

**Discover the potential of ceiling design**

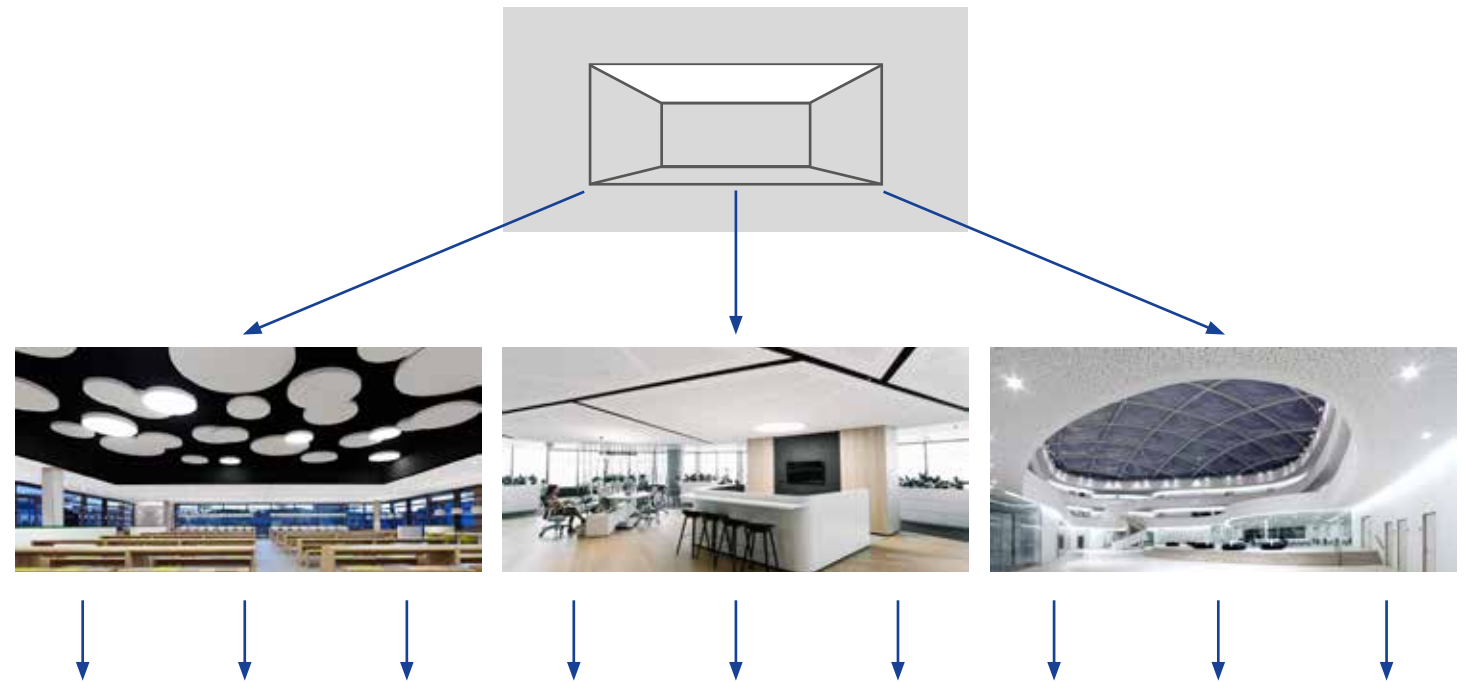
*in form, colour and performance*



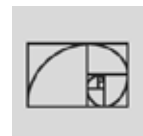
## THE POTENTIAL OF CEILING DESIGN

Along with the facade, the ceiling is the largest open and continuous surface available to the designers.

It is unobstructed and offers room for integrating both technical and ornamental components.



The following factors have a decisive influence on the atmosphere of a room:



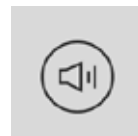
Spatial proportions



Light



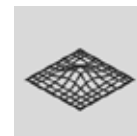
Climate/  
temperature



Acoustics



Colour/  
material



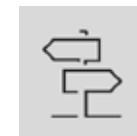
Surface



Safety/sense  
of well-being



Environmental  
compatibility



Orientation  
in the room

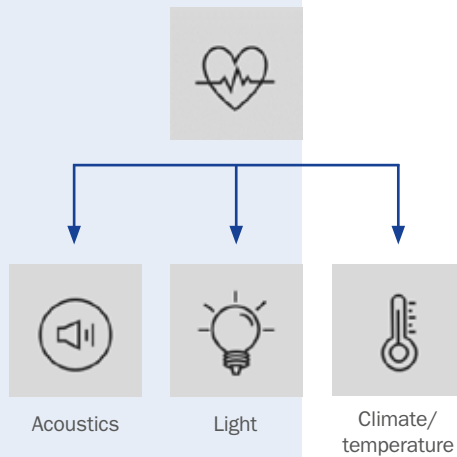
Being one of the largest design surfaces, the ceiling offers room for integrating technical components into the designed structure to allow, e.g., temperature-regulating built-in components to disappear in the ceiling void and no longer disturb the spatial impression and freedom of movement.

