

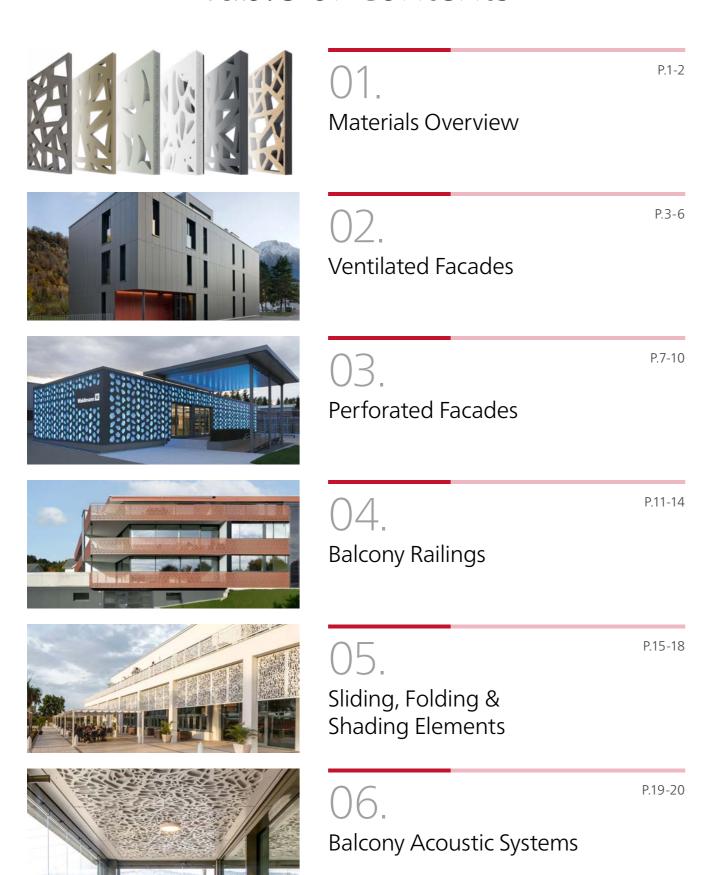
Innovative Cladding Elements

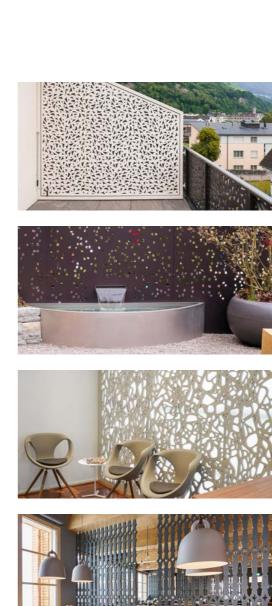
When Architecture for Exterior and Interior Applications Becomes Tangible!

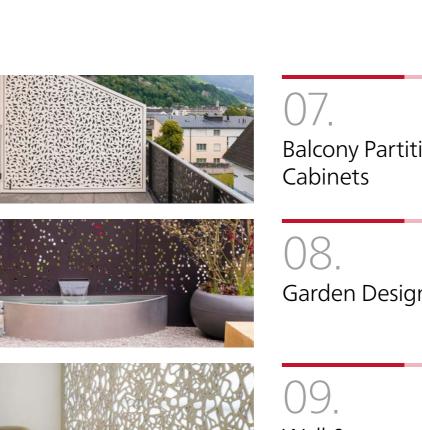


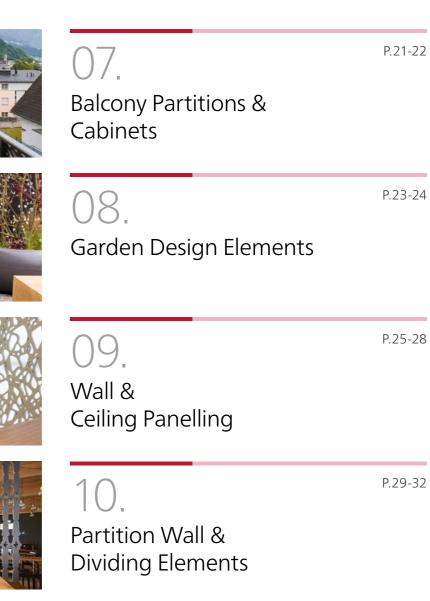


Table of Contents











P.33-36 Room Acoustic Systems & Noise-Virus-Catcher®



P.37-40 Stair Railings

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01. Materials Overview









CELLON®

FORMBOARD TOP PINE®

MDF

OAK PLYWOOD

Exterior and interior

Compact high-pressure panel (HPL), 70% cellulosic web and 30% phenolic resin

8 mm /10 mm

Protected exterior

Highly-compressed bonded wood-based panel

10 mm / 18 mm

Interior

Medium density fibreboard

10 mm / 19 mm / 30 mm

Interior

Oak Plywood with little knot, multilayered

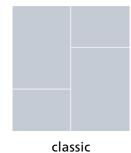
18 mm

FORMBOARD TOP PINE® is convincing with ecological aspects and breaking strength while being used in protected exterior applications, CELLON® offers decisive advantages in comparison with other materials for outdoor use. The extremely weather-proof, UV-resistant panels are very fracture-resistant compared with fibre cement. Compared to metal, CELLON® has the advantage of less expansion, a more natural haptics and lower weight and thus the possibility of thicker sheet material with more depth effect. CELLON® consists of 70% FSC certified cellulose fibres and is therefore wood-based, but thanks to its resin content, it has no shrinkage or swelling behaviour, which is very advantageous compared to wood.

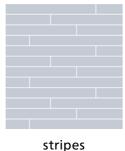
The materials we use for indoor applications are captivating with their naturalness and warmth. Due to the wood base the panel material gives a harmonious feeling of space. Thanks to the thick panel material of up to 30mm thickness, the designs also have a great depth effect. In addition to the advantage of the three-dimensional effect due to the thickness of the panel, the use of a 30 mm MDF panel also allows, for example, stair railings to be made without an additional substructure, i.e. self-supporting. In the case of acoustic solutions, thicker panels support the absorption of low tones.

