

WELLNESS

FOR YOUR EARS

- **AlphaAKUSTIK®**
acoustically effective interior



STAUDIGEL®
Acoustics, Furniture & Design

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| New Development | |
| Support for Planners and Builders | 1 |
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Market innovation

The new ALPHA AKUSTIK panel is an original Staudigel in house development. It was conceived to create a sound absorbing panel that equally serves a functional mechanical purpose while maintaining high quality and an appealing visual appearance.

Contrary to other products available on the market, the ALPHA AKUSTIK panel is characterized by its sandwich construction. A two sided panel construction featuring an internal layer of acoustic fleece.

Being located inside the panel, this acoustic fleece (a special type of non-woven fabric) is securely protected from mechanical damage.

This sandwich construction is applicable on all of our products, whether the face pattern has holes or grooves.

The product is ideally suitable for an application as closet doors or partitions of 17mm or 20mm thickness.

Assistance for planning and construction

In order to help planners and constructors we are providing recommendations on how to install the ALPHA AKUSTIK panels in an economically efficient way.

Our aim is to ensure an easy and flexible yet professionally accurate installation.

ALPHA AKUSTIK is offering a technically impeccable product without diminishing the creative freedom of our customers.

ALPHA AKUSTIK – Ideas for Acoustics and Design

Advisory services by the manufacturer

Take benefit of our long lasting and growing know-how in the realms of sound absorbing products. Whether it is planning, measuring or the preparation of technical reports: Rely on our substantial experience gathered from a wide variety of successfully concluded projects in order to receive premium quality. Your project quickly will progress thanks to our professional services and the 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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Caution: Dimensional changes may occur with some materials

Wood as well as wooden composite materials naturally tend to inherit or expel moisture caused by the given humidity of its surrounding environment. For this reason materials provided by us always must be acclimatized sufficiently prior to further application.

Dimensional changes of MDF panels B2 according to factory specification

| | | |
|-----------------------|-----------|--------------|
| Dimensional stability | Length/ | |
| Moisture 35 - 85% | width | 0.5% |
| | thickness | 7.0% |
| Moisture on delivery | between | 5.0 and 9.0% |

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

| | | |
|-----------------------|-----------|--------------|
| Dimensional stability | Length/ | |
| Moisture 35 - 85% | width | 0.5% |
| | thickness | 7.0% |
| Moisture on delivery | between | 5.0 and 9.0% |

Dimensional changes of Sasmox panels A2, non-flammable, according to factory specification

| | | |
|-----------------------|-----------|--------------|
| Dimensional stability | Length/ | |
| Moisture 35 - 85% | width | 0.2% |
| | thickness | 0.2% |
| Moisture on delivery | between | 2.0 and 3.0% |

Important instructions for assembly!

The ALPHA AKUSTIK wall- and ceiling panels may only be mounted if all of these given criteria are met:

- The corresponding walls in the building have fully dried.
- A sufficient gap and airflow behind the panels is provided.
- The corresponding wall must be suitable for attaching the substructure of the panels in a grid of approx. 500mm distance.
- The substructure and the expansion joints are in accordance with the materials' given dimensional stability / humidity behavior.

For panels with a length of 2000mm a minimum expansions joint of 5mm is recommended.

Disregarding the given criteria may cause warping and possibly will damage the panels.

Damage caused by insufficient assembly and/or dismissing these instructions will void the warranty!

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Benefits of sound absorbing systems

Contemporary architecture utilizes many reverberative materials such as stone, concrete, glass and aluminum.

In order to re-gain pleasing room acoustics it is necessary to install sound absorbers. Besides meeting all the given technical requirements sound absorbing systems must also leave leeway for architectural design.

The ALPHA AKUSTIK panel checkmarks all of the expectations by its doubled functions as a source of excellent room acoustics as well as its appealing design features. Hence we are proud to call it:

AKUSIK UND DESIGN

The Staudigel in house developed products are suitable for applications such as wall and ceiling panels as well as furniture door sets. All products are custom made to-order and specifically manufactured according to your regards. A variety of different surfaces like veneer, HPL or (color) lacquered finishes are available.

Facts about our sound absorbing systems

- Enhanced room acoustics
- Noise reduction
- A modular systems allows for an almost unlimited range of sound absorbing options
- The ideal solution for every kind of application
- Premium quality products for interior fittings
- Pre-finished/pre-assembled parts available upon request

Available materials for our products:

- MDF (natural colored, black or painted)
- MDF B1 (fire-resistant)
- MDF with melamine coating or HPL surface
- Chipboard
- Chipboard B1 (fire-resistant)
- Chipboard with melamine coating or HPL surface
- Sasmox A2
- Multiplex
- OSB
- OSB boards

Product characteristics

- Manufactured to order
- Panels available with dimensions up to a size of 3600x1400mm
- Variable hole diameters
- Fixed grid of holes (8/16/32/34mm)
- Available with or without a unperforated margins , size of the margin is made according to request
- Groove panels with fixed grid (8/10,66/16/32mm)
- Perpendicular grooves (slats) are available as well
- Veneer and ABS edgeband (0,6 – 3mm)
- Solid wood edgebanding available upon request
- Closet doors (including routing for hinges and locks)
- Molded parts available upon request (e.g. ceiling panels)

Finishes

- DD or UV paint, porous or non-porous
- Stained (according to sample)
- Colored lacquer finishes in RAL or NCS colors
- Melamine, HPL or CPL surfaces available upon request

Veneer

- All kinds of commercially available veneers
- Rare wood veneers available upon request
- Providing your own, specific veneers is optional
- Selecting veneer according to samples provided is optional
- Special patterns such as book-matched or slip matched
- Special look such as stripes, flower or rotary cut
- Standard veneer thickness is 0,6mm (0,8mm on softwood)

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

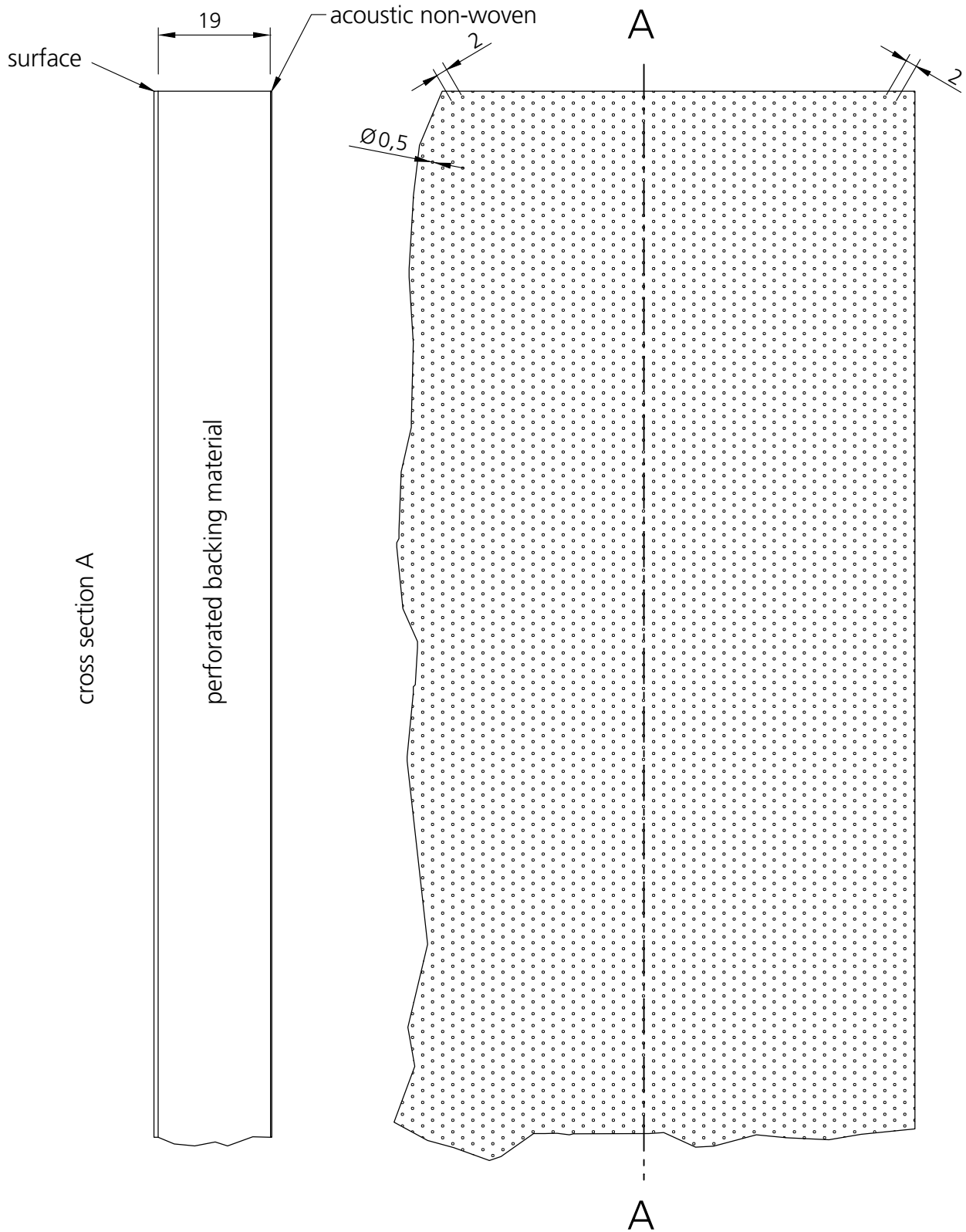
- A4 sample of your desired product available on request

References

For more information, please visit www.staudigel.de or www.alpha-akustik.de

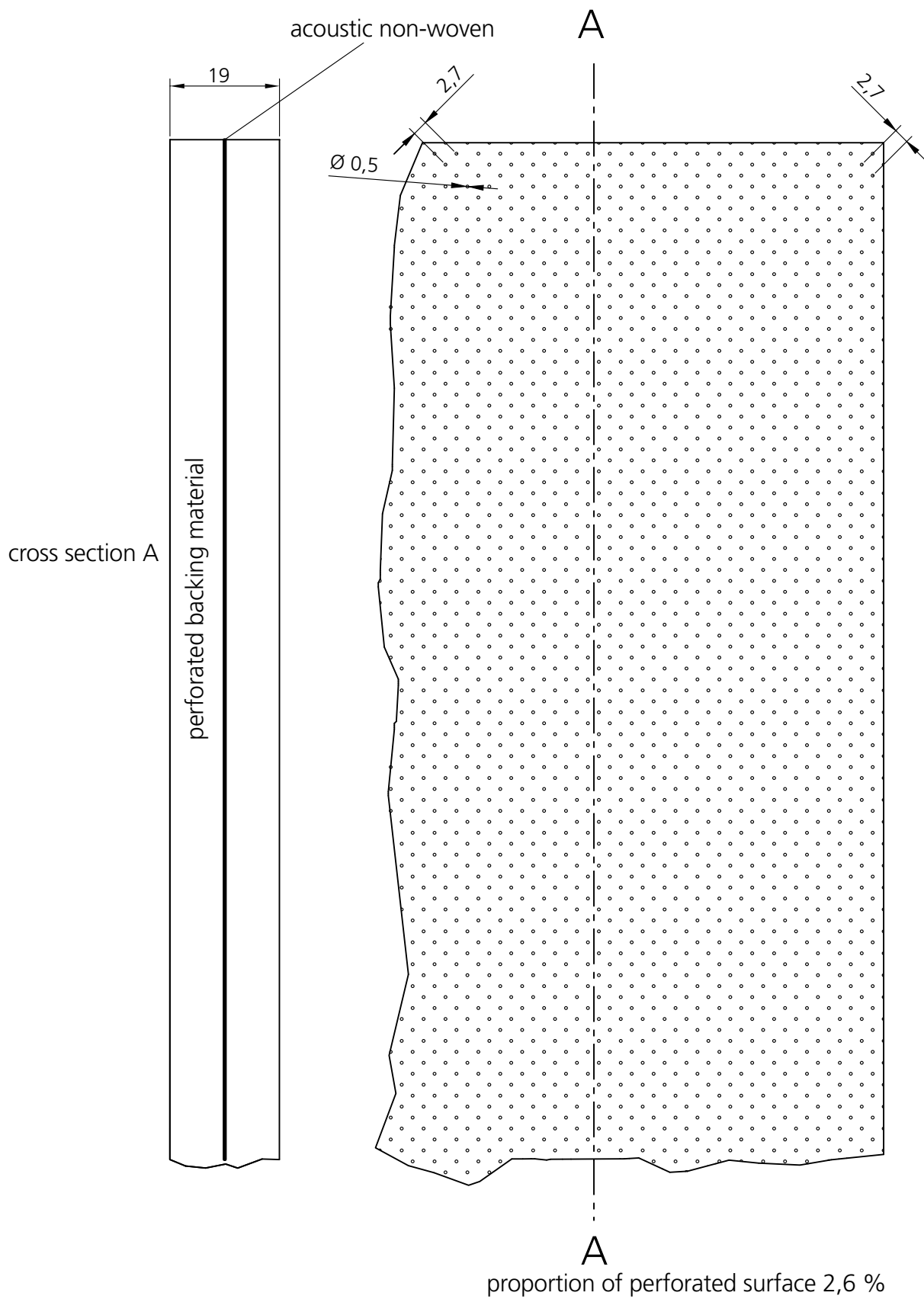
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ALPHA-AKUSTIK Hole Face Pattern NANOLITE 0,5 – 2,0 D



proportion of perforated surface 2,7 %

ALPHA-AKUSTIK Hole Face Pattern NANOLITE 0,5 – 2,7 D



as of February 2018

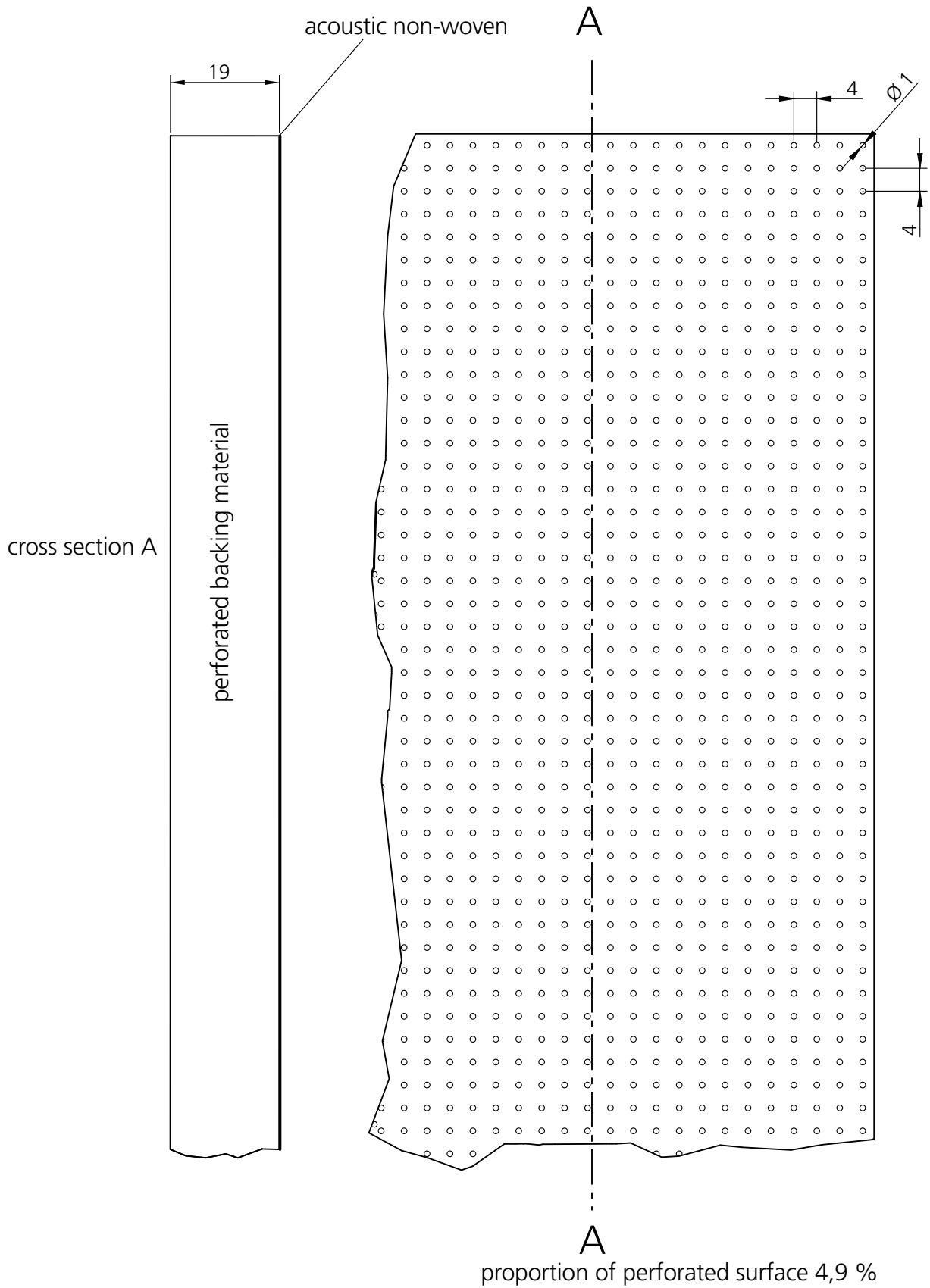


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Staudigel GmbH
Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0)9 31 9 70 54-0
Fax +49 (0)9 31 9 70 54-54
E-Mail: info@staudigel.de · www.staudigel.de

