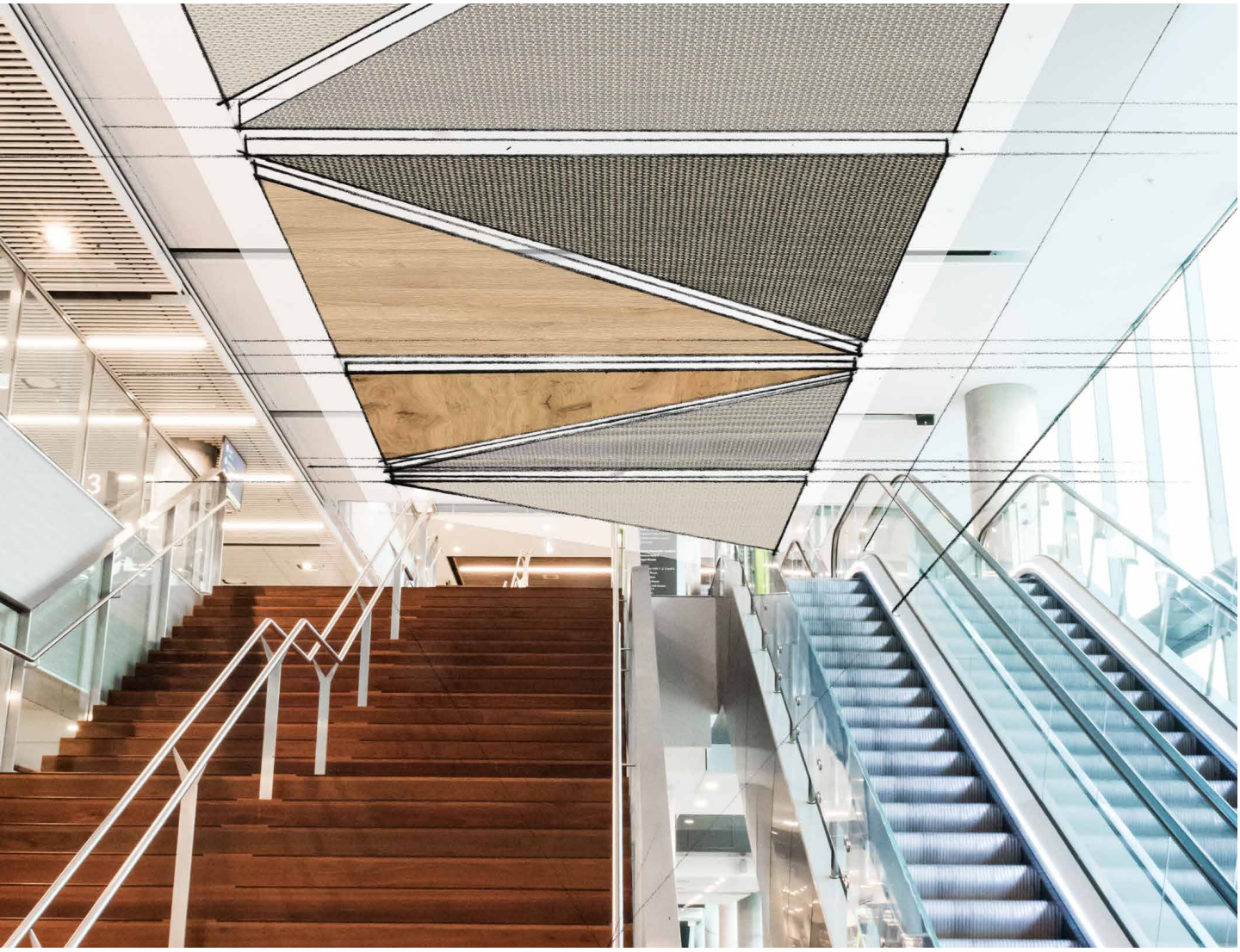
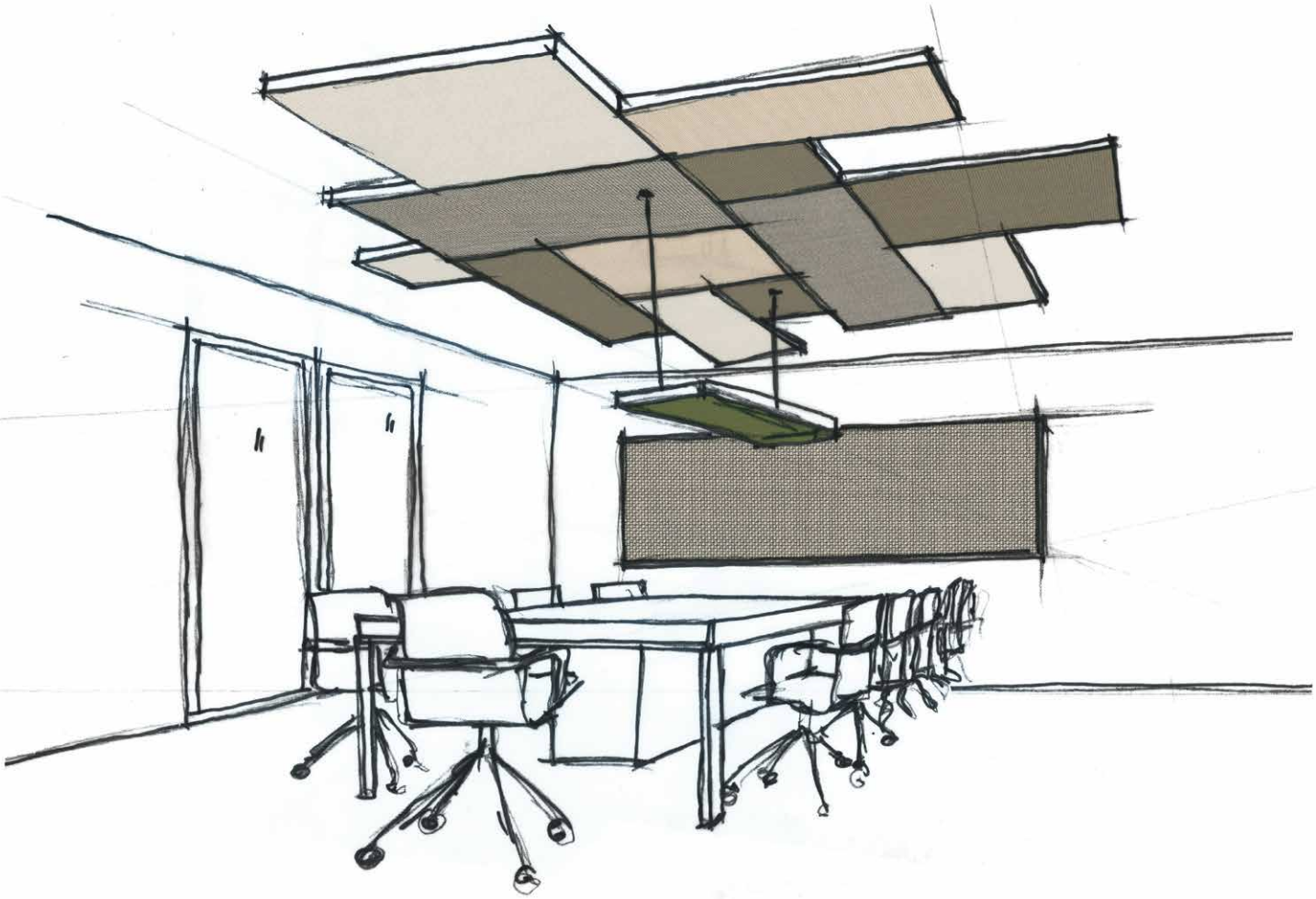
VOGL DECKENSYSTEME



Ceiling sails, baffles and lamellae

for special interior designs



ACOUSTIC AND *DESIGN*

Next to the facade of a building, the interior ceiling offers designers the largest free and contiguous surface. It is unobstructable and offers space for the integration of techincal and design components.

With a wide range of different materials combined with varying manufacturing technologies, we provide ready-made building-blocks and customized solutions for your design idea.

You design and develop either linear, flat or even 3D shaped surface structures as ceiling elements such as ceiling sails, baffles or ceiling absorbers - we supply and support easy-to-assemble structures with a high degree of prefabrication according to your ideas, including the desired surface finishing.

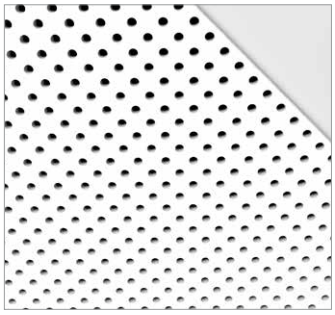
Please do not hesitate to contact us!

CONTENT *OVERVIEW*

ACOUSTIC DESIGN CEILINGS & CEILING TILES

In dry construction, acoustic design ceilings and coffered ceilings meet the highest demands in terms of function and aesthetics. In heavily frequented areas, such ceiling systems serve as sound absorbers, cooling elements and at the same time as eye-catchers. In order to meet the demands of high-quality interior design, a correspondingly precise finish is required.