Cutting Variants

Whether cut to size in classic (large-format panels), stripes (small-format panels) or design (perforated panels) style, each element is designed precisely according to your needs and cut with the laser according to your plans - whether rectangular, round or in other shapes.



large-format panels



small-format panels



design perforated panels

Design Options of Perforated Panels

Laser cutting makes it possible to provide the panels with a completely individual design. You can create your very own perforation at no extra charge. With your DXF or DWG file we implement your design idea in our production. As an alternative you can select a pattern from over 100 existing design types. Our various design collections have been completely adapted to the needs of the respective applications. For example, while openings in balcony railings should not be too large to prevent from being climbed, large openings in a facade look much better. For applications that do not have any special design requirements, such as partitions, wall panellings and acoustic solutions, you will find suitable design suggestions in our A collection.



A-Collection



B-Collection

especially for balcony balustrades & stair railings



F-Collection

especially for perforated facades



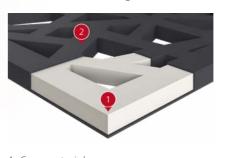
In a Aft UV cold interest Altered deco

INDEX 2050

Colours and Surfaces

In addition to the individuality of shapes, the colour options are also very broad. After the cutting process, the material is coated in one of over 3'000 possible UV-resistant colours (according to RAL, NCS S, IGP, DB or in special metallic colours). The edges of the panel are coated, too. For a natural appearance in the interior, the panels are also available in oak plywood with elegant black edges. Alternatively, CELLON® panels of certain quantity can be ordered with different decor surfaces (e.g. stone or wood look).

Panels with Coating



2 UV-resistant coating according to RAL or NCS S Edition 2 scale

Panels with Decor Surface



- 1 Core material
- 2 Decor laver
- 3 Transparent protective layer







CELLON® stripes, the small-format alternative for lively facade images. Whether it's a striped look or a striking pattern, the different laying methods and harmonious colour nuances allow freedom of design in terms of shape and colour. With CELLON® stripes you can create expressive architecture easily, quickly and cost-effectively.









Large-Format Facade Panels and Lettering Made of the Same Material

Bright green and striking yellow are the company colours of Neuteerbit AG in Salmsach. For planners and clients, it was therefore quickly clear what the company's new building should look like. Not only the colour options of Bruag products, which allow the implementation of the facade panels exactly in identity of the company logo even with small quantities, convinced the architect to plan his facade with CELLON® panels. The possibility of using the same material for the yellow facade band with round ends, which is important for the architecture of the building, including the suspended logo, were also decisive points. Corporate identity down to the last detail - easy and budget-friendly to implement in cooperation between the architecture and production partner Bruag.

03.

Perforated Facades

Do you want a building that is as individual as its residents and orientation? Are you looking for options for an extraordinary, unique facade?

Then you have now found what you are looking for. Our filigree, perforated facade elements transform every building into a special, distinctive object. The laser cutting technology enables us to realise your individual wishes. Choose an ornament from our design collection specially developed for perforated facades or send us your own ideas.

The possibility of designing the facade with a design that is not interrupted at each edge of the panel, but runs smoothly across all elements, creates an architectural generosity in the building.



CELLON® design

A flagship project in the region. The perforated facade complemented with lighting as an eye-catcher.



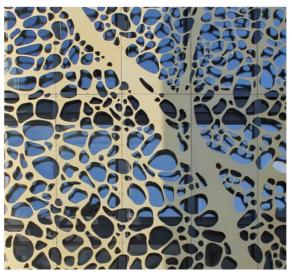














Human Being at the Heart of Architecture

The most striking building of Malans combines the best medical care with modern infrastructure. Sun protection and light source in a very special way: the team of architects from the Ritter Schumacher AG has created a design for the most distinctive part of the facade, which is not only unique, but also directly relates to the purpose of the new building. As with the specialists working in the Medical Centre, the focus of the facade and the acoustic solution on the interior ceiling is also on human beings. On the building, this is symbolically represented in delicate oversized muscle sections, which were implemented by Bruag in the material CELLON® and MDF on the basis of the architects' plans. "I was surprised at how easy it was for Bruag to transfer my drawing to the laser program and how smooth everything was until delivery," praises architect Markus Wolf.

Balcony Railings

You are searching for a stylish, semi-transparent solution for balcony railings? Would you like a view, but not too many insights at the same time?

Then you will find the solution for your railings in CELLON®. Due to the complete freedom of design, the permeability of the balcony balustrade can be individually adapted to your wishes. On the one hand, you can choose from over 100 design options from us, or you can create something of your own that harmonises ideally with the environment of the building. We would be happy to help you and work with you to develop balcony railings that cannot be seen anywhere else.

In addition to the free choice of design, a gradients from bottom to top across the panel is often desired. For example, the lower part of the balustrade can be produced without perforations, while the upper part of the panel is more open. For as little insight from the street as possible, but as much view as possible from the balcony.

CELLON® design / classic



Not closed and not fully transparent.

Semi-transparency combined with a clear architectural

expression without annoying frame interruptions.















From the Design Idea to the Finished Product - a Close Cooperation Between Architect and Bruag

With some reference pictures of what the balcony railings could look like and the indication that the client wanted something "organic", the collaboration between the architect and Bruag started for this residential property. Based on these guiding principles, our design department developed new unique perforation patterns, which they presented to the client using a visualisation, thus simplifying the decision-making process. The chosen design was stylishly implemented over the entire balcony parapets of the building and accentuates the facade impressively. Another advantage of the customised design is to close the panel in areas in front of the concrete slabs to cover dirt and algae.