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ALPHA-AKUSTIK Hole Face Pattern NANOLITE 1,0 – 4 G



as of February 2018

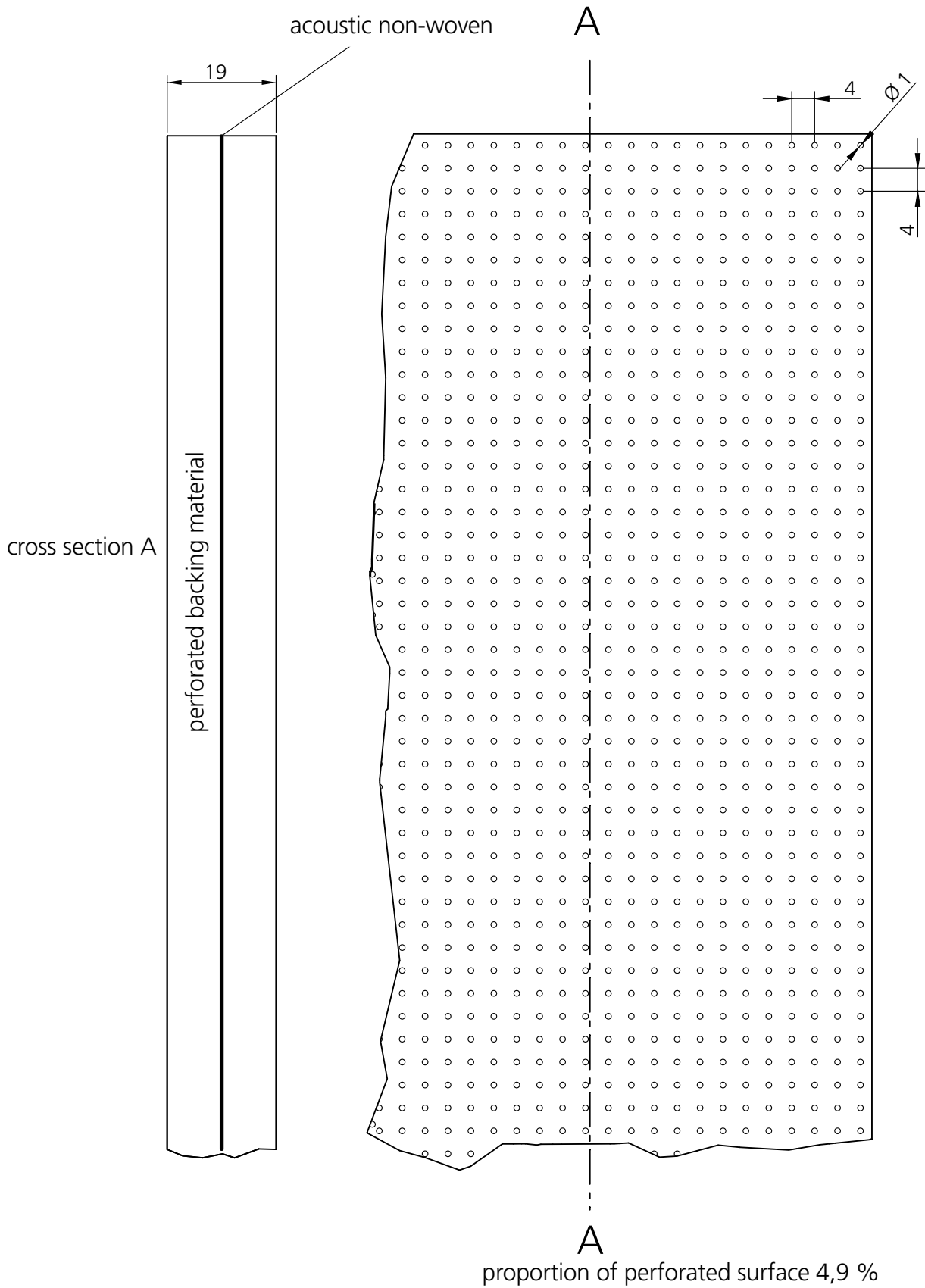


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Staudigel GmbH
Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0)9 31 9 70 54-0
Fax +49 (0)9 31 9 70 54-54
E-Mail: info@staudigel.de · www.staudigel.de

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ALPHA-AKUSTIK Hole Face Pattern NANOLITE 1,0 – 4 V



as of February 2018

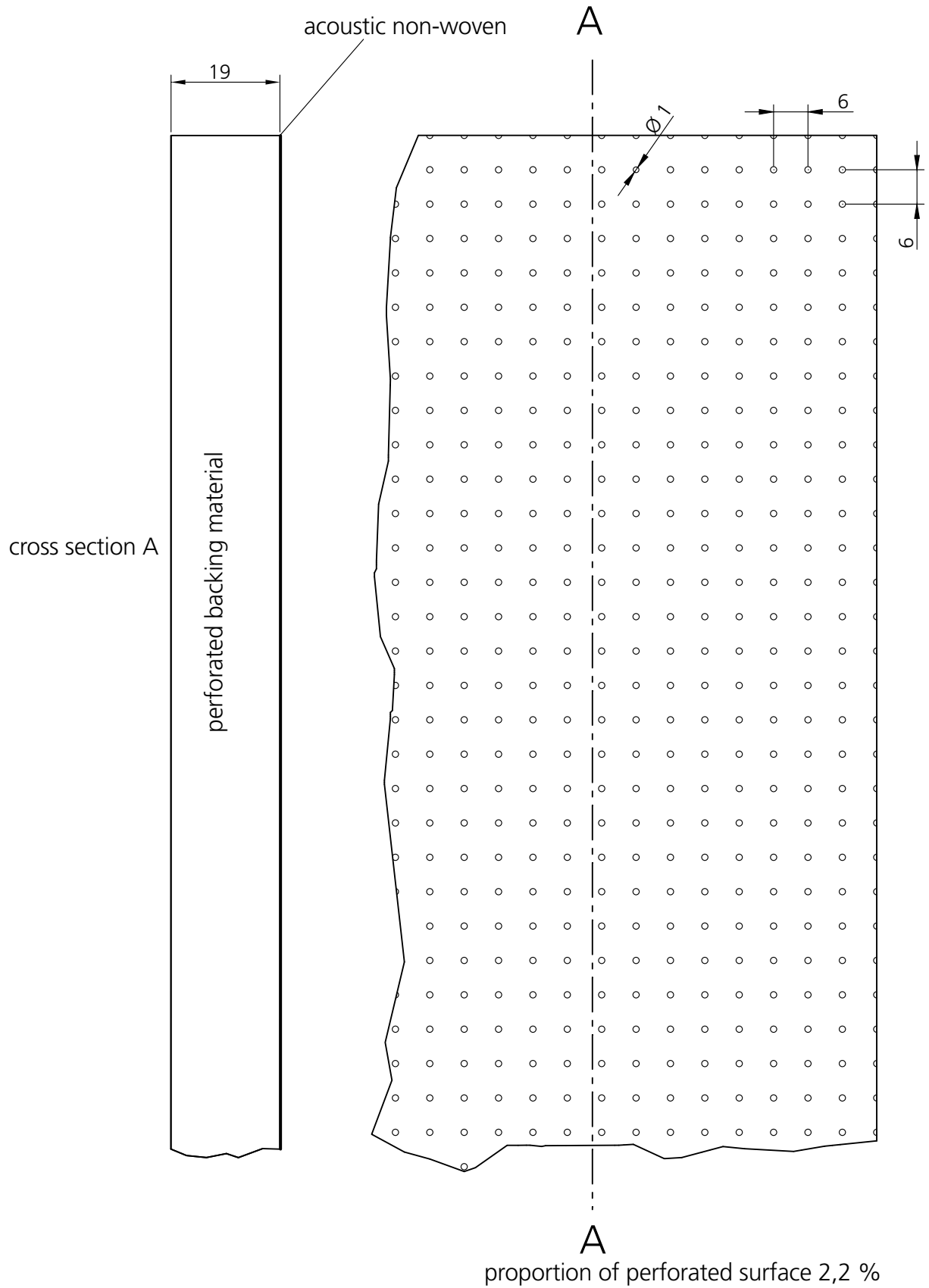


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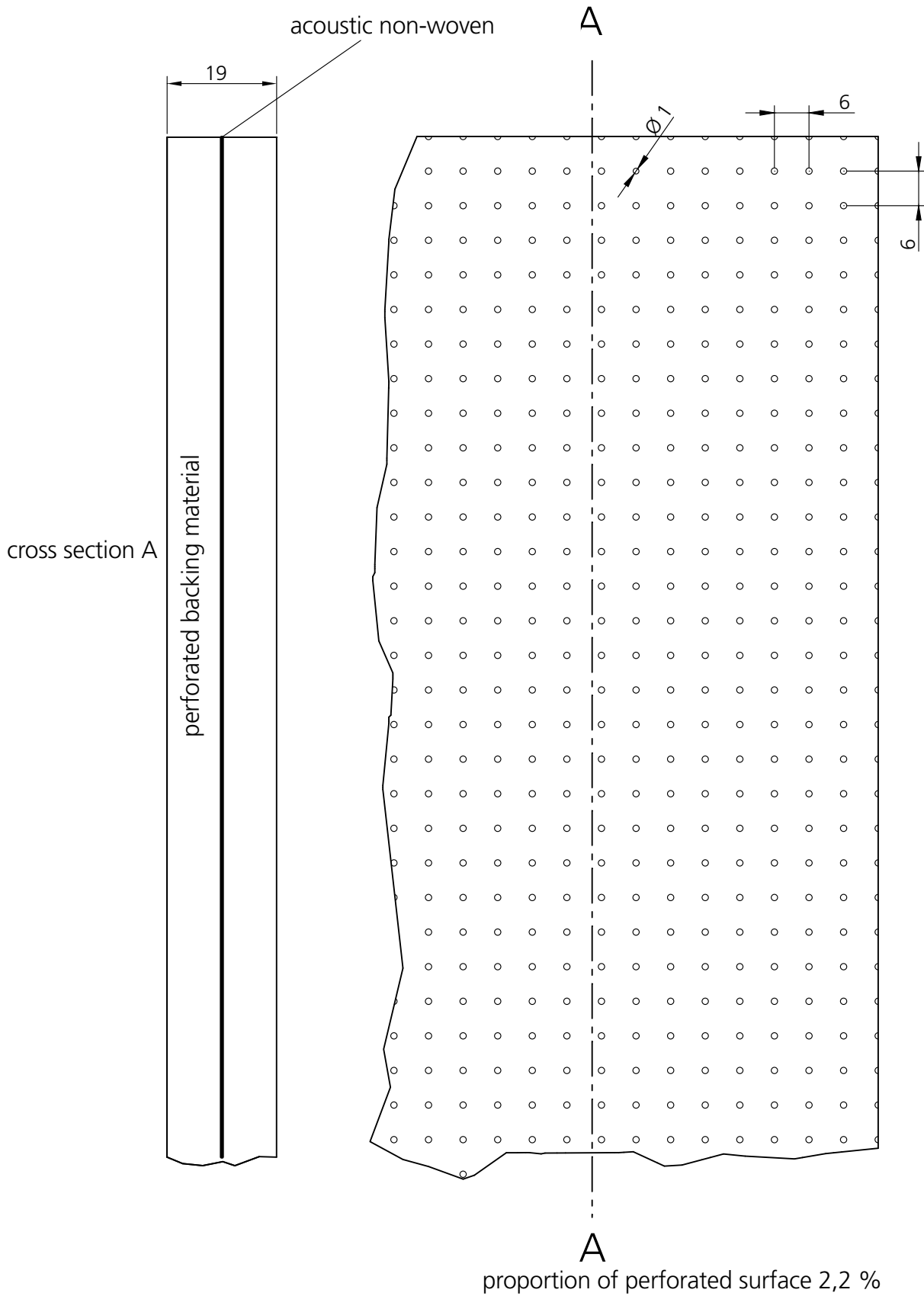
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ALPHA-AKUSTIK Hole Face Pattern NANOLITE 1,0 – 6 G



as of February 2018

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



as of February 2018

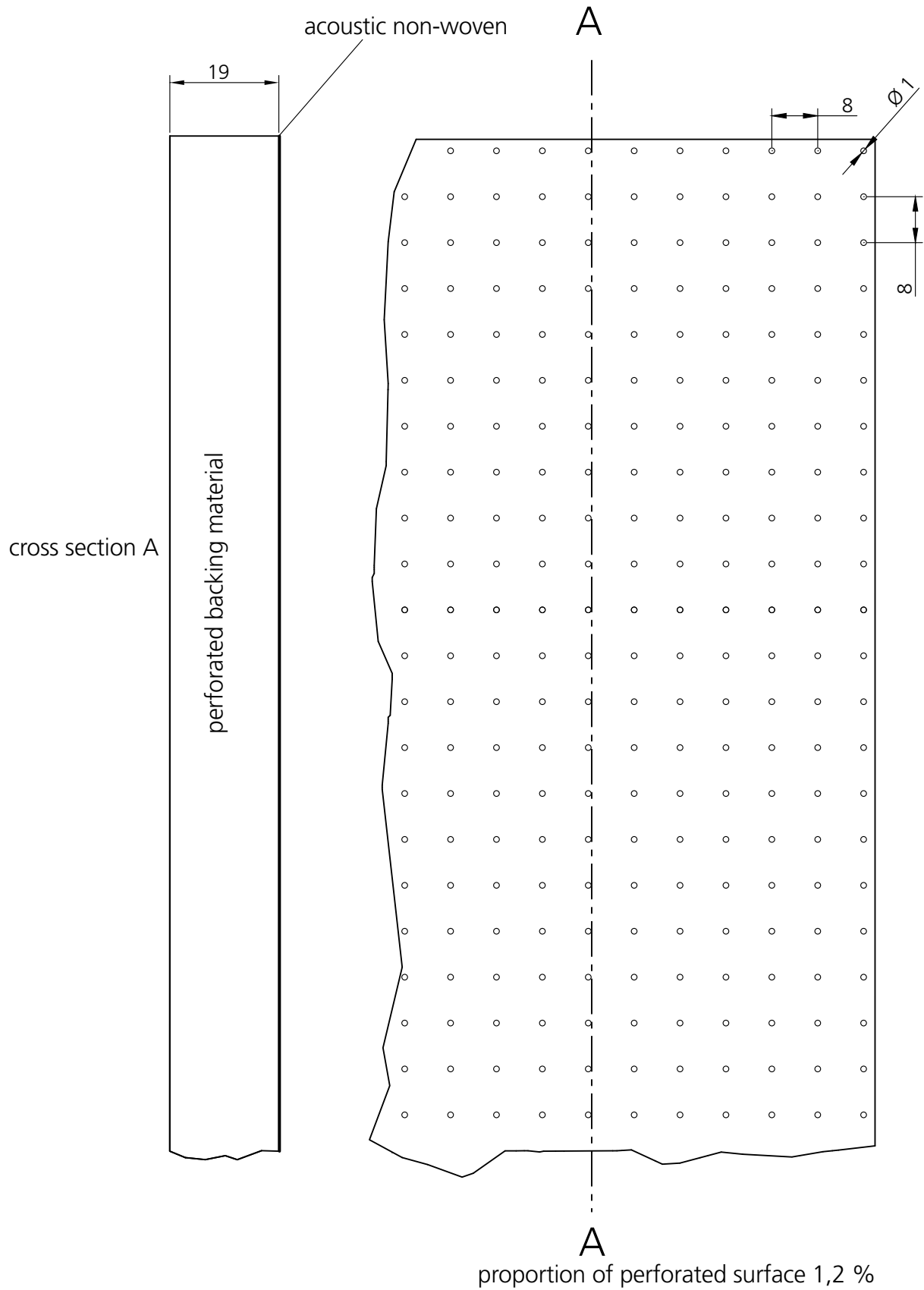


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Staudigel GmbH
Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0)9 31 9 70 54-0
Fax +49 (0)9 31 9 70 54-54
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ALPHA-AKUSTIK Hole Face Pattern NANOLITE 1,0 – 8 G



