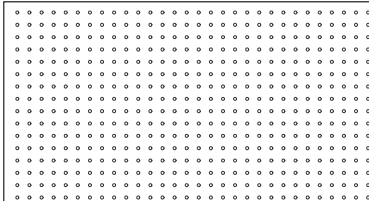
8 mm

● ● ●

8 mm

4.7%

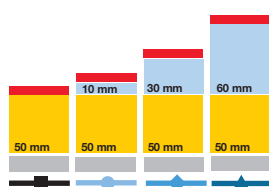
32 × 32 mm



Cavity

Insulation

Mineral wool, density 60 kg/m³



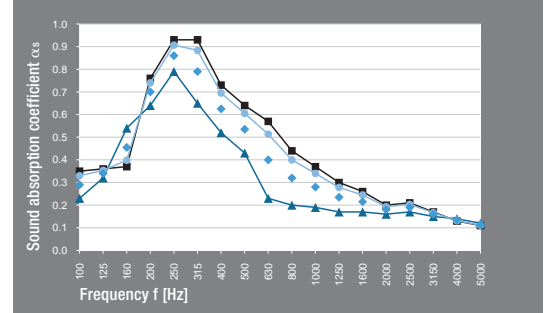
8 mm

● ● ●

20 mm

4.7%

80 × 80 mm



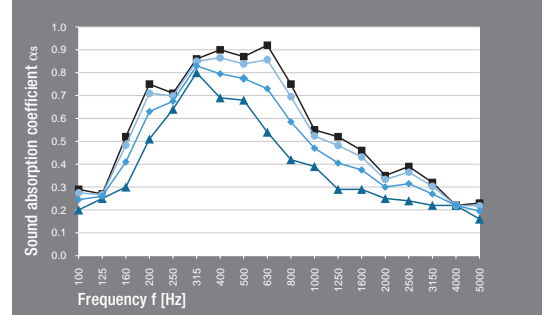
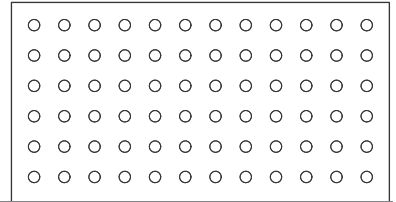
8 mm

