WELLNESS FOR YOUR EARS

αKUSTIK®
acoustically effective interior

Staudigel
Acoustics, Furniture & Design
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New development

The ALPHA AKUSTIK panel is a Staudigel development. It was conceived with the objective to develop sound absorbers that are mechanically resilient while having with two identical-looking faces.

Contrary to the other products available on the market, the ALPHA AKUSTIK panel is characterized by its sandwich construction with internal acoustic fleece.

Being located inside the panel, the non-woven is protected from mechanical damage.

This construction is suitable for all our panel types, whether the face pattern has holes or grooves.

The product is ideal for closet doors and for partitions of 17 and 20 mm thickness. It offers an excellent price/performance ratio.

We support planners and builders

To help planners and builders, we prepared some documentation material on how to install ALPHA AKUSTIK panels in an economically efficient way.

We wanted to make sure that you achieve a technically sound, flexible installation with a minimum of parts.

It is our desire to offer technically faultless and visually attractive solutions to the satisfaction of our customers.

ALPHA AKUSTIK – Ideas for Acoustics and Design
Planning and Support Services by the Manufacturer

For special jobs, benefit from our know-how in the field of sound absorption! From planning over measurement to expert’s reports: Rely on our extensive experience gathered from a great variety of projects to receive premium quality. Your project will advance quickly thanks to our professional services with their convincing price/performance ratio.

Our scope of services:

- Project planning and design of sound-absorbing systems
- Measurement of reverberation period acc. to DIN EN ISO 3382:2006
- Measurement of airborne sound insulation between rooms in buildings acc. to ISO 140 - part 3
- Measurement of impact sound insulation of ceilings in buildings acc. to ISO 140 - part 7
- Measurement of sound absorption in the reverberation chamber acc. to DIN EN ISO 354
- Determination of sound insulation acc. to DIN EN ISO 140, part 3
- Expert’s reports on room and building acoustics under consideration of the applicable standards and guideline, e.g. :
  - DIN 18041 – Speech intelligibility in small to medium-sized rooms
  - VDI 2569 – Sound protection and acoustic design in the office
  - DIN EN 12354-6 – Calculation of the acoustic characteristics of a building on the basis of the properties of its components
  - DIN EN ISO 140, part 7 – Measurement of insulation of impact sound of ceilings in buildings
  - DIN EN ISO 140, part 4 – Measurement of insulation of airborne sound

Just contact us – we will be happy to advise!
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  - DIN EN ISO 140, part 7 – Measurement of insulation of impact sound of ceilings in buildings
  - DIN EN ISO 140, part 4 – Measurement of insulation of airborne sound

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**Caution: Dimensional changes may occur with some panel materials**

Wood absorbs and releases moisture in dependence on the moisture content of the ambient air. This is particularly true for acoustic panels as the surface of the material is greatly increased by bore holes and grooves. For this reason, the material supplied by us should be acclimatised sufficiently.

Dimensional changes of MDF panels B2 according to factory specification

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<thead>
<tr>
<th>Dimensional stability</th>
<th>Length/ Moisture 35 - 85%</th>
<th>width 0.5%</th>
<th>thickness 7.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture on delivery</td>
<td>between 5.0 and 9.0%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensional changes of MDF panels B1, flame retardant, according to factory specification

<table>
<thead>
<tr>
<th>Dimensional stability</th>
<th>Length/ Moisture 35 - 85%</th>
<th>width 0.5%</th>
<th>thickness 7.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture on delivery</td>
<td>between 5.0 and 9.0%</td>
<td></td>
<td></td>
</tr>
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Dimensional changes of Sasmox panels A2, non-flammable, according to factory specification

<table>
<thead>
<tr>
<th>Dimensional stability</th>
<th>Length/ Moisture 35 - 85%</th>
<th>width 0.2%</th>
<th>thickness 0.2%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture on delivery</td>
<td>between 2.0 and 3.0%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Important instructions for installation!**

The wall and ceiling panels delivered by the manufacturer may only be mounted if the following conditions are met:

- the respective walls in the building have fully dried,
- sufficient air space has been provided behind the panels,
- the substructure allows for mounting the panels in a distance of approx. 500 mm, and
- the substructure and the expansion joints are in accordance with the materials’ shrinking and swelling behaviour.

For a panel length of 2,000 mm, we recommend a joint of no less than 5 mm!

If you disregard the aspects above when mounting the panels, warping and possibly damage to the panels may occur. **This will not be covered by the manufacturer’s warranty!**
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What are the benefits of sound absorption systems?

Contemporary architecture uses many reverberative materials, for example stone, concrete, glass, and aluminum.

To achieve agreeable room acoustics, it is therefore necessary to install sound absorbers.

Besides meeting all technical requirements, sound-absorbing systems must leave leeway for architectural design.

The ALPHA AKUSTIK element comes up to this double function as a provider of good room acoustics and design features.

The product developed by Staudigel can be used as ceiling or wall paneling or as furniture doorsets. It is available on a per-order basis with veneer, printed veneer or painted surface.

