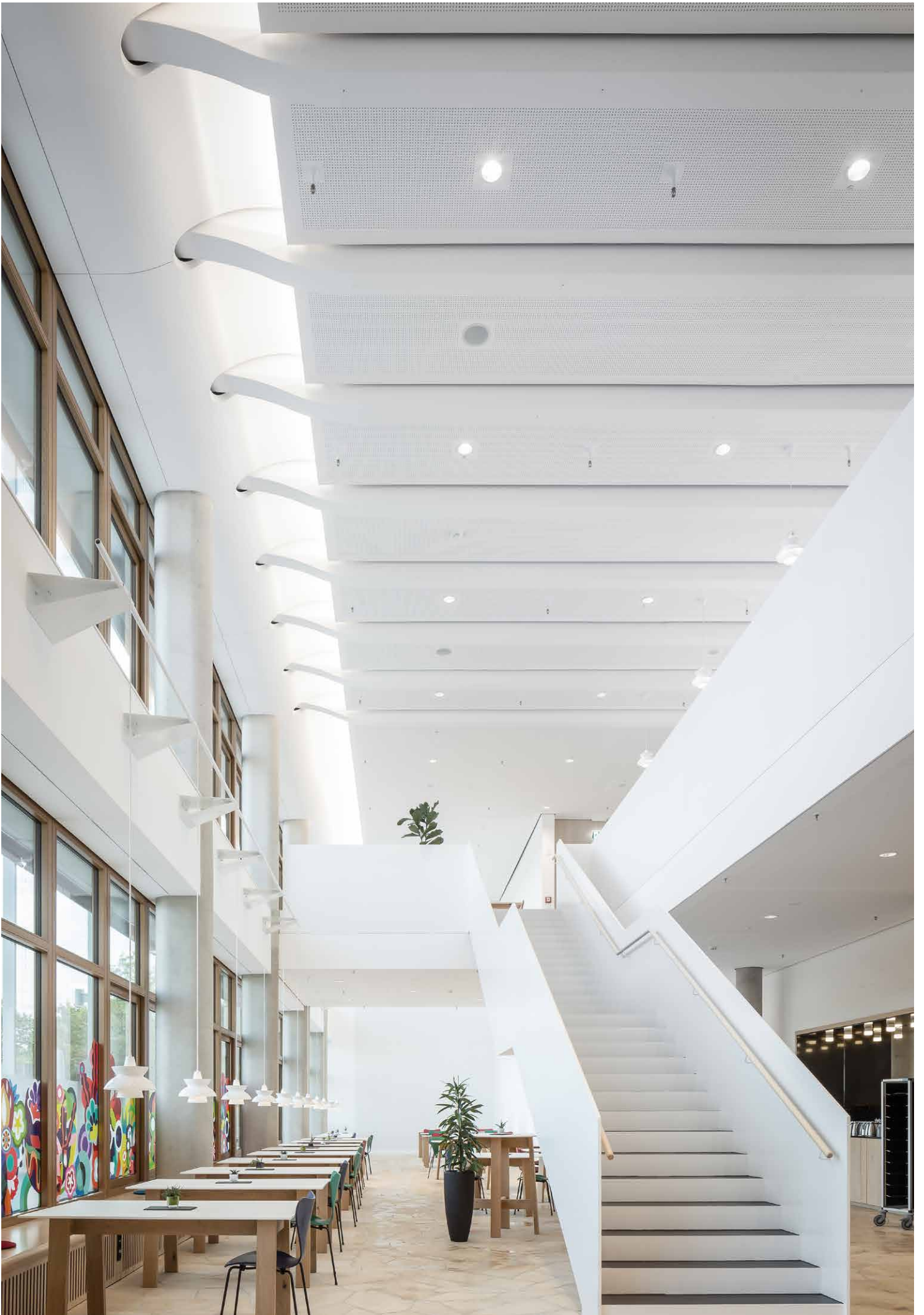


Moulded Components & 3D Design

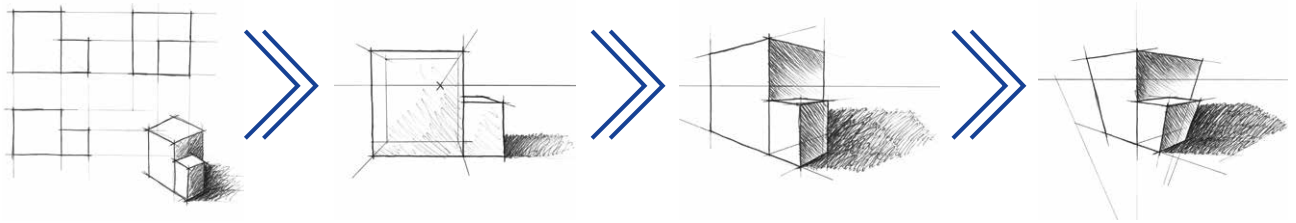


Absolute precision
in every dimension





From the schematic sketch to the detailed structure

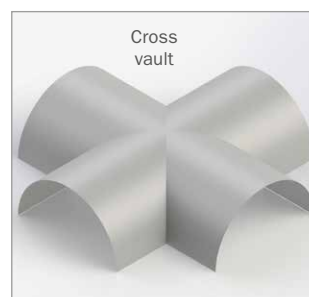
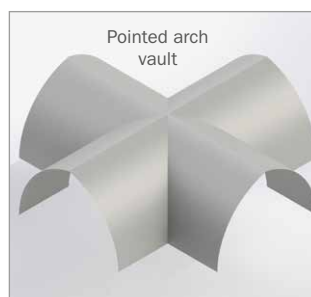
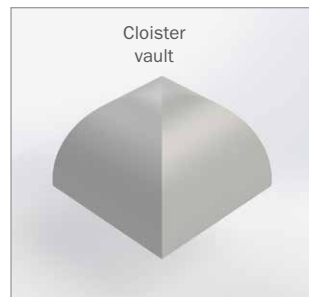
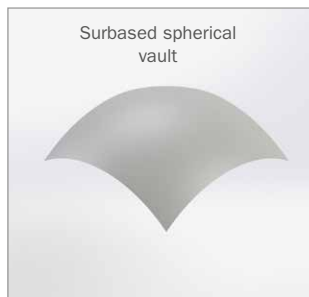


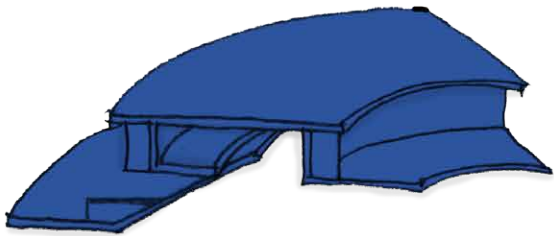
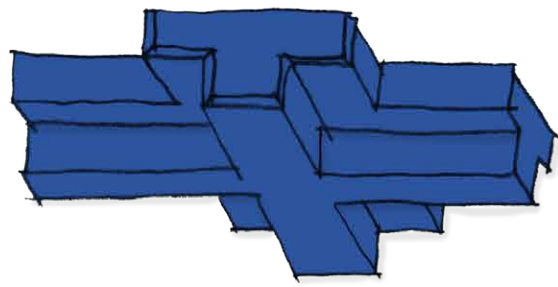
We offer ready-to-use components and customised solutions tailored to your vision and design. With almost limitless creative possibilities, from simple geometric forms to intricate three-dimensional shapes, you'll receive precisely fitted modules or bespoke components to meet any need. Our precision pre-fabricated components and 3D solutions ensure quicker installation without compromising the quality of the final result.

Additionally, we tailor our gypsum and gypsum fibre structures, along with their substructures, to fit your budget and specific needs. Whether it's precisely milled linear components or intricate ceiling and vaulted designs, we can provide the perfect solution to meet your unique requirements.

Your benefits:

- Comprehensive support throughout the process
- Bespoke solutions to match your planning needs
- Expert assistance at every stage of the project
- Versatile designs with ideal shaping for any concept
- Streamlined and efficient assembly and installation







Comprehensive support in every project stage

We support you at every stage of the project.