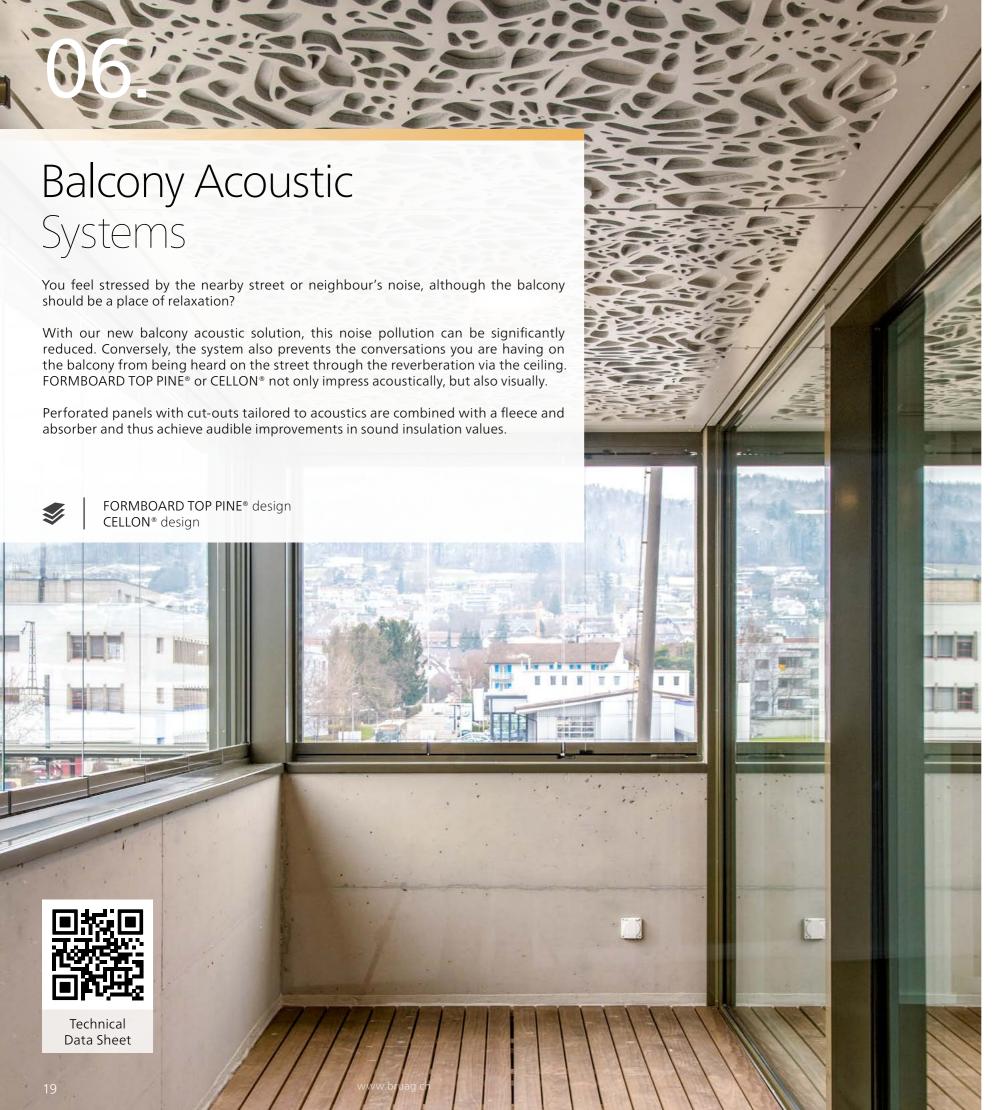






Perforated Sliding Shutters as Visual and Functional Highlights on the Facade

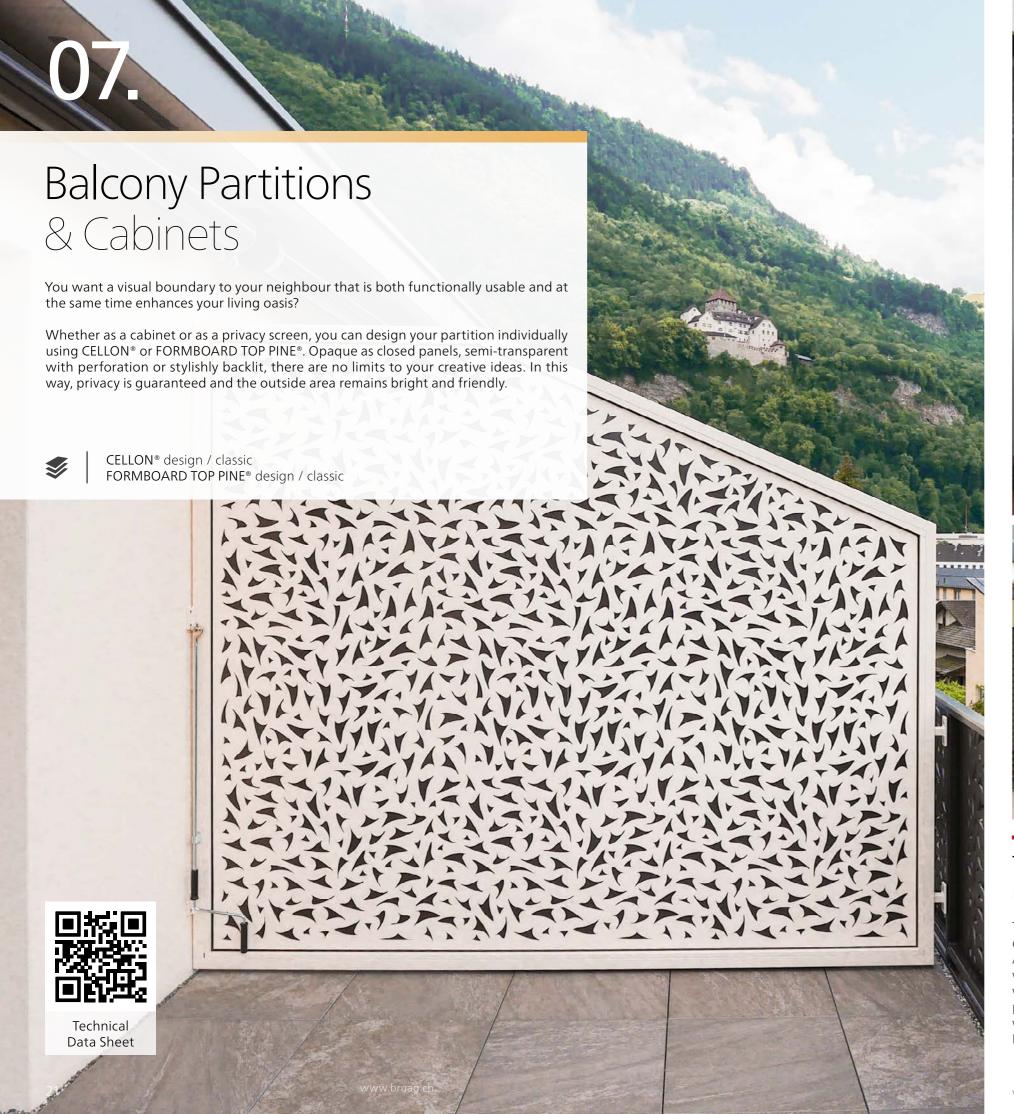
The simple cubature and the wooden facade integrate the single-family house harmoniously into the townscape. Perforated, electric sliding elements from Bruag as selective highlights make the facade interesting without being overwhelming. They ensure a special ambience day and night. During the day, the sun's rays find their way through the imaginative perforation pattern and create an interesting play of shapes on the inside. In the darkness, the exciting play of light and shadow penetrates to the outside.