Information about our sound absorption system

- Enhanced room acoustics
- Noise reduction through sound insulation in the room
- Modular acoustic system for an almost unlimited range of sound absorption options
- The ideal product for every application
- High-quality product for interior fittings
- Pre-finished parts available on request

Board material:

- MDF natural-colored, black, or painted
- MDF B1
- Melamine-coated MDF
- Chipboard
- Chipboard B1
- Melamine-coated chipboard
- Sasmox A2
- Multiplex
- OSB boards
Product characteristics

- Manufactured on per-order basis
- Largest available dimension 3600 x 1500 mm for panels with holes, 3600 x 1400 mm for panels with slats
- Optional hole diameter
- Fixed distance between the holes along the length (8/16/32/64)
- Fixed distance between the holes variable along the width
- With or without margin; margin width variable
- Grooves (slats) can also be machined at right angle
- Edges available in veneer or ABS edgebanding, 0.6 - 3 mm
- Solid wood edgebanding available on request
- Closet doors with hinge and lock bore holes
- Molded parts available on request
- Veneer- or melamine-coated panels with tongue-and-groove, standard dimension 3050 x 192 x 17/18 mm, other dimensions available on request

Surfaces

- DD or UV paint, porous or non-porous
- Stained according to color sample
- Surfaces painted in RAL or NCS colors
- Melamine HPL or CPL surfaces available on request

Veneers

- All commercially available veneers
- Exotic woods available on request
- Veneers on a per-customer and per-order basis, with or without sequence, book matched or slip matched
- Standard veneers like beech, maple, Canadian maple, oak, ash, birch as selected by us, or according to colour sample
- Sliced veneers as stripes or with flower
- Rotary cut veneers (e.g. birch)
- Standard veneer thickness 0.6 mm - softwood 0.8 mm
- Back covered in backing foil or cut veneer at our option
Wood is a natural material.

No two trees are identical in colour and structure, and there are even differences within one tree trunk. These natural differences emphasise the authenticity, beauty and expressiveness of grown wood. Every type of wood, primarily unstained wood, will change its colour.

Acoustic non-woven

- Black Soundtex WB, version A2
- Other colours available on request

Delivery periods

- Fast delivery - please contact us for current delivery times

Tests

- Reports on sound absorption tests are available on request

Samples

- A4 sample of your desired product available on request

References

For more information, please visit www.staudigel.de or www.alpha-akustik.de
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proportion of perforated surface 2.7%
Ideas for acoustics and design
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ALPHA-AKUSTIK Hole Face Pattern NANOLITE 0,5 – 2,7 D

acoustic non-woven

cross section A

perforated backing material

proportion of perforated surface 2,6 %
ALPHA-AKUSTIK  Hole Face Pattern NANOLITE 1,0 – 4 G

cross section A

perforated backing material

acoustic non-woven

proportion of perforated surface 4.9 %

as of February 2018
acoustic non-woven

cross section A

perforated backing material

proportion of perforated surface 4,9 %
ALPHA-AKUSTIK  Hole Face Pattern NANOLITE 1,0 – 6 G

- Cross section A
- Acoustic non-woven
- Perforated backing material
- Proportion of perforated surface 2.2%
as of February 2018

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ALPHA-AKUSTIK Hole Face Pattern NANOLITE 1,0 – 6 V

acoustic non-woven

cross section A

perforated backing material

proportion of perforated surface 2,2 %
acoustic non-woven

cross section A

perforated backing material

proportion of perforated surface 1,2 %
ALPHA-AKUSTIK  Hole Face Pattern NANOLITE 1,0 – 8 V

acoustic non-woven

cross section A

perforated backing material

1,2 % proportion of perforated surface

as of February 2018
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ALPHA-AKUSTIK  Hole Face Pattern Type 8/8/5 – 1,2

proportion of perforated surface 2,1 %

acoustic non-woven
ALPHA-AKUSTIK  Hole Face Pattern Type 8/8/5 – 3

proportion of perforated surface 11,8 %
ALPHA-AKUSTIK  Hole Face Pattern Type 16 / 16 / 10 – 3

acoustic non-woven

proportion of perforated surface 4.9 %
ALPHA-AKUSTIK  Hole Face Pattern Type 16/16/10 V – 3

as of February 2018

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acoustic non-woven

proportion of perforated surface 2,7 %
ALPHA-AKUSTIK Hole Face Pattern Type 16/16/5 – 5

acoustic non-woven

proportion of perforated surface 7,7 %
ALPHA-AKUSTIK  Hole Face Pattern Type 16/16/10 – 5

proportion of perforated surface 7.7 %
ALPHA-AKUSTIK  Hole Face Pattern Type 16/8/5 V – 3

- cross section A
  - Acoustic non-woven
  - Proportion of perforated surface 5.4%