8/18R

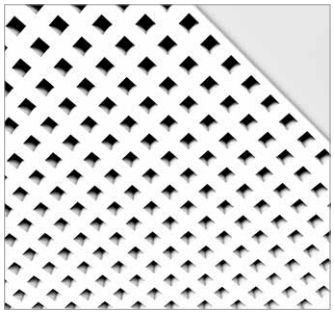


Mass per unit area:
8,50 kg/m²

Perforated area: 15,5%

Building material class according
DIN EN 13501: A2-s1, d0

12/25Q

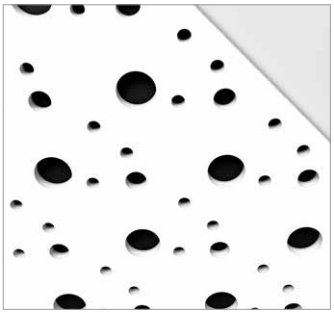


Mass per unit area:
7,70 kg/m²

Perforated area: 23,0%

Building material class according
DIN EN 13501: A2-s1, d0

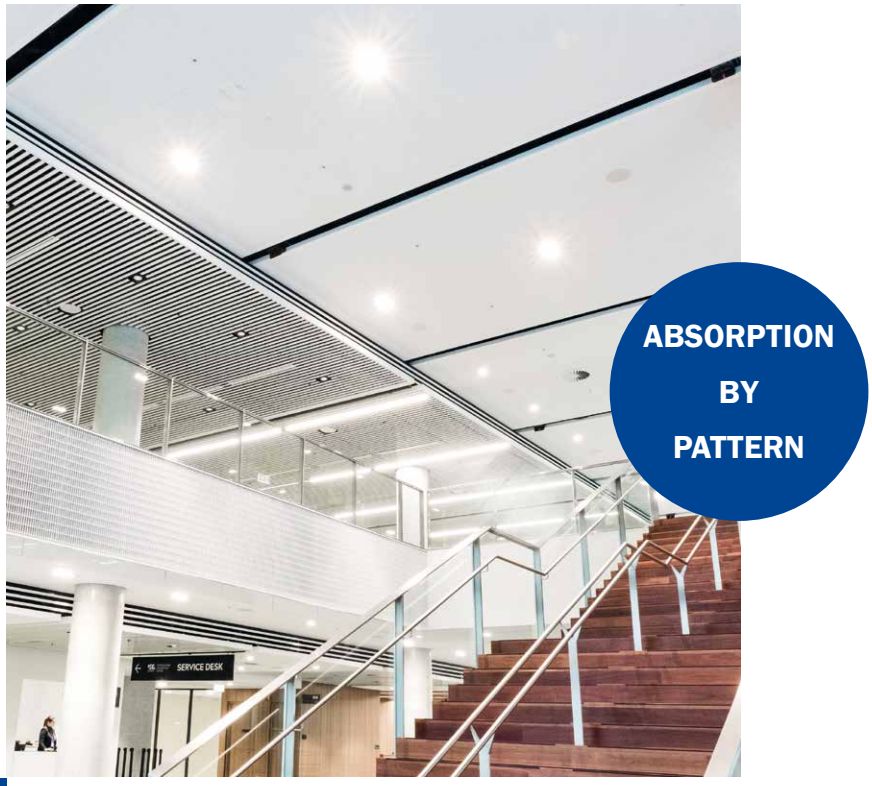
12/20/35R



Mass per unit area:
8,90 kg/m²

Perforated area: 11,0%

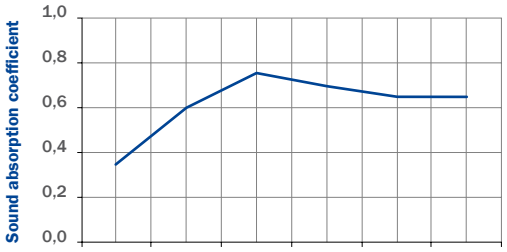
Building material class according
DIN EN 13501: A2-s1, d0



ABSORPTION BY PATTERN

ACOUSTIC EFFECTIVENESS

8/18R



Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
Pattern 8/18R	**0,35**	**0,60**	**0,75**	**0,70**	**0,65**	**0,65**

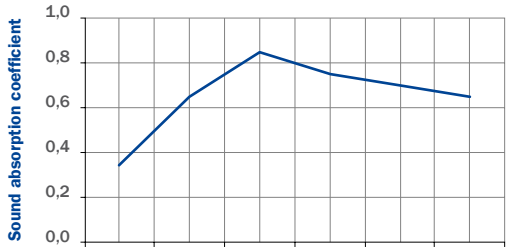
Back of panel laminated with acoustic fleece AV 2010

Sound Absorption α_w = 0,70
Sound Absorbing Classification C (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0,67
Classification acc. ASTM E 1264: NRC = 0,65

Ceiling Void 200 mm

12/25Q



Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
Pattern 12/25Q	**0,35**	**0,65**	**0,85**	**0,75**	**0,70**	**0,65**

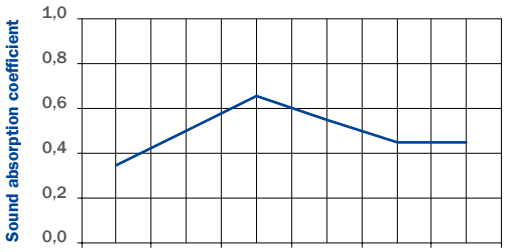
Back of panel laminated with acoustic fleece AV 2010

Sound Absorption α_w = 0,75
Sound Absorbing Classification C (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0,74
Classification acc. ASTM E 1264: NRC = 0,75

Ceiling Void 200 mm

12/20/35R



Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
Pattern 12/20/35R	**0,35**	**0,50**	**0,65**	**0,55**	**0,45**	**0,45**

Back of panel laminated with acoustic fleece AV 2010

Sound Absorption α_w = 0,55
Sound Absorbing Classification D (absorbing)

Single number rating acc. ASTM C 423: SAA = 0,55
Classification acc. ASTM E 1264: NRC = 0,55

Ceiling Void 200 mm

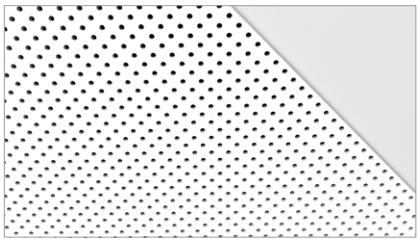
ACOUSTIC DESIGN CEILINGS

- **Building material class**:
  A2-s1, d0 according DIN EN 13501-1
- **Perforated area** from 8,7% - 23%
- **Sound Absorption α_w** from 0,50 - 0,90
  (without mineral wool panel SS1)
- pre-coloured perforated soffits with VoglColor Panels
  (final coating of visible side always on site)
- **Edge designs & joint variations:**
  VoglFuge
  Visible Chamfer
  GSG4 Joint
  Compound Seam
- Tested **ball impact resistance*:**
  according DIN 18032-3 for the application area „ceiling“
  according EN 13964 Annex D as „Class 1A“

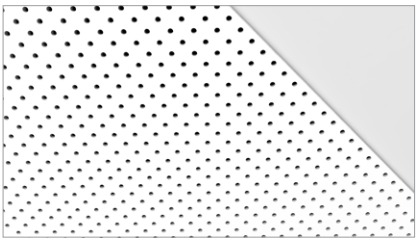
** When reducing the support profile spacing or using 15.0mm acoustic design panels.*

PERFORATION PATTERNS

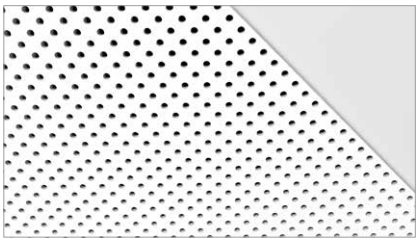
Pattern 6/15R



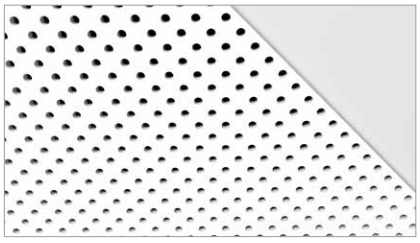
Pattern 6/18R



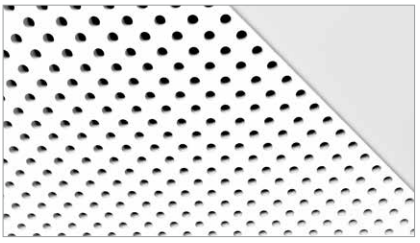
Pattern 8/18R



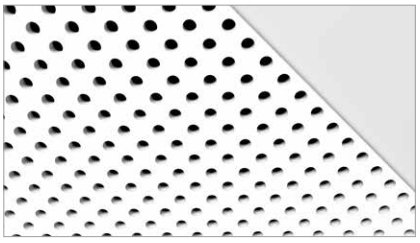
Pattern 10/23R



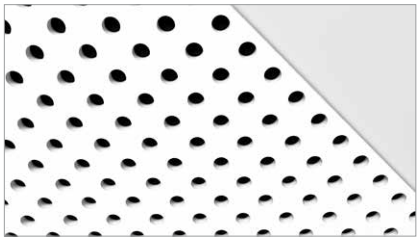
Pattern 12/25R



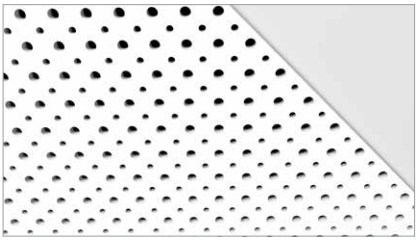
Pattern 15/30R



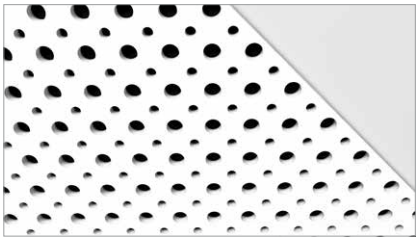
Pattern 20/42R



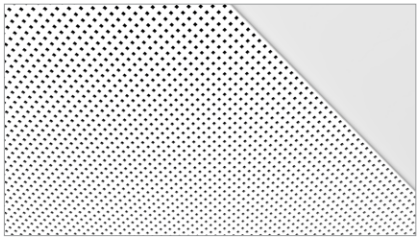
Pattern 8/12/50R



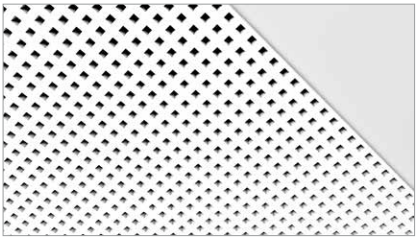
Pattern 12/20/66R



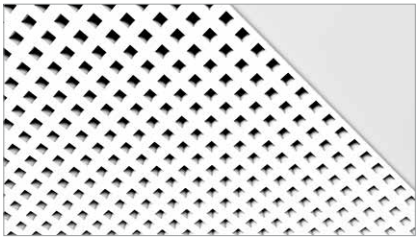
Pattern 3,5/9Q



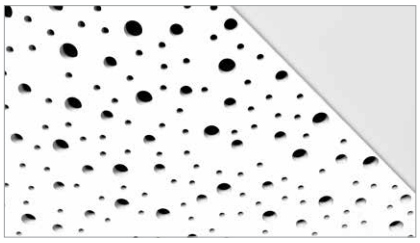
Pattern 8/18Q



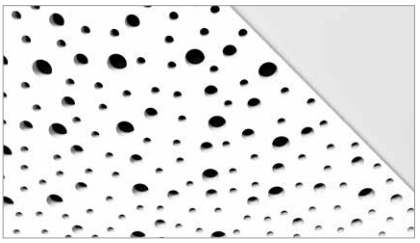
Pattern 12/25Q



Pattern 8/15/20R

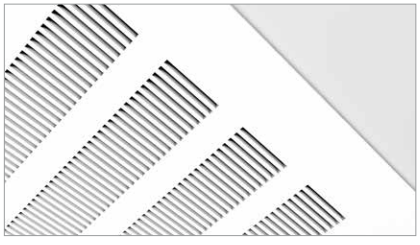


Pattern 10/16/22R

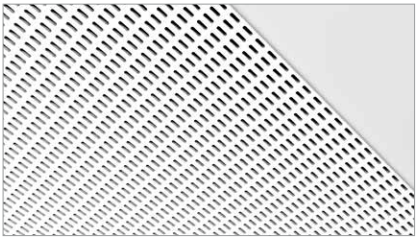


Pattern 12/20/35R

Pattern 5/82/15,4SL



Pattern 4/14/10 Oval



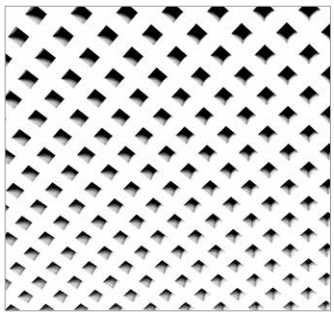
Some hole patterns are only available as block patterns.