as of February 2018

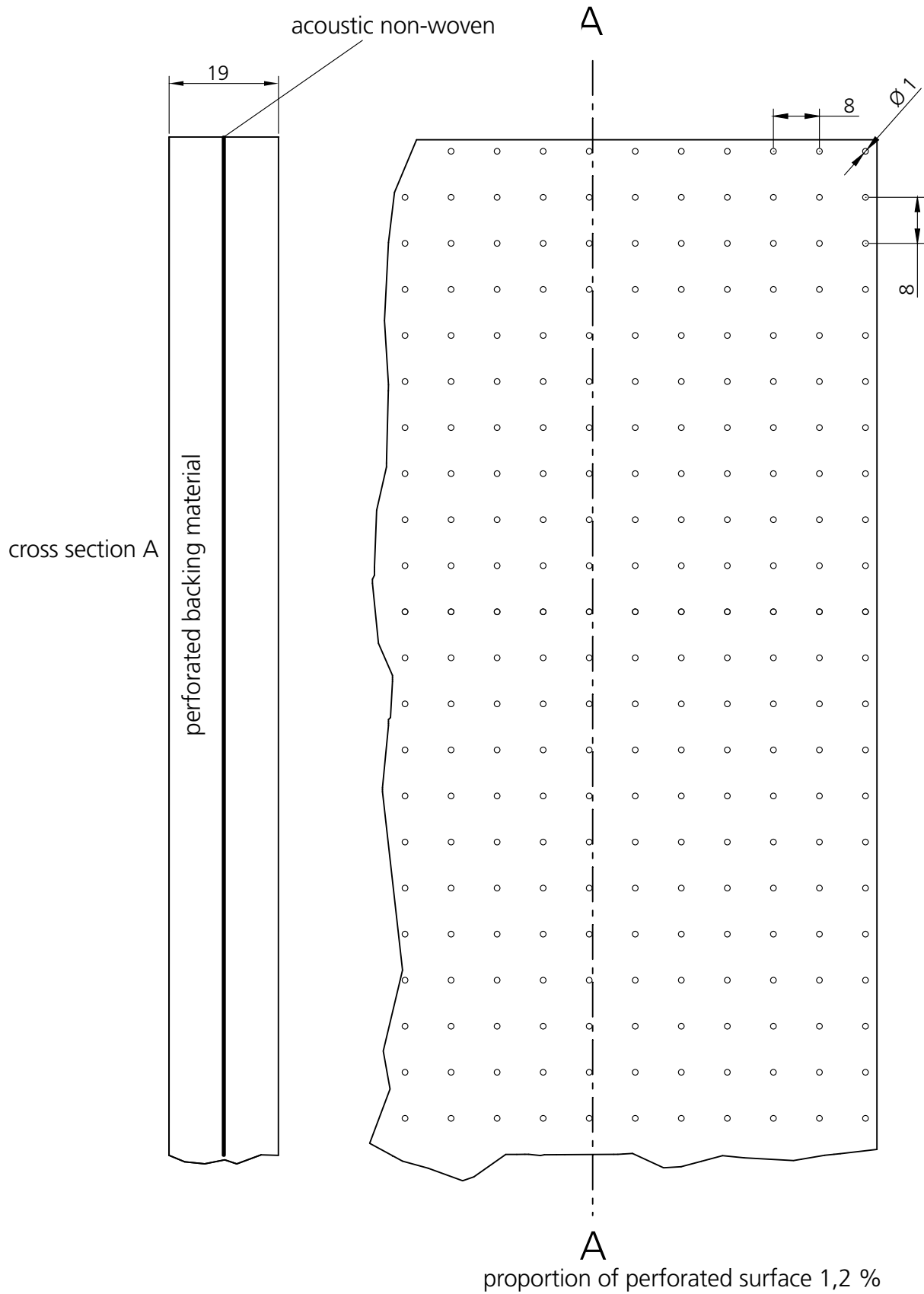


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Staudigel GmbH
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Phone +49 (0)9 31 9 70 54-0
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ALPHA-AKUSTIK Hole Face Pattern NANOLITE 1,0 – 8 V



as of February 2018

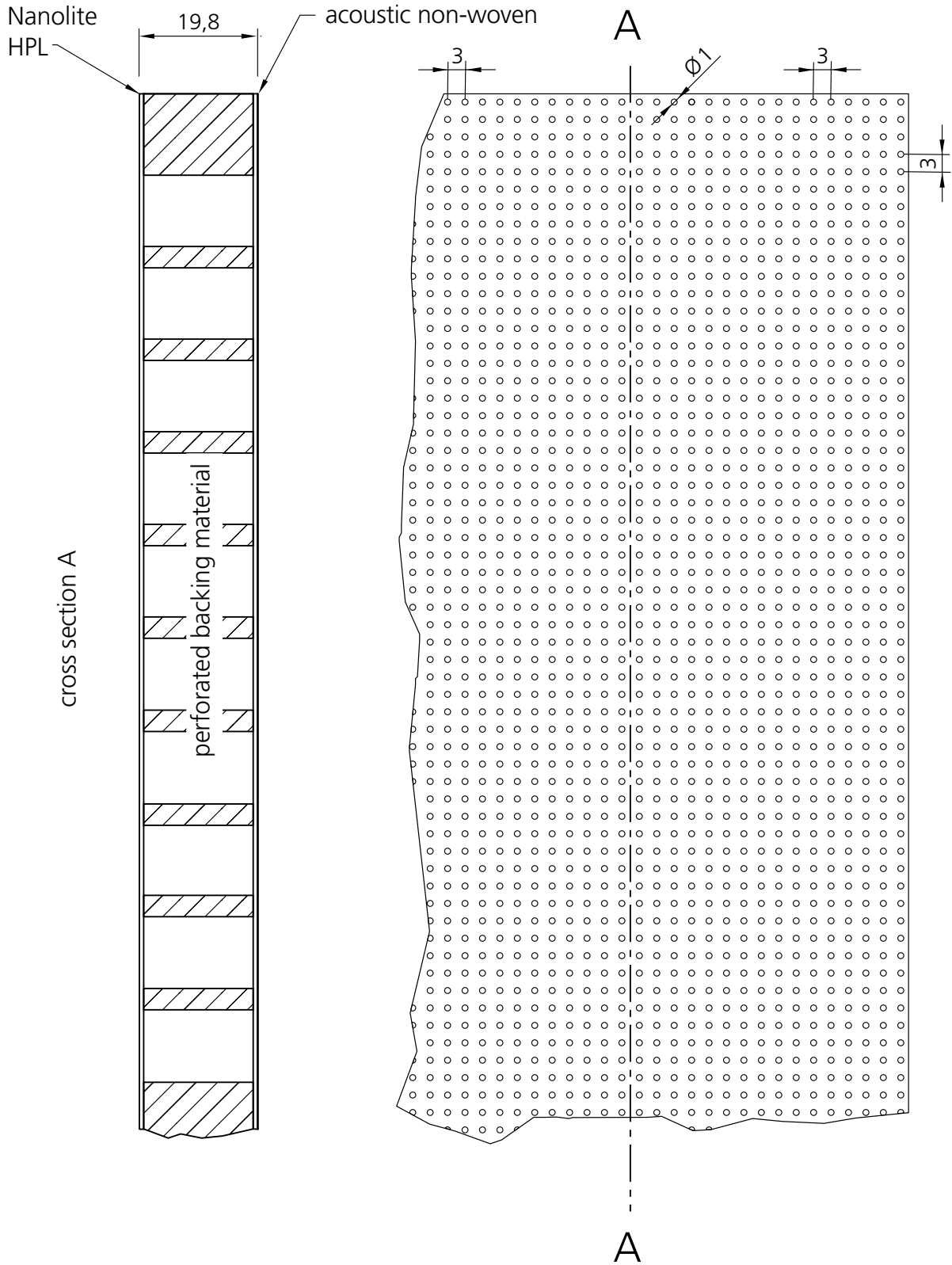


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Staudigel GmbH
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Phone +49 (0)9 31 9 70 54-0
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ALPHA-AKUSTIK Hole Face Pattern NANOLITE 1,0 – 3 G



proportion of perforated surface 2,72 %

as of September 2021



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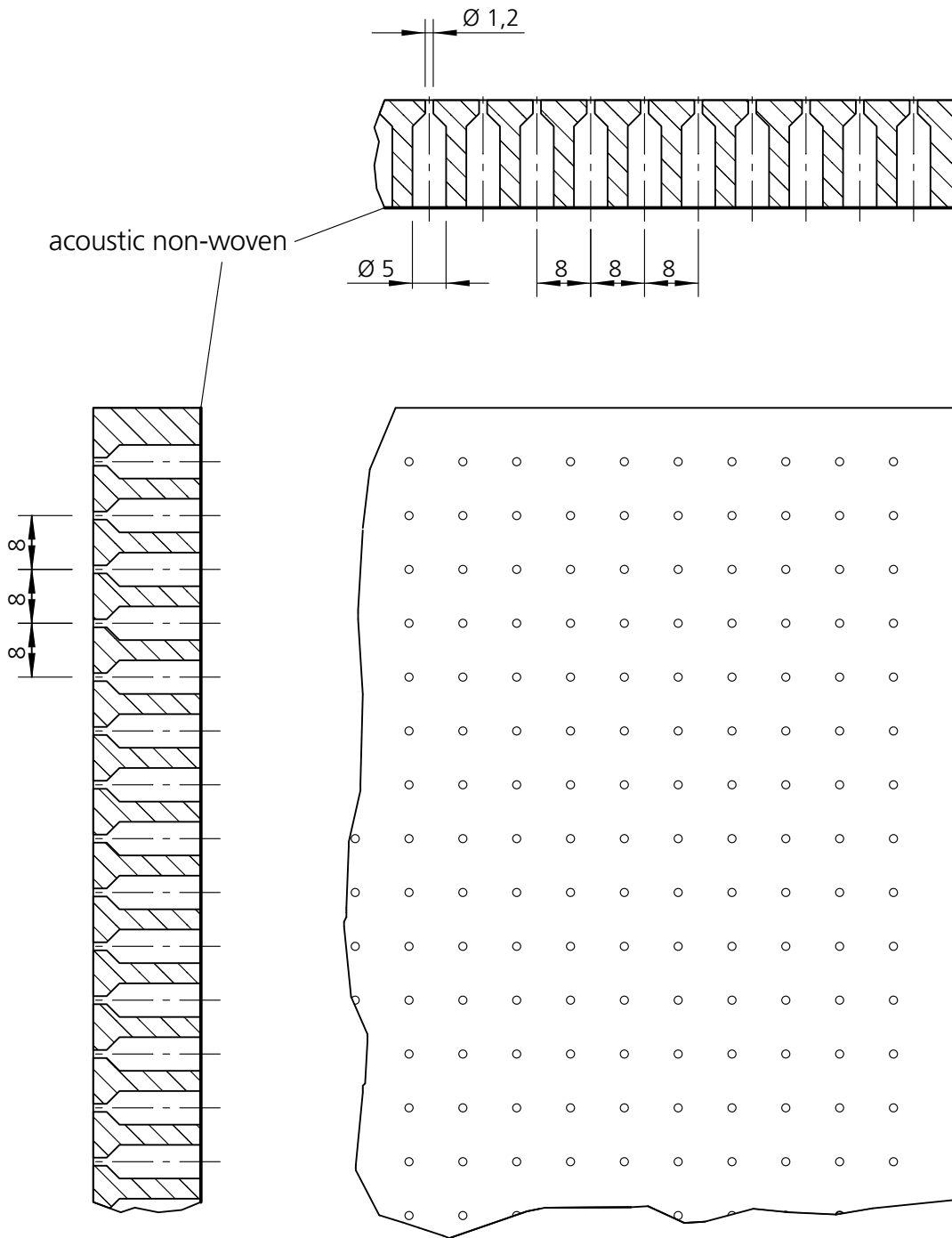
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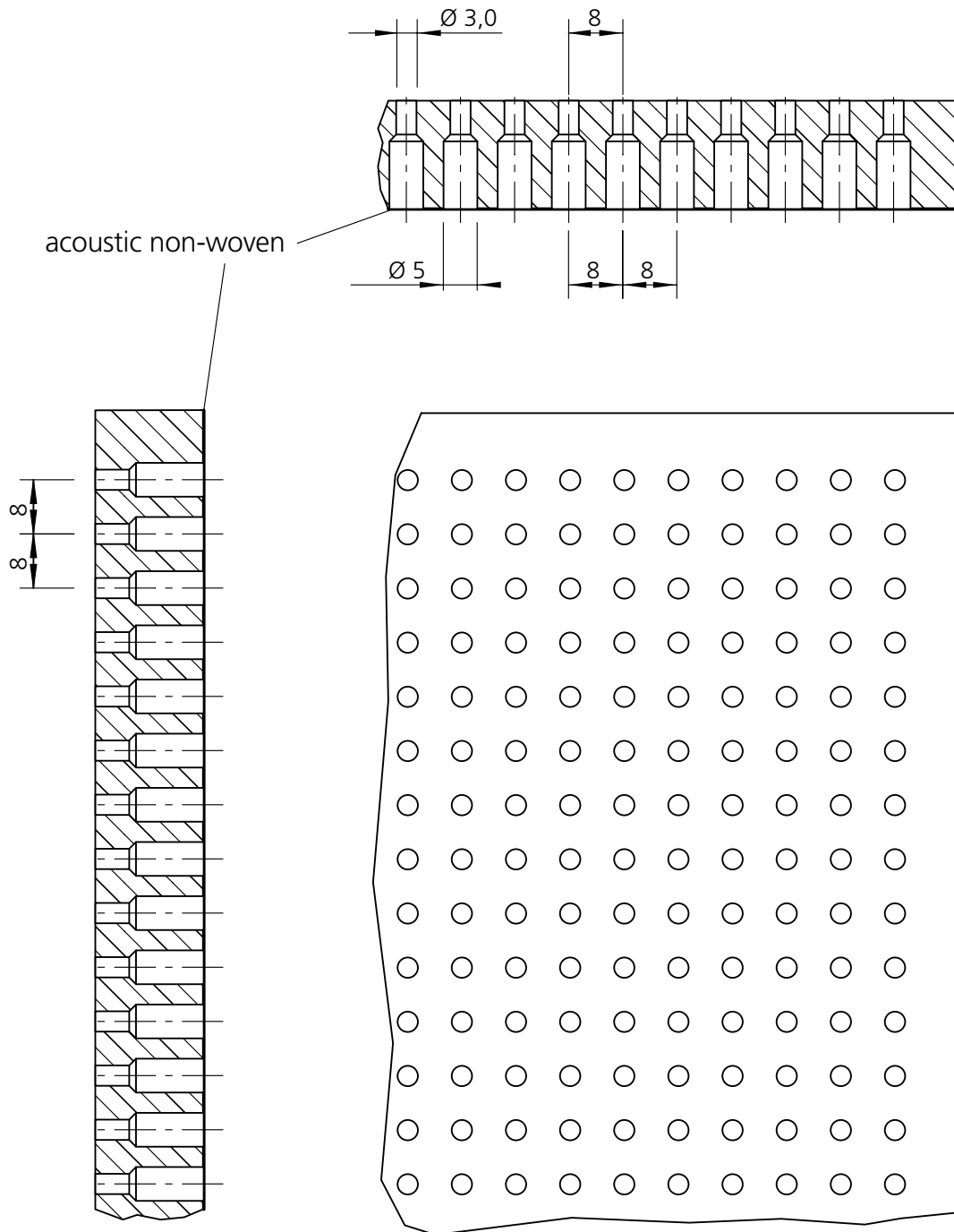
ALPHA-AKUSTIK Hole Face Pattern Type 8/8/5 – 1,2