- cross section B
  - Diameter 3.0
  - Diameter 5

As of February 2018
ALPHA-AKUSTIK  Hole Face Pattern Type 16/8/10 V – 5

proportion of perforated surface 15.1 %
ALPHA-AKUSTIK  Hole Face Pattern Type 16/16/10 V – 5

proportion of perforated surface 7,6 %
Lochplatte Typ 16/16/8 - 8

19.6% open area

Acoustic non-woven

proportion of perforated surface 19.6%
ALPHA-AKUSTIK  Hole Face Pattern Type 16/8/8 V – 8

proportion of perforated surface 38,5 %
ALPHA-AKUSTIK  Hole Face Pattern Type 16/16/10 – 8

acoustic non-woven

proportion of perforated surface 12.6 %

as of February 2018
ALPHA-AKUSTIK  Hole Face Pattern Type 16/16/10 V – 8

proportion of perforated surface 19,6 %

acoustic non-woven
ALPHA-AKUSTIK Hole Face Pattern Type 16/16/10 – 10

proportion of perforated surface 30,7 %

as of February 2018
ALPHA-AKUSTIK  Hole Face Pattern Type 32 / 32 / 10 – 8

proportion of perforated surface 4,9 %

acoustic non-woven
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ALPHA-AKUSTIK Groove Face Pattern Type 8 – 2 G

Cross section A

Proportion of perforated surface 9.5%

Cross section B

Proportion of perforated surface 9.5%

Acoustic non-woven
ALPHA-AKUSTIK  Groove Face Pattern Type 16 – 2 G

cross section A

acoustic non-woven

proportion of perforated surface 9,5 %

as of February 2018
ALPHA-AKUSTIK  Groove Face Pattern Type 16 – 3 G

acoustic non-woven

proportion of perforated surface 9,5 %
ALPHA-AKUSTIK Groove Face Pattern Type 16 – 4 G

cross section A

cross section B

acoustic non-woven

proportion of perforated surface 9,5 %
ALPHA-AKUSTIK Groove Face Pattern Typ 32 – 2 G

acoustic non-woven

proportion of perforated surface 4.8 %
ALPHA-AKUSTIK  Groove Face Pattern Type 32 – 3 G

cross section B

acoustic non-woven

proportion of perforated surface 4.8%
ALPHA-AKUSTIK Groove Face Pattern Type 32 – 4 G

acoustic non-woven

cross section A

proportion of perforated surface 4.8 %

cross section B

A

B

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alpha-AKUSTIK  Groove Face Pattern 20/N10 – 8 – 2

proportion of perforated surface 12.5 %
ALPHA-AKUSTIK  Groove Face Pattern 20 / N10 – 10.66 – 2

proportion of perforated surface 9.4 %
ALPHA-AKUSTIK  Groove Face Pattern 20/N10 – 16 – 2

proportion of perforated surface 6,2 %

acoustic non-woven
ALPHA-AKUSTIK  Groove Face Pattern 20/N10 – 16 – 3

proportion of perforated surface 9,3 %

acoustic non-woven
ALPHA-AKUSTIK Groove Face Pattern 20/N10 – 16 – 4

proportion of perforated surface 12,5 %
ALPHA-AKUSTIK  Groove Face Pattern 20/N10 – 32 – 2

proportion of perforated surface 3.1 %

acoustic non-woven

as of February 2018
ALPHA-AKUSTIK  Groove Face Pattern 20/N10 – 32 – 3

acoustic non-woven

proportion of perforated surface 4,7 %

as of February 2018
proportion of perforated surface 6.2%
ALPHA-AKUSTIK  Variable Groove Face Pattern 20/N10–VARI–3

proportion of perforated surface 9.3 %
ALPHA-AKUSTIK  Groove Face Pattern Type 8 – 2 BV

proportion of perforated surface 7,7 %
ALPHA-AKUSTIK Groove Face Pattern Type 16 – 2 BV

acoustic non-woven

proportion of perforated surface 7,7 %
ALPHA-AKUSTIK  Groove Face Pattern Type 16 – 3 BV

proportion of perforated surface 11.5 %
ALPHA-AKUSTIK  Groove Face Pattern Type 16 – 4 BV

proportion of perforated surface 15,2 %
ALPHA-AKUSTIK  Groove Face Pattern Typ 32 – 2 BV

proportion of perforated surface 3,9 %
ALPHA-AKUSTIK  Groove Face Pattern Type 32 – 3 BV

proportion of perforated surface 5,8 %
ALPHA-AKUSTIK  Groove Face Pattern Type 32 – 4 BV

proportion of perforated surface 7.6 %
ALPHA-AKUSTIK  Variable Groove Face Pattern Typ VARI–3 BV

proportion of perforated surface 5,8 %
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ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel Type P 8 – 2 G

cross section B

acoustic non-woven

proportion of perforated surface 9,5 %
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel Type P 10,66 – 2 G

as of February 2018

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Ideas for acoustics and design

Proportion of perforated surface 14.3 %
cross section A

cross section B

ACOUSTIC NON-WOVEN

proportion of perforated surface 9.5%
ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Type P 16 – 3 G

cross section B

cross section A

proportion of perforated surface 9,5 %
AS OF FEBRUARY 2018

Ideas for acoustics and design
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ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Type P 16 – 4 G

Cross section A:
- Proportion of perforated surface: 9.5%

Cross section B:
- Acoustic non-woven
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel Typ P 32 – 2 G