We look forward to your enquiry.

CEILING SAILS

With acoustic ceiling sails you not only improve acoustics effectively, you can also set visual highlights on the ceiling. The great flexibility of various designs offers many creative possibilities: Edges and surfaces, sizes, shapes and colours can all be combined individually. By integrating lighting, you complete the appearance of your interior design down to the last detail. Technical components can be integrated in the ceiling canopies or skilfully be hidden behind them.

PERFORATED BOARDS



Ceiling sails made of perforated gypsum boards can be realised in different designs and patterns. The seamless installation of the perforated panels also favours large-format solutions.

TEXTILE & VENEER

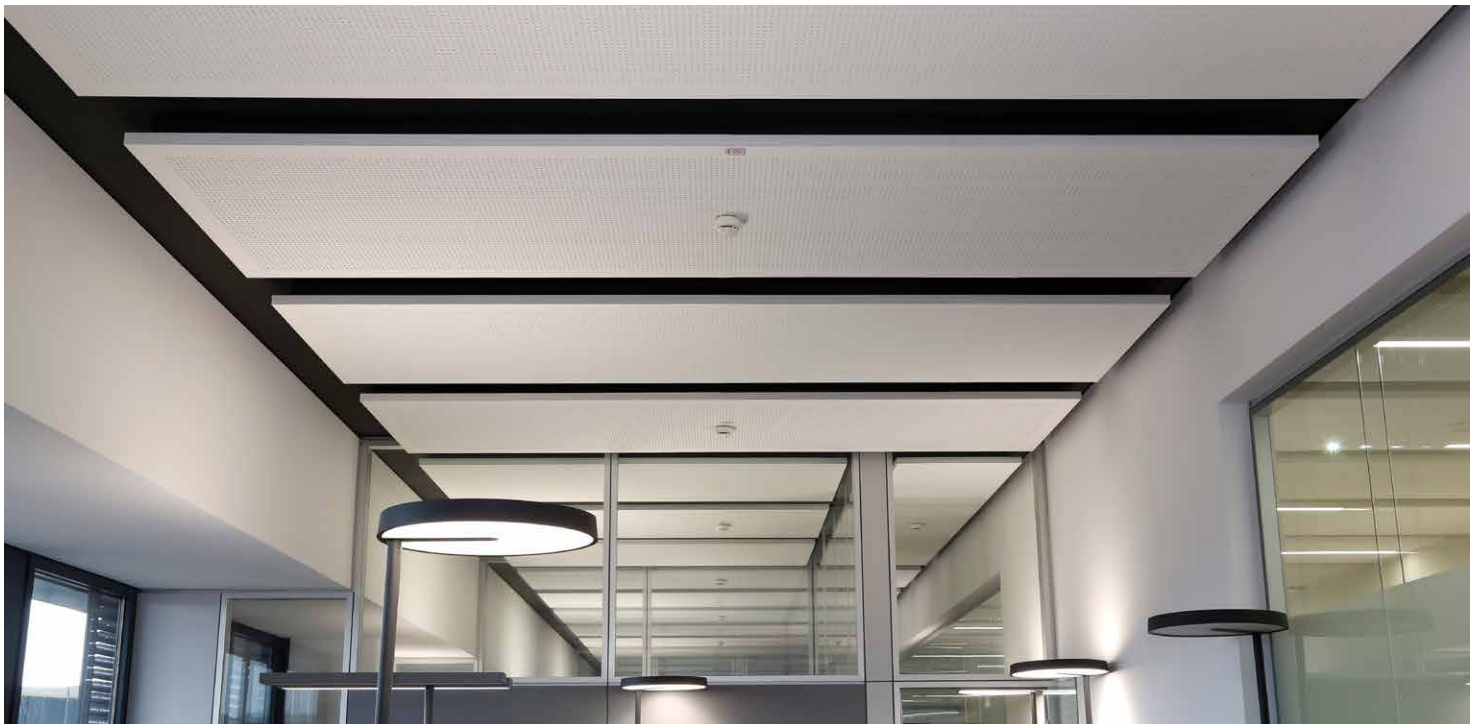
Frame systems support the surrounding room furnishings with covers out of high-quality woollen fabrics or laser-cut veneer textiles.

POLYESTER & MINERAL FIBRE

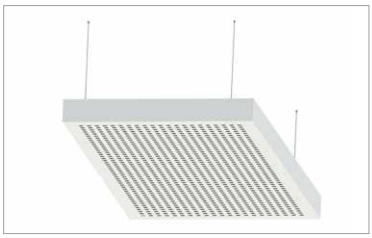
Self-supporting systems with the highest standards of building material classification - our polyester or mineral fibre sails combine a sleek appearance with simple installation.

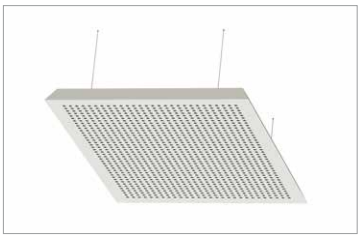
INDIVIDUAL & SELF-SUPPORTING

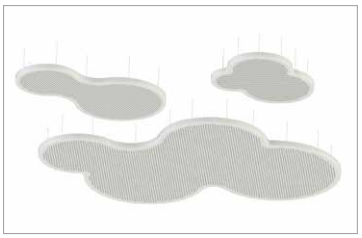
CEILING SAILS
PERFORATED BOARDS

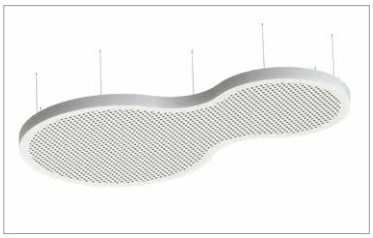


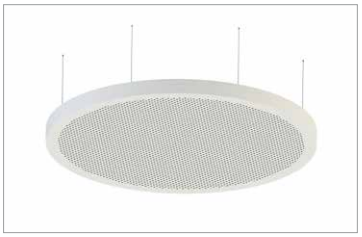
Large-format ceiling sails made out of perforated gypsum boards offer the combination of an absorbent surface and an open cross-section to revise and break up the ceiling appearance.





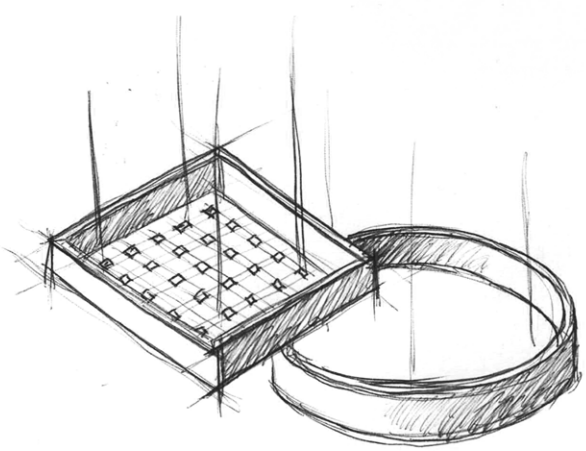




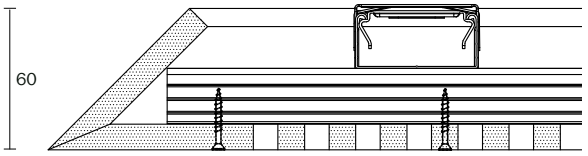


CEILING SAILS PERFORATED BOARDS

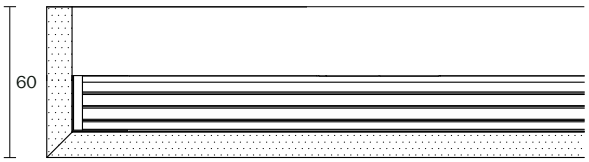
- **Versions:** 2.000 x 1.000 x 60 mm or
  1.600 x 800 x 60 mm (length x width x height)
  Individual sizes available on request
- **Material:** perforated gypsum board according to EN 14190
- **Pattern:** 8/18R (other perforations on request)
- **Building material class (board):** A2-s1, d0 acc. to DIN EN 13501-1
- **Sound absorption class:** varies according to design
- **Surface:** ready-coated in white,
  acoustic fleece black on the back
- **Edge design:** 90° upstand (standard),
  other edge designs on request



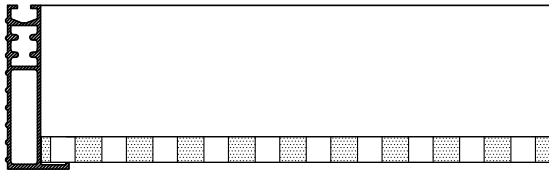
DESIGN VERSIONS



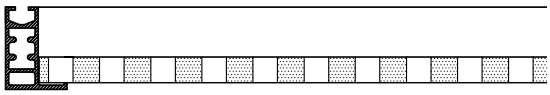
Plasterboard ceiling sails with bevelled upstand



Plasterboard ceiling sails with 90° upstand



Plasterboard ceiling sails with surrounding frame



Plasterboard ceiling sails with surrounding frame

The variety of colours and shapes of acoustic sails offers great variability in room design. Attractive design and acoustic effectiveness can thus be functionally combined. As a result, they provide a pleasant feeling of space, especially in demanding areas such as office landscapes or foyers.