Perforated Panels as a Problem Solver in an Urban Context

Structural measures for sound absorption are increasingly becoming an official requirement in the approval process. Located directly on a busy street, this project in Winterthur had to meet the higher requirements for sound absorption. In their search for suitable solutions to achieve high sound absorption with a small absorption area, the planners came across Bruag. By choosing a design with an open area of more than 45%, the required α value was easily achieved and the requirements were met. This not only solved the acoustic problems, but also set design accents at the same time.

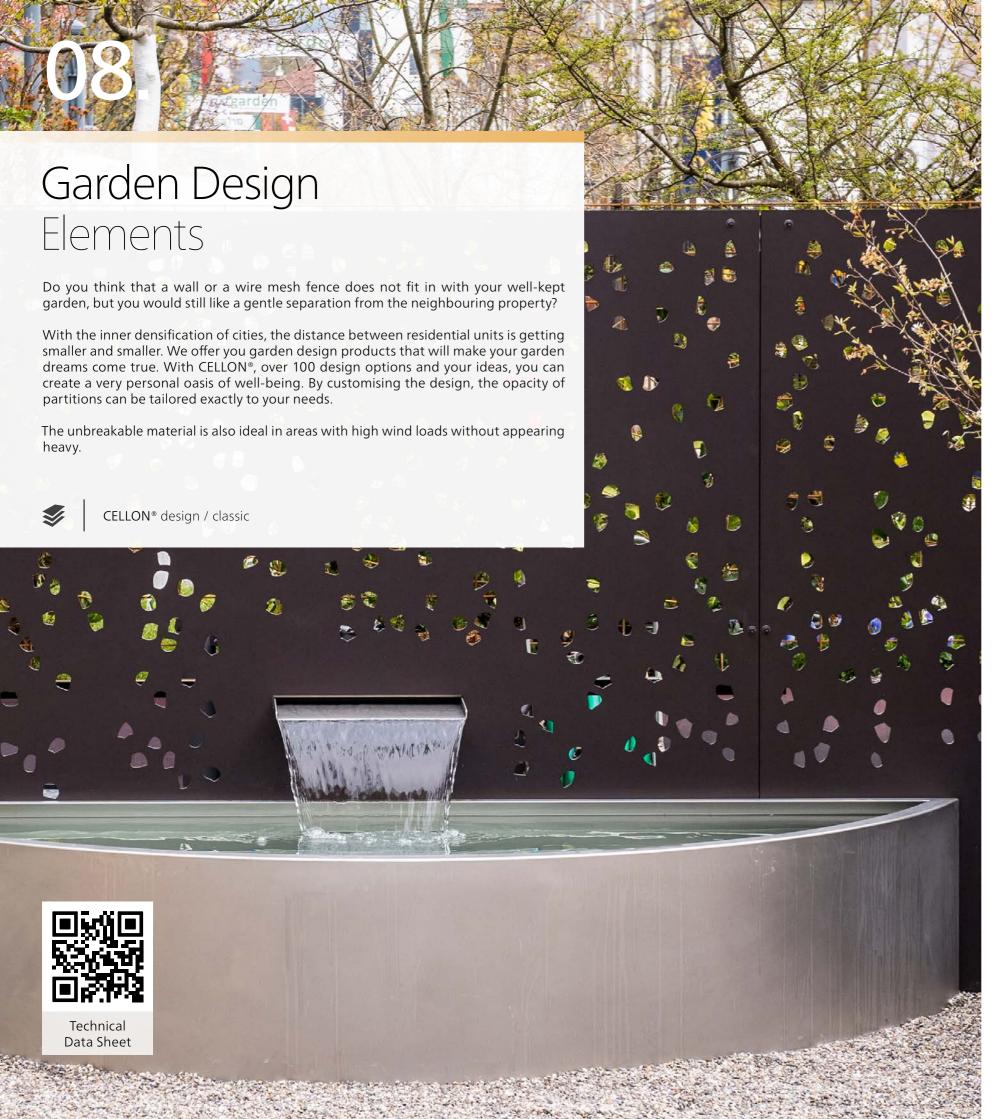






The Apple Trees of the Surroundings Harmoniously Integrated into Different Building Materials

The various application and material options for Bruag products were ideally exploited during the planning and implementation of the Hotel Golfpanorama in Lipperswil. As a motif for the balcony partitions and wall cladding in the wellness area, a design was chosen that is based on the apple trees that surround the hotel. In addition, care was taken to ensure that the selected perforation is translucent but not too transparent, so that the balcony partitions appear light while still guaranteeing privacy. The whole thing was supplemented with yellow external reduit cabinet cladding made of FORMBOARD TOP PINE®.