Cross section B

Proportion of perforated surface 4.8%
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel Type P 32 – 3 G

proportion of perforated surface 4.8 %

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proportion of perforated surface 4,8 %
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 20/N10 – 8 – 2

proportion of perforated surface 12,5 %
Alphakustik Tongue-and-Groove Slat Panel P 20/N10 – 10.66 – 2

Proportion of perforated surface 9.4%
ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 20/N10 – 16 – 2

proportion of perforated surface 6,2 %
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 20/N10 – 16 – 3

proportion of perforated surface 9,3 %
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 20/N10 – 16 – 4

proportion of perforated surface 12.5 %

as of February 2018
ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 20/N10 – 32 – 2

proportion of perforated surface 3,1 %

acoustic non-woven
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 20/N10 – 32 – 3

proportion of perforated surface 4.7%

Acoustic non-woven
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 20/N10 – 32 – 4

proportion of perforated surface 6,2 %
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 8 – 2 BV

proportion of perforated surface 7.7 %
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 16 – 2 BV

proportion of perforated surface 7.7 %
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 16 – 3 BV

acoustic non-woven

proportion of perforated surface 11,5 %
acoustic non-woven

proportion of perforated surface 15.2%
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 32 – 2 B

proportion of perforated surface 7.6 %
ALPHA-AKUSTIK  Tongue-and-Groove Slat Panel P 32 – 3 B

proportion of perforated surface 5,8 %
acoustic non-woven

as of February 2018

proportion of perforated surface 7.6%
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ALPHA-AKUSTIK  types of patterns for acoustically effective cabinet doors
acoustic non-woven

proportion of perforated surface 2.1 %

as of February 2018
ALPHA-AKUSTIK  acoustically effective cabinet doors 16/16/5 V – 3

proportion of perforated surface 2.7 %
proportion of perforated surface 7.7 %
acoustic non-woven

proportion of perforated surface 19.6%
 ALPHA-AKUSTIK  acoustically effective cabinet doors 20/N10 – 16 – 2
AKUSTIKVLIES
6,2 % offene Fläche

Tür außen                                             Tür innen

Ideas for acoustics and design
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®

as of February 2018

front side of the door
rear side of the door

ALPHA-AKUSTIK  acoustically effective cabinet doors 20/N10 – 16 – 2

proportion of perforated surface 6,2 %

acoustic non-woven
Ideas for acoustics and design of

front side of the door

rear side of the door

proportion of perforated surface 6,2 %

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alpha-akustik.de
ALPHA-AKUSTIK  acoustically effective cabinet doors 20/N10 – 32 – 4

front side of the door

rear side of the door

proportion of perforated surface 6,2 %
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<td>New Development</td>
<td>1</td>
</tr>
<tr>
<td>Support for Planners and Builders</td>
<td>1</td>
</tr>
<tr>
<td>Instructions for Installation, Technical Data</td>
<td>2</td>
</tr>
<tr>
<td>Information on the Sound Absorption System</td>
<td>3</td>
</tr>
<tr>
<td>Detailed Drawings of Hole Face Pattern NANOLITE</td>
<td>4</td>
</tr>
<tr>
<td>Detailed Drawings of Hole Face Pattern</td>
<td>5</td>
</tr>
<tr>
<td>Detailed Drawings of Groove Face Pattern</td>
<td>6</td>
</tr>
<tr>
<td>Detailed Drawings of Tongue-and-Groove Slat Panel</td>
<td>7</td>
</tr>
<tr>
<td>Detailed Drawings of Furniture Doorsets</td>
<td>8</td>
</tr>
<tr>
<td><strong>Complete Solutions for Mobile and Permanent Partition Walls</strong></td>
<td>9</td>
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<tr>
<td>Mounting Types</td>
<td>10</td>
</tr>
<tr>
<td>General Terms and Conditions</td>
<td>11</td>
</tr>
</tbody>
</table>
Acoustics and Design Ideas
Complete Solutions for Mobile and Permanent Partition Walls

Almost all panel types can be used for the complete solutions for mobile and permanent partition walls.

Please contact us to learn more.
ALPHA-AKUSTIK Slot Groove Element Type E 36 20/N10 – 16 – 2

acoustic non-woven

insulating material

proportion of perforated surface 6.2 %
ALPHA-AKUSTIK  Slot Groove Element Type E36 16/16/5 – 5

proportion of perforated surface 7,7 %

insulating material

acoustic non-woven

ideas for acoustics and design
Staudigel GmbH
Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0) 31 9 70 54-0
Fax +49 (0) 31 9 70 54-54
E-Mail: info@staudigel.de · www.staudigel.de

as of February 2018
ALPHA-AKUSTIK  Hole Face Pattern Element Type E36  16/16/8 – 8

proportion of perforated surface 19,6 %
New Development
Support for Planners and Builders .................................................. 1

Instructions for Installation, Technical Data ....................................... 2

Information on the Sound Absorption System .................................. 3

Detailed Drawings of Hole Face Pattern NANOLITE ....................... 4

Detailed Drawings of Hole Face Pattern .......................................... 5

Detailed Drawings of Groove Face Pattern ..................................... 6

Detailed Drawings of Tongue-and-Groove Slat Panel ...................... 7

Detailed Drawings of Furniture Doorsets ........................................ 8

Complete Solutions for Mobile and Permanent Partition Walls ...... 9

Mounting Types ........................................................................... 10

General Terms and Conditions ........................................................ 11
Mounting

- There are various ways to fix the Alpha Akustik panels to the wall and the ceiling.