Ceiling canopies also provide a variety of solutions when special requirements are placed on the room design, e.g. concrete core temperature control. Depending on the requirements, they can be optionally equipped with multiple functions such as heating and cooling elements. Our ceiling sails can be manufactured and pre-assembled as a standard product as well as to individual customer requirements.

In the case of larger dimensions, they are dismantled again into manageable segments suitable for the construction site for transport. Thanks to the high degree of prefabrication and the simple assembly technique, they can be quickly processed on the construction site.

Shape perfection ex works - our unique prefabrication offers decisive advantages:

- Optimum joint pattern without visible panel projections
- High variety of shapes, colours and functions
- Optimal complement to already existing ceilings
- Easy installation
- Individual solutions can be realised at short notice
- Perfectly prefabricated canopies for simple installation - it couldn‘t be easier

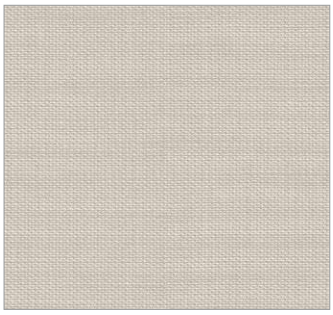
CEILING SAILS
TEXTILE & VENEER

STRECHED FOIL

Sound Absorption α_w from 0,4 - 0,5 (without mineral wool panel SSP1)

Building material class according DIN EN 14716: B-s2, d0

FABRIC



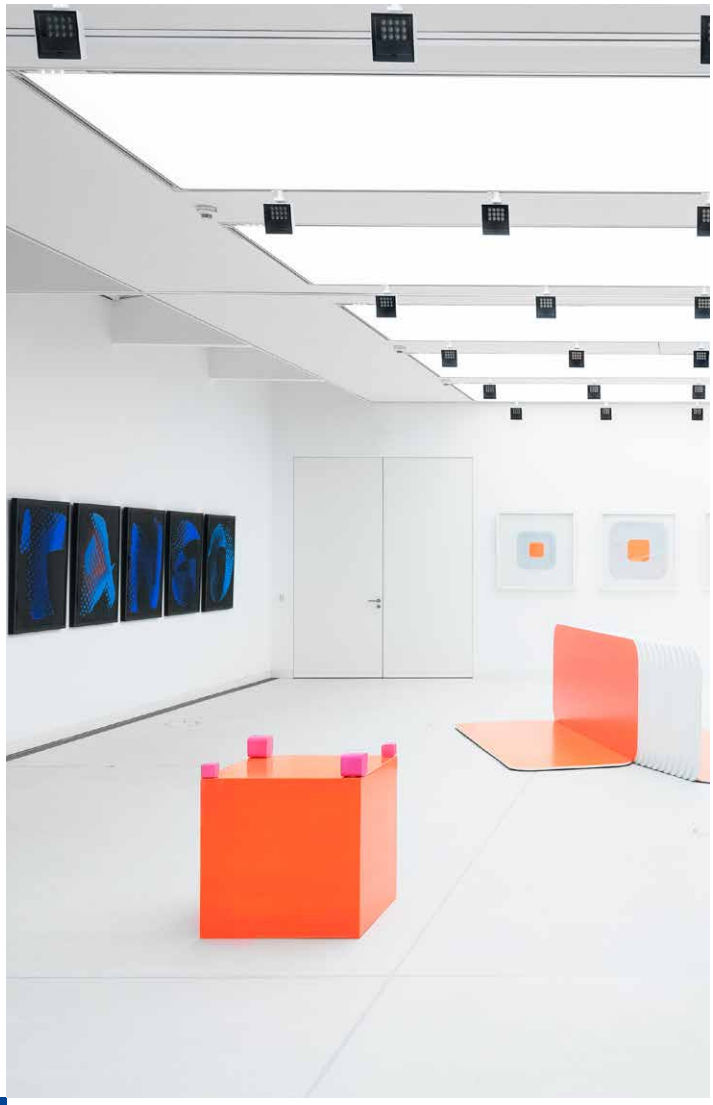
Sound Absorption α_w from 0,5 (MH) - 0,8 (H) (without mineral wool panel SSP1)

Building material class according DIN EN 4102-1: B2 (incl. flame protection)

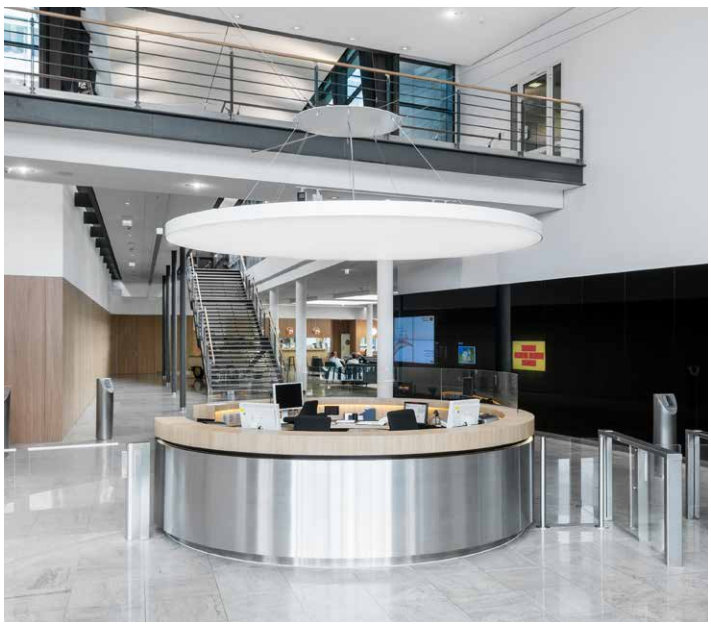
VENEER

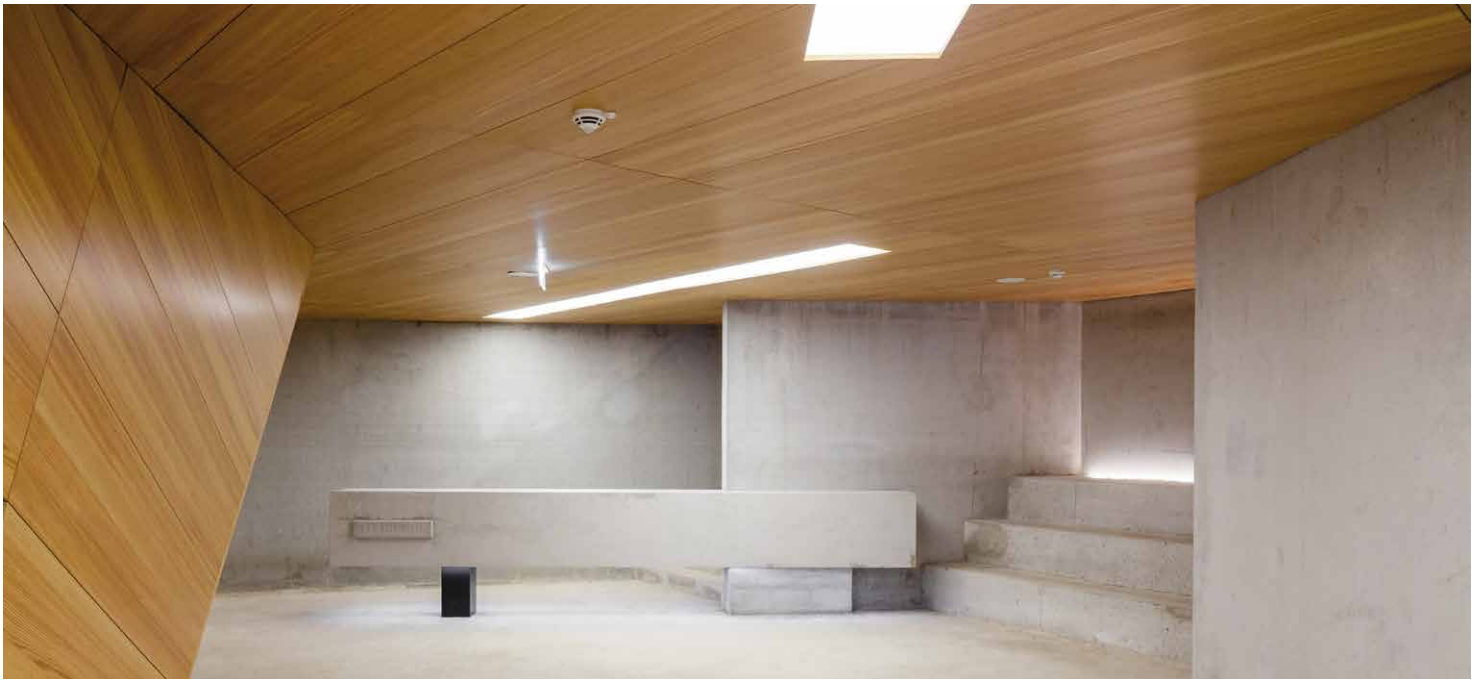
Sound Absorption α_w from 0,60 (LM) - 0,70 (M)

Building material class (inclusive additional fire protection coating) according DIN 4102-1: B1 (Pretest according to standard).



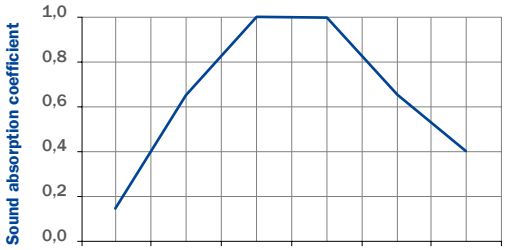
With acoustic sails based on frame constructions, a wide range of applications and implementation possibilities are conceivable. From covering with translucent stretch film and special designed lighting technology behind it for indirect and full-surface illumination of selected areas, to frames with high-quality woollen fabrics - the possibilities are endless. The variation in the surface of our ceiling sails is almost limitless. This diversity is complemented by almost innumerable variants of laser-cut veneer, which, coordinated with wall panelling and furniture, now also adorns the ceiling!