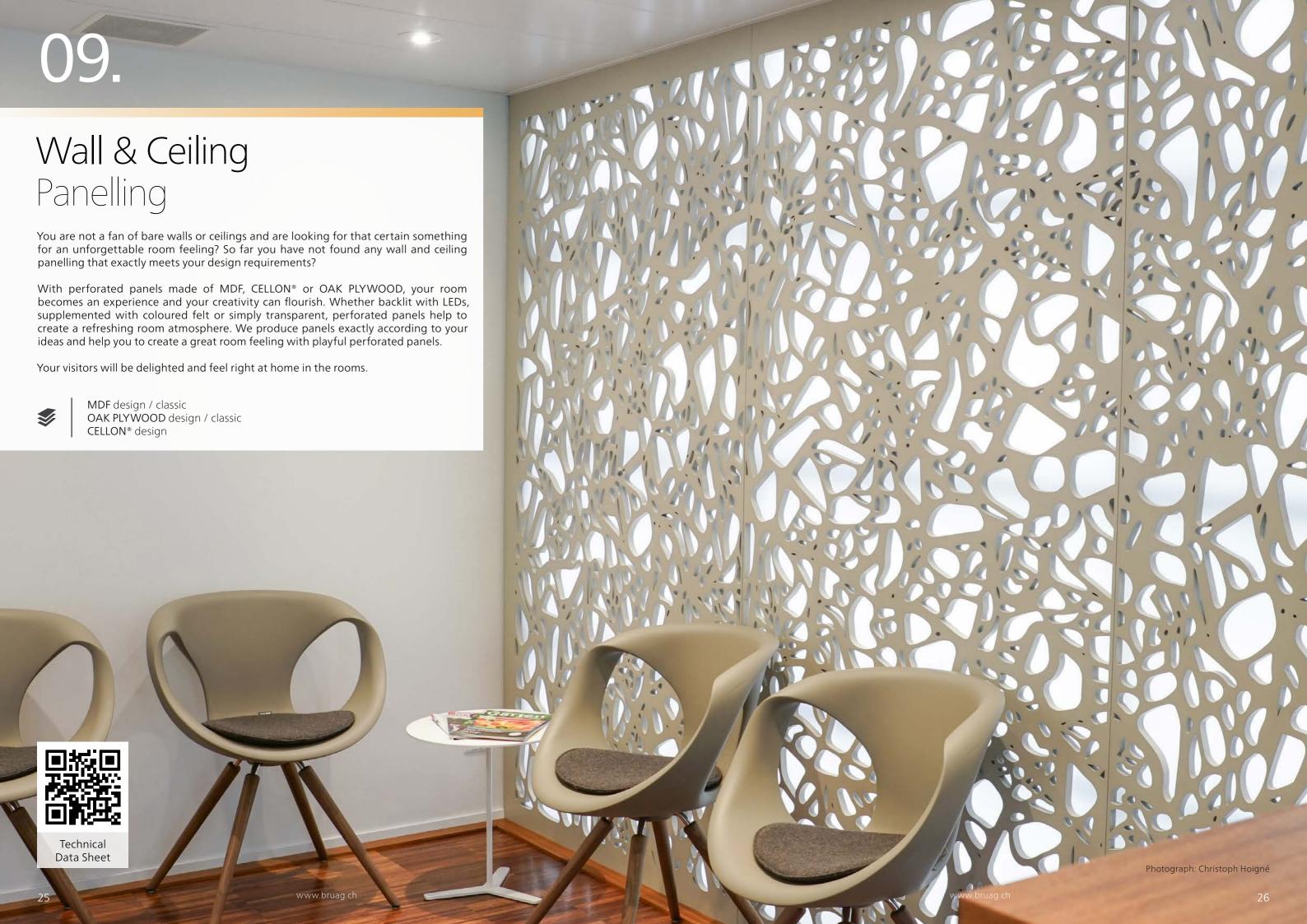






Take up Motifs from the Surrounding Area and Integrate them into the Garden Privacy Screens

At the beginning of this project, the garden designer visited Bruag to discuss possibilities for the exterior of this family home. Curved shapes were desired instead of rectangular panels and a perforation that ideally integrates into the wheat fields surrounding the house. After this exchange, the Bruag design team worked out various proposals, which were visualised for the gardener and the client. The basic idea was to create a double-layered garden partition wall with a perforated front and a closed rear panel with LED lighting in the middle. In the end, one of the design templates was implemented with a curved shape, single-layered, so that the perforation could also be seen from the garden seating area.