We deliver practice-oriented solutions and perfect job site logistics.



Planning & Development

We collaborate with you to generate innovative ideas, provide design recommendations, and refine detailed designs. If required, we can also offer price estimates to support your planning process.



Submittal & Approval

We assist you by providing comprehensive technical documentation and verifying material properties to ensure compliance and approval.



Engineering & Consulting

We handle the detailed technical development of ceiling concepts, including installation plans, 3D CAD modelling, and precise detailed drawings.



Tendering & Award

We prepare comprehensive tender documentation, craft detailed service specifications, and check any technical alternatives with precision.



Execution & Service

We provide a high degree of pre-fabrication and ensure site-specific delivery. Additionally, we coordinate with specialist contractors and offer on-site training for installers.



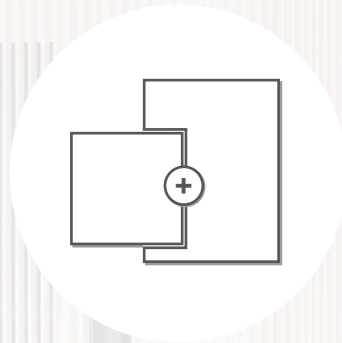
Advantages

Prefabricated moulded components & 3D design structures



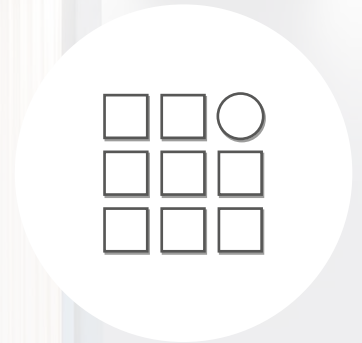
TIME-SAVING ASSEMBLY

We design our moulded components with meticulous attention to detail, customising them to fit the installation environment, adjacent components, on-site conditions, and element sizes. The high level of prefabrication ensures a significant time saving during assembly.



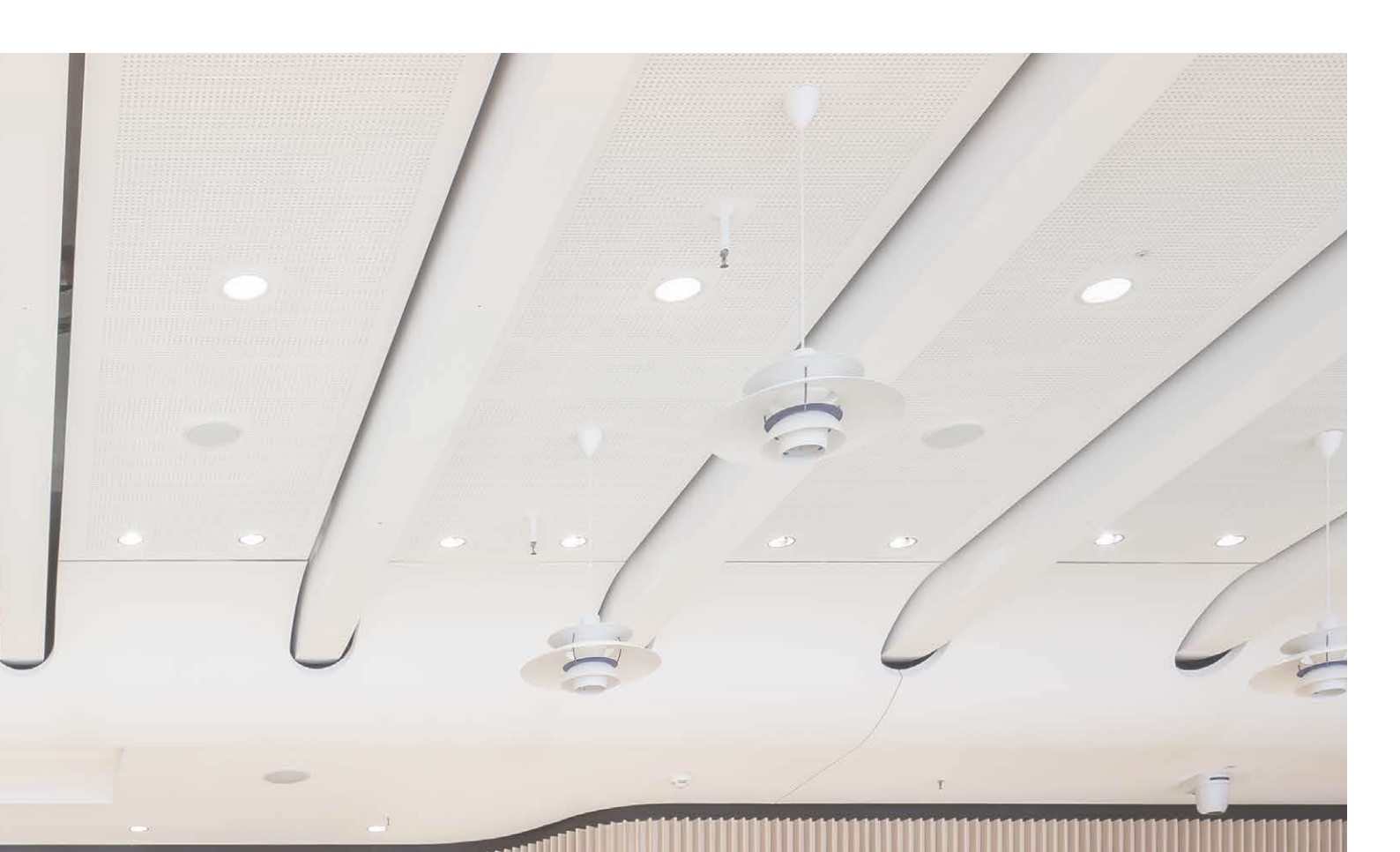
SEAMLESS INTEGRATION

Moulded components made from gypsum and gypsum fiberboard can be easily combined with standard drywall elements, without the need for additional interfaces. They provide a prefabricated solution for complex shapes, perfectly complementing standardised drywall construction right down to the finest detail.



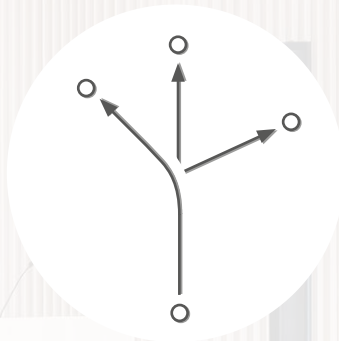
INDIVIDUAL

With a wide range of structure types and panel materials, our moulded components and 3D solutions offer unlimited design possibilities. Whether moulded components or intricate 3D structures, they can always be fully customised to meet your specific requirements.



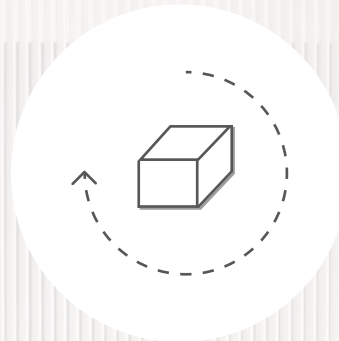
DECORATIVE COATINGS

Our moulded components and 3D solutions are primed on-site, just like standard drywall panels, and are then ready for an appropriate surface finish for a flawless final appearance.