ACOUSTIC EFFECTIVENESS

NUO - microperforated ash tree veneer (engraving T1S)



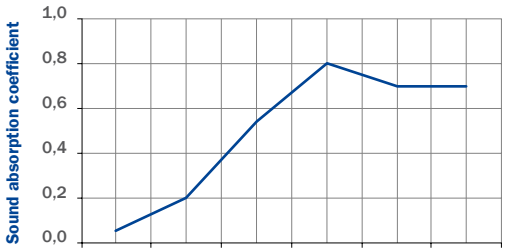
Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
NUO (T1S)	**0,15**	**0,65**	**1,00**	**1,00**	**0,65**	**0,40**

Inclusive aluminium frame and basotect filling
Surface: 11,15 m²; Height of elements: 40 mm

Sound Absorption α_w = 0,60 (LM)
Sound Absorbing Classification D (absorbing)

Single number rating acc. ASTM C 423: SAA = 0,85
Classification acc. ASTM E 1264: NRC = 0,85

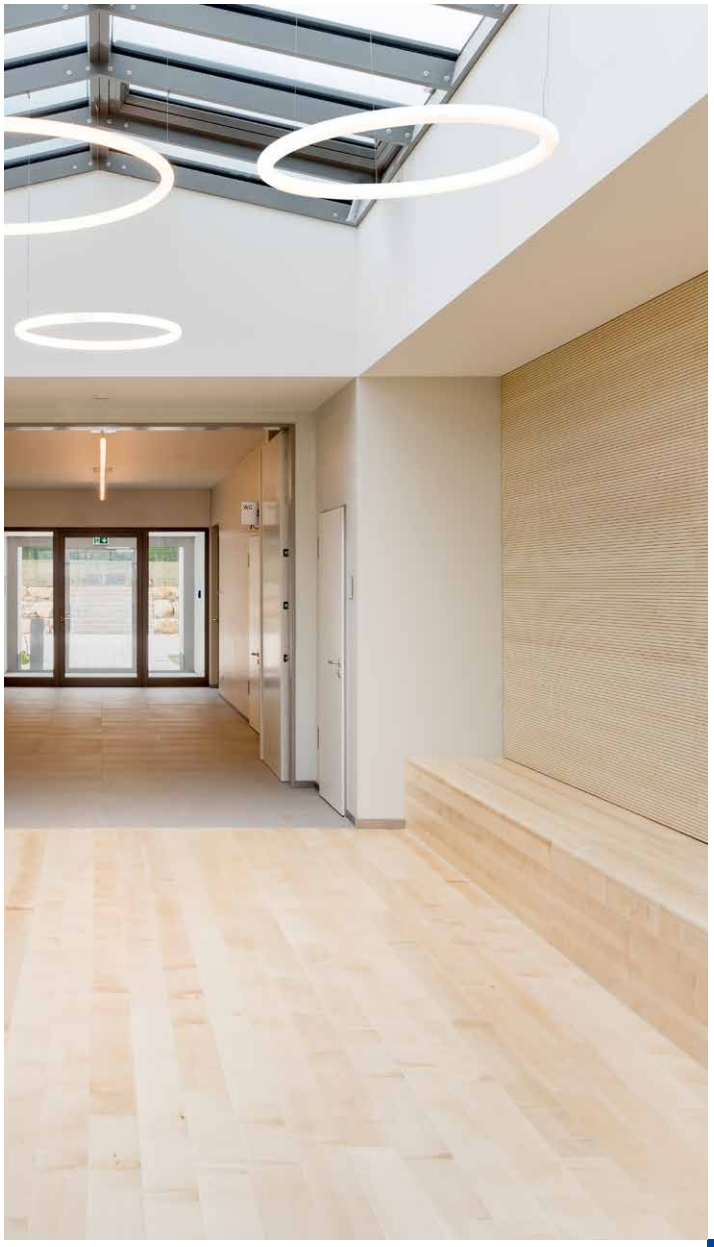
Fabric Series Topia



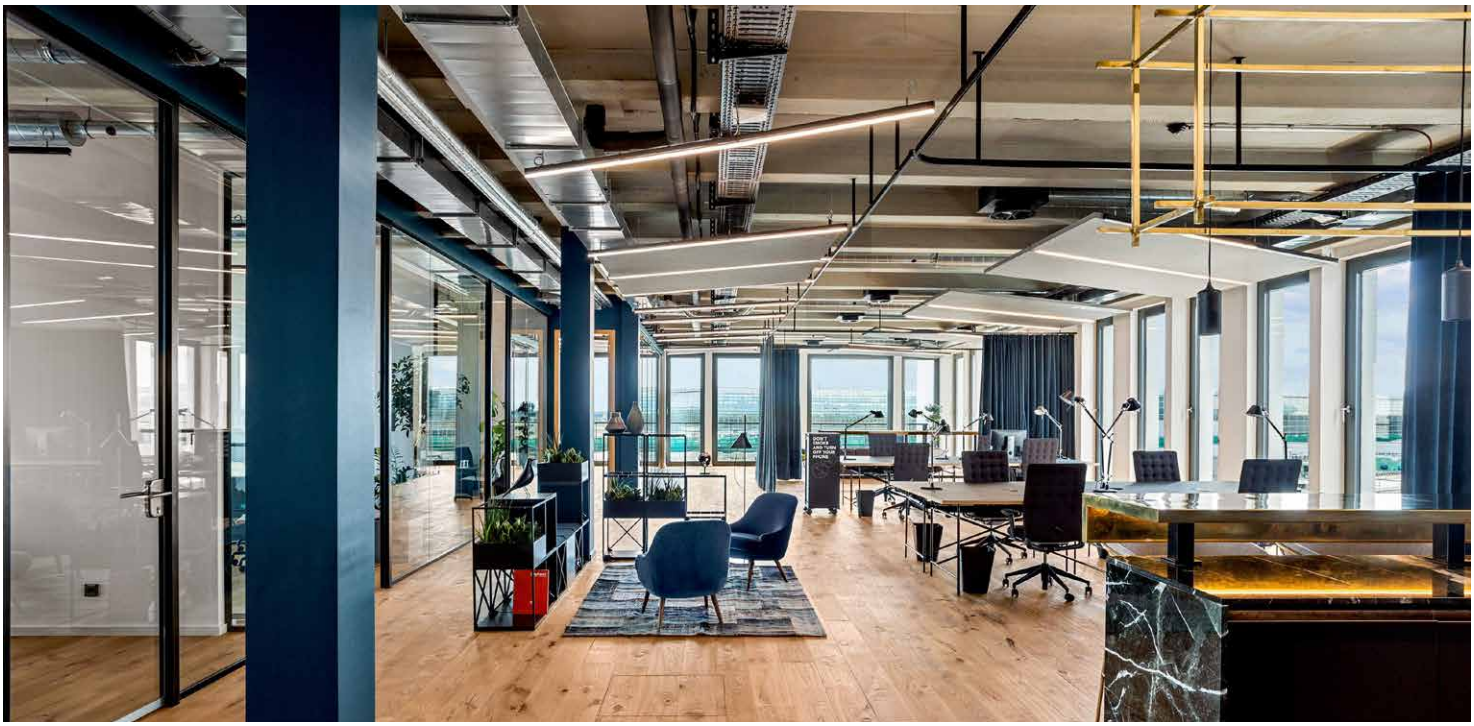
Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
Topia	**0,05**	**0,20**	**0,55**	**0,80**	**0,70**	**0,70**

Wall panel covered 3000 x 3500 mm; Distance to wall: 100 mm
Surface: 10,3 m²; Height of elements: 50 mm

Sound Absorption α_w = 0,50 (MH)
Sound Absorbing Classification D (absorbing)



CEILING SAILS
POLYESTER & MINERAL FIBRE

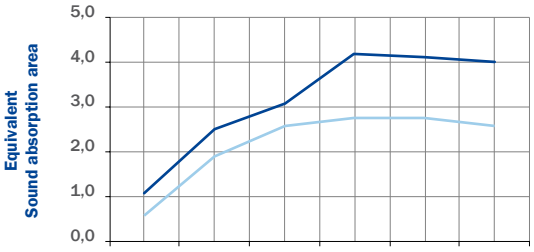


That certain something in the room and a relaxed working atmosphere - the individual design options combine utility and visual appearance.

ACOUSTIC EFFECTIVENESS

Evaluation of sound absorption, measured in a reverberation chamber according to ISO 354.
Based on FAP, FAP D and FAP X canopies:

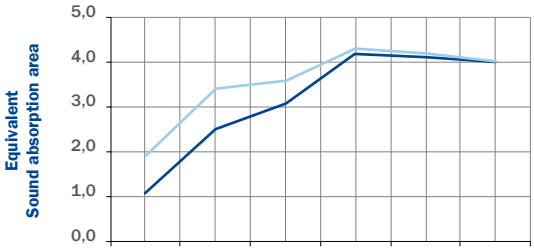
FAP und FAP D



Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
FAP	**1,10**	**2,50**	**3,10**	**4,20**	**4,10**	**4,00**
FAP D	0,60	1,90	2,60	2,75	2,75	2,60

Format: 2.400 x 1.200 x 40 mm
Space above FAP: 200 mm
Space above FAP D: 20 mm

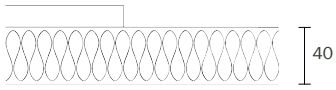
FAP und FAP X



Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
FAP	**1,10**	**2,50**	**3,10**	**4,20**	**4,10**	**4,00**
FAP X	1,90	3,40	3,60	4,30	4,20	4,00

Format: 2.400 x 1.200 x 40 mm
Space above FAP: 200 mm
Space above FAP D: 20 mm

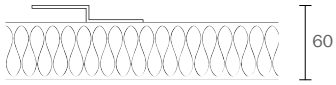
MOUNTING OPTIONS



FAP

FAP: Ceiling sail, suspended from SYS-C-profiles with wire ropes
Minimum suspension height: 150 mm

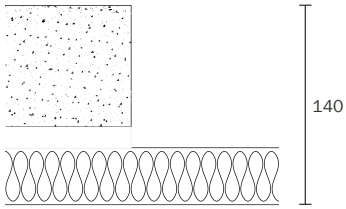
FAP R round: Round ceiling sail, up to 1.200 mm in one piece,
up to 2.400 mm made out of two parts



FAP D INSTALLED DIRECTLY

FAP D directly mounted Ceiling sail, installed with SYS-Z-profile or SYS-C-rail.
Construction height: 60 mm

FAP X with separate depth absorber: Ceiling sails with additional
depth absorber suspended from SYS-C-profiles with wire ropes.
Minimum suspension height: 200 mm