proportion of perforated surface 2,1 %

as of February 2018

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



proportion of perforated surface 11,8 %

as of February 2018

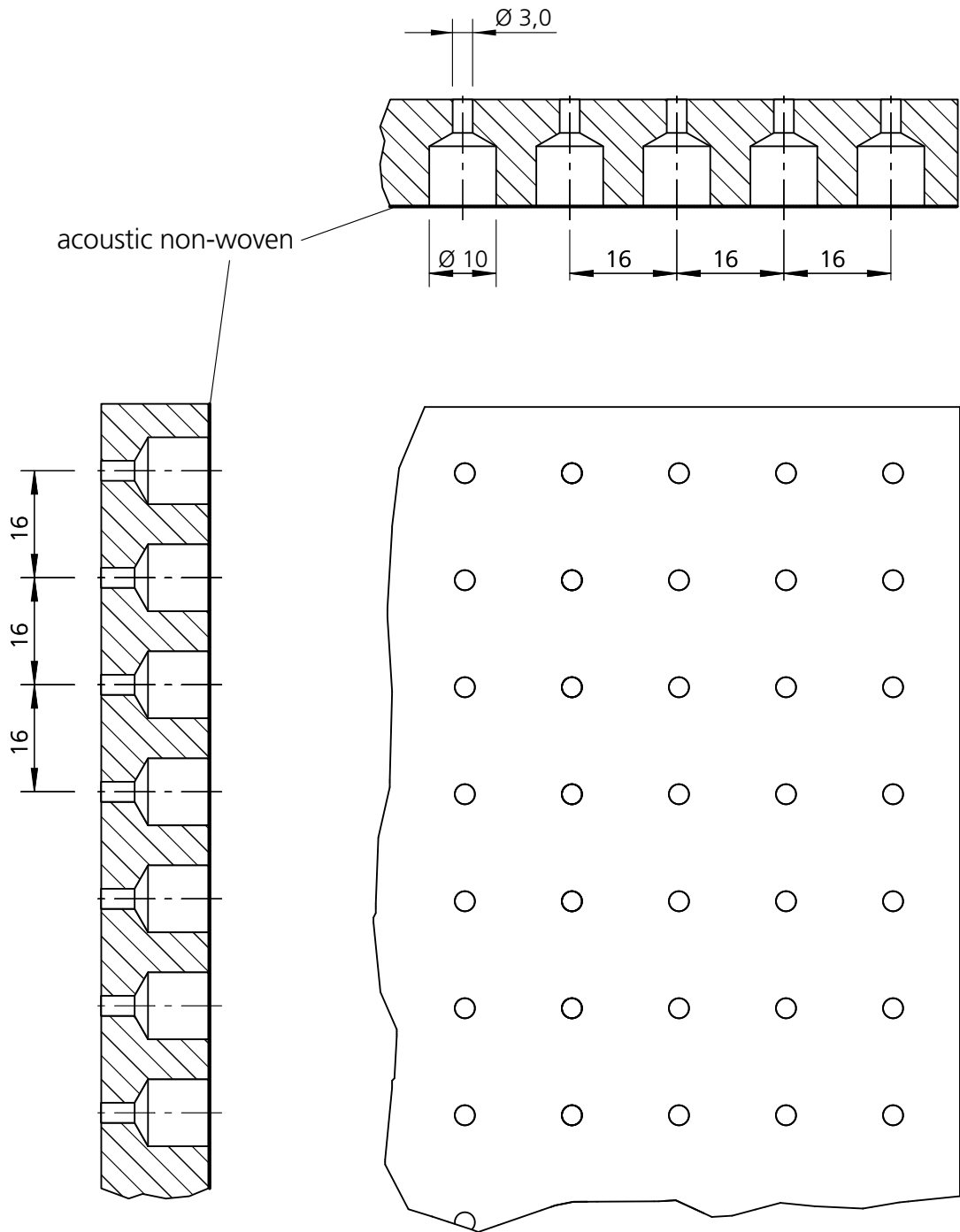


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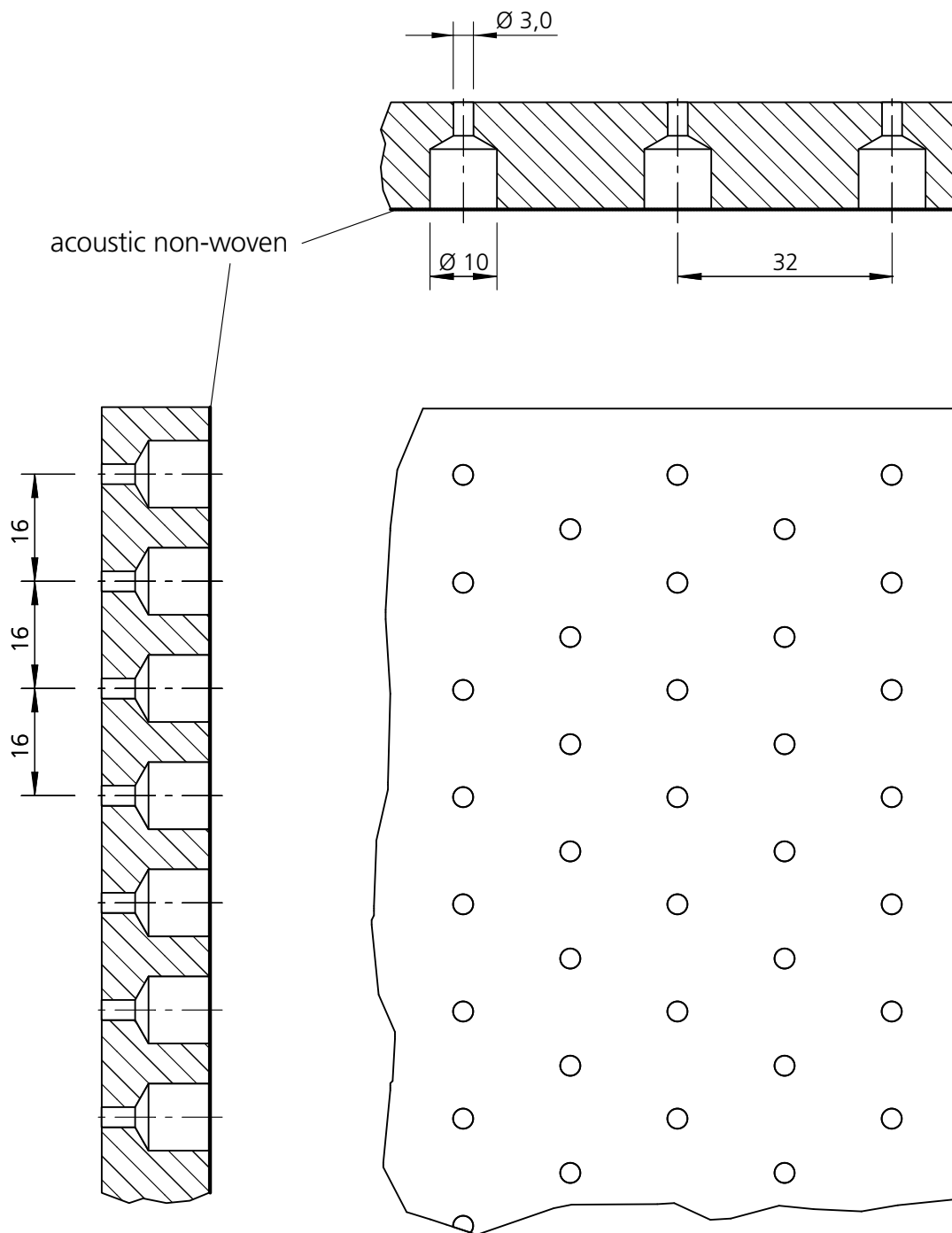
ALPHA-AKUSTIK Hole Face Pattern Type 16/16/10 – 3



proportion of perforated surface 4,9 %

as of February 2018

ALPHA-AKUSTIK Hole Face Pattern Type 16/16/10 V – 3



proportion of perforated surface 2,7 %

as of February 2018

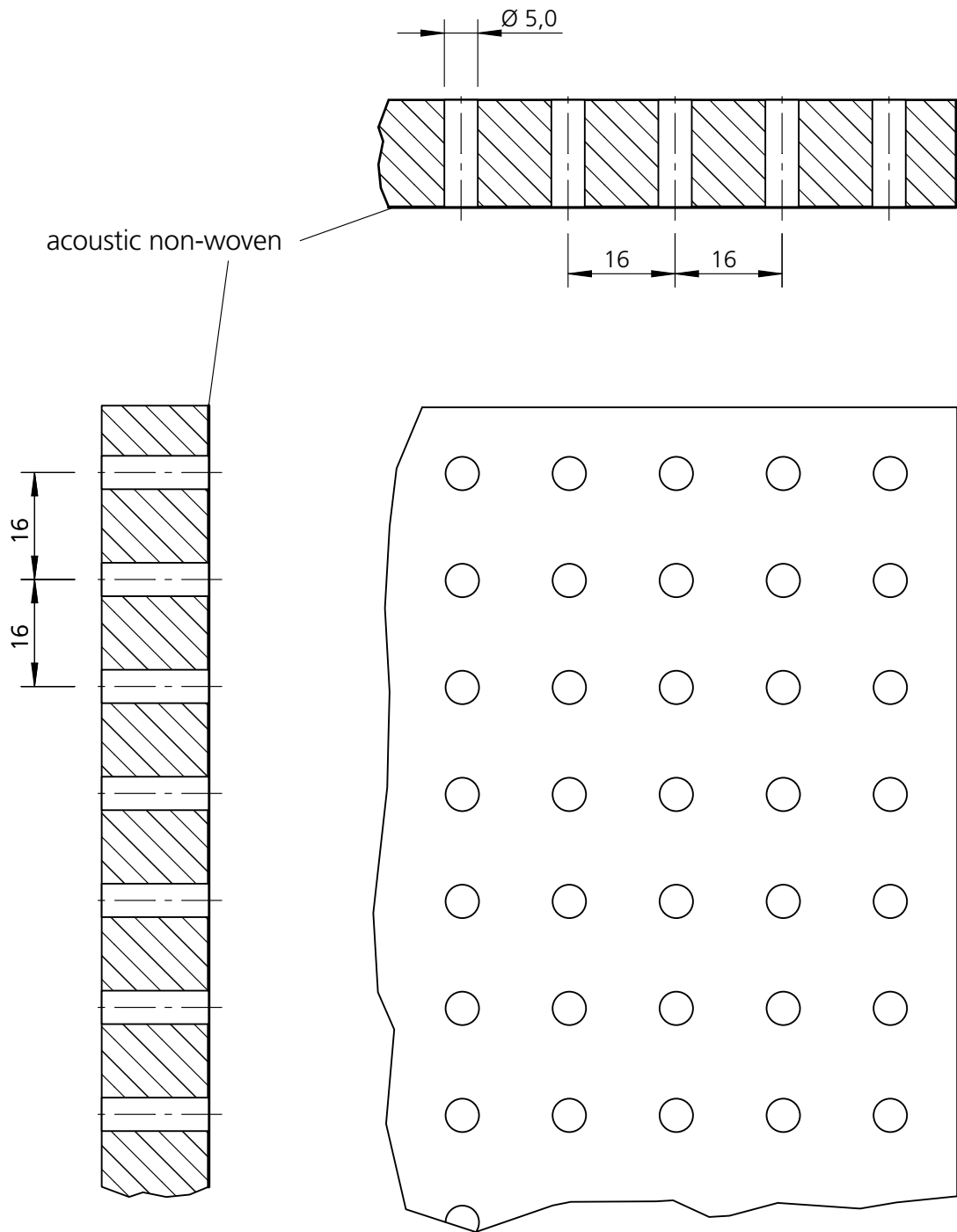


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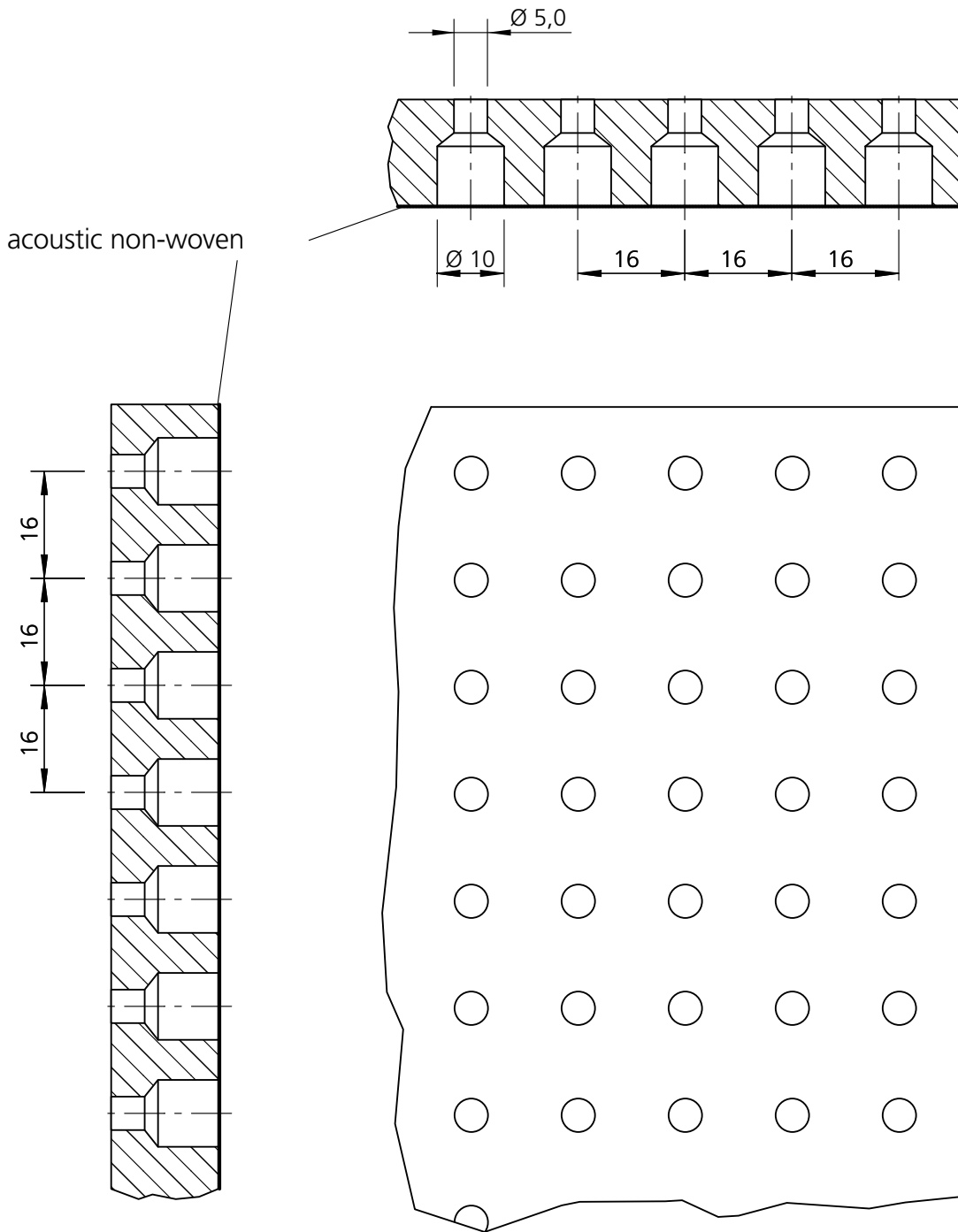
ALPHA-AKUSTIK Hole Face Pattern Type 16/16/5 – 5



proportion of perforated surface 7,7 %

as of February 2018

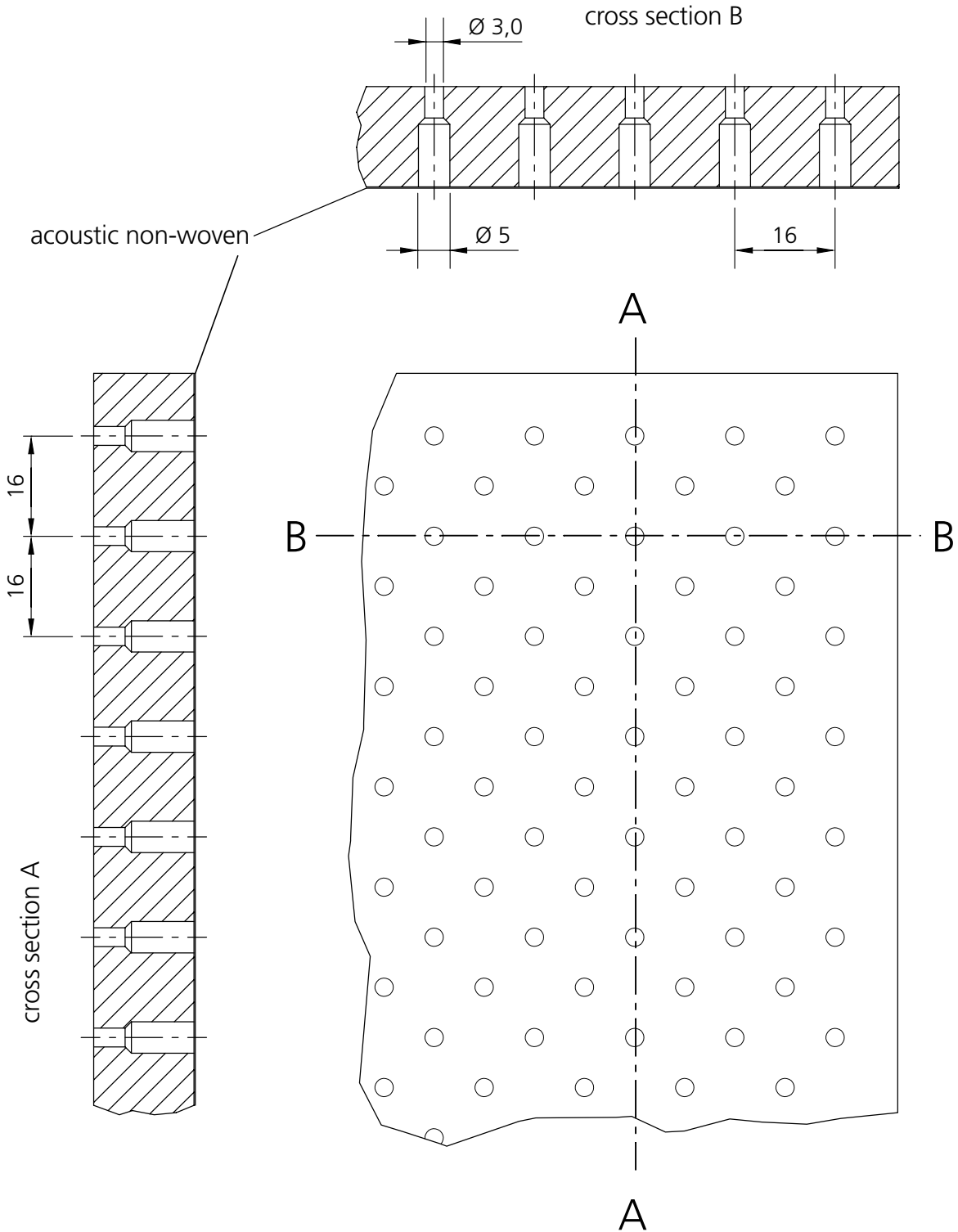
ALPHA-AKUSTIK Hole Face Pattern Type 16/16/10 – 5