## FEEL-GOOD FACTORS IN THE ROOM

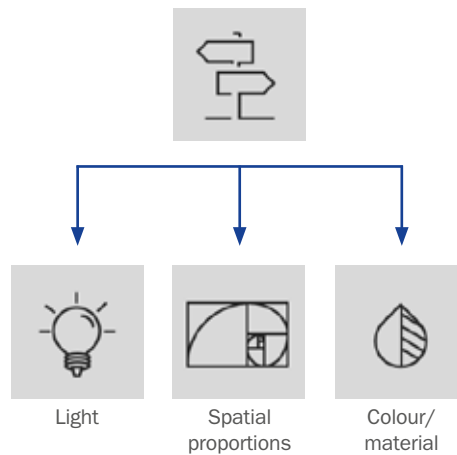
The feel-good factors in a room combine physical influence factors such as lighting and thermal activation with psychological factors including room acoustics. These factors directly affect the performance, sense of well-being and motivation of those in the room.

In this context, the overriding **influence factors of room design** are the sense of well-being and safety, orientation and information, flexibility and quality.

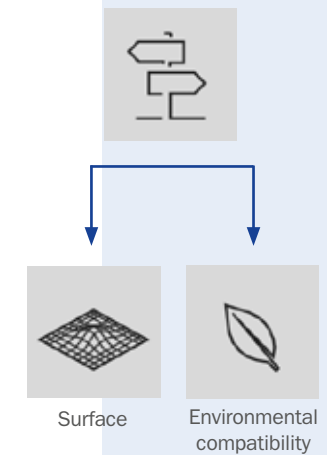
### SAFETY/SENSE OF WELL-BEING



### ORIENTATION/INFORMATION



### FLEXIBILITY/QUALITY



## FEEL-GOOD FACTOR ACOUSTICS

Acoustic design ceilings are a significant instrument in the acoustic design of a room. In determining the right sound absorption, various factors such as room volume or planned utilisation play a major role.

Acoustic ceilings can also be convincing from a design point of view.



Three fields of application for absorbing materials:

- Acoustic design of the room,
- Noise reduction, and
- Control of reverberation time.

Especially large rooms, such as opera or concert halls, and highly frequented areas such as schools and day care centres or public buildings require sophisticated acoustics. A great selection of various acoustic design ceilings is available to achieve an optimum room acoustic performance in the ceiling design.

Acoustic design ceilings meet the highest demands on performance and aesthetics in drywall construction. Particularly in highly frequented areas, such ceiling systems serve as sound absorbers, cooling elements and eye-catchers at the same time. For this reason, high precision in installation is particularly needed here. Unlike conventional ceiling solutions, errors in the installation are immediately visible in the finished product and seriously affect the final appearance.

Perforated gypsum plasterboards form the basis for our ceilings. A variety of perforation patterns and suspension heights allows us to achieve nearly all sound absorption classes and, in doing so, flexibly react to different requirements for optimisation of room acoustics.

Classification of absorbers as per DIN EN ISO 11654:

■ Class A	–	$\alpha_w = 0.90-1.00$
■ Class B	–	$\alpha_w = 0.80-0.85$
■ Class C	–	$\alpha_w = 0.60-0.75$
■ Class D	–	$\alpha_w = 0.30-0.55$
■ Class E	–	$\alpha_w = 0.15-0.25$
■ Not classified	–	$\alpha_w = 0.00-0.10$

Along with a great variety of standard perforation patterns, we are also in a position to implement customised perforation designs or dimensions.

## SAFETY/SENSE OF WELL-BEING



# ACOUSTICS

## SAFETY/SENSE OF WELL-BEING



# LIGHT

## FEEL-GOOD FACTOR

### LIGHT



The planned integration of accentuating or functional illumination in acoustic design ceilings makes for an aesthetic appearance using colour, light and degrees of gloss and, in its function as an illuminated ceiling, provides a gentle surface lighting with variable colour mix. Clear geometric surfaces or freely defined shapes, combining various perforation patterns of the acoustic design panels, result in ceiling areas which are rich in contrast and can be level or stepped for 3D accentuation.