DESIGN FLEXIBILITY

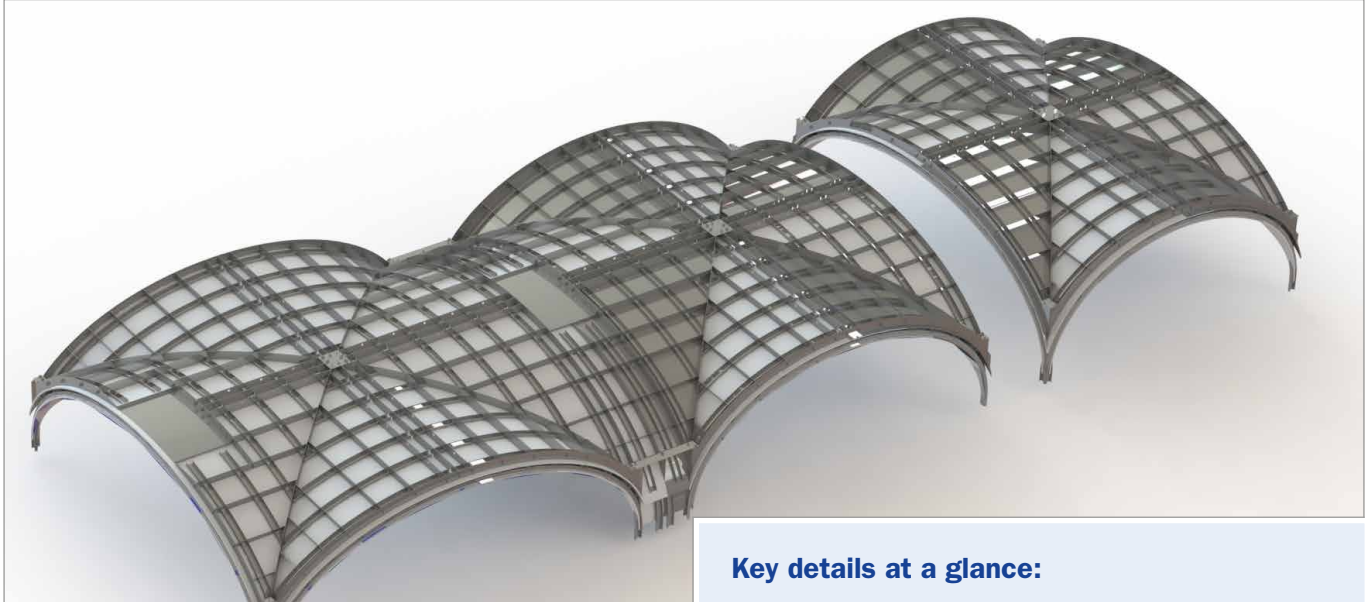
Moulded components and 3D design solutions from Vogl Deckensysteme can be easily customised to meet your specific needs. Whether it's suitability for damp areas or meeting higher building material class requirements, we design the structure to perfectly match your specifications.



COMPREHENSIVE ASSURANCE

We guide you through every stage of your project, from the initial concept to the detailed development of a tailored solution. If requirements or dimensions change during the process, we adjust our design to align with your specifications and create an optimal overall concept.

Cross vault Gypsum & steel construction



Key details at a glance:

- Substructure meticulously planned and prefabricated, with modular pre-assembly
- Detailed planning of connection and finishing elements
- Consideration of penetrations and service installations
- Integration of customised solutions with standard drywall materials
- Tailored solutions for both absorbent and reflective needs

Cross vaults are commonly seen in architectural designs of historic and prestigious public buildings. During renovations, contractors often face the challenge of dismantling old structures and rebuilding them to the same design while incorporating additional technical features. In such cases, 3D structures provide a proven solution for precise fitting and prefabricating the vault's surface structures, ensuring the original aesthetic of the space is preserved.



3D parapet panelling

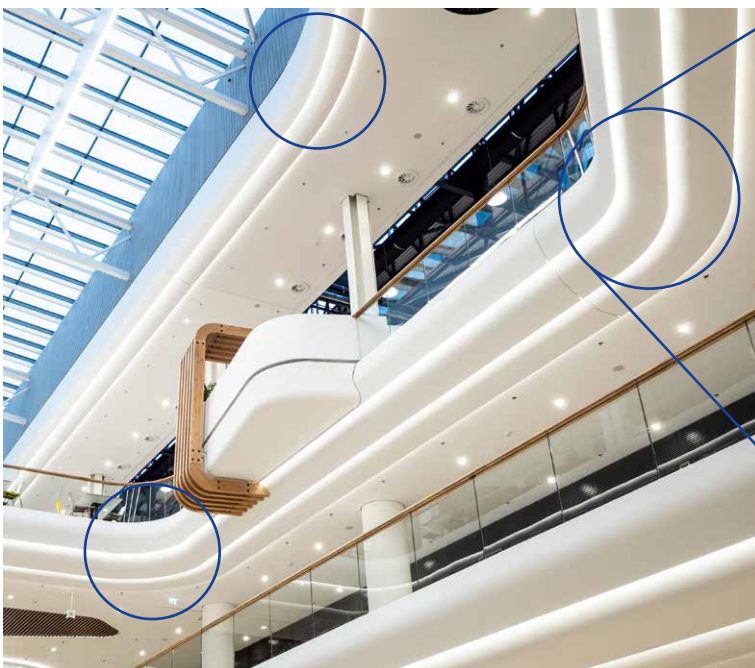
Gypsum & wood-based material



Key details at a glance:

- Moulded components with a three-part cross-section, each reinforced with a shaping frame structure
- Cantilever design to accommodate indirect lighting along the lower edge of each “scale”
- Structural variability to accommodate varying arch lengths in the project
- Suitable for both linear and curved contours

This construction project presented unique challenges, primarily due to the logistical coordination of the various moulded components for approximately 30 gallery openings over four floors. The components—comprising three rounded sections in cross-section, with splayed edges for LED strip integration for indirect lighting—were prefabricated as individual pieces from gypsum plasterboard, each reinforced with a frame on the back. These pieces were then assembled on-site into complete modules.



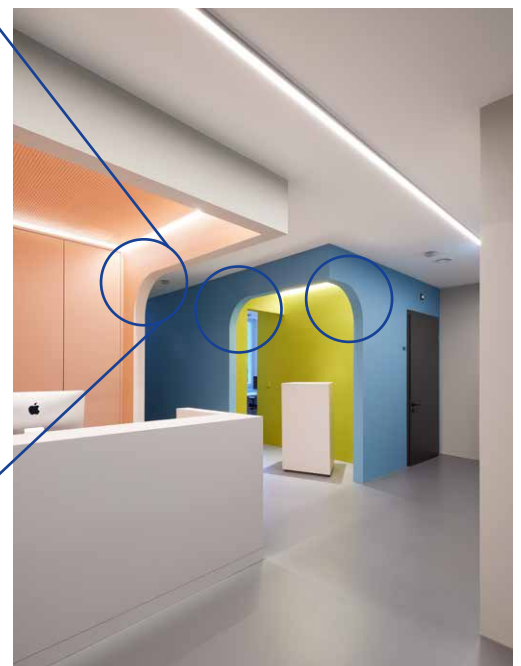
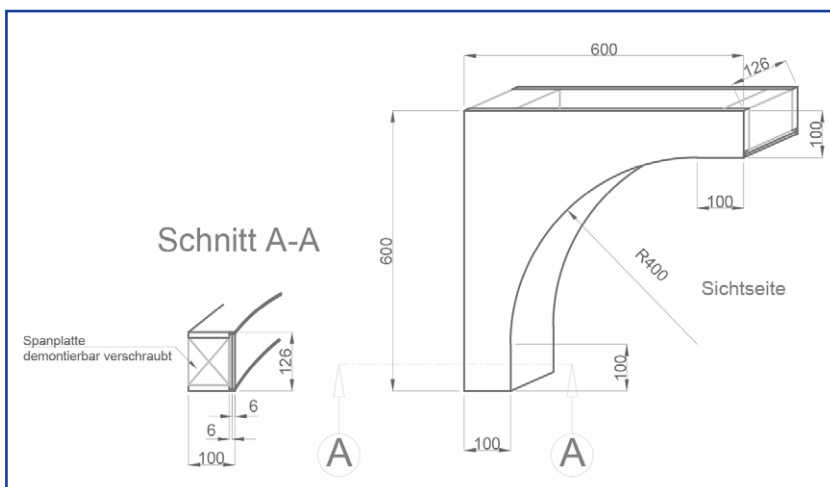
2D moulded components for niches Gypsum & wood-based material



The floor plan concept of this practice stands out with its strategically placed niches, featuring clean, precise lines and carefully planned transitions from vertical to horizontal curves. We designed and developed custom components to perfectly match these features, then prefabricated them into easy-to-assemble modules. The high degree of prefabrication ensured precise, sharp bends in the portal passages, resulting in significant time savings during assembly and an overall optimised construction process on-site.