proportion of perforated surface 7,7 %

as of February 2018

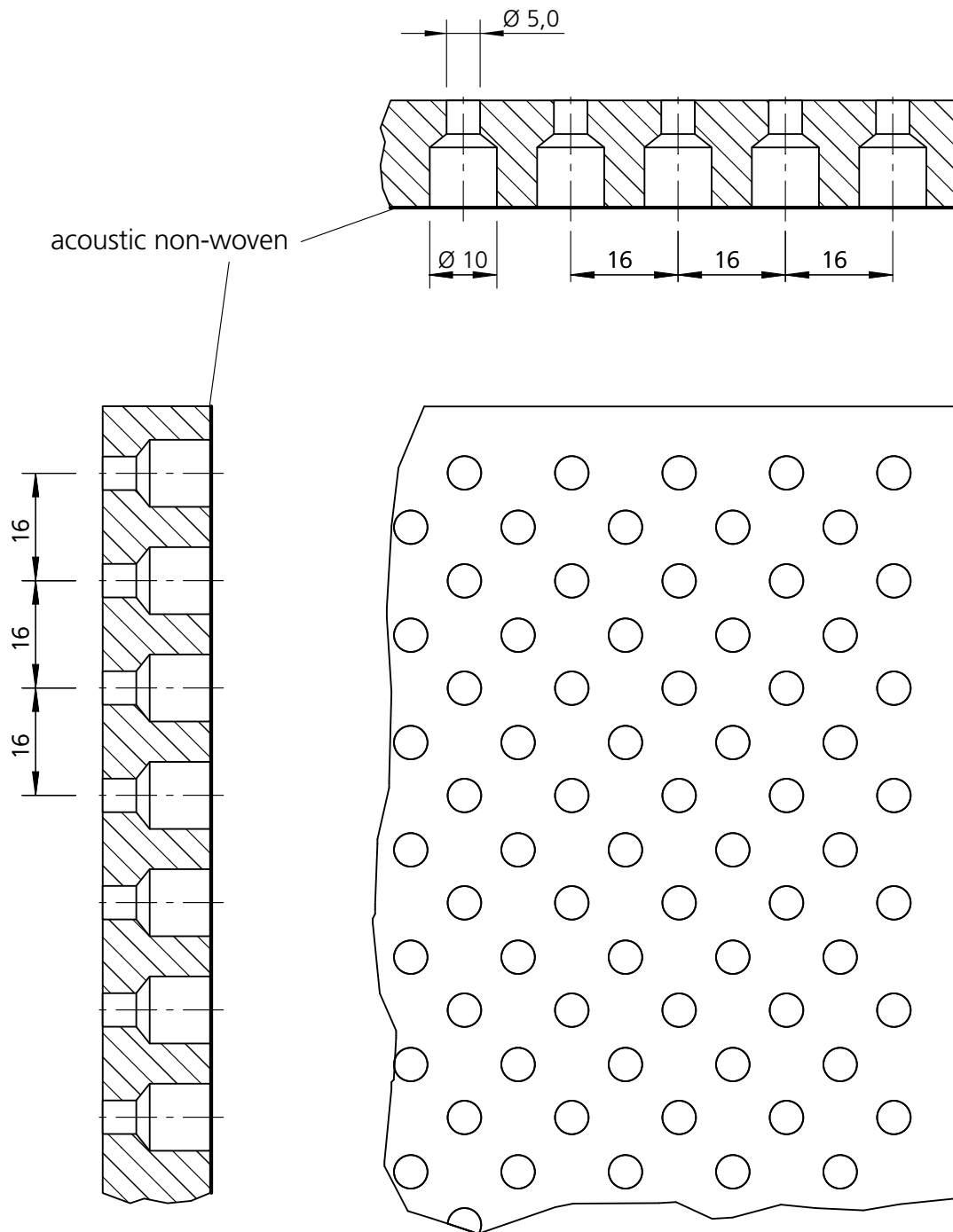
ALPHA-AKUSTIK Hole Face Pattern Type 16/8/5 V – 3



proportion of perforated surface 5,4 %

as of February 2018

ALPHA-AKUSTIK Hole Face Pattern Type 16/8/10 V – 5



proportion of perforated surface 15,1 %

as of February 2018

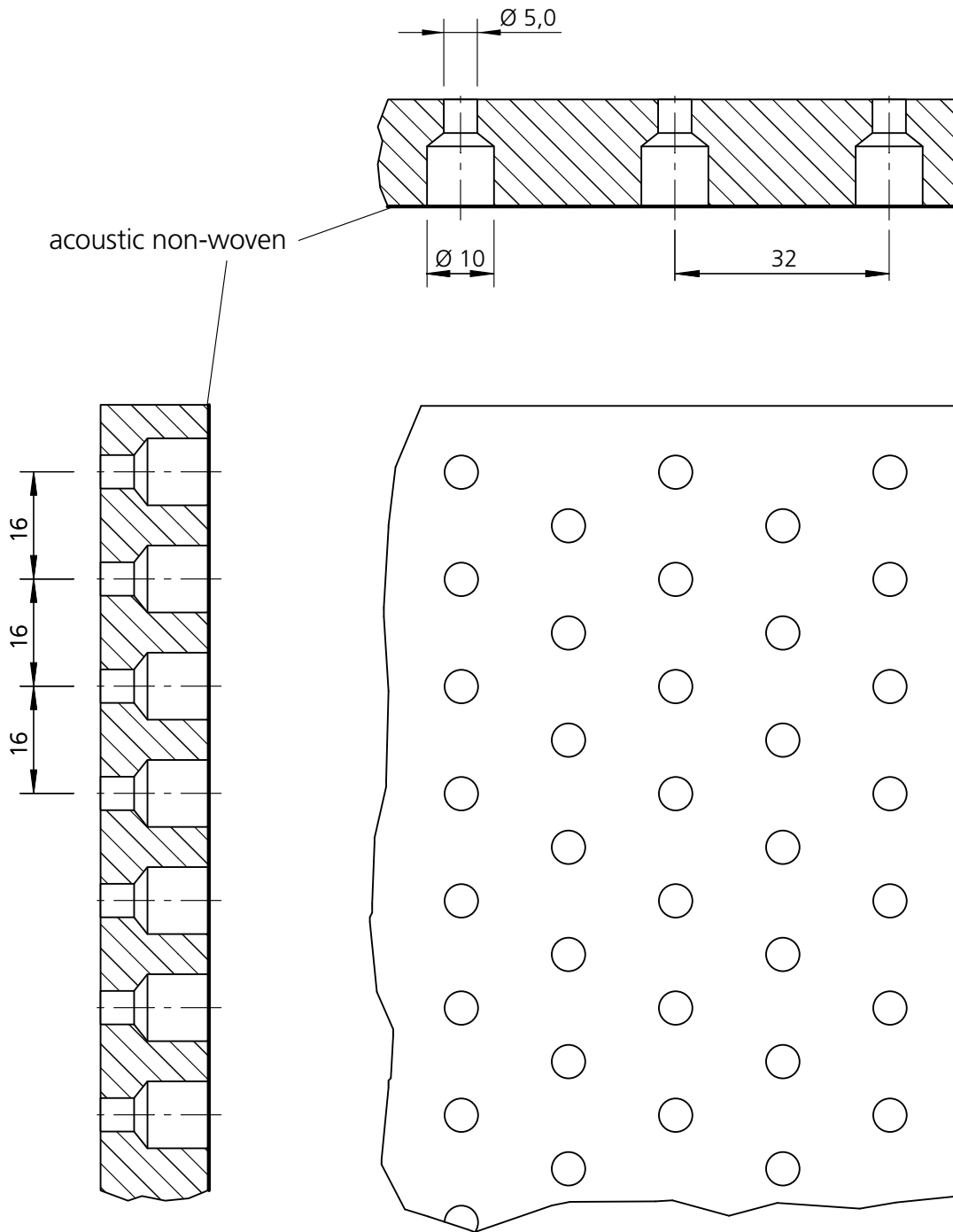


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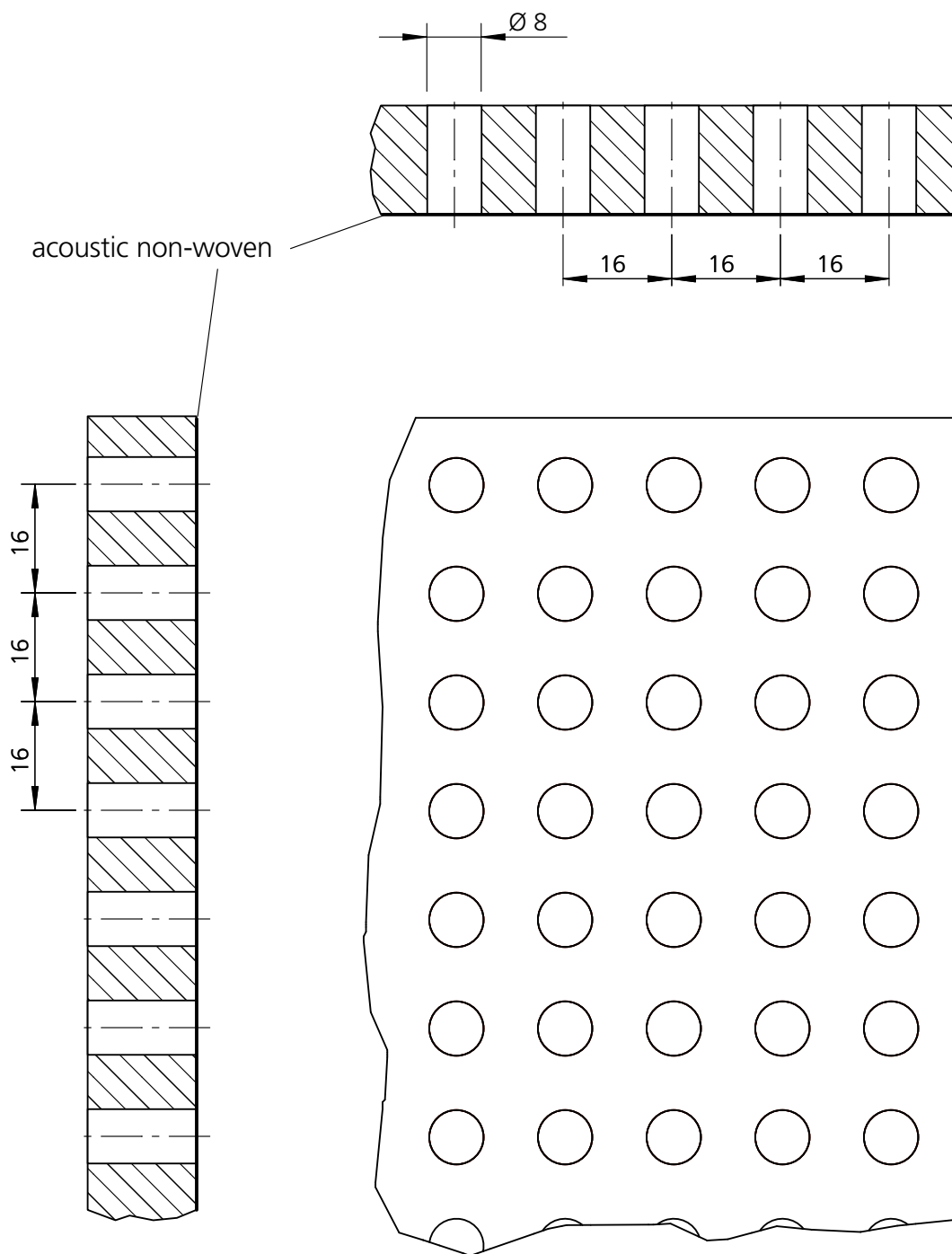
ALPHA-AKUSTIK Hole Face Pattern Type 16/16/10 V – 5



proportion of perforated surface 7,6 %

as of February 2018

ALPHA-AKUSTIK Hole Face Pattern Type 16/16/8 – 8



proportion of perforated surface 19,6 %

as of February 2018

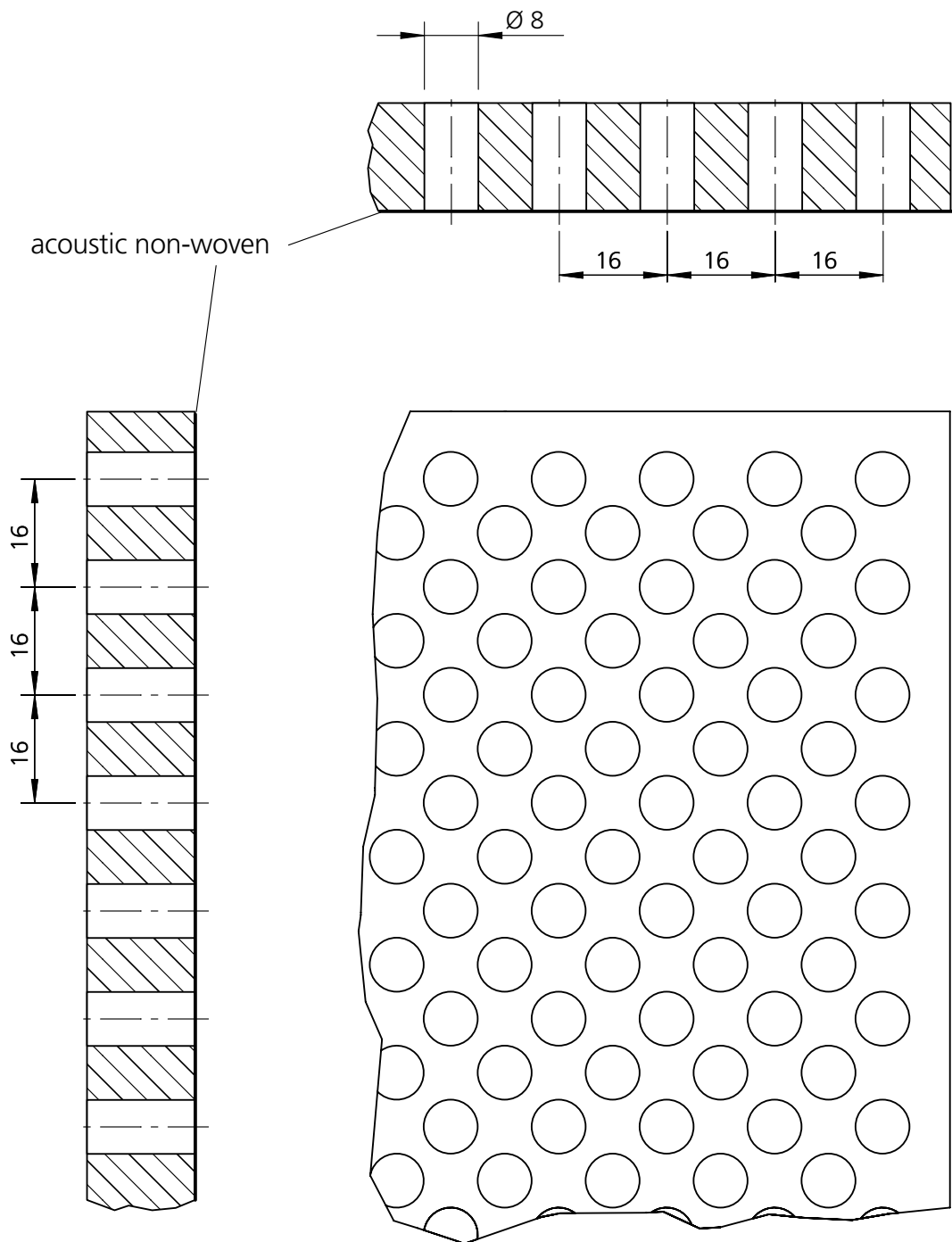


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ALPHA-AKUSTIK Hole Face Pattern Type 16/8/8 V – 8



proportion of perforated surface 38,5 %

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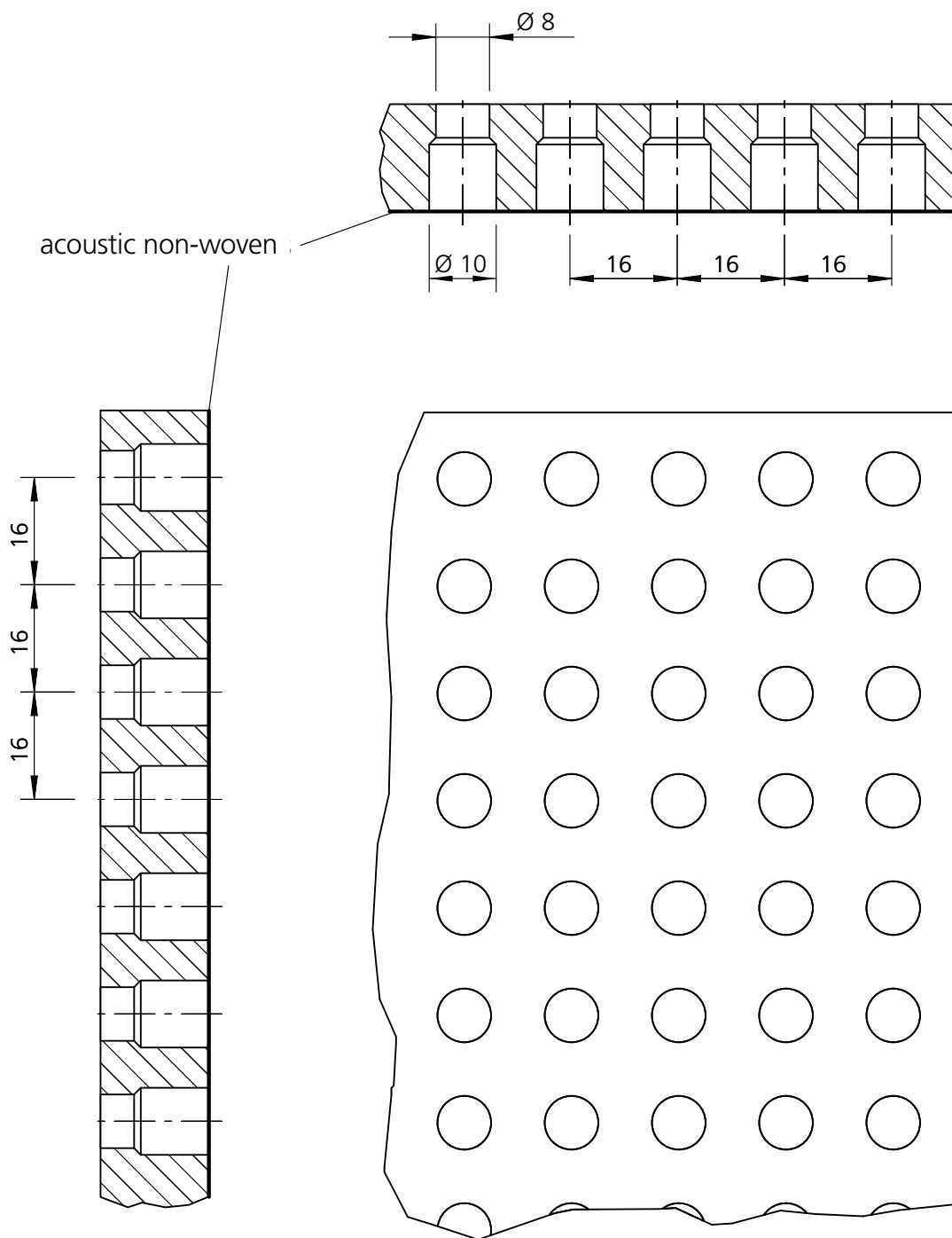