In the past, ceiling design in dry interior construction has often met its limits, usually when it came to combining form and light. The reason for this was that there was hardly any manufacturer who was able to offer the complete construction member consisting of moulded ceiling component and precisely matching illumination element. The modules had to be put together individually from the appropriate moulded gypsum part and any kind of lighting component. That cost a lot of time, planning certainty was inadequate, and the quality of the finished product at the job site was not always convincing.

The benefits of matching moulded components for integrated lighting:

- Great variety of designs and functions
- Efficient and sustainable materials guarantee low energy consumption
- Easy-to-install system (materials known from drywall construction)
- Individual solutions plannable and feasible as per customer request
- Seamless integration of moulded gypsum parts into adjoining ceiling areas
- High dimensional accuracy of all individual parts is the guarantee for high-quality ceiling design
- Efficient assembly and maximum certainty of results due to a harmonised complete system

## FEEL-GOOD FACTOR CLIMATE/TEMPERATURE

With energy resources growing scarce, fossil fuels are too valuable to just burn them on a large scale. To conserve the fossil resources, it makes good sense to put major energy consumers on a diet. VoglThermotop combines acoustic design ceilings with the additional function of a very effective cooling and heating ceiling. Compared to conventional air handling systems, the operating costs can be reduced by up to 40 %, and, from an aesthetic point of view, the harmonious appearance of the ceiling is not compromised.



Climate control ceilings for maximum efficiency:

- Suitable for areas with low to medium cooling and heating loads
- Available as climate control ceiling, acoustic climate control ceiling, acoustic plaster climate control ceiling or as floating ceiling of individual shape
- Low operating costs due to low-maintenance complete system and minimum susceptibility to failure
- Individual design and execution to achieve maximum efficiency from the surfaces available for activation



## SAFETY/SENSE OF WELL-BEING



# CLIMATE/ TEMPERATURE



## ORIENTATION/INFORMATION

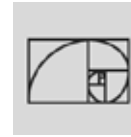


# SPATIAL PROPORTIONS

## FEEL-GOOD FACTOR SPATIAL PROPORTIONS

The bending and folding technology offers an abundance of creative design possibilities.

An optimum ceiling solution can be realised with linear V-grooves. It is the various angles or edges, but also the bent and rounded moulded components that create – depending on customer desire and design – an impressive experience of space. Effective ceiling design can be realised with accurately sized custom-made moulded components, such as quarter shells, half shells, lamellae, funnels, domes or vaults.



Take advantage of our moulded components:

- Rational job-site handling based on a high level of pre-fabrication
- Fast precision assembly
- Almost no filling and patching work required
- Consistent shapes, perfect radii – component by component
- Elegant, practicable system solutions for frameworks

## FEEL-GOOD FACTOR COLOUR/MATERIAL

Colours influence our perception of rooms and our sense of well-being, while texture creates charismatic surfaces. Colour can be used in interior design to significantly improve the living and comfort factor. VoglColor Panels allow you to add colourful accents precisely and easily.



The unique pre-fabrication offers decisive benefits:

- No time-consuming reworking after painting
- Even colouration of the inner surfaces of the perforation
- Available in many shades of colour
- With various joint systems

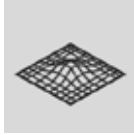


# COLOUR/ MATERIAL

## FEEL-GOOD FACTOR SURFACE

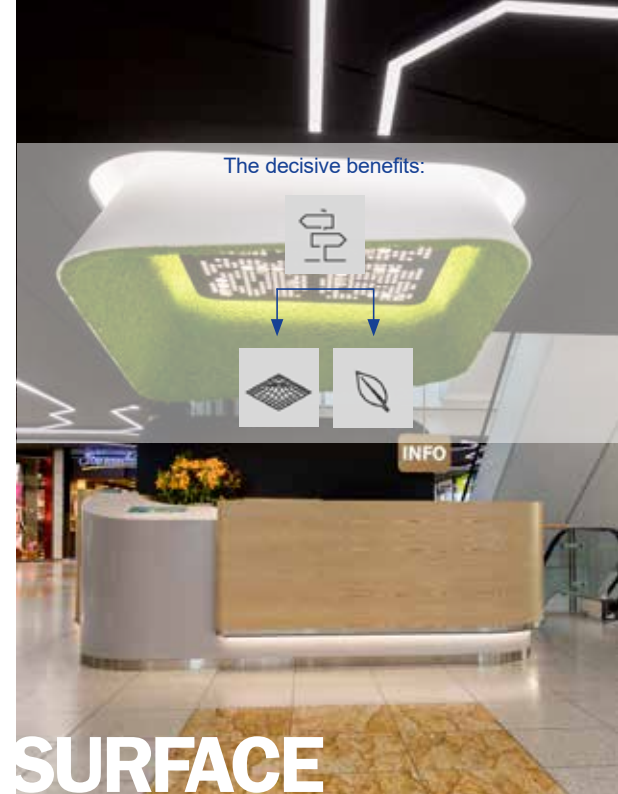
Our products of the VoglVariety line are fibre-reinforced gypsum elements (aka glass reinforced gypsum – GRG).