- Generally, the mounting method must always be carefully adapted to the properties of the respective type of panel and material.

- For technical support, see the examples for mounting methods and substructures in the diagrams below.

This is not a full list of mounting techniques as there are many more installation systems available on the market.

If you have any questions on mounting techniques, please contact Staudigel.

Important instructions for installation

The wall and ceiling panels delivered by the manufacturer may only be mounted if the following conditions are met:

- the respective walls in the building have fully dried,
- sufficient air space has been provided behind the panels,
- the substructure allows for mounting the panels in a distance of approx. 500 mm, and
- the substructure and the expansion joints are in accordance with the materials’ shrinking and swelling behaviour.

For a panel length of 2,000 mm, we recommend a joint of no less than 5 mm!

If you disregard the above aspects when mounting the panels, warping and possibly damage to the panels may occur. This will not be covered by the manufacturer’s warranty!
Wall mounting with suspension rails or metal suspension profiles

Suspension rails or profiles can be screwed directly to the wall or a wood or metal substructure.

Depending on panel type and thickness, the distance between the suspension profiles should be between 500 and 600 mm.
Mounting with threaded profile claw fasteners

Tongue-and-groove panels are mounted to walls and ceilings with threaded claw fasteners. The substructure can be wood or metal; it is always mounted at crosswise to the panels. The substructure is suspended with direct or Nonius suspension pieces.

Mounting with retainer clips

Panels with wooden substructures can be mounted with standard nailer guns.
Wall and ceiling connection

wall / ceiling connection with shadow gap

wall / ceiling connection with cover strip

wall / ceiling connection with edge frieze
Corner solutions

Outside corner, miter joint, with horizontal grooves

Outside corner, miter joint, with vertical grooves

Inside corner, butt joint
Mounting with cap profile DP 59

With metal substructures, panels of max. 3000 x 625 mm can be mounted with a cap profile. This mounting type is suitable for ceilings and walls. All joint widths can be produced by milling to the desired dimension.
Information

Panel mounting system

Area of application
The panel mounting system covers walls. The basic construction is created by hook-in profiles. This system provides easy and efficient installation.

Note
For panel widths 0.7-1.0 m and panel height 3.0 m you need:
> 3 vertical hook-in profilas 3.0 m each
> 3 horizontal hook-in profilas 1.0 m each

Anwendungen
Wandanschluss

Installation

1) Distance: ≥120 mm
2) Mounting distance

Mount top horizontal hook-in profile at a distance of min. 120 mm to lower edge of ceiling. Hook vertical profilas into the mounted top horizontal profile and mark mounting heights of further horizontal hook-in profilas.

3) Mount vertical hook-in profilas to panel (top edge flush) and shorten lower edge of panel as required.
Room Design

Panel mounting system

Hook-in profile, ➔ horizontal

Note
Use flat head screws around the area by the hook of the vertical hook-in profile, in order to ensure sufficient stability.

→ vertical

• Material: Steel
• Finish: Galvanized
• Installation: For screw fixing to panel and hooking into horizontal hook-in profile
• Length: 3,000mm

<table>
<thead>
<tr>
<th>Hook-in profile, vertical</th>
<th>Cat No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>783.51 933</td>
</tr>
</tbody>
</table>

Packing: 1 piece
Room System
Panel mounting system

Eilox Panel mounting system
For easy construction of pre-walls

• Exact fit provided by hook-in lips
• Same rail for wall and component
• With flange on the underside, e.g. for guiding cables
• Extremely low installation height and therefore space saving

Application
The Eilox panel mounting system originated from store fixtures. This system provides fast mounting, quick and easy conversion or replacement of elements.
The Eilox hook-in profile is used for mounting wall panels as well as for wall units, pictures, mirrors and wall cladding.
Profile sills, promotional elements, displays, impact protection panels are easily, reliably and invisibly fixed with Eilox.

Eilox Standard Hook-in profile

- Material: Aluminium
- Version: Screw holes at 96 mm intervals, for Hospa 5.0 or Varianta 6.0
- Installation: For screw fixing

Note
Max. 1,000 mm height distance between 2 hook-in profiles.

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Cat No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>783.53 .001</td>
</tr>
<tr>
<td>6050</td>
<td>783.53 .006</td>
</tr>
</tbody>
</table>

Packing: 1 piece

Order reference
Rails without holes for glue fixing available on request.

Eilox Mini Hook-in profile

- Material: Aluminium
- Version: Screw holes at 64 mm intervals, for Hospa 4.5
- Installation: For screw fixing

Note
Max. 600 mm height distance between 2 hook-in profiles.