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ALPHA-AKUSTIK Hole Face Pattern Type 16/16/10 – 8



as of February 2018

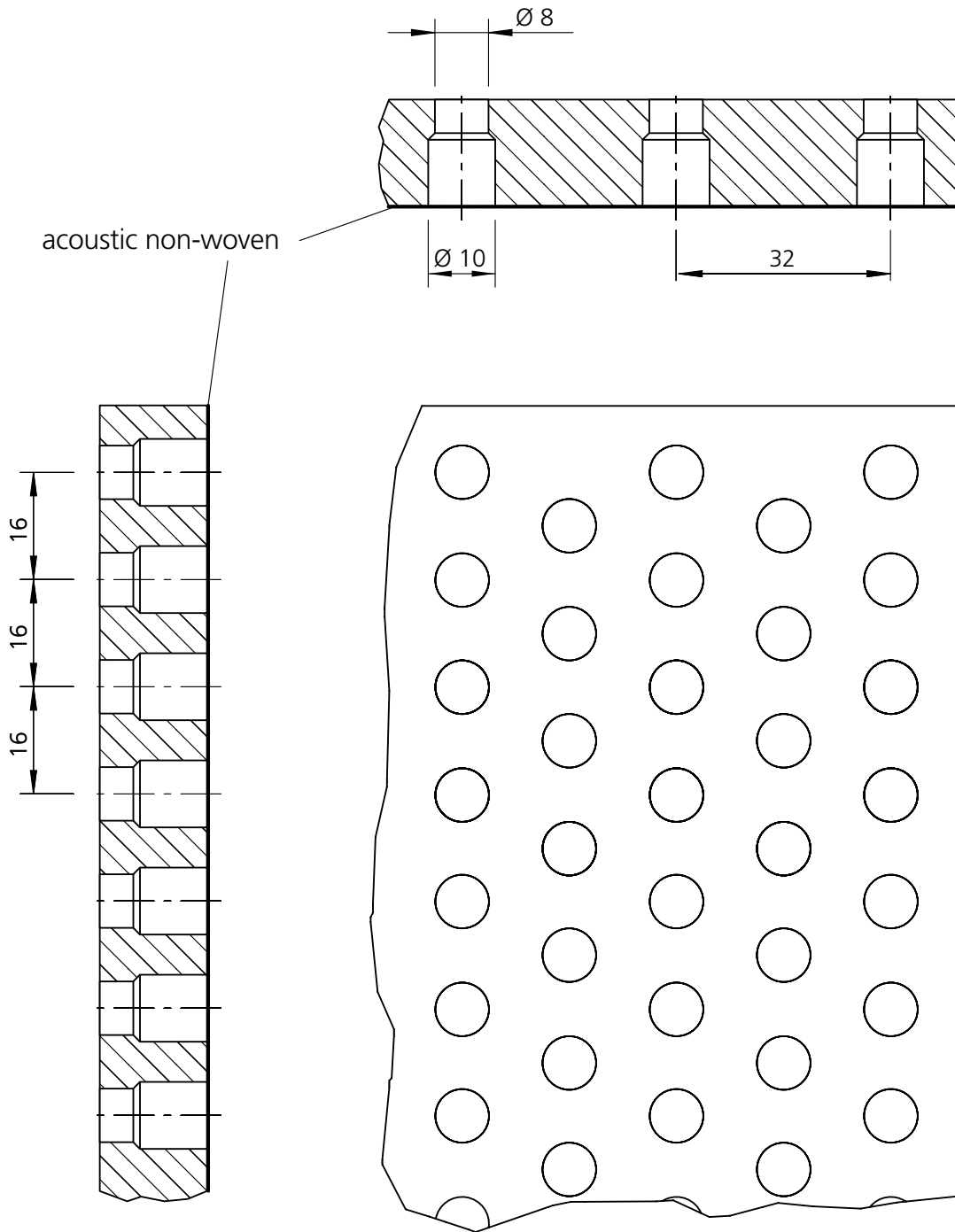


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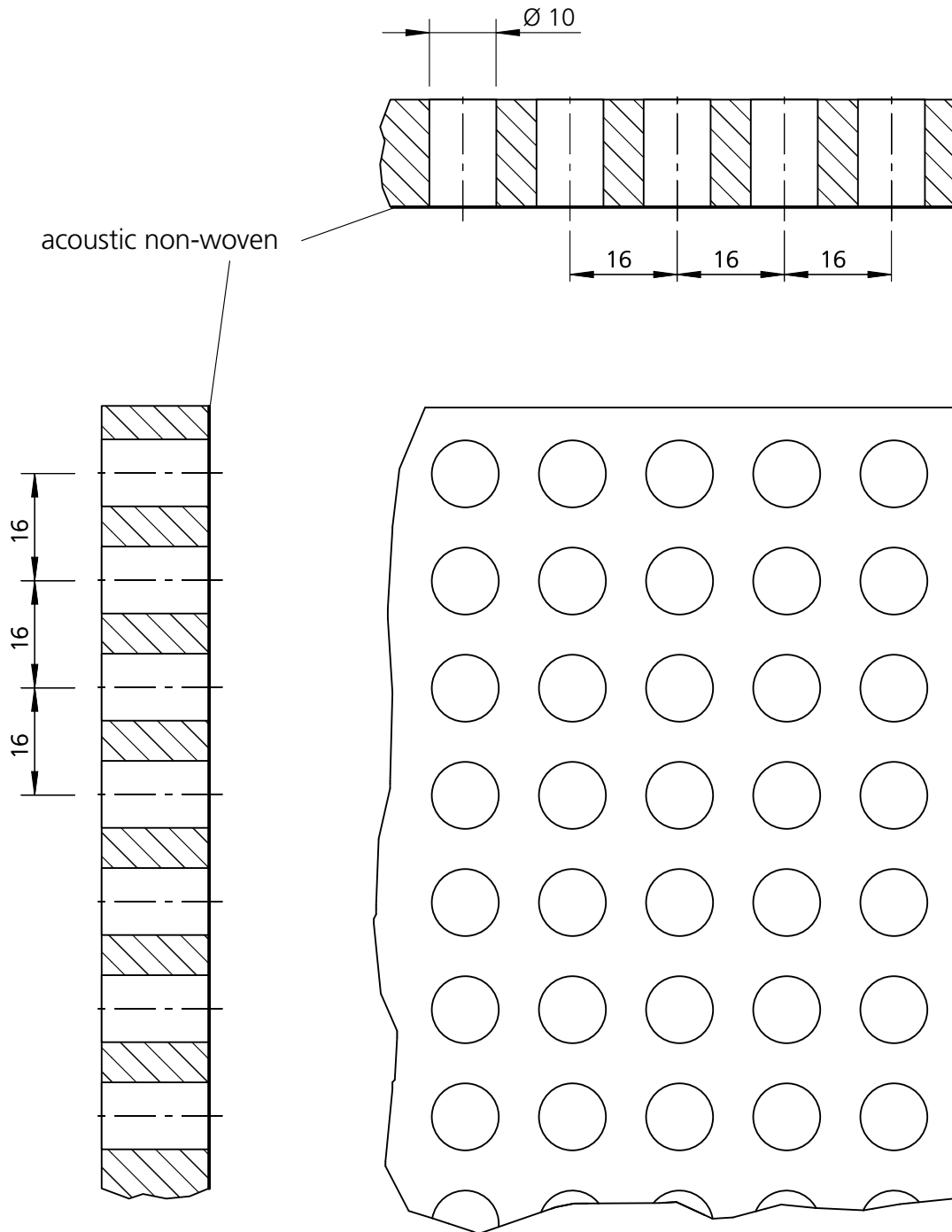
ALPHA-AKUSTIK Hole Face Pattern Type 16/16/10 V – 8



proportion of perforated surface 19,6 %

as of February 2018

ALPHA-AKUSTIK Hole Face Pattern Type 16/16/10 – 10



proportion of perforated surface 30,7 %

as of February 2018

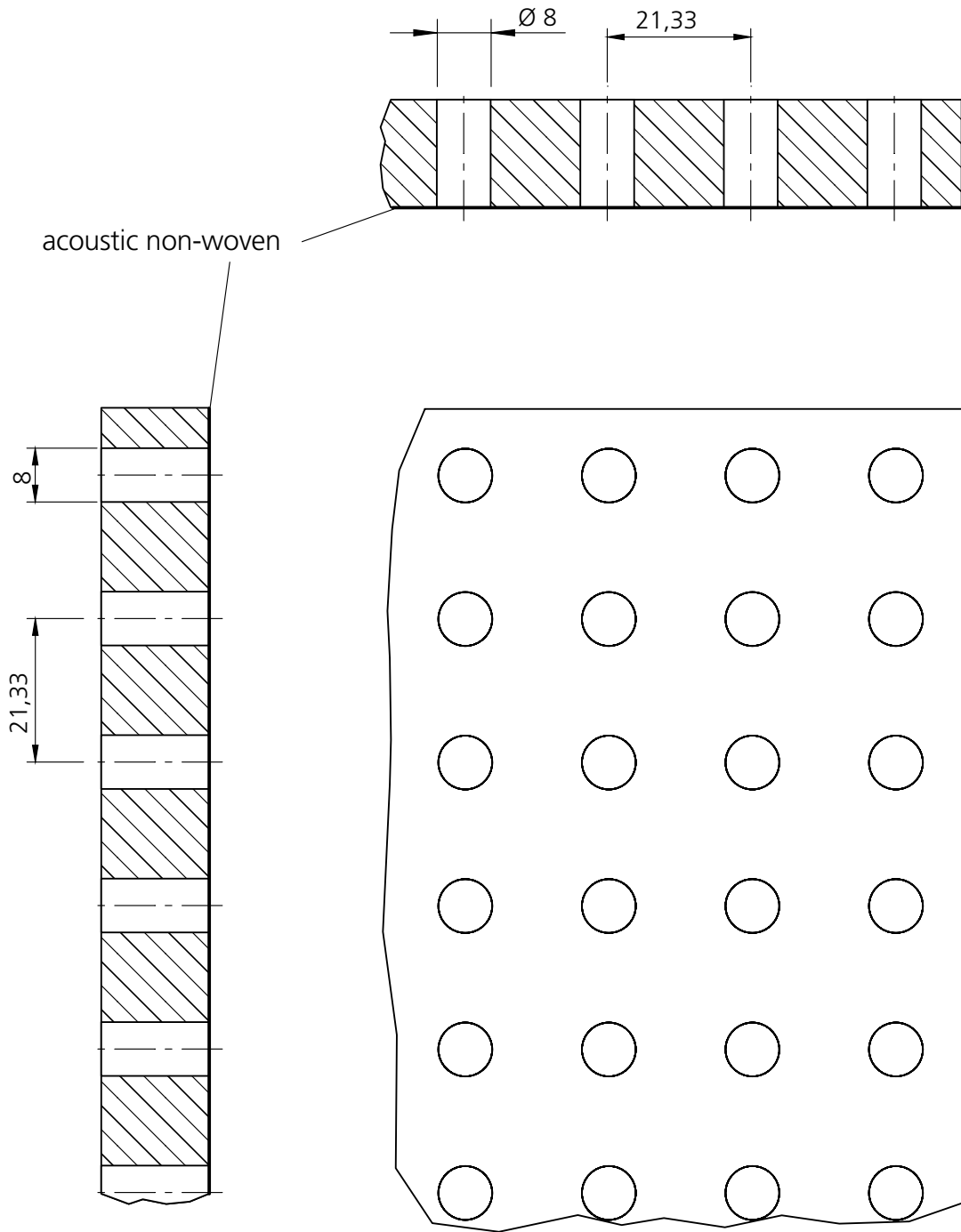


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Staudigel GmbH
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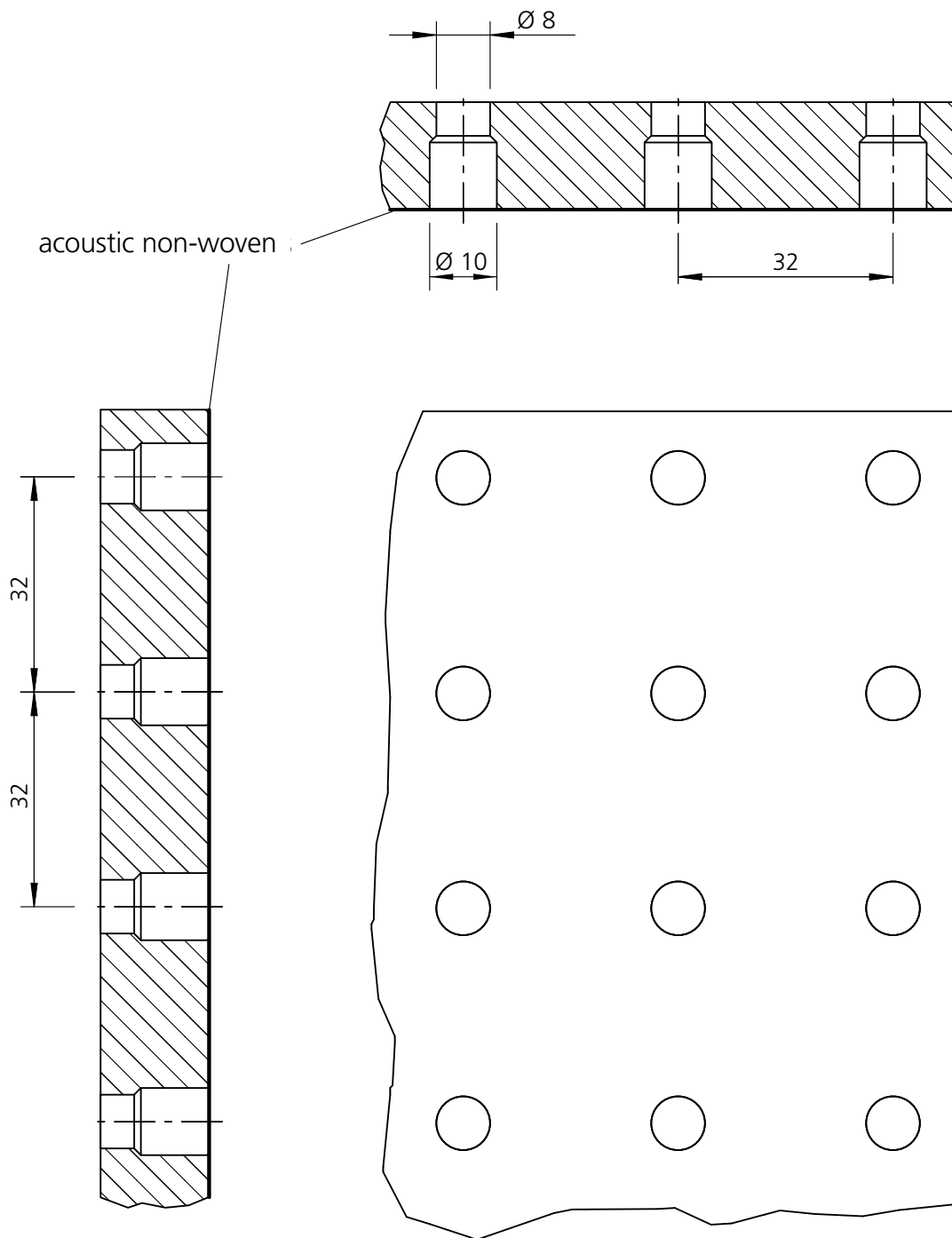
ALPHA-AKUSTIK Hole Face Pattern Type 21,33/21,33/8 – 8