The combination of special material composition and applied laminating technology opens up almost unlimited design possibilities. Any conceivable geometric shape, three-dimensional construction or exceptional design can be implemented.



The decisive benefits:

- Moulded components according to your individual requests
- Time and cost saving installation thanks to a high degree of pre-fabrication
- Easy installation and processing
- High surface hardness and rigidity
- Lighter weight
- Moulded components of fibre-reinforced gypsum are non-combustible (material class A)



# SURFACE

## FEEL-GOOD FACTOR ENVIRONMENTAL COMPATIBILITY

Whether seamless acoustic design ceilings with integrated air purification effect or our acoustic plaster system VoglToptec – our ceiling systems, which are tested for harmful substances, serve as sound absorbers in highly frequented zones and thus make for an agreeable room atmosphere.

We regularly identify and assess our operational environmental risks and adopt appropriate measures to protect soil, air and water. The objective of these measures is to minimise negative environmental effects and to improve our environmental performance. To avoid and/or reduce the release of substances in case of possible malfunctions, we ensure the necessary organisational, financial and technical measures.

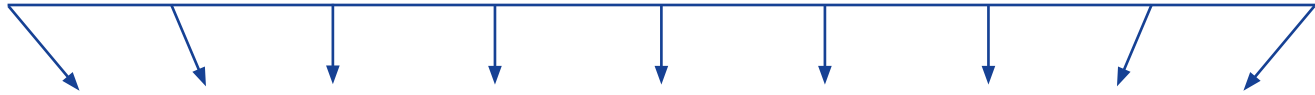
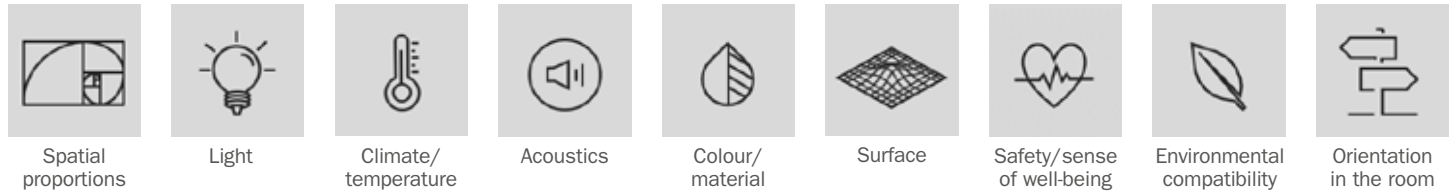


# ENVIRONMENTAL COMPATIBILITY



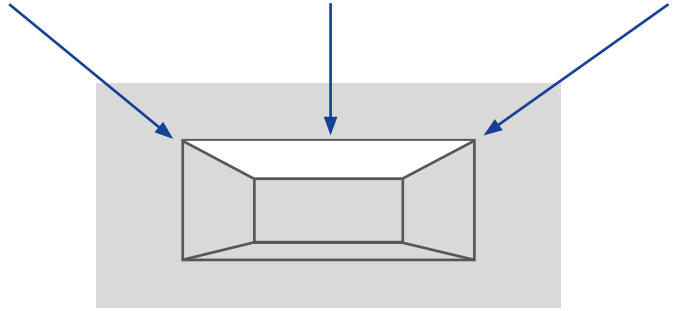


**JOINT  
COMPETENCE  
FOR HIGHEST  
QUALITY**



### **CORE COMPETENCE THAT UNITES**

We are networkers.  
We pool synergies & design rooms.  
The close cooperation with our system partners – all specialists in their fields – turns your idea into reality. And eventually into an enriching component of every room.  
We assist you. From design to execution.  
Across systems. On a professional level.



Our sophisticated ceiling systems allow a high degree of design liberty, for example, acoustic design ceilings with integrated air purification effect or a modern and functional design with floating ceilings, 3D elements or customised moulded components. In cooperation with our partners, we offer innovative and well-matched system solutions for ceiling design by integrating lighting (covered lighting, light channels, stretch and illuminated ceilings) and additional technical functions to create a unique atmosphere in every room.