Key details at a glance:

- Exact replication of the architect's designed shaping for the niches
- Moulded components create smooth, tangential transitions for the drywall constructions
- Seamless integration with standard drywall systems
- Structural design variability to accommodate deviating dimensions



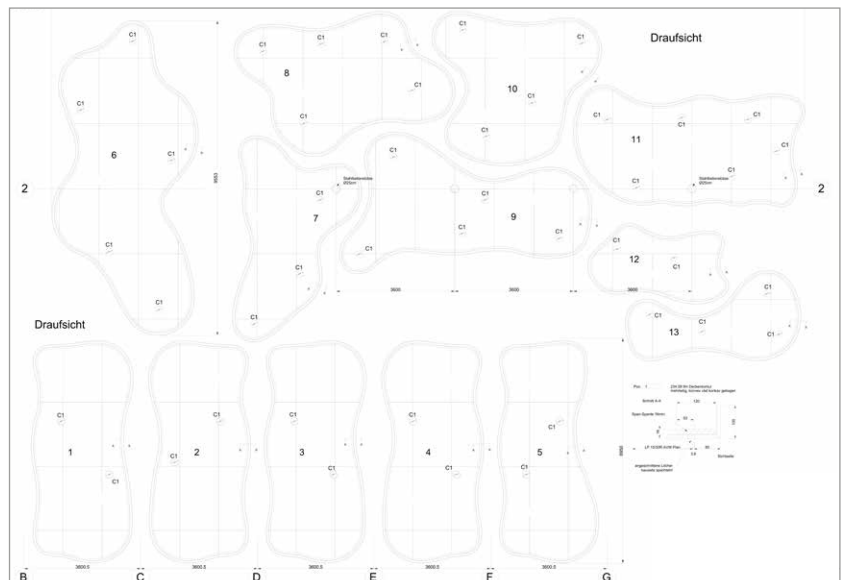
2D rounded floating ceiling Gypsum & substructure



Key details at a glance:

- Detailed planning for floating ceilings with irregularly curved contours
- Coordinated cuts from acoustic panels, combined with prefabricated moulded components, create a seamless, cohesive design
- The unperforated organic contoured perimeter was precisely defined and executed

In interior design, floating ceilings provide an opportunity to enhance both the acoustics and aesthetics of existing room structures. The design possibilities are virtually limitless, as acoustically effective horizontal floating ceilings are not confined to rectangular or polygonal shapes. Curved and tangential contours can create intentional breaks in square room layouts, adding both structural depth and visual appeal. These dynamic shapes not only enhance the space functionally but also elevate its overall aesthetic.



3D element for indirect lighting

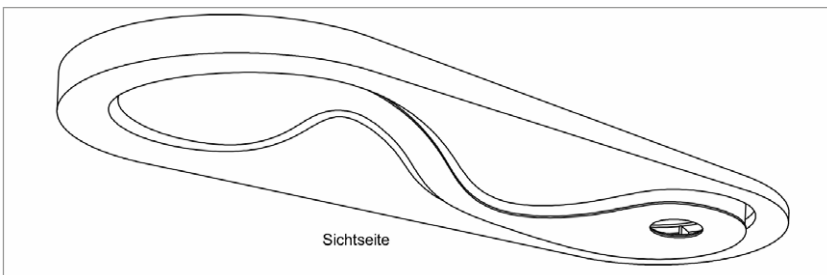
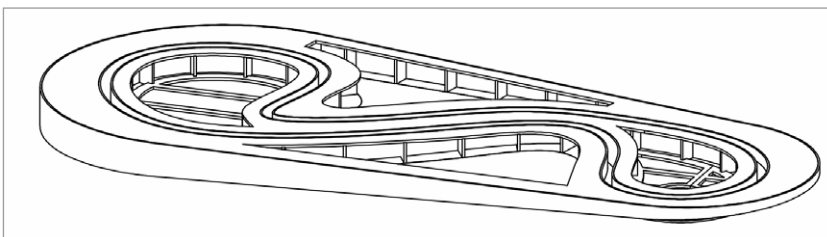
Gypsum & wood-based material



Key details at a glance:

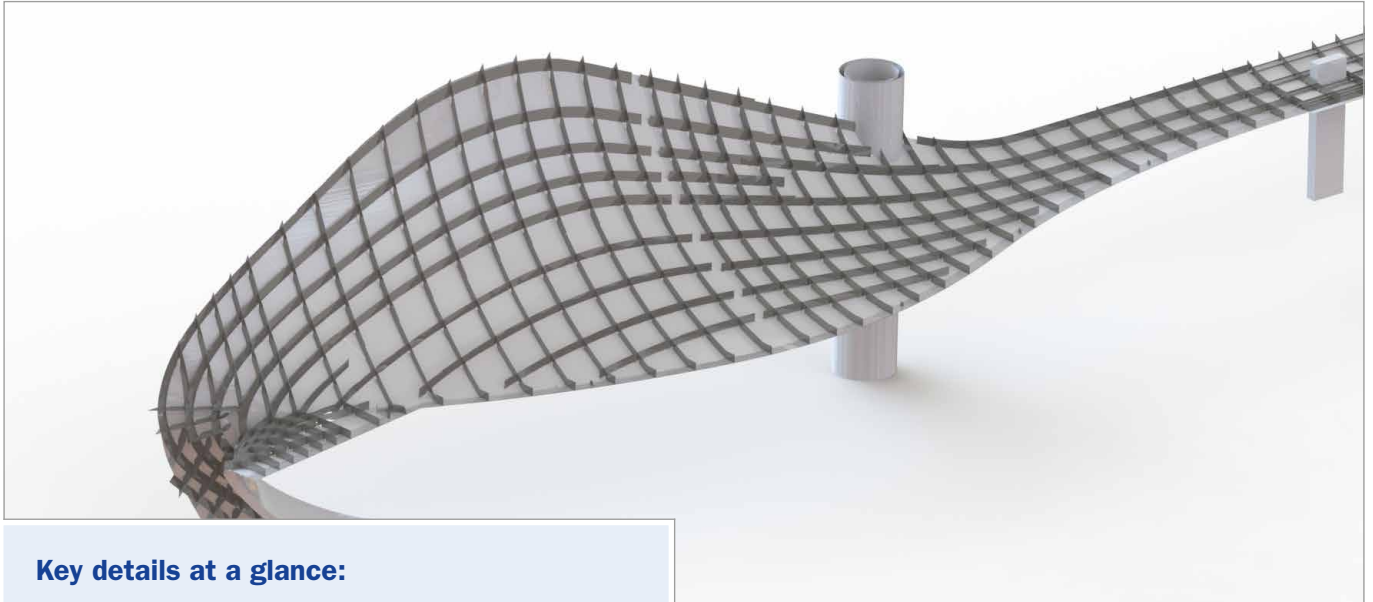
- Prefabricated, site-compatible moulded component structure with multiple levels
- Clean, precise edges for creating an indirectly illuminated separation between surfaces
- Easy-to-assemble, time-saving modules
- Custom-fit moulded component designs for a seamless installation

Gypsum based board structures provide a wide range of design possibilities. With 2D and 3D design capabilities, even complex interlocking structures can be created from panel materials. In the case of this moulded component structure above a counter, the key advantage for the specialist contractor was the ability to prefabricate the structure to the highest degree. Additionally, the design, including an integrated light coffer for indirect lighting, could be factory-coordinated, ensuring a seamless and efficient installation process.