proportion of perforated surface 11,0 %

as of February 2018

ALPHA-AKUSTIK Hole Face Pattern Type 32/32/10 – 8



proportion of perforated surface 4,9 %

as of February 2018

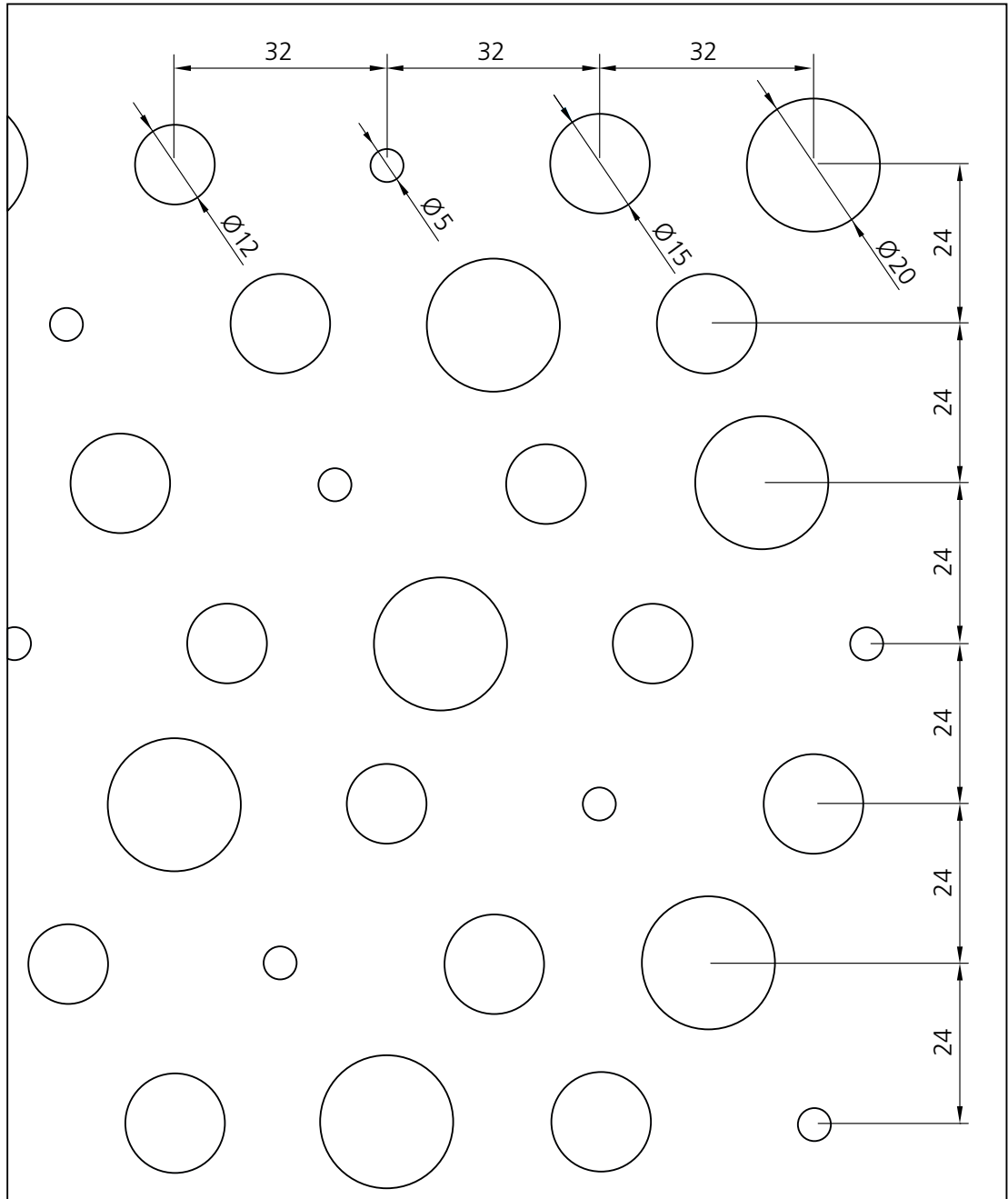
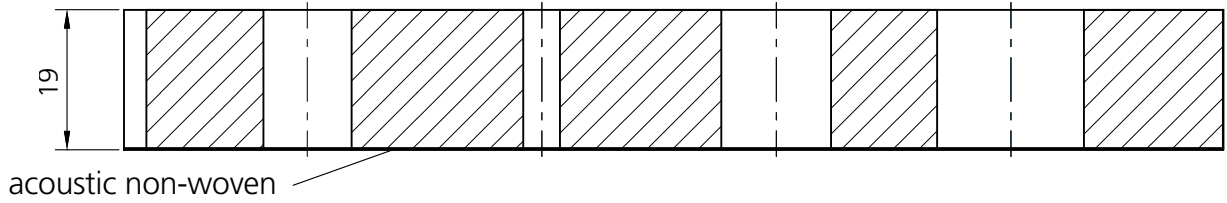


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Staudigel GmbH
Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0)9 31 9 70 54-0
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ALPHA-AKUSTIK Scattered Holes

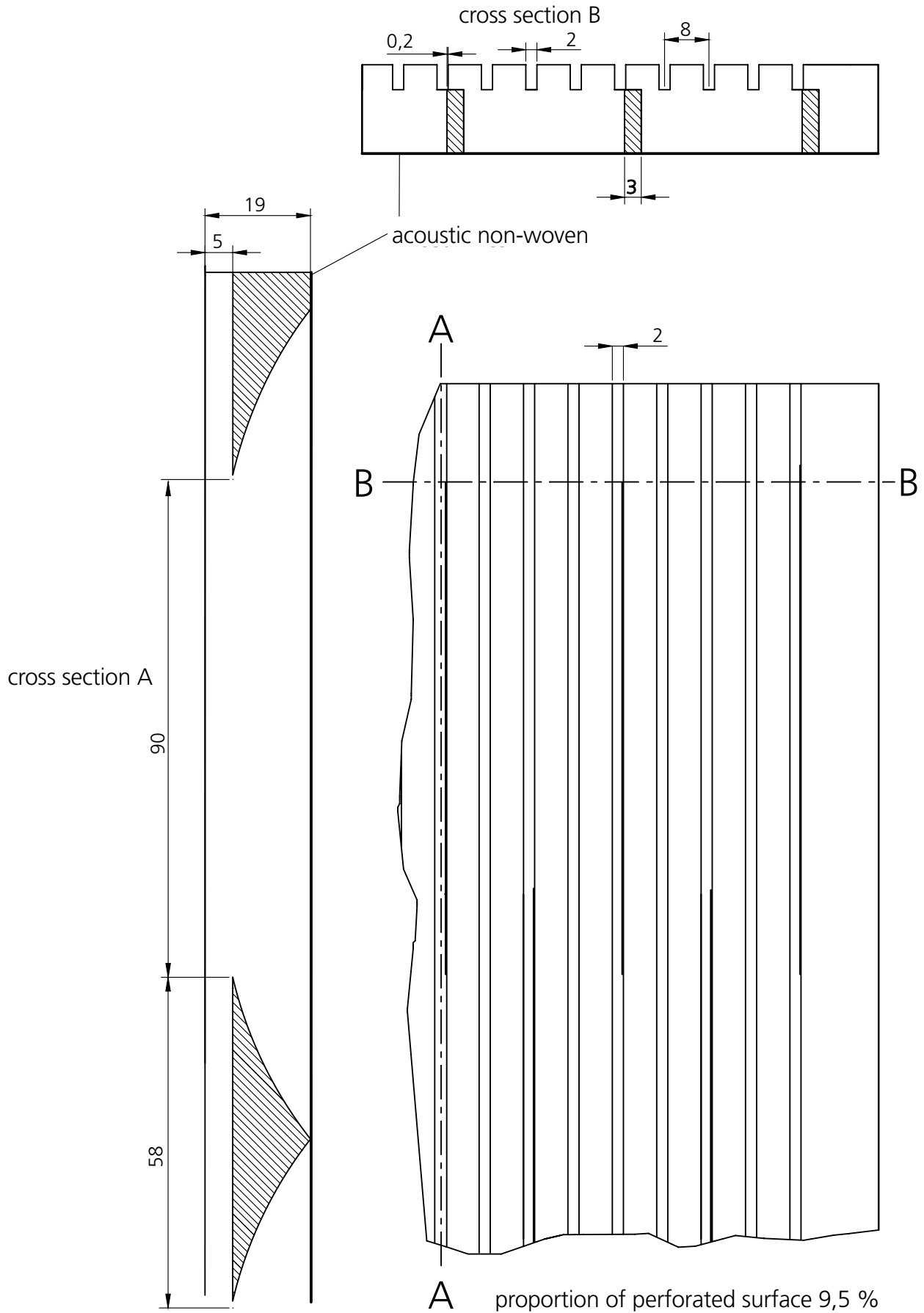


proportion of perforated surface 19,9 %

as of September 2021

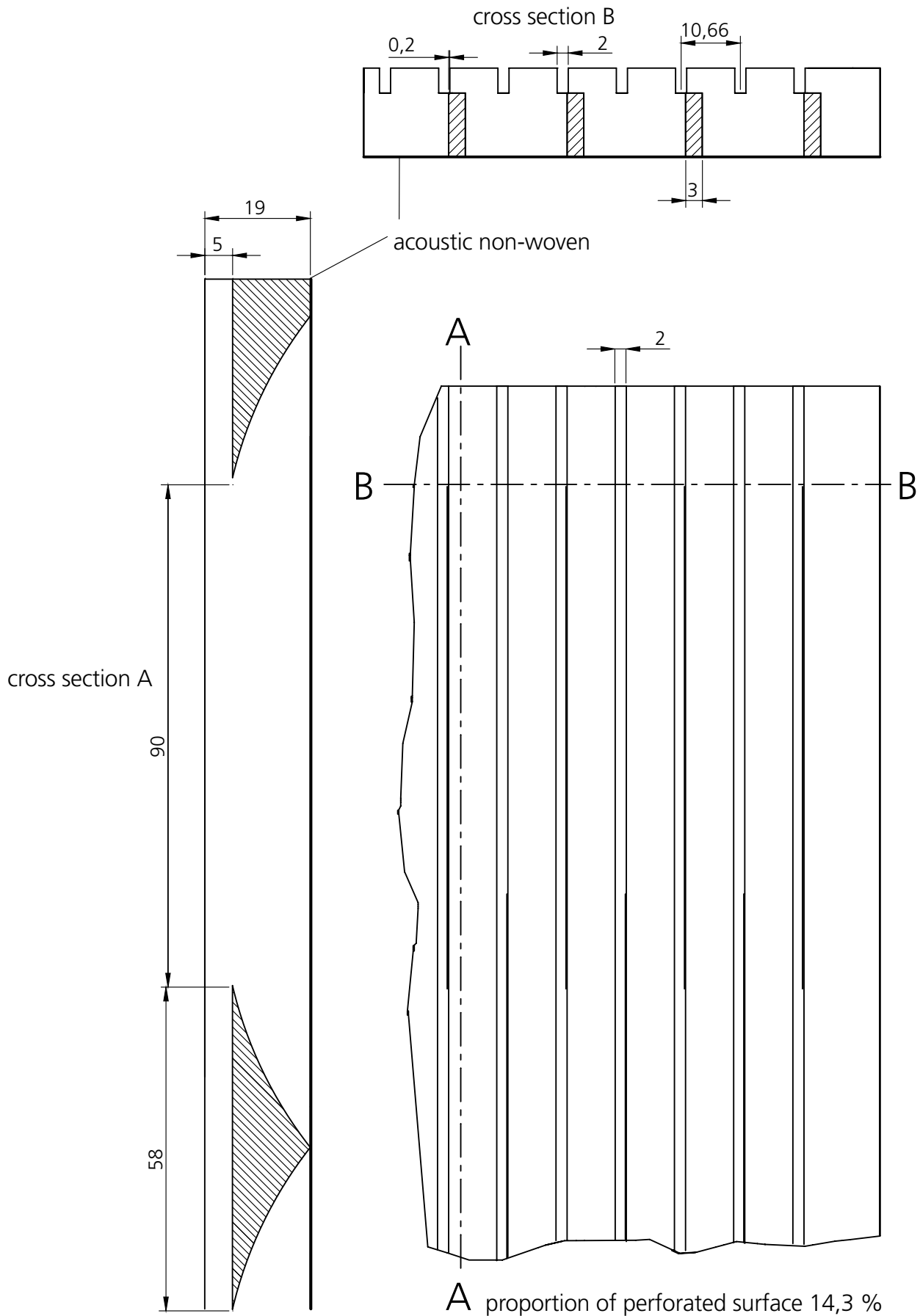
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ALPHA-AKUSTIK Groove Face Pattern Type 8 – 2 G



as of February 2018

ALPHA-AKUSTIK Groove Face Pattern Type 10,66 – 2 G



as of February 2018

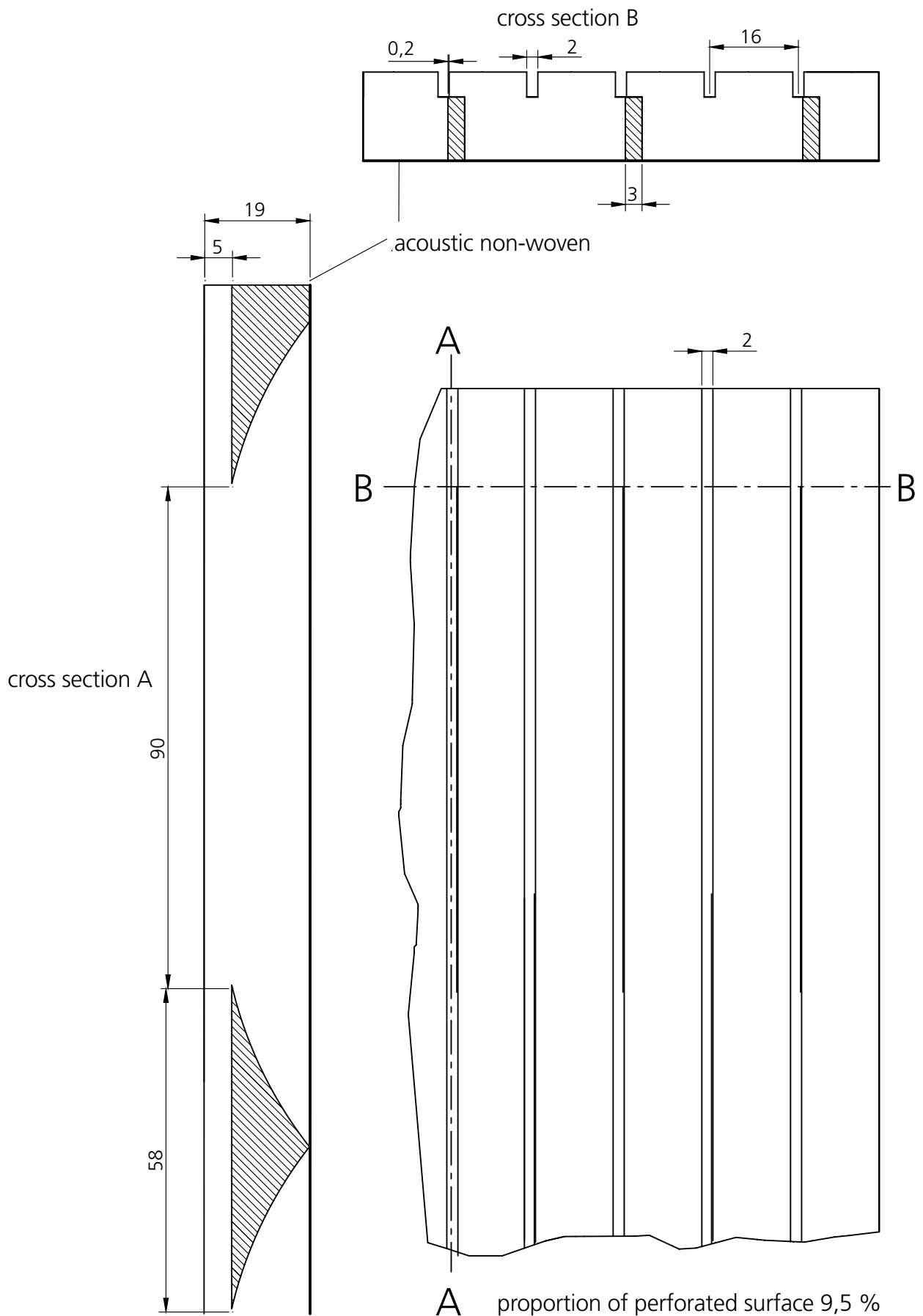


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ALPHA-AKUSTIK Groove Face Pattern Type 16 – 2 G



as of February 2018



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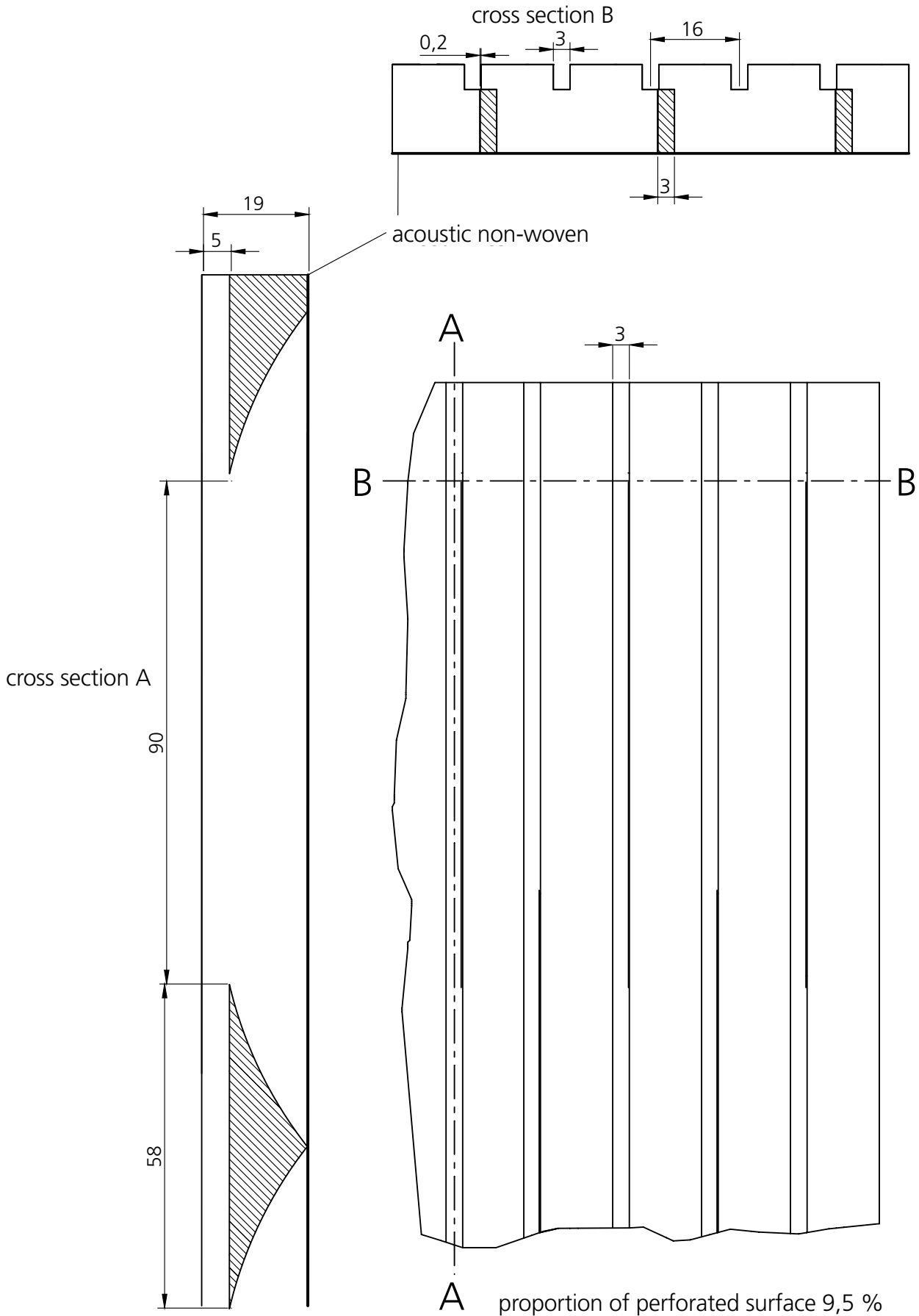
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ALPHA-AKUSTIK Groove Face Pattern Type 16 – 3 G