# ARCHITEKTURDECKEN.DE

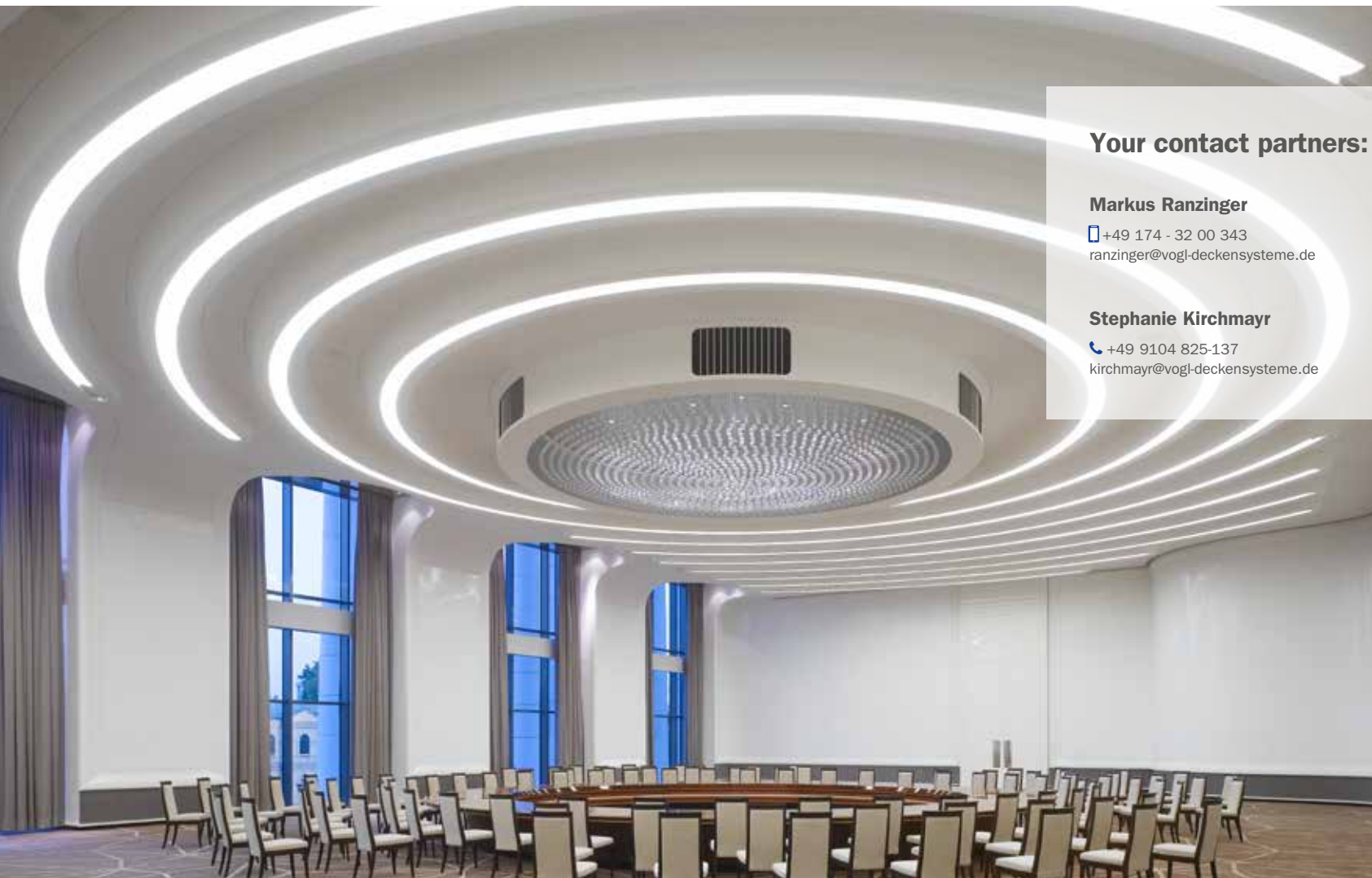
## INSPIRATION & INFORMATION

A holistic approach to the ceiling as one of the largest design surfaces in a room makes it possible to unite design and function and thus to make it a central element of the interior as well as an architectural concept.

Architekturdecken.de encompasses all the topics relevant to ceilings and, along with a rough overview of the technical issues, it also offers creative impulses and examples of ceiling design masterpieces that serve as an inspiration to discover the ceiling as one of the most significant architectural elements of a room concept.

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