3D structure façade connection

Gypsum & steel construction



Key details at a glance:

- 3D moulded component of a freeform surface serving as a connecting element between a horizontal interior ceiling and a rounded window in the façade
- Sheet steel substructure delivered as pre-assembled modules
- Panelling unrolled and matched with the substructure's grid
- 3D surface design seamlessly integrated with the substructure

In interior design, irregularly curved and sweeping ceiling structures not only serve as a striking design element but also offer the opportunity to extend the rounded contours of the façade into the interior, creating a cohesive visual flow. The design possibilities for these structures are virtually limitless, as both three-dimensional surfaces and linear, curved forms can be custom-designed and prefabricated using tailored 3D designs, ensuring ease of assembly and a seamless integration into the space.



3D moulded components

Gypsum & steel construction



This project was executed using dimensionally stable modules made of steel frames, chosen in part to meet fire protection requirements. These modules were pre-fitted at the factory with brackets for lighting fixtures and notches for CD profiles and the on-site curtain rail. The components were installed around the girders using installation templates, and the varying linear sections between the girders were then connected with CD profiles.

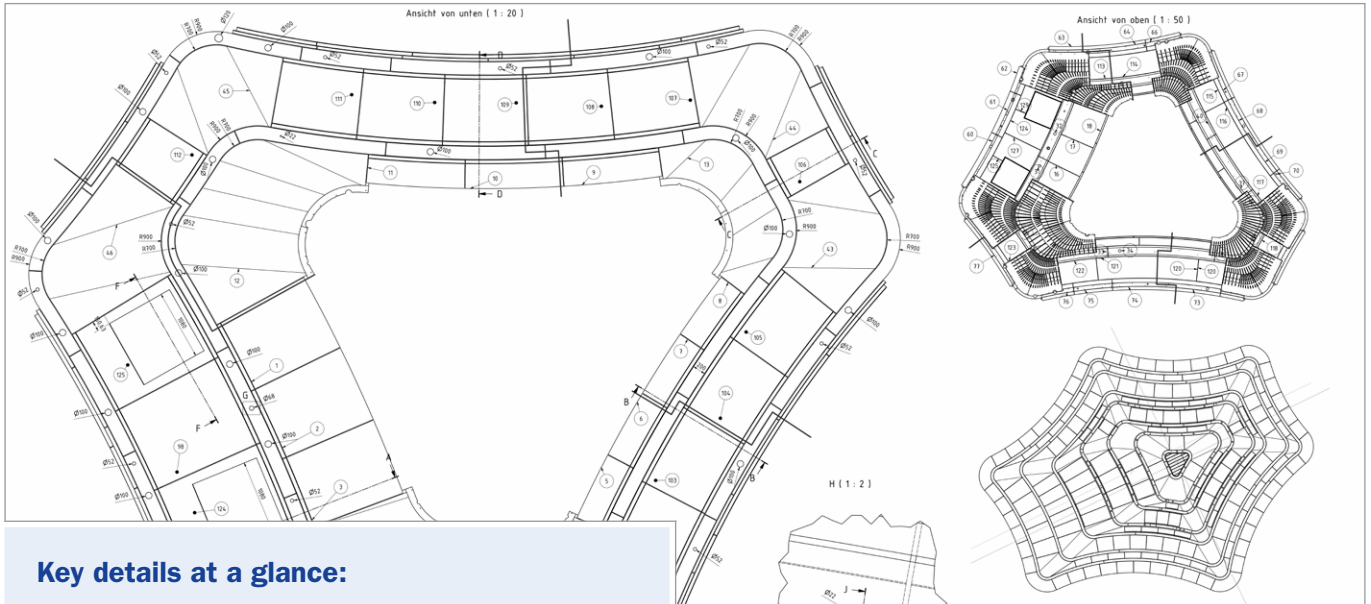
Key details at a glance:

- Moulded components with a custom-designed substructure made of sheet steel and CD profiles, connecting the ceiling and façade contours
- Prefabricated cut-outs with an upstand to support the girders within the project
- Flexible design that aligns both linearly and precisely along the girders, providing on-site adaptability



3D ceiling structure

Gypsum fibre & steel structure



Key details at a glance:

- Moulded components with a custom-designed substructure made of sheet steel and CD profiles, connecting the ceiling and façade contours
- Prefabricated cut-outs with an upstand to support the girders within the project
- Flexible design that aligns both linearly and precisely along the girders, providing on-site adaptability

The amorphous shape of the ceiling in this project features 3D-molded surfaces, seamlessly connected by circumferential rings at varying heights to create a continuous wave pattern with exposed joints. Prefabricated moulded components made from gypsum fibreboard, each with rear frames, form the distinct sections of the ceiling. When combined with sloping elements in two layers to achieve the desired surface weight and joint pattern, the result is a unique and unparalleled ceiling structure.



2D floral ornaments

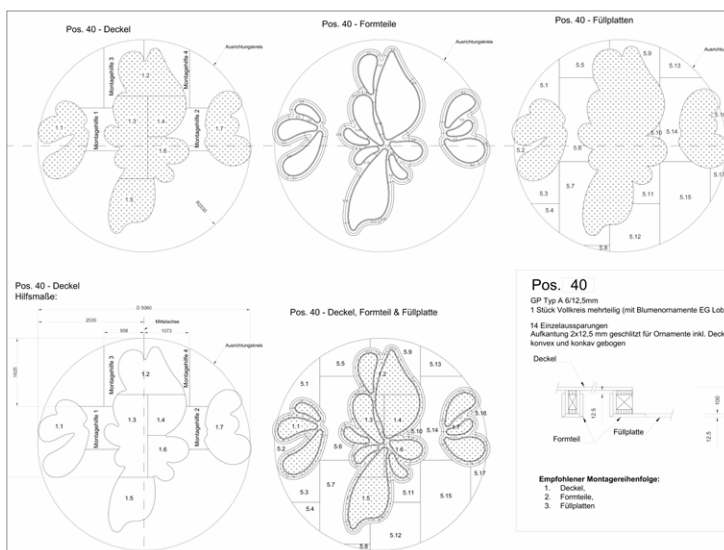
Gypsum & wood-based material



Key details at a glance:

- Horizontally moulded components with intricate contours, prefabricated in the factory and easy to assemble on site
- Precise transitions between partial elements, seamlessly connecting adjacent components through stepped rebates
- Organic contours, carefully crafted as moulded components, designed to replicate a flower structure

Moulded components offer versatile integration options in both interior and ceiling design. Whether two- or three-dimensional, these structures serve as valuable elements for spatial zoning, the integration of technical components, or purely decorative purposes. In the case of curved shapes, prefabricated moulded components provide a cost-effective, easy-to-install solution that would otherwise be difficult and costly to achieve on-site.



Rounded 3D panelling

Gypsum & wood-based material



Key details at a glance:

- Prefabricated moulded components for precise contours
- Support of the room concept through consciously defined shapes
- Opening of the floor plan concept between the floors by means of a splayed cross-section
- Easy-to-install modules for ideal moulding results and time-saving installation

Shopping centres, with their wide variety of retail, food and beverage outlets, can create a sensory overload for visitors. To counter this, it's essential to break up the flow in the transition areas and highlight them with a thoughtfully chosen design. Moulded components provide an ideal solution for defining gallery openings between floors and for effectively zoning spaces.