<table>
<thead>
<tr>
<th>Length mm</th>
<th>Cat No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>783.53 .011</td>
</tr>
</tbody>
</table>

Packing: 1 piece

Order reference
Rails without holes for glue fixing available on request.
Information
Häfele Keku R Room System

Häfele Keku R is used for interior fitting stores and exhibition booth construction. The Häfele Keku R room system is a substructure made of aluminium profiles, used for cladding walls and ceilings. It is also suitable for creating freestanding lightweight and double partitions.

Different fitting components are available for fixing the supporting profiles.

1. Supporting profile
2. Floor and ceiling profile
3. Profile connector
4. Wall and ceiling installation set with 3-way adjustment
5. Wall spacer with 3-way adjustment
6. Threaded bar
7. Perforated gap profile
8. Non-perforated gap profile
9. Gap profile securing clip
10. System screw
11. Adjusting profile
12. Height adjusting screw
13. Vertical connector
14. Corner bracket 90°
15. Gap profile
16. Panel connector
17. Tie bar
18. H-profile slide-in connector
19. Insert suspension fitting
20. Slide-in connector

The order overview for the system can be found from page MB 13.8 onwards. The fittings for the system can be found from page MB 13.10 onwards.

- Application examples
- Mounting options
- Planning documentation
- CAD downloads can be found at www.hafele.com

Panel attachment

The Keku R system fittings that are attached to the supporting profile allow cladding elements to be removed and hooked-in again, e.g. for retrofitting.

1. ASR frame component
2. AS panel component
3. EHS frame component
4. EH panel component
## Room System
### Häfele Keku R

#### Keku R Room system individual components

<table>
<thead>
<tr>
<th>No.</th>
<th>Component Description</th>
<th>Length (mm)</th>
<th>Material</th>
<th>Finish</th>
<th>Packing</th>
<th>Cat No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Supporting profile</strong> H-shaped, for erecting, tightening and aligning the frame structure, for fixing push-in and suspension fittings in system 32</td>
<td>6000</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 piece</td>
<td>782.10.006</td>
</tr>
<tr>
<td>2</td>
<td><strong>Floor and ceiling profile</strong> U-shaped, for erecting, tightening and aligning the frame structure</td>
<td>6000</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 piece</td>
<td>782.11.006</td>
</tr>
<tr>
<td>3</td>
<td><strong>Profile connector 90°</strong>, for connecting supporting profiles to floor and ceiling profiles</td>
<td>–</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 or 10 pieces</td>
<td>782.15.060</td>
</tr>
<tr>
<td>4</td>
<td><strong>Wall and ceiling Installation set with 3-way adjustment</strong>, for wall and ceiling installation of supporting profile, note: Please order washer and M8 hexagonal nut separately.</td>
<td>–</td>
<td>Steel</td>
<td>Galvanized</td>
<td>1 or 10 pieces</td>
<td>782.00.900</td>
</tr>
<tr>
<td>5</td>
<td><strong>Wall spacer with 3-way adjustment</strong>, for wall and ceiling installation of supporting profile, note: Please order washer and M8 hexagonal nut separately.</td>
<td>–</td>
<td>Steel</td>
<td>Galvanized</td>
<td>1 or 10 pieces</td>
<td>782.00.910</td>
</tr>
<tr>
<td>6</td>
<td><strong>Threaded bar</strong>, for wall spacer with 3-way adjustment where a larger distance to the wall is required</td>
<td>1000</td>
<td>Steel</td>
<td>Galvanized</td>
<td>25 pieces</td>
<td>020.80.908</td>
</tr>
<tr>
<td>7</td>
<td><strong>Slotted gap profile</strong>, for hooking into brackets and merchandise display rails (H-shaped)</td>
<td>3000</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 piece</td>
<td>782.14.003</td>
</tr>
<tr>
<td>8</td>
<td><strong>Gap profile without slots</strong>, for covering the supporting profile (H-shaped)</td>
<td>3000</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 piece</td>
<td>782.13.003</td>
</tr>
<tr>
<td>9</td>
<td><strong>Gap profile securing clip</strong>, for securing the slotted gap profile</td>
<td>–</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 or 10 pieces</td>
<td>782.15.090</td>
</tr>
<tr>
<td>10</td>
<td><strong>System screw</strong> self-tapping, for installation of all fittings and connectors of the Keku R room system range</td>
<td>–</td>
<td>Steel</td>
<td>Galvanized</td>
<td>1 or 100 pieces</td>
<td>782.17.900</td>
</tr>
</tbody>
</table>
## Room System
### Häfele Keku R