FAP X WITH SEPARATE DEPTH ABSORBER

FAP B lighting: Ceiling sail with integrated usage-related lighting,
suspended from SYS-C-profile with wire ropes. ,
Minimum suspension height: 200 mm

FAP T textile surface: Ceiling sail, covered with fabric of choice

FAP F freeform: Ceiling sail in individual shape, e.g. clouds or letter-shapes

CEILING SAIL MINERAL FIBRE

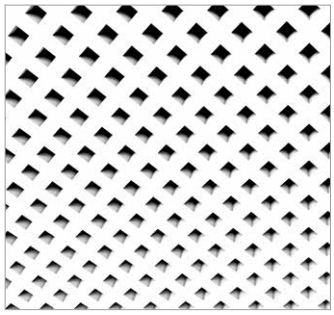
- **Versions:** 2.400 x 1.200 x 40 mm (length x width x height)
  maximum size as single element,
  larger elements also possible in modular form
- **Building material class:** A2-s1, d0 according DIN EN 13501-1
- **Sound Absorption:** A according DIN EN ISO 354 (mounted directly)
- **Standard colour:** white, similar RAL 9003
- **Light reflectance:** 85%, 99% diffuse
- **Surface:** Colour according colour codes, printed or textile-covered
- **Edge finishes:** sharp-edged, tapered edge, stepped edge,
  colour-coated all around
- **Cleaning:** can be wiped with a damp cloth
- **Accessability:** easy to demount
- **Indoor climate:** suitable for rooms of ISO class 6 according EN ISO 14644-1
- **Moisture resistance:** the FAP ceiling sail is resistant up to
  up to a relative humidity of 95 % at 30 °C (according to DIN EN ISO 4611)
- **Weight:** approx. 4.5 kg/m²

ACOUSTIC BAFFLES & LAMELLA

The acoustic baffle is ideally suited for use in buildings with a thermally activated ceiling. The open arrangement of the slats offers the user free access and a view of the installation level behind.

Straight and white or coloured and curved? The arrangement and dimension of the baffle elements can be adapted exactly to your needs. In addition, the baffle solutions offer the possibility of designing the ceiling appearance three-dimensionally.

PERFORATED BOARDS



Matching existing ceiling structures, baffles made of perforated gypsum boards can support existing finishing elements on site.

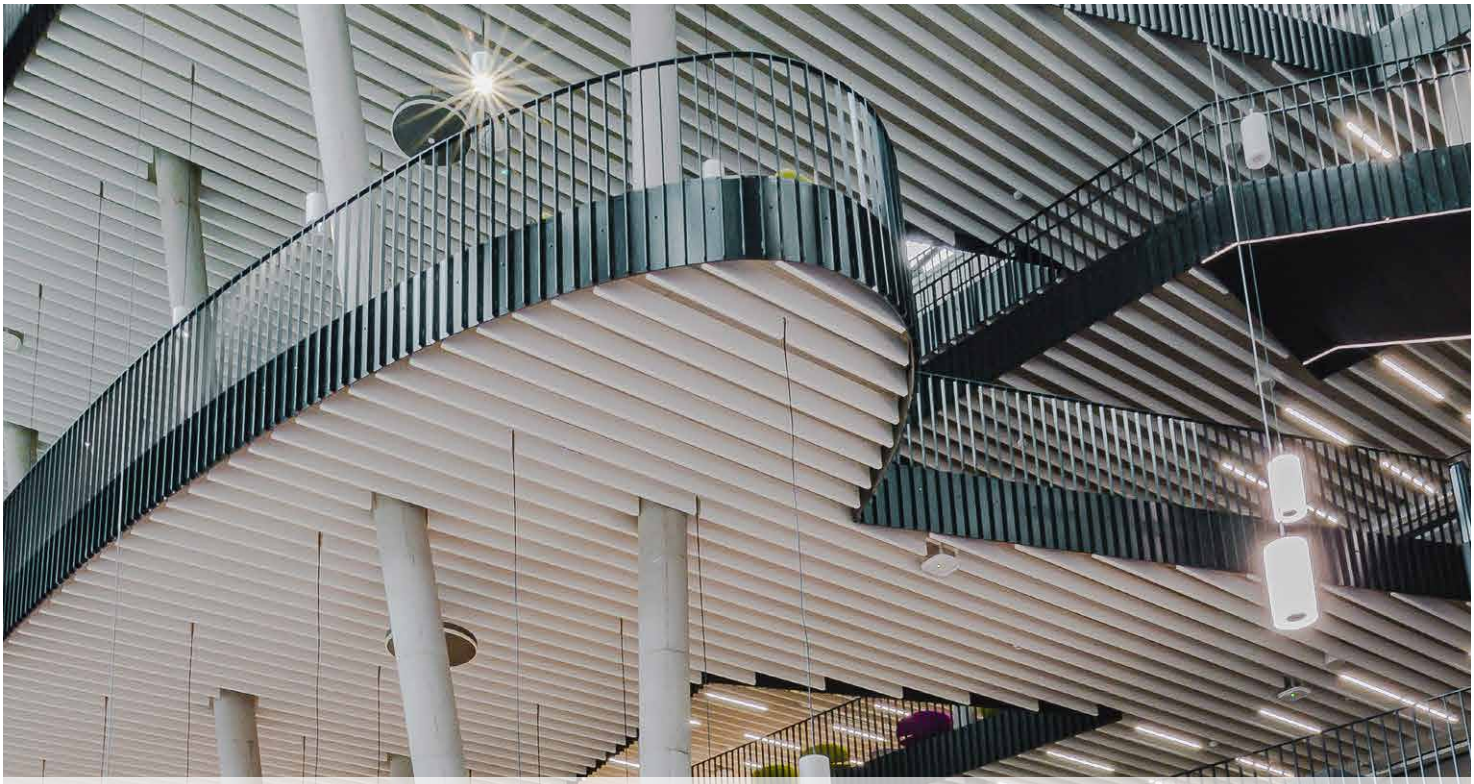
TEXTILE & VENEER

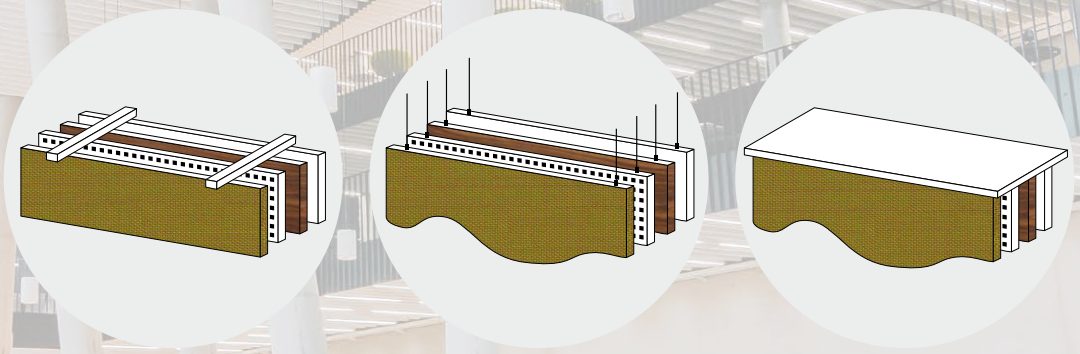
Fabric-covered baffles or slats with real wood veneer blend seamlessly into the existing interior design or can themselves be integrated as a prominent element.

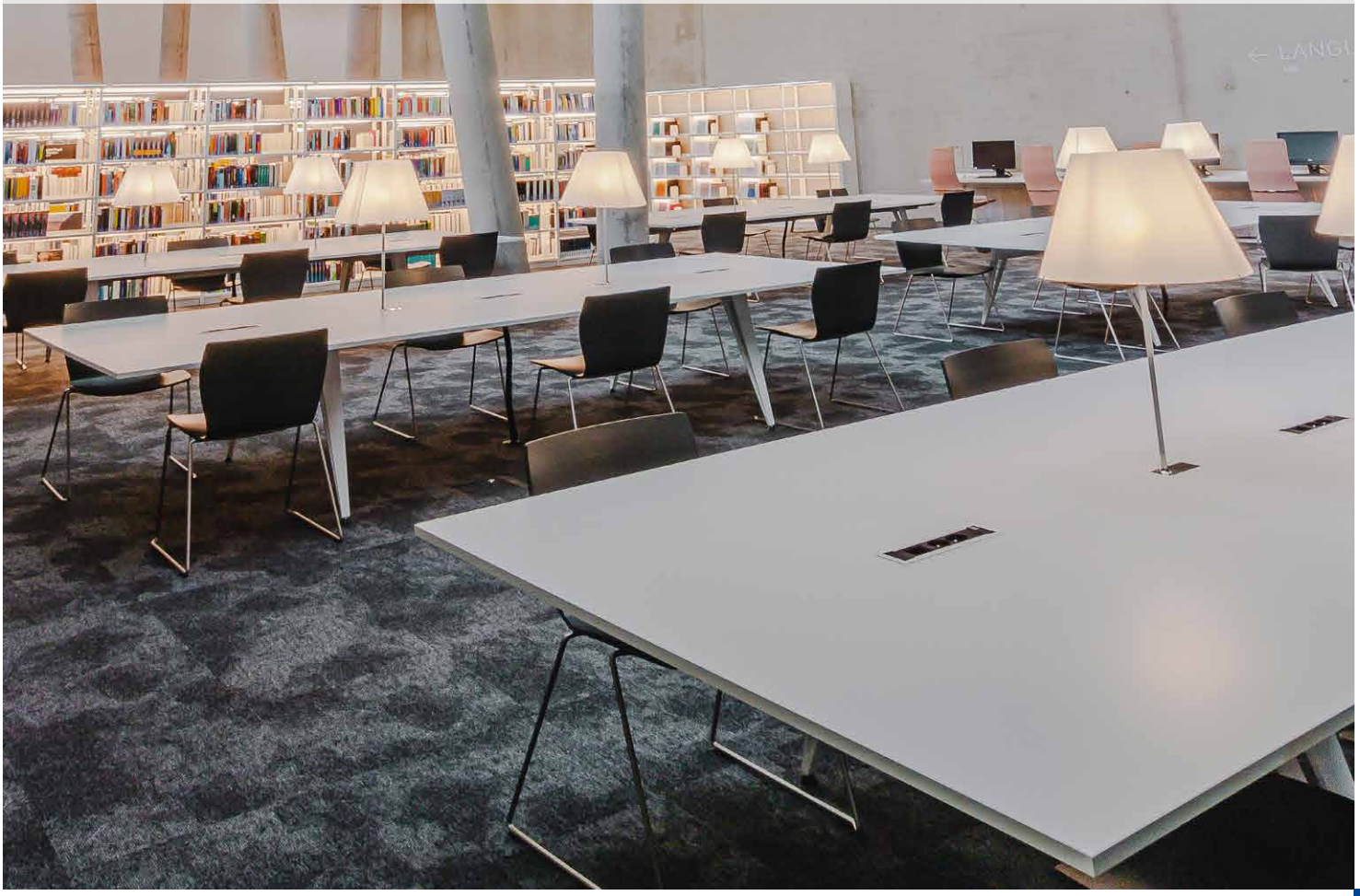
POLYESTER & MINERAL FIBRE

Lightweight constructions with high absorption performance - baffles or 3D structures can be individually implemented using polyester or mineral fibre elements.