Gridded 3D ceilings

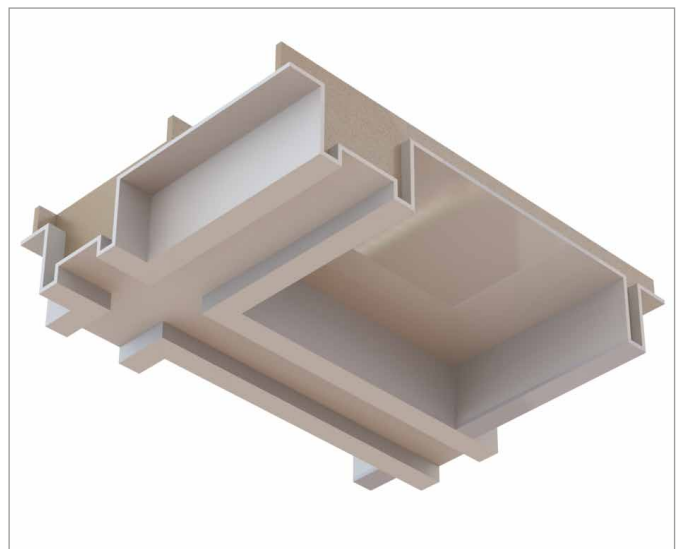
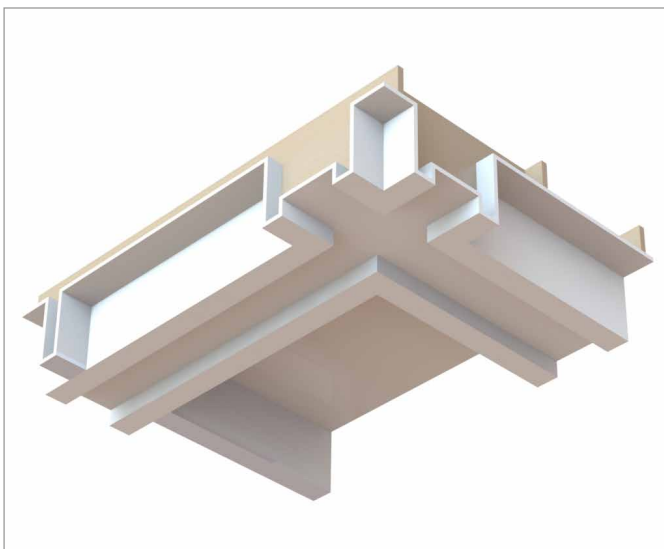
Gypsum & wood-based substructure



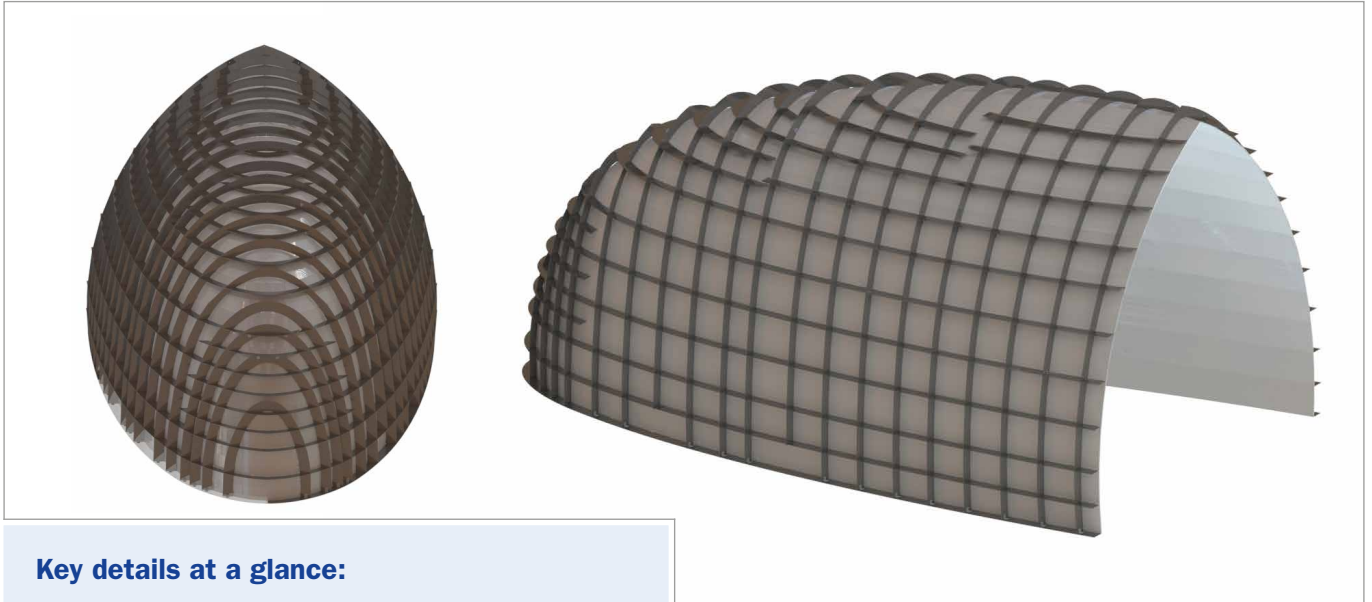
Beginning with flat gypsum plasterboards, complex ceiling geometries can be created not only through unrolled panelling but also by using two-dimensional milled moulded components. The images here illustrate an intersection of a gridded ceiling structure with multiple horizontal levels. Prefabricated moulded components are pre-assembled into junctions at the factory, and the client receives precisely milled components for linear areas, offering flexibility during on-site installation.

Key details at a glance:

- Custom-fitted milled moulded components for complex gridded ceiling structures
- Combined solution for seamless and perforated ceiling areas, including integration of acoustic plaster ceiling sections
- Proven system solution with prefabricated modules and linear milled moulded components, ensuring time savings and quality control on-site



3D dome structure Gypsum & steel construction



Key details at a glance:

- Three-dimensional sheet steel framework serves as the substructure for a parabolic design
- Acts as a connecting element between adjacent ceiling structures, reflecting existing contours
- Time savings achieved through prefabricated modules and carefully unrolled and milled panelling

“The parabolic shape evokes the form of a shell, while also drawing on the literary concept of a parable—a short, instructive story designed to provoke thought and offer insight.” By utilising a 3D substructure made of sheet steel components and pre-milled gypsum panels, a perfectly fitting frame was created for an existing Gothic tracery window. This design not only allows natural light to enter the room but also frames the view of the façade.





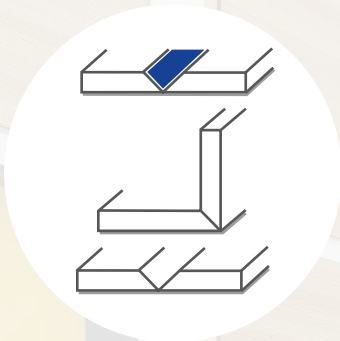
Moulded components

Experience a room through precision

Bending and folding technology provides a wealth of creative design possibilities. A precise ceiling solution, for example, can be achieved using linear V-grooves.

In addition to VoglFalt-Fix, the combination of various angles, edges, and bent or rounded moulded components allows for the creation of a striking spatial experience, tailored to customer requirements and design preferences.

Effective ceiling designs can also be realized with custom-made moulded components, such as quarter shells, half shells, lamellae, funnels, domes, or vaults, all precisely sized to enhance the space.



FALT-FIX, GLUED & UNGLUED

Milled elements can be supplied in three different versions:

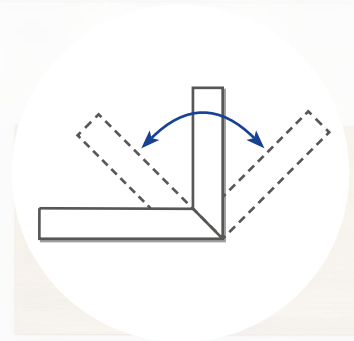
- Delivered flat as Falt-Fix moulded components to save space and bonded with the factory-fitted adhesive tape - easier cutting and customisation on site
- As glued special moulded components ready for assembly
- Supplied flat as unglued moulded components – to be glued and installed on site



VoglFalt-Fix® ADVANTAGES

- Glueless joining of moulded components on site, no priming, no drying times
- Easy on-site handling of moulded components
- High adhesive strength
- Angle adjustment of +/- 2° after adhesion possible
- Delivered flat - less handling damage