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Length mm</th>
<th>Material</th>
<th>Finish</th>
<th>Packing</th>
<th>Cat No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Adjusting profile</strong>, for fixing the floor and ceiling profile</td>
<td>3000</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 piece</td>
<td>782.12.003</td>
</tr>
<tr>
<td><strong>Height adjusting screw</strong> with slot nut, for tightening and aligning the floor and ceiling profile</td>
<td>–</td>
<td>Steel</td>
<td>M8 screw: Chromatized slot nut: Bright</td>
<td>1 or 10 pieces</td>
<td>782.16.000</td>
</tr>
<tr>
<td><strong>Vertical connector</strong>, for joining (extending) supporting profiles or floor and ceiling profiles</td>
<td>–</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 or 10 pieces</td>
<td>782.15.010</td>
</tr>
<tr>
<td><strong>Corner bracket 90°</strong>, for 90° corner connection of two supporting profiles</td>
<td>–</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 or 10 pieces</td>
<td>782.15.080</td>
</tr>
<tr>
<td><strong>Gap profile</strong> for panels, for backing/connecting panels with horizontal gaps of 0–30 mm</td>
<td>3000</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 piece</td>
<td>782.14.010</td>
</tr>
<tr>
<td><strong>Panel connector</strong>, for connecting panels, creates flush surfaces with large distances between supporting profiles</td>
<td>–</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 piece</td>
<td>782.15.120</td>
</tr>
<tr>
<td><strong>Tie bar</strong>, front H-profile, for T-shaped connections horizontally positioned on supporting profile (lateral system 32 drill holes)</td>
<td>–</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 or 10 pieces</td>
<td>782.15.030</td>
</tr>
<tr>
<td><strong>Slide-in connector</strong>, lateral H-profile, for T-shaped connections horizontally positioned on supporting profile (front system 32 drill holes)</td>
<td>–</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 or 10 pieces</td>
<td>782.15.070</td>
</tr>
<tr>
<td><strong>Insert suspension fitting</strong>, for suspending supporting profiles or ceiling profiles with suspended ceiling constructions</td>
<td>–</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 or 10 pieces</td>
<td>782.15.100</td>
</tr>
<tr>
<td><strong>Slide-in connector</strong>, for connecting supporting profiles to make double stands of 110 mm</td>
<td>–</td>
<td>Aluminium</td>
<td>Bright</td>
<td>1 or 10 pieces</td>
<td>782.15.110</td>
</tr>
</tbody>
</table>
FRÜH Unterkonstruktionen

Schnellbauschienen
Art.-Nr. 4502-01-1-2500 und
Art.-Nr. 4502-01-1-3000
Art.-Nr. 270 (alt)
18 mm Steghöhe

AER Klipp
Art.-Nr. 4510-01-1
Art.-Nr. 270 (alt)

Wandschienen
Art.-Nr. 4502-02-1-2500
Art.-Nr. 280 (alt)
8 mm Steghöhe

Paneeldrehklipp
3 - 7 mm Nutwange
10 - 20 mm Fuge

Profilholzdrehklipp
2,5 - 5 mm Fuge

Stockschrauben
60/ 80/ 100/ 125/ 150 mm

Spezial- und Kontermuttern
Nr. 525/M5

Disko-Klick
1/ 3/ 5 mm

Direkte Montage auf Wand oder Decke

Auf ebene und glatte Flächen kann die Unterkonstruktion direkt aufmontiert werden. Beachten Sie aber bitte, dass jede direkt und fest anliegende Konstruktion von allen möglichen Ausführungen die Schlechtesten ist, weil sie nur dekorative Funktionen wahrnehmen kann.

Schnellbauschienen
Art.-Nr. 4502-01-1-2500 und
Art.-Nr. 4502-01-1-3000
Art.-Nr. 270 (alt)

Drehklipp

Wandschienen
Art.-Nr. 4502-02-1-2500
Art.-Nr. 280 (alt)
8 mm Steghöhe

Holzunterkonstruktion

FRÜH-Krallen verschiedener Art und Ausführung zur Montage von Profilholz, Oaneelen und Platten auf Holzunterkonstruktionen
Montage mit Abstand von Wand oder Decke


Materialbedarfsermittlung/ Stückliste System 4502-01-1 und 4502-02-1

Ihr Bedarfswerte können Sie wie folgt ermitteln:

- Masse = Länge x Breite der zu verkleidenden Wand/Decke.
- Nach Angaben der Paneelhersteller Schienenabstand einteilen.
- Faustregel bei 90 Grad Verlegung ca. alle 50 cm, bei 45 Grad (Diagonal-Verlegung) alle 35 - 40 cm, Paneel-Längsstoss beachten:
  - Abhänge/Ausgleichshöhe.
  - Drehklippenbedarf richtet sich nach Paneel-/Profilholzbreite.
  - Anf./Enddrehklipse = Schienenreihen x 2.
## System overview – Ceiling systems

### Ball proof systems

<table>
<thead>
<tr>
<th>Systemnummer</th>
<th>Beschreibung</th>
</tr>
</thead>
<tbody>
<tr>
<td>270</td>
<td>Metallkonstruktion für ballwurfsichere Unterdecken mit Akustikplatten</td>
</tr>
<tr>
<td>273</td>
<td>Metallkonstruktion für ballwurfsichere Wandverkleidung mit Akustikplatten</td>
</tr>
<tr>
<td>280</td>
<td>Metallkonstruktion für ballwurfsichere Unterdecken mit Akustikplatten</td>
</tr>
<tr>
<td>283</td>
<td>Metallkonstruktion für ballwurfsichere Wandverkleidung mit Akustikplatten</td>
</tr>
<tr>
<td>285</td>
<td>Metallkonstruktion für ballwurfsichere Unterdecken mit Akustikplatten</td>
</tr>
</tbody>
</table>
Ceiling system 270