LINEAR ACOUSTIC OPTIMISATION





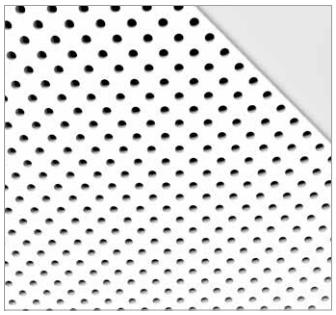


ACOUSTIC BAFFLES & LAMELLA PERFORATED BOARDS

Bending and folding techniques in dry construction allow a wealth of creative design possibilities.

These manufacturing technologies are applicable to the factory prefabrication of high-precision lamellas or baffles. In combination with commercially available trapezoidal construction profiles and connecting elements as well as hangers, a unit of perforated surface and tested suspension in the system is created.

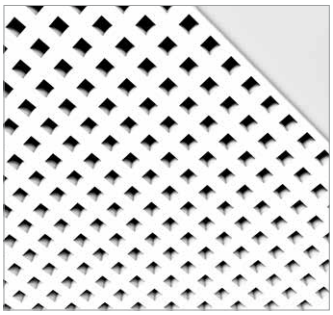
ROUND-PATTERN



Sound absorption α_w from 0,5 - 0,75 (without mineral wool panel SS1)

Building material class according DIN EN 13501: A2-s1, d0

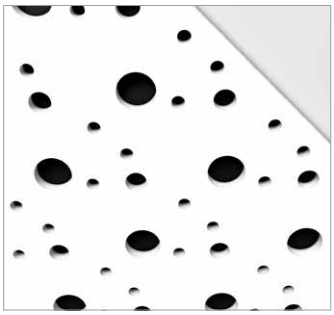
SQUARE-PATTERN



Sound absorption α_w from 0,5 - 0,75 (without mineral wool panel SS1)

Building material class according DIN EN 13501: A2-s1, d0

IRREGULAR-PATTERN

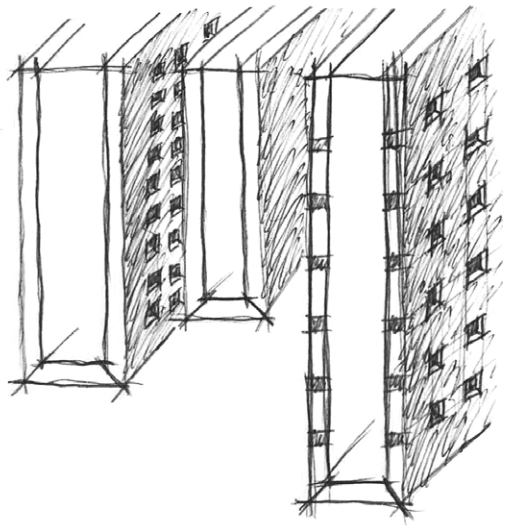


Sound absorption α_w from 0,5 - 0,65 (without mineral wool panel SS1)

Building material class according DIN EN 13501: A2-s1, d0

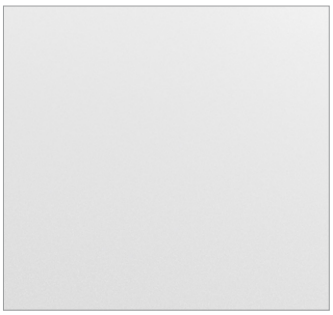
ACOUSTIC BAFFLES PERFORATED BOARDS

- **Building material class:** A2-s1, d0 according DIN EN 13501-1
- **Finish coating:** on site
- **Edge design:** sharp-edged, colour coated all round
- **Interior climate:** Vogl acoustic design panels are equipped with adsorber function (air purification effect) as standard
- **Weight:** according to selected cross-section, dimensions and Pattern
- **Versions:** standard baffle linear



TEXTILE & VENEER

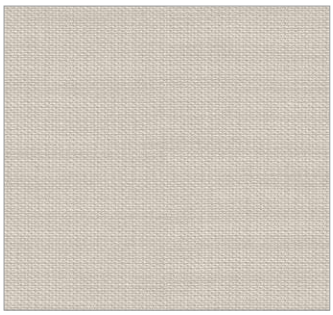
STRECH FOIL



Sound Absorption α_w from 0,4 - 0,5 (without mineral wool panel SSP1)

Building material class according DIN EN 14716: B-s2, d0

FABRIC



Sound Absorption α_w from 0,5 (MH) - 0,8 (H) (without mineral wool panel SSP1)

Building material class according DIN EN 4102-1: B2 (incl. flame protection)

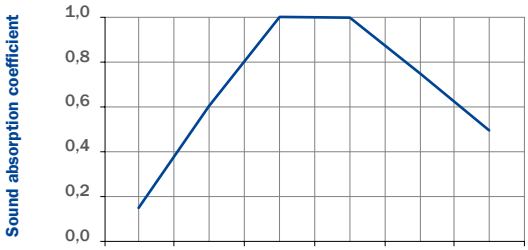
VENEER

Sound Absorption α_w from 0,60 (LM) - 0,70 (M)

Building material class (inclusive additional fire protection coating) according DIN 4102-1: B1 (Pretest according to standard).

ACOUSTIC EFFECTIVENESS

NUO - microperforated walnut veneer (engraving T1S)



Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
NUO T1S	**0,15**	**0,60**	**1,00**	**1,00**	**0,75**	**0,50**

Inclusive Basotect filling
Surface: 11,15 m²; Height of elements: 40 mm
With additional fire protection coating

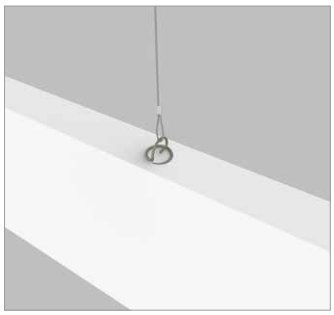
Sound Absorption α_w = 0,70(M)
Sound Absorbing Classification C (high absorbing)

Single number rating acc. ASTM C 423: SAA = 0,86
Classification acc. ASTM E 1264: NRC = 0.85

FLAT HAPTIK (VERTICAL + HORIZONTAL)

ACOUSTIC BAFFLES & LAMELLAE
POLYESTER & MINERAL FIBRE

BTK E

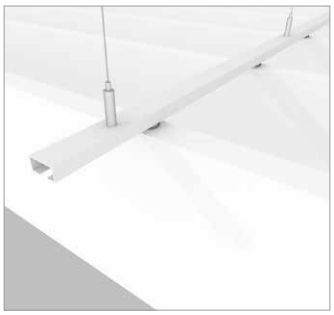


SUSPENDED SEPARATELY

Baffles individually suspended suspended from wire ropes.

Minimum suspension height: 70 mm

BTK C



SUSPENDED BY C-RAIL

Baffles suspended from horizontal C-rail system

Minimum suspension height: 80 mm

BTK K

MOUNTED DIRECTLY

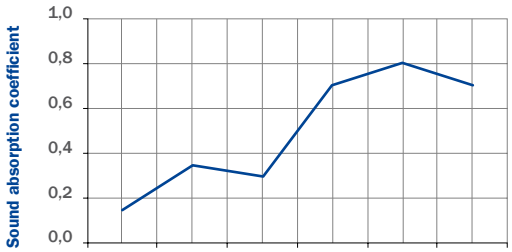
Baffles directly mounted on the ceiling

BTK ACOUSTIC BAFFLE

- **Building material class:** A2-s1, d0 according DIN EN 13501-1
  Standard Color: white, similar to RAL 9003
  Special colours: according to RAL or NCS code
- **Edge finishes:** sharp-edged, colour-coated all round
- **Cleaning:** can be wiped clean with a damp cloth
- **Cooling capacity reduction:** ≤ 3.1 %
- **Demountability:** easy
- **Indoor climate:** suitable for use in rooms of ISO class 6 (according to DIN EN ISO 14644-1)
- **Humidity resistance:** up to a relative humidity of 95 % at 30 °C (acc. to DIN EN ISO 4611)
- **Weight:** approx. 4 kg/m² absorber area
- **Versions:** Standard baffle, frameless
- **Test certificates:** for acoustic properties, ball impact resistance and cooling performance curves, building material classes, mechanical strength

ACOUSTIC EFFECTIVENESS

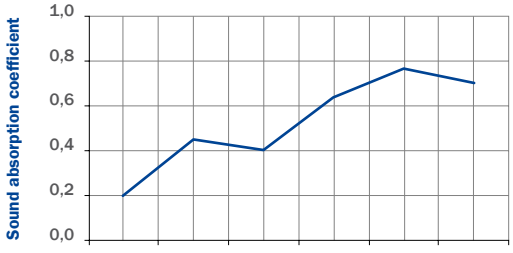
BTK E



Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
BTK E	**0,15**	**0,35**	**0,30**	**0,70**	**0,80**	**0,70**

Baffle height: 200 mm
Distance: 300 mm
Space above Baffle: 100 mm

BTK K



Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
BTK K	**0,20**	**0,45**	**0,40**	**0,65**	**0,75**	**0,70**

Baffle height: 200 mm
Distance: 300 mm
Space above Baffle: without

CEILING ABSORBER

Ceiling absorbers can be retrofitted in rooms with concrete or plasterboard ceilings. Thanks to the specially developed adhesive process, installation can be carried out without the usual building contamination. The high-performance adhesive allows for quick installation, which means that there is no or only little downtime for the rooms. The ceiling absorber is inconspicuous and, thanks to its low installation height of 40 mm, can be used without any room height restrictions. There is of course a wide range of design options with regard to the shape, edges and colour of the absorber.