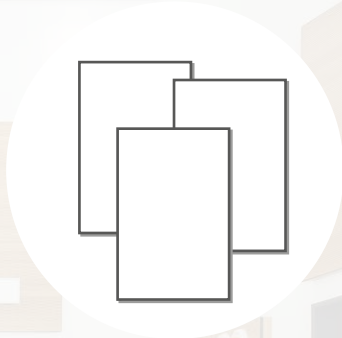
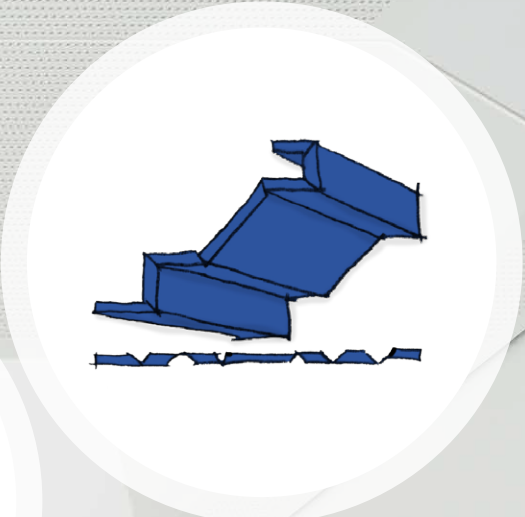
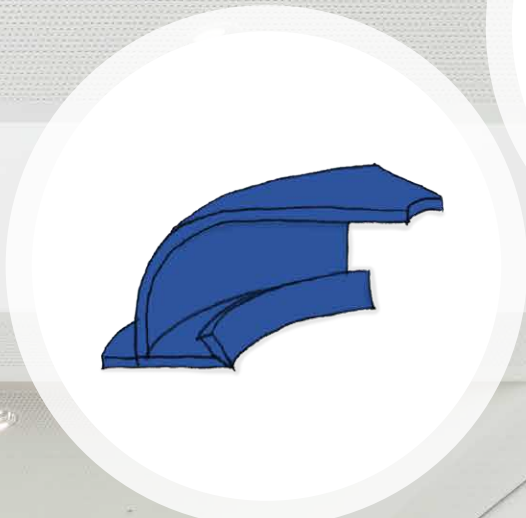
Vogl Falt-Fix moulded components must be installed without any stresses acting upon them.
The free limb must always be fixated.



AVAILABLE ANGLES

- 45°
- 60°
- 75°
- 90°
- 105°
- 120°
- 135°
- 150°

Other thicknesses, lengths, qualities, and angles on request.



EDGE DESIGN

- VK = full edge
- HRAK = half-round flattened edge
- AK = flattened edge
- SiFa = visible chamfer
- FK = chamfered edge
- SK = cut edge
- PU = paper-clad edge
- KU = cardboard-clad edge
- Lamelle = lamella edge

PANEL DESIGNS

Our moulded components can be customized to meet your specific requirements and produced from a variety of suitable panel materials. Available panel types include A, DF, and DFH2 according to EN 520, as well as GKB, GKF, GKFI, and GM-FH1I in accordance with DIN 18180.

If needed, we will work with you to determine the exact design and panel material for your moulded components on a case-by-case basis.

2D SHELL ELEMENTS

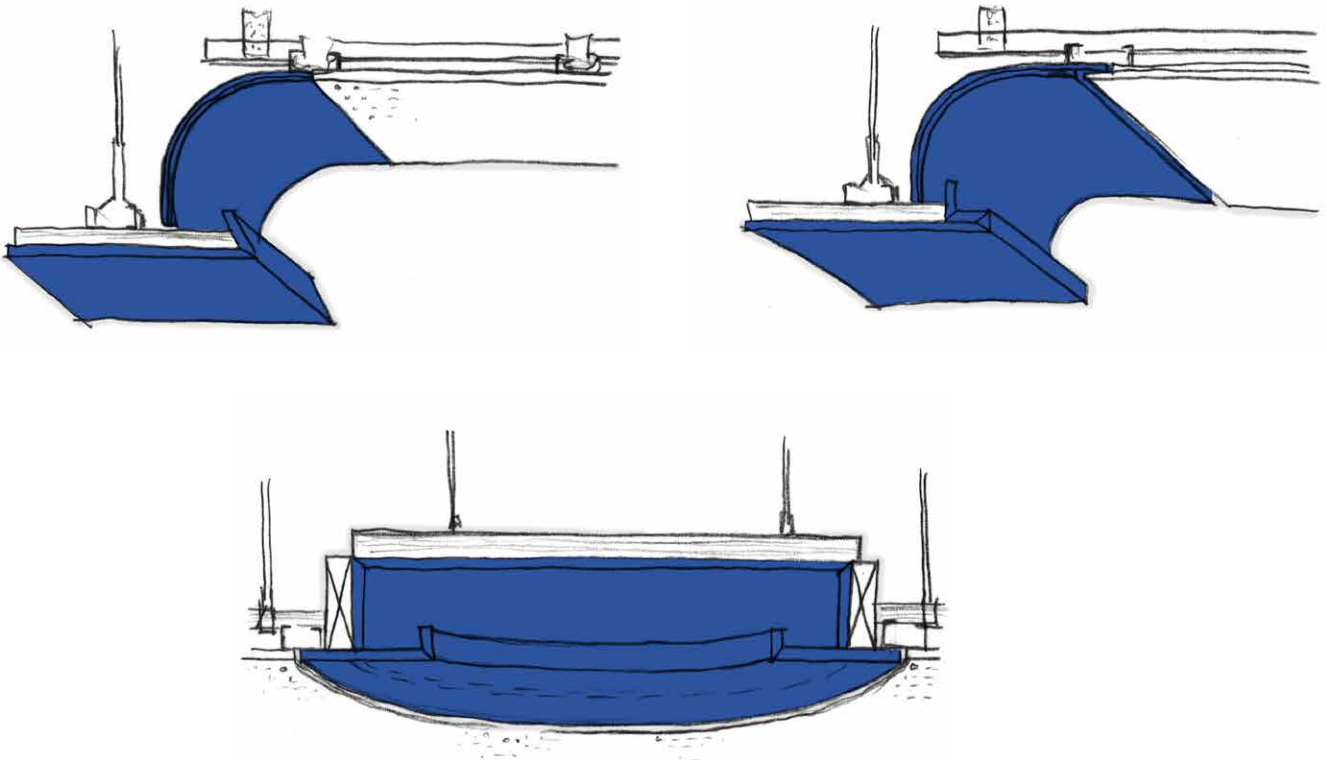
Shell elements are a key addition to our range of moulded components, designed to be prefabricated in the factory for reduced assembly time on-site.

We offer both single-layer and multi-layer structures, with customizable options such as quarter, half, or segment shells, as well as linear approaches and batters. Each shell is tailored to meet the unique requirements of your project.