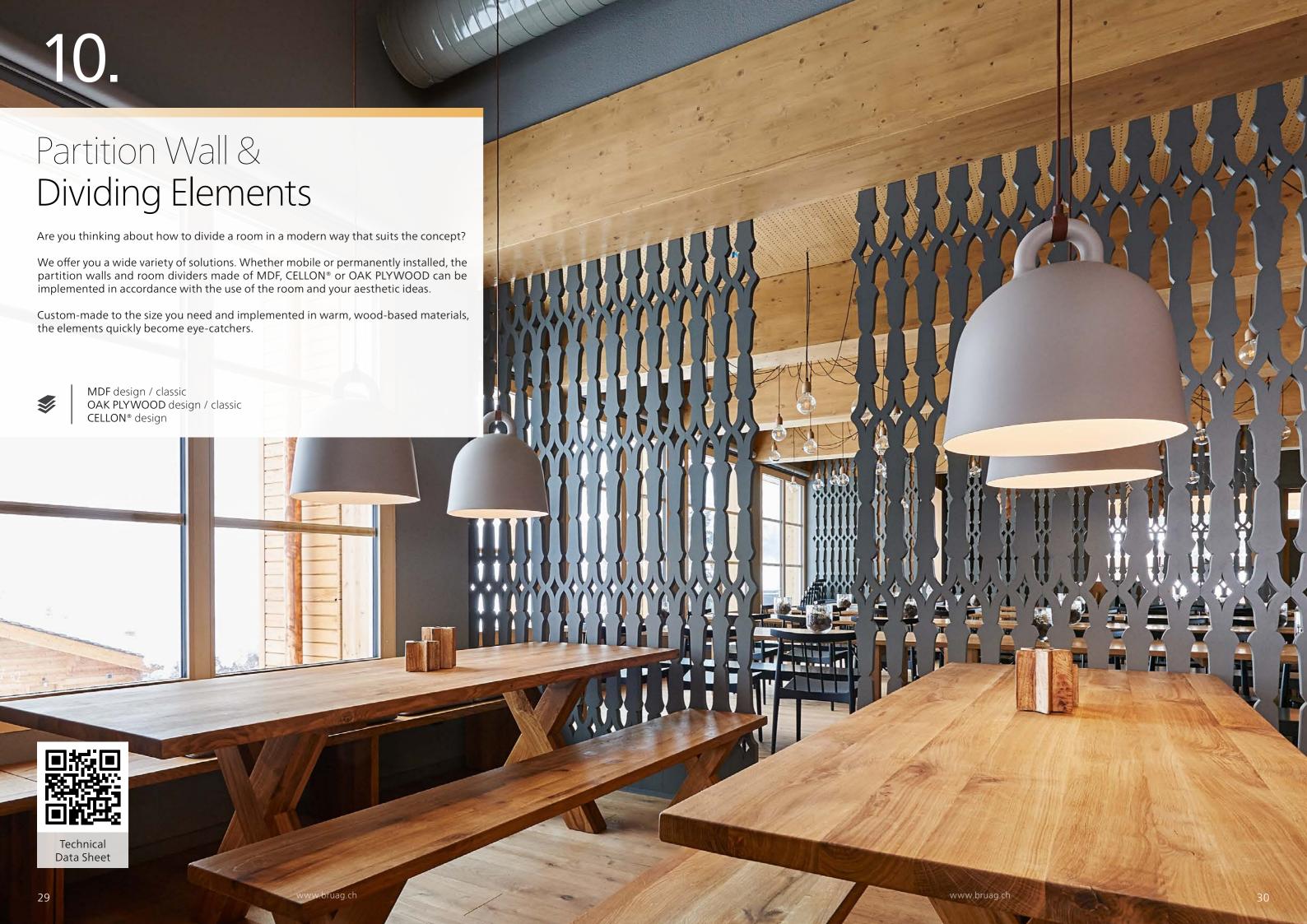






Wall Panelling Made to Measure - Including Completely Individual Cut-outs

When considering the design of entrance areas, the focus is often on making visitors feel comfortable from the first moment. With these considerations in mind, the planning office of this object saw a very open, light design by Bruag combined with soft backlighting as the ideal solution for the wall cladding. In addition to the complete freedom of design, planners and craftsmen alike also benefit from Bruag's flexible cutting options. This means that any installation-related recesses or cut-outs for lights, loudspeakers or the like can already be taken into account with precision in the cutting of the panel material, as this example impressively shows.