● ● ●

30 mm

10.5%

80 × 80 mm

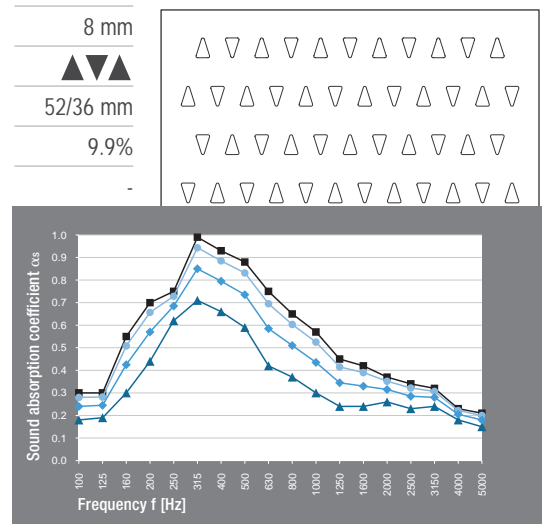
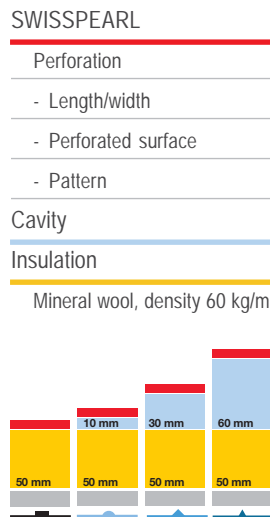
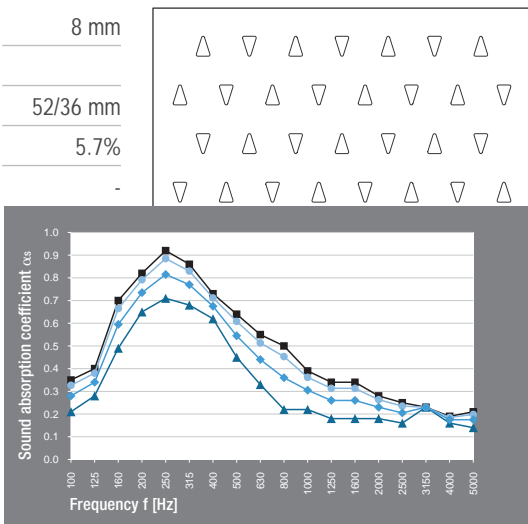
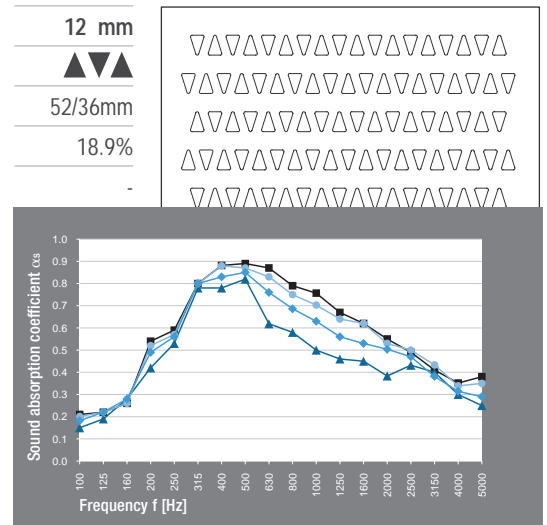
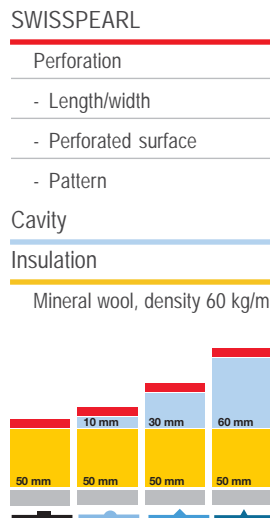
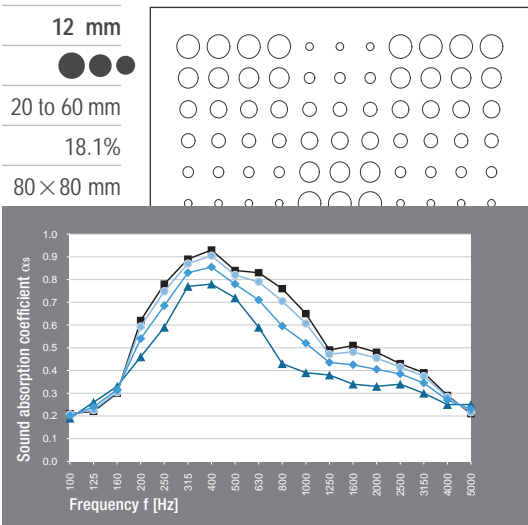
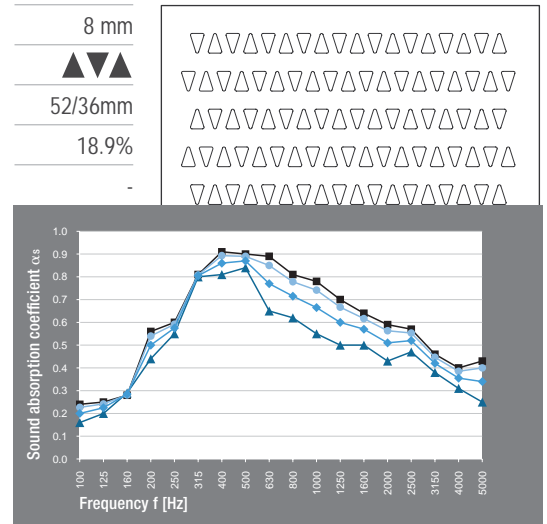
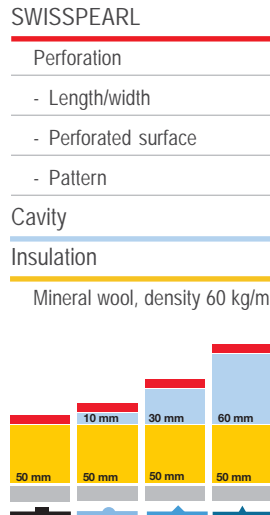
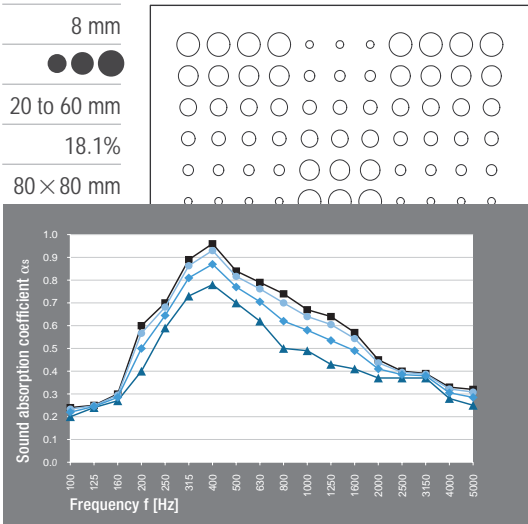