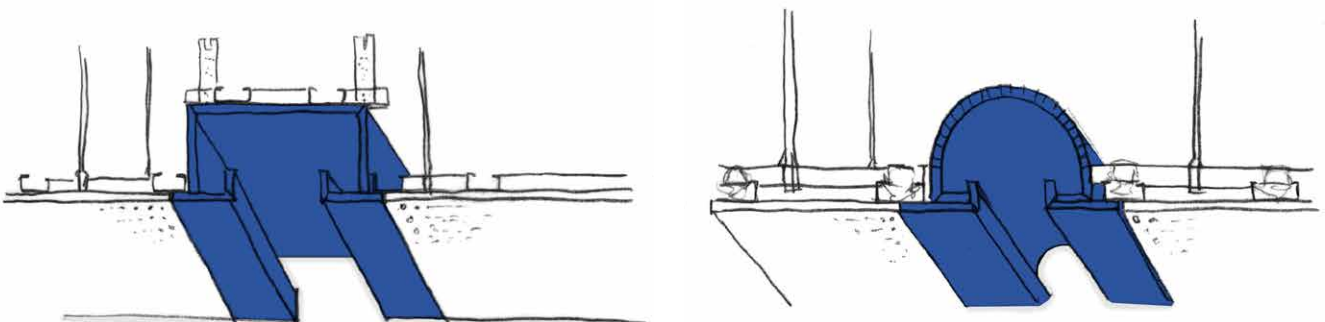


Examples: Moulded components

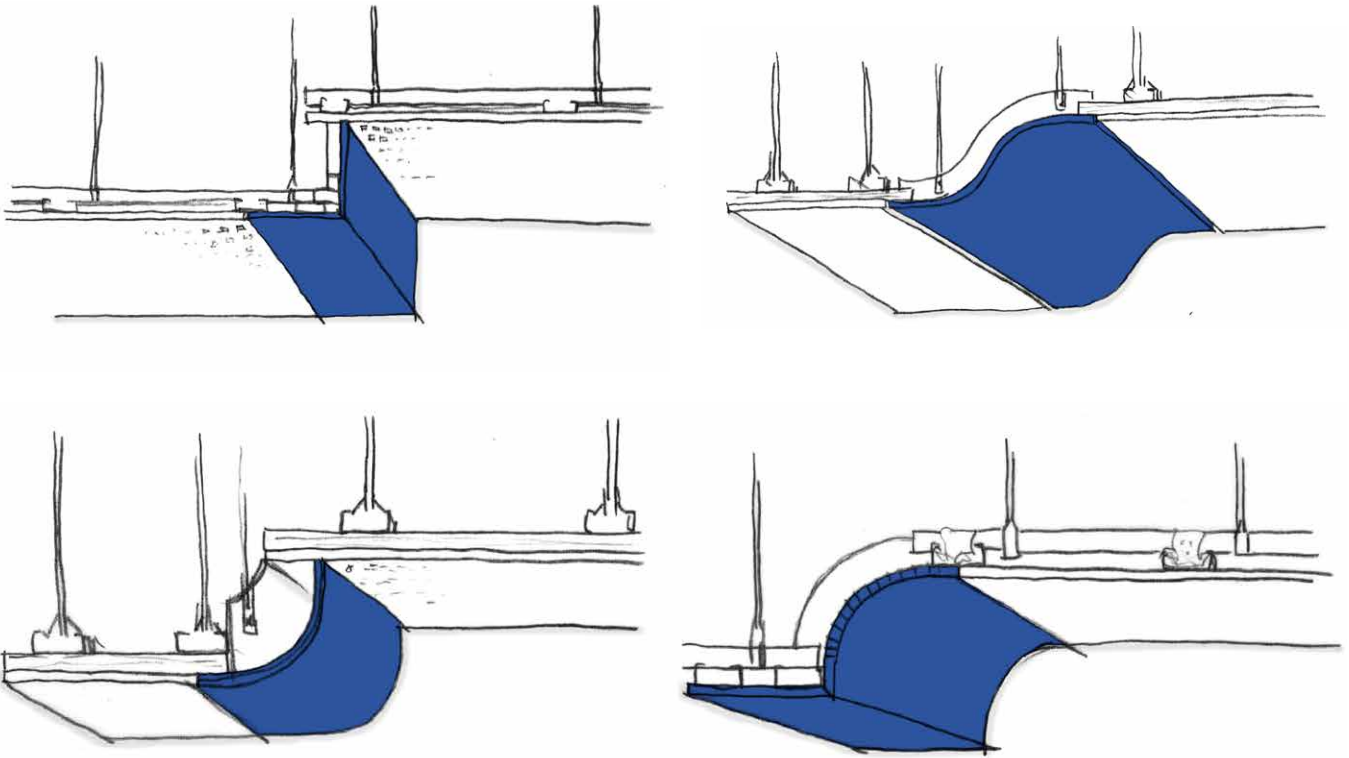
Coved lighting



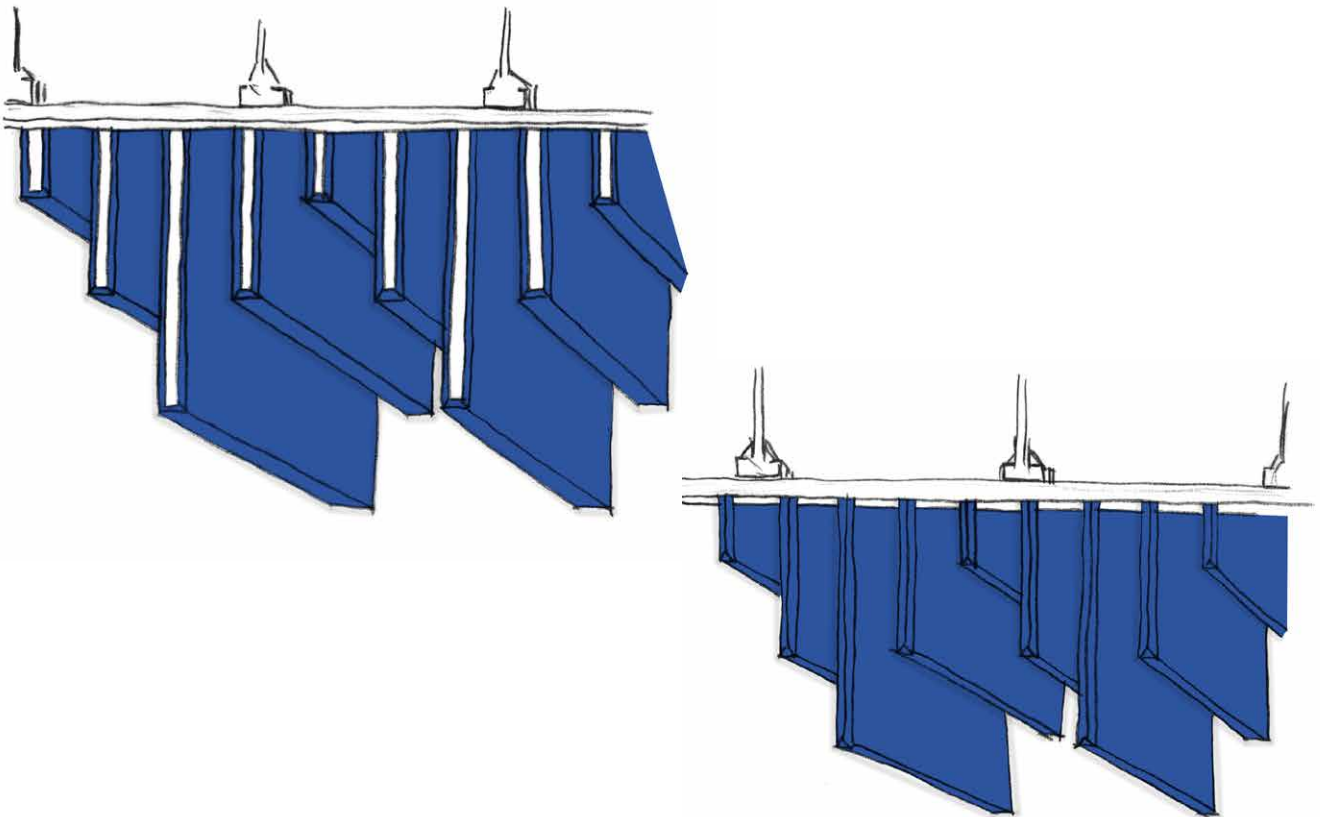
Light channels



Offsets (angled & rounded)



Baffles and lamellae



Let's discuss your project.

We'd be happy to address your specific inquiry either over the phone or in person.



Vogl Deckensysteme GmbH

Anton Vogl Str. 1
91448 Emskirchen/Germany

Phone +49 9104 825-0

Fax +49 9104 825-250

info@vogl-deckensysteme.de

www.vogl-deckensysteme.de

Errors, typos, and technical changes reserved. All rights reserved. Reprints, as well as electronic reproduction, also in part, require the express approval of Vogl Deckensysteme GmbH, Anton Vogl Str. 1, 91448 Emskirchen/Germany.

PICTURE CREDITS

Page 1: Jozef Murarik · Page 2: Rainer Taepper · Page 4: Jozef Murarik · Pages 6, 7: Rainer Taepper · Page 9: Jozef Murarik · Page 10: Christina Kratzenberg · Page 11: Christopher Kelemen · Page 12: Torsten Eiger · Page 14: Rainer Taepper · Page 15: Marcus Ebener · Page 19: Thilo Jaeckel · Pages 20, 21: Dirk Altenkirch · Page 24: Christopher Kelemen

Status 11/2024