**System**
Metal suspension system for sport halls

**suitable for**
Wood fiber panels or similar with kered sides, demountable

**Characteristic**
Symmetric system with characteristic joints

### Technical data

<table>
<thead>
<tr>
<th>Pos./item</th>
<th>Bestell-Nr.</th>
<th>Bezeichnung</th>
<th>Materialdicke</th>
<th>Länge</th>
<th>Verp.-Einheit</th>
<th>Bedarf pro m²</th>
<th>quantity per sqm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>order no.</td>
<td>description</td>
<td>thickness</td>
<td>length</td>
<td>packing unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/30</td>
<td></td>
<td>Noniushänger-Oberteil</td>
<td>1,00 mm</td>
<td>nach Bedarf</td>
<td>100 Stück/pcs</td>
<td>0,67 Stück/pcs</td>
<td>0,67 Stück/pcs*</td>
</tr>
<tr>
<td>1/14</td>
<td></td>
<td>Nonius-Sicherungsklammer</td>
<td>2,50 mm</td>
<td>60 mm</td>
<td>100 Stück/pcs</td>
<td>1,34 Stück/pcs</td>
<td>1,34 Stück/pcs*</td>
</tr>
<tr>
<td>1/37 C 62</td>
<td></td>
<td>Noniushänger-Unterteil</td>
<td>1,25 mm</td>
<td>122 mm</td>
<td>100 Stück/pcs</td>
<td>0,67 Stück/pcs</td>
<td>0,67 Stück/pcs*</td>
</tr>
<tr>
<td>DP 16</td>
<td></td>
<td>Trageprofil/Interprofil</td>
<td>0,75 mm</td>
<td>4.000 mm</td>
<td>32 Meter</td>
<td>2,40 Meter</td>
<td>2,40 Meter</td>
</tr>
<tr>
<td>1/104</td>
<td></td>
<td>Längsverbinder</td>
<td>0,50 mm</td>
<td>110 mm</td>
<td>100 Stück/pcs</td>
<td>0,60 Stück/pcs</td>
<td>0,60 Stück/pcs*</td>
</tr>
<tr>
<td>WA 16</td>
<td></td>
<td>Wandanschlussschuh</td>
<td>1,00 mm</td>
<td>50 mm</td>
<td>100 Stück/pcs</td>
<td>nach Bedarf</td>
<td>nach Bedarf</td>
</tr>
<tr>
<td>1/22 A</td>
<td></td>
<td>Kreuzschnellverbinder</td>
<td>1,00 mm</td>
<td>64,5 mm</td>
<td>100 Stück/pcs</td>
<td>1,28 Stück/pcs</td>
<td>1,28 Stück/pcs*</td>
</tr>
<tr>
<td>DP 59</td>
<td></td>
<td>Hutprofil</td>
<td>0,60 mm</td>
<td>5.000 mm</td>
<td>50 Meter</td>
<td>2,40 Meter</td>
<td>1,60 Meter</td>
</tr>
<tr>
<td>DP 37 L</td>
<td></td>
<td>Wandwinkelprofil</td>
<td>nach Bedarf</td>
<td>4.000 mm</td>
<td>40 Meter</td>
<td>nach Bedarf</td>
<td>nach Bedarf</td>
</tr>
<tr>
<td>DP 59 H</td>
<td></td>
<td>Z-Abschlussprofil</td>
<td>0,60 mm</td>
<td>5.000 mm</td>
<td>50 Meter</td>
<td>nach Bedarf</td>
<td>nach Bedarf</td>
</tr>
<tr>
<td>2/421</td>
<td></td>
<td>Befestigungsschraube</td>
<td>3,50 mm</td>
<td>16 mm</td>
<td>1.000 Stück/pcs</td>
<td>2,56 Stück/pcs</td>
<td>2,56 Stück/pcs*</td>
</tr>
</tbody>
</table>

*Empfehlung: Auf 1,5 m² Deckenfläche ist die Konstruktion mit mindestens 1 Abhänger zu montieren.*

We recommend at least one hanger per 1.5 sqm ceiling area.
## Acoustically Effective Interior

<table>
<thead>
<tr>
<th>No.</th>
<th>Bestell-Nr.</th>
<th>Kennziffer</th>
<th>Bezeichnung / Oberfläche</th>
<th>Materialdicke</th>
<th>Länge</th>
<th>Verp.-Einheit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/30</td>
<td>2616</td>
<td></td>
<td>Noniushänger-Oberteil, verzinkt</td>
<td>1.00 mm</td>
<td>150 mm</td>
<td>100 Stück/pcs</td>
</tr>
<tr>
<td></td>
<td>2618</td>
<td></td>
<td></td>
<td>1.00</td>
<td>200</td>
<td>100</td>
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<tr>
<td></td>
<td>2620</td>
<td></td>
<td></td>
<td>1.00</td>
<td>300</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>2622</td>
<td></td>
<td></td>
<td>1.00</td>
<td>400</td>
<td>100</td>
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(schnittkanten haben keine farbe)

(coil coated white similar to RAL 9010)
(coil coated black similar to RAL 9011)

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