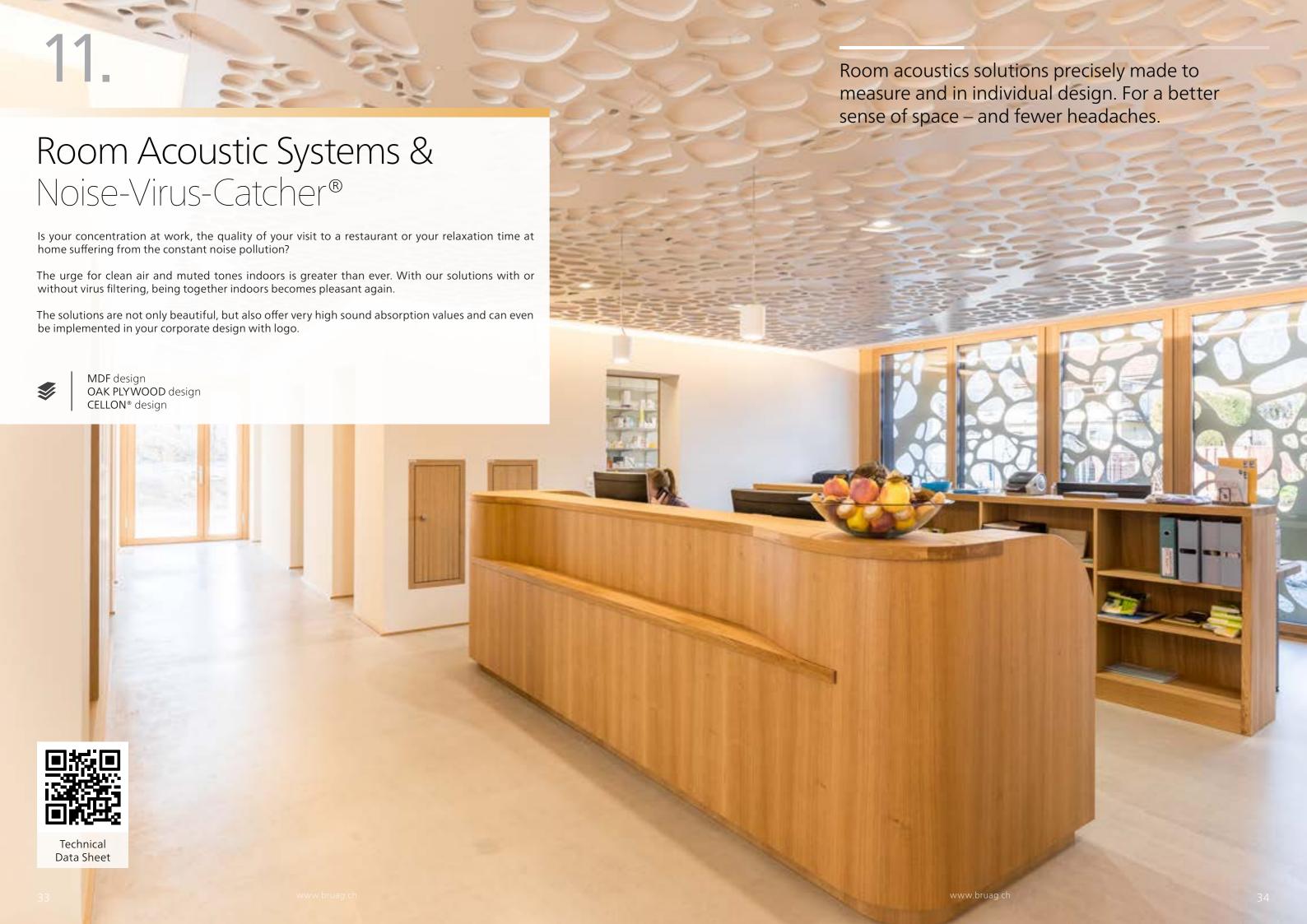






Curved, Perforated Wall Cladding as a Reference to the Swiss Homeland

The Swiss embassy in Abu Dhabi is like Switzerland: modern and open. To give the premises in a prime location in Abu Dhabi additional character, the architects decided to use MDF from Bruag as double-sided room dividers. The panels are provided with an individual perforation in the form of snow crystals. Our flexibility is evident in this project not only in the implementation of the customised design, but also in the curved shape of the room partition. This was made possible thanks to a specially designed substructure. The connecting plates, which allow the MDF elements to bend, serve as a stability factor and are used as shelves at the same time.



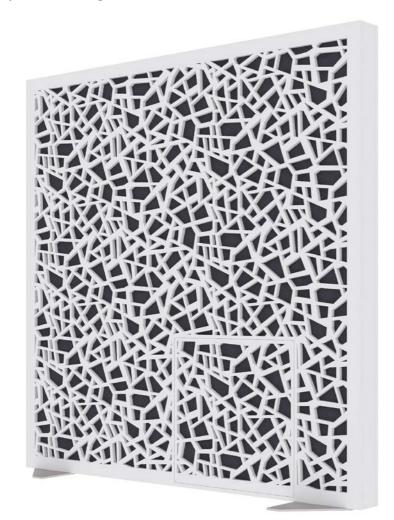






Noise-Virus-Catcher® - Design Element, Mobile Room Divider, Sound Absorber and Virus Filter at the Same Time

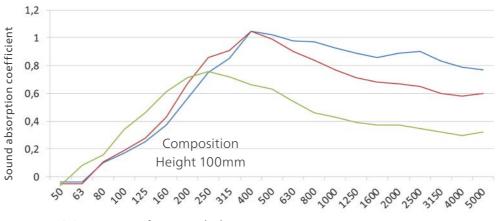
Acoustics, design and hygiene are ideally combined in this mobile room divider. With the Noise-Virus-Catcher®, the air in open-plan offices is continuously cleaned and freed from viruses, germs and pollen. At the same time, the modern, flexible mobile partition wall ensures perfect room acoustics and aesthetic added value. Developed together with a leading filter producer in the health industry and experienced doctors - for your well-being.





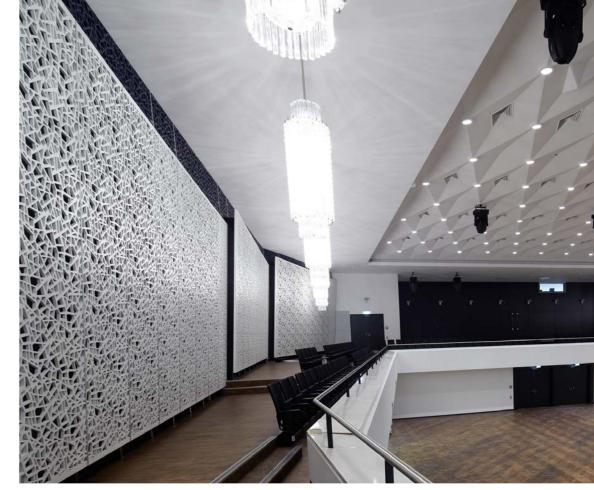
- 1 MDF design
- 4 Ventilation system
- 5 MDF design **3** Sound insulation
 - 6 Sub-frame
 - + Metal feet

Sound Absorption Values **Bruag Acoustic Systems**



1/3 Octave centre frequency (Hz)

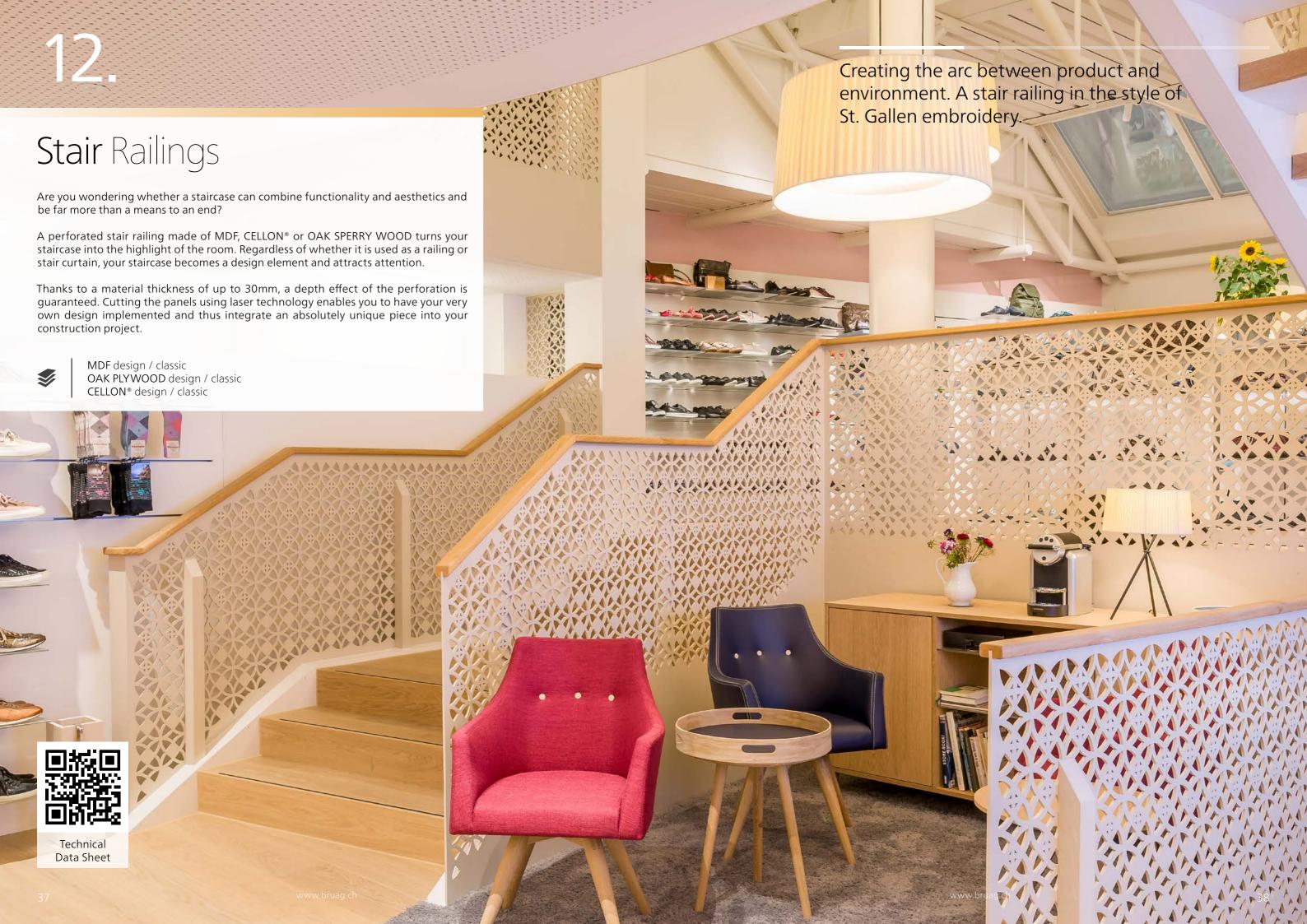
40% open surfaces / KI A_αw=0.90_NRC=0.90 20% open surfaces / KI C_αw=0.70_NRC=0.80 8% open surfaces / KI D_αw=0.40_NRC=0.55