VARIATIONS

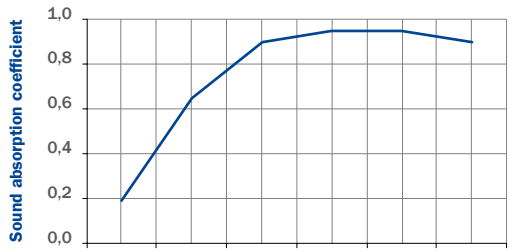
Length: 600 mm, width: 600 mm

With beveled edges

Larger formats as single elements, sharp-edged and in special shapes

ACOUSTIC EFFECTIVENESS

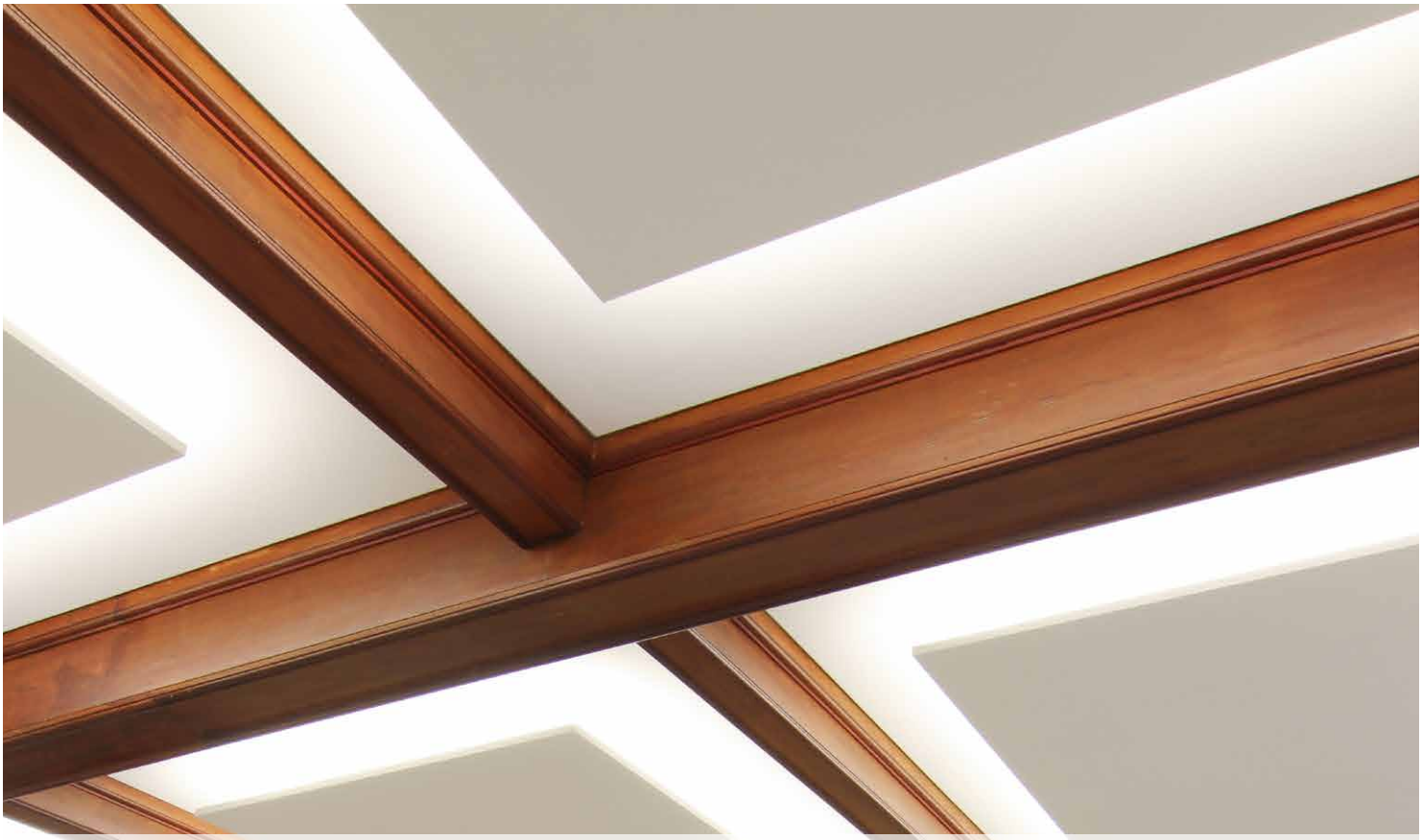
DAK

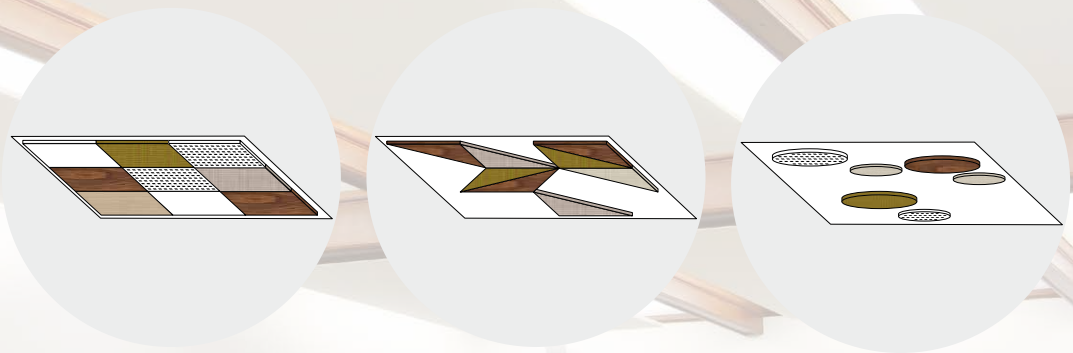


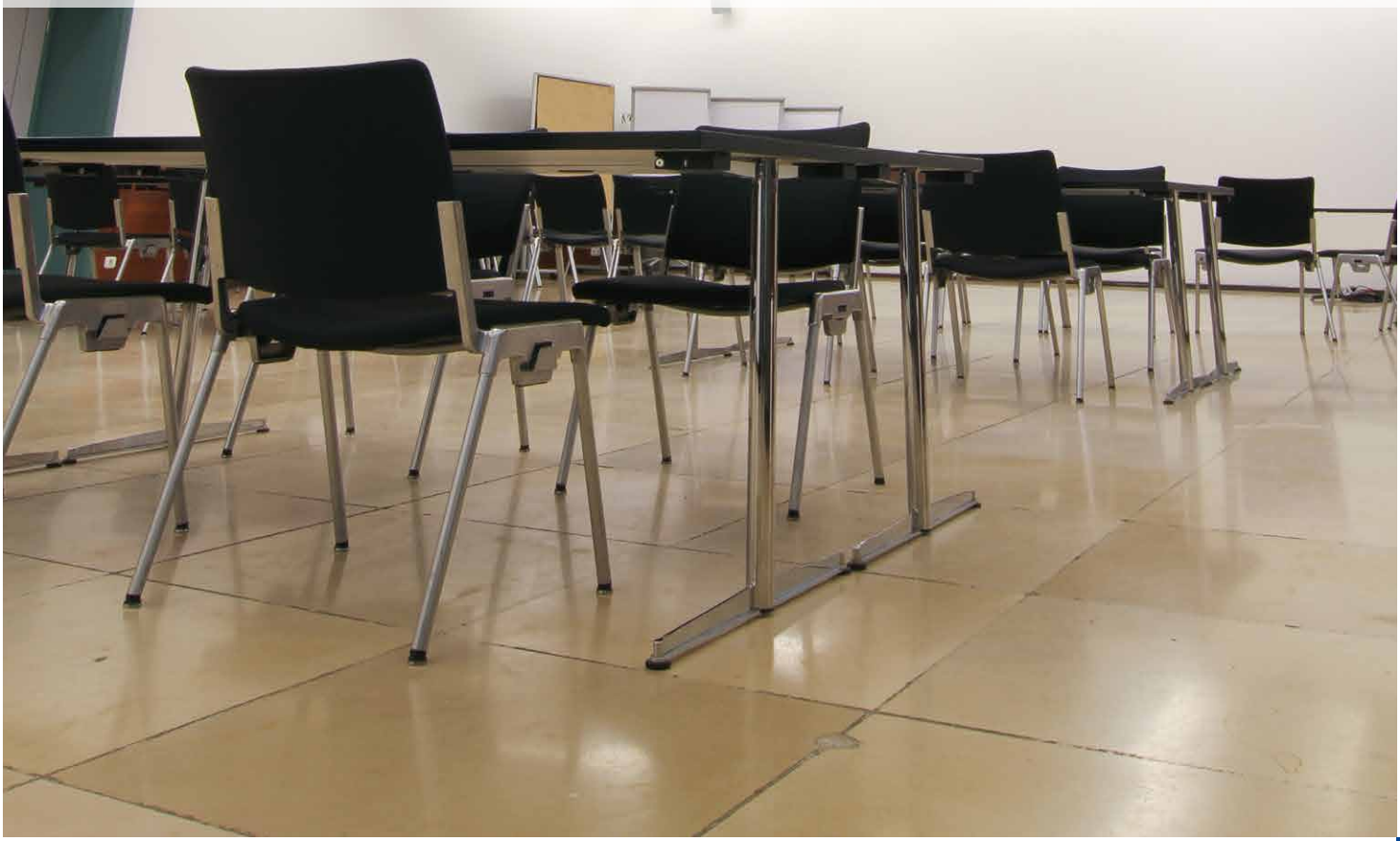
Octave mid-frequency (Hz)	125	250	500	1.000	2.000	4.000
DAK	**0,20**	**0,65**	**0,90**	**0,95**	**0,95**	**0,90**

DAK CEILING ABSORBER

- **Building material class:** A2-s1, d0 acc. to DIN EN 13501-1
- **Sound absorption class:** A according to DIN EN ISO 354
- **Standard colour:** white, similar to RAL 9003
- **Special colours:** according to RAL or NCS code
- **Edge finishes:** high-quality colour-sealed, conical undercut and surface chamfered or sharp-edged cut
- **Demountability:** not demountable
- **Weight:** approx. 4.5 kg/m²







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