Source

Institute for Sound Proofing Kühn+Blickle

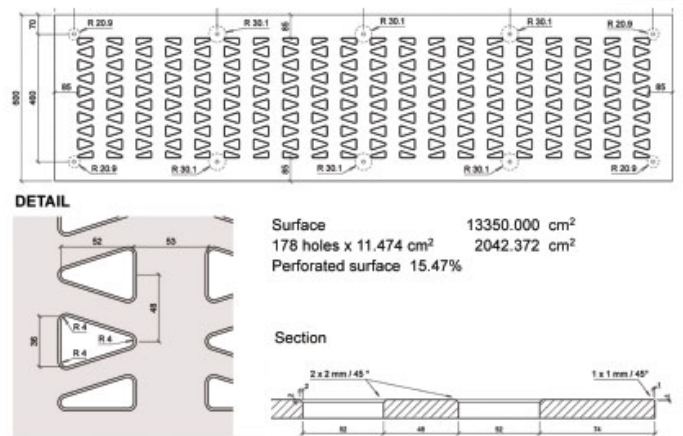
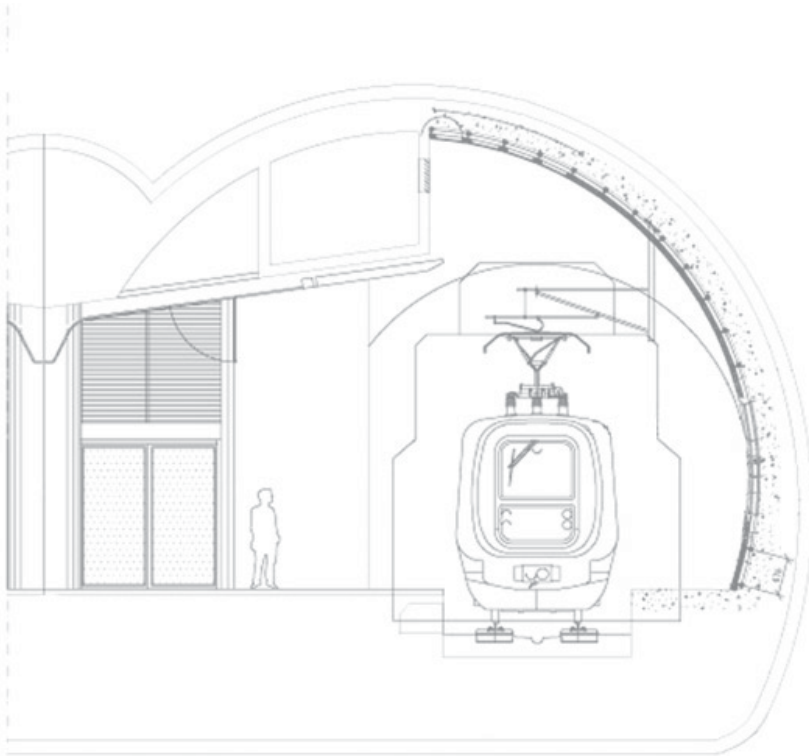
Report Number 6531-09-1 dated 22th July, 2009

Test according to EN ISO 354



Interior Design

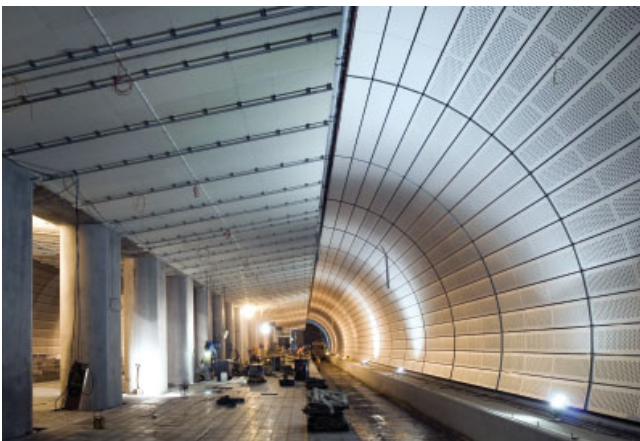
From vision to realisation, our technical services in Switzerland will provide any professional assistance required for special tasks.



The technical drawing above is just an example how the various challenges of a train station project led to exciting developments together with the project manager, the structural engineer and the authorized SWISSPEARL distributor. Goal was a solution to reduce the noise of the trains, provide an innovative lighting concept for an aesthetic wall designed to last for 60 years.

SWISSPEARL – To design interior spaces reflecting your inspiration for your demanding customers' expectations.

Jobsite Train Station, Sweden



Restrictions of Use

SWISSPEARL panels have been designed for long-term use in façades and various interior applications. The standard panels, however, are not suitable for the following applications:

- High-wear surfaces (floors, food counters, tabletops, stairs, etc.)
- Contact with foodstuffs, chemical detergents and solvents (disinfectants, scouring, washing and descaling products, etc.)
- Frequent cleaning with pressure washers
- Direct exposure to sources of heat exceeding 50°C

Fascination of Innovation **SWISSPEARL®**

Authorized Distributor

www.swisspearl-architecture.com

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