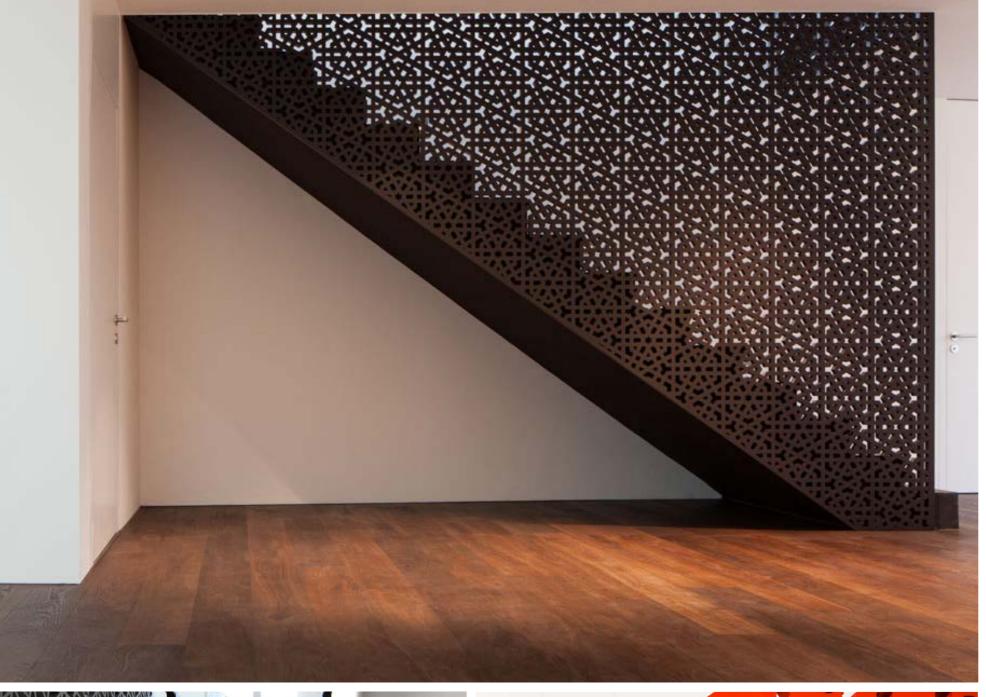


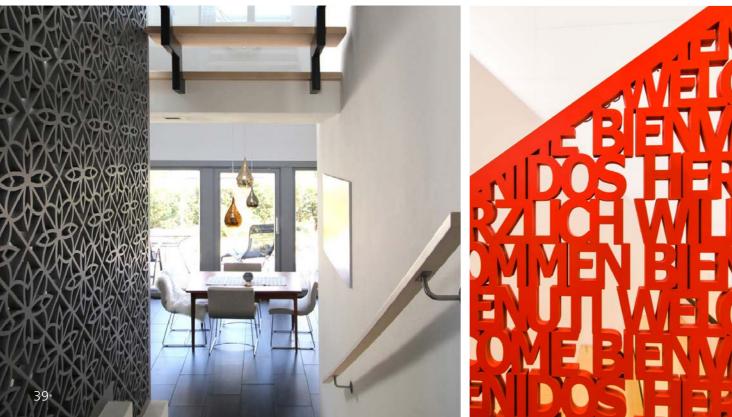


The Acoustician's Requirements Implemented with an Open Perforation Area of 58 Percent

The planners of the congress centre in Koblenz approached Bruag with a special request. The large hall, which has very different acoustic requirements depending on the event, had to be clad with elements that had exactly 58 percent open area. The acoustician of the project had calculated this. With a heavy curtain behind the wall cladding, which is closed or open depending on the event, the general conditions can be adapted to the respective event. The architects found it very difficult to find a material that was still stable and affordable despite so much open space. Without further ado, an existing design was adapted by the Bruag architecture team in such a way that it showed the appropriate degree of transparency.













More Character for a Staircase

There is no second chance for a first impression. After all, stair railings are often the first thing people notice in a house. In the present project, the flexible production possibilities were fully utilized. The continuous perforation over several large panels fits the generosity of the entire room design and the chosen design with a lot of open space creates wonderful light and shadow effects. The contrast of the natural wooden floor with the simple elegance of the white railings is also striking.



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