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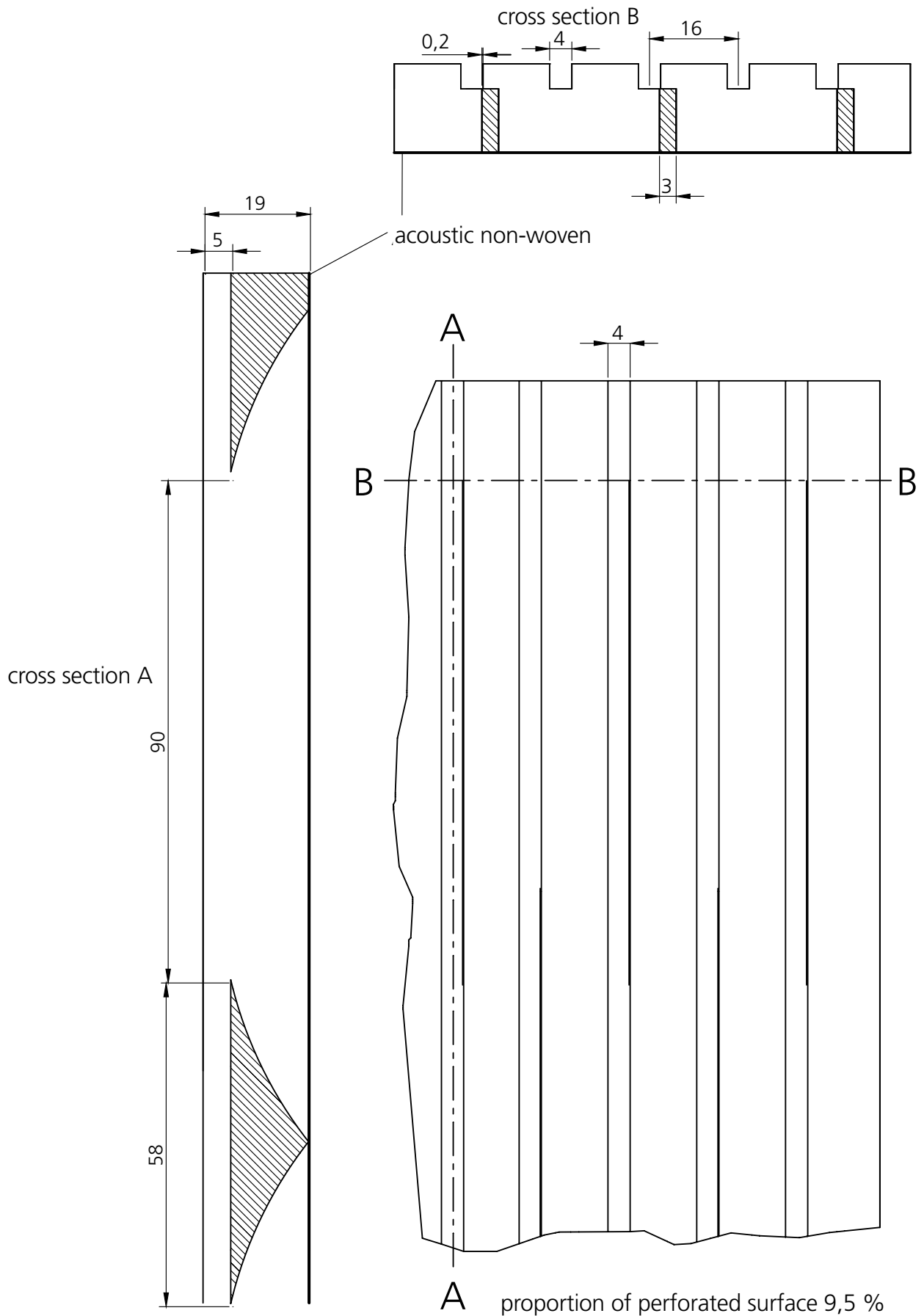


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ALPHA-AKUSTIK Groove Face Pattern Type 16 – 4 G

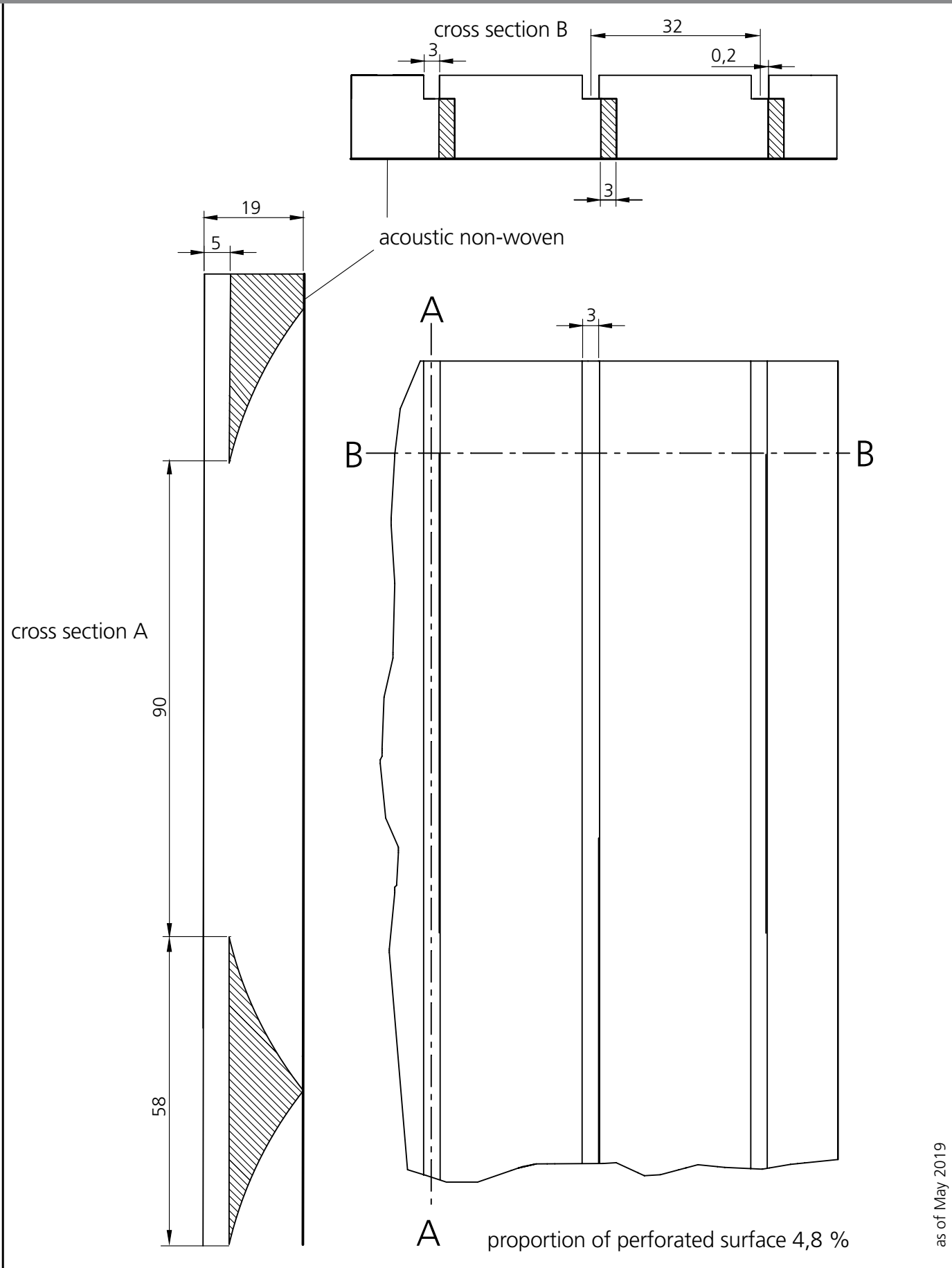


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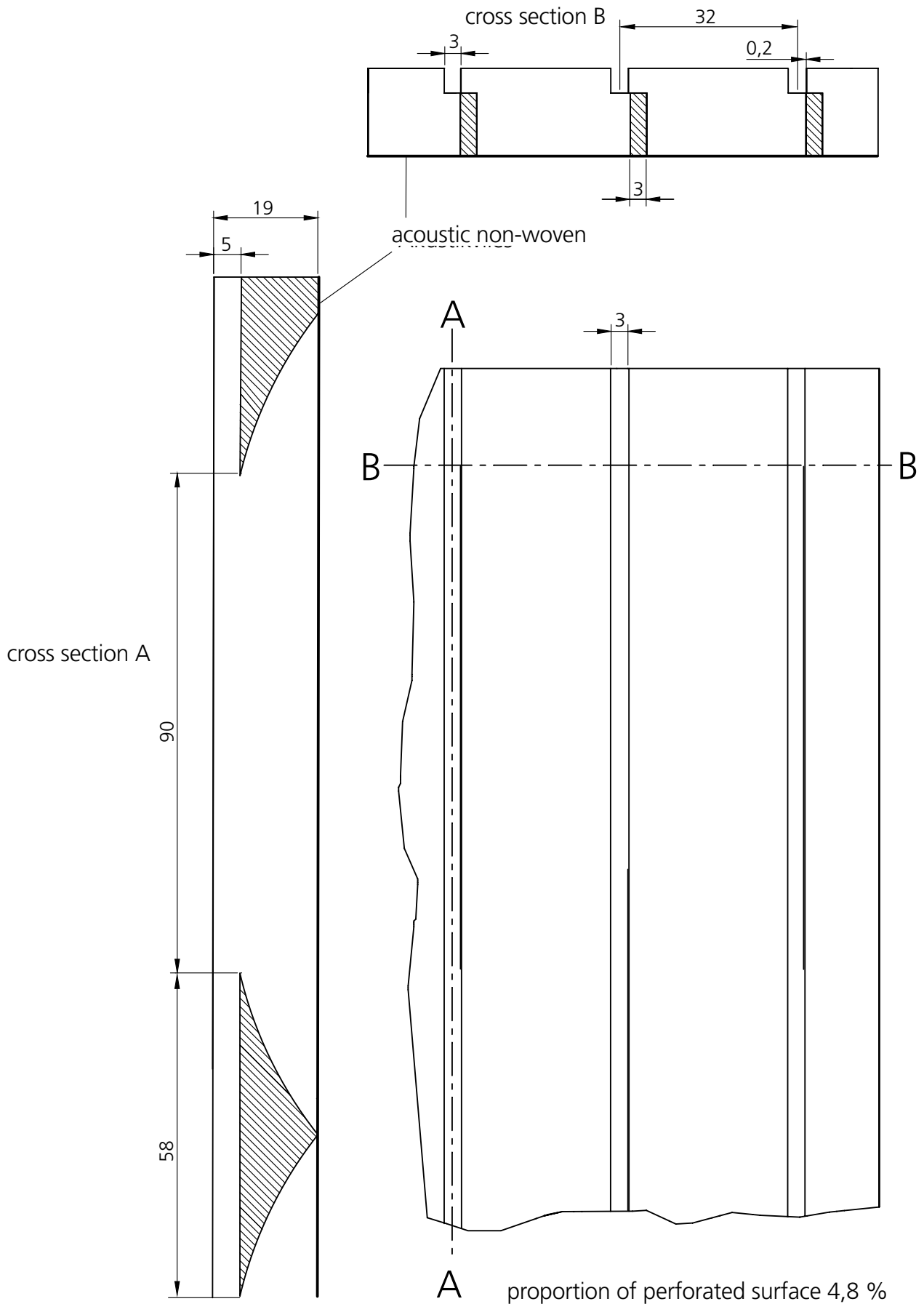
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ALPHA-AKUSTIK Groove Face Pattern Typ 32 – 2 G



as of May 2019

ALPHA-AKUSTIK Groove Face Pattern Type 32 – 3 G



as of February 2018

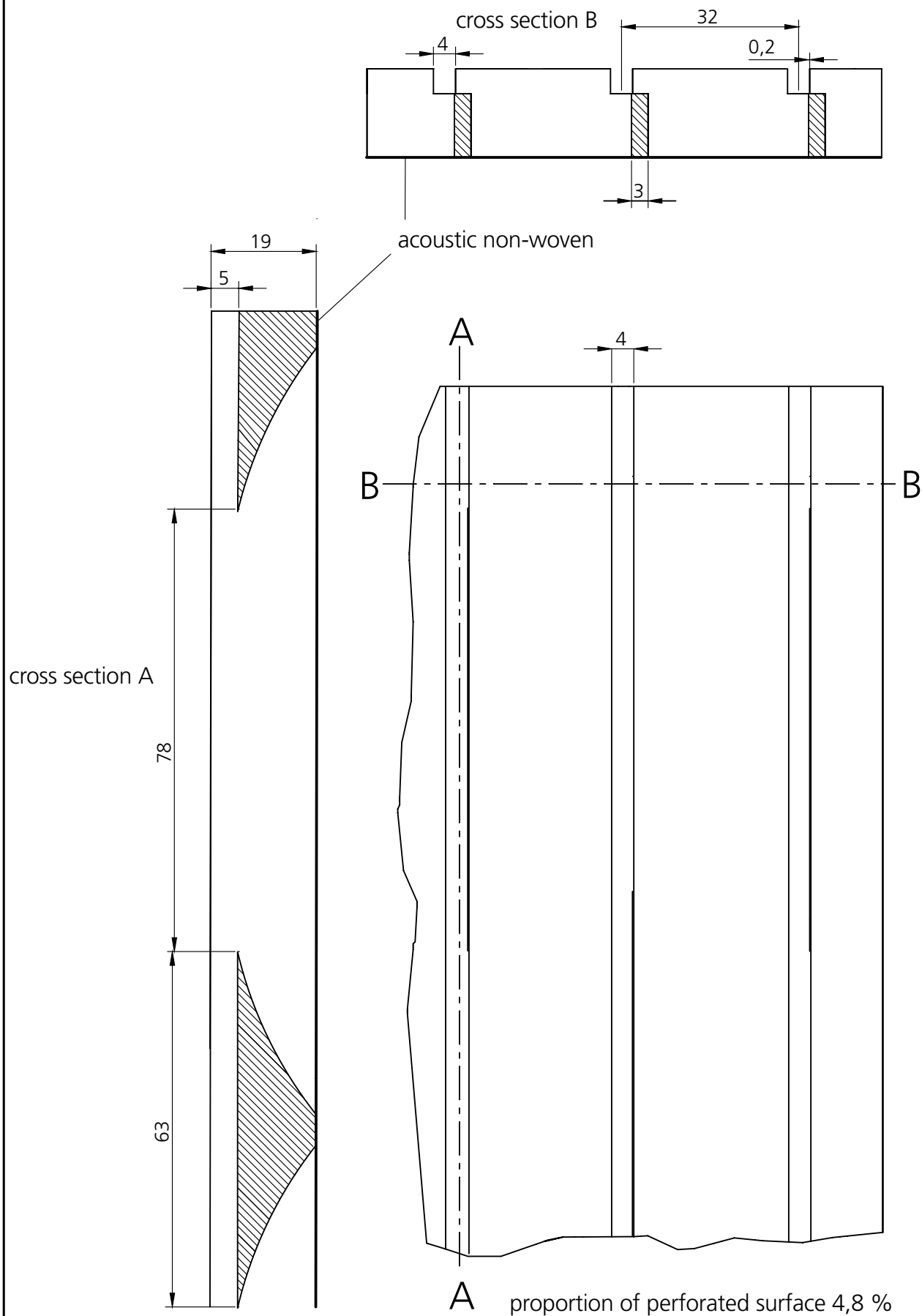


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ALPHA-AKUSTIK Groove Face Pattern Type 32 – 4 G



as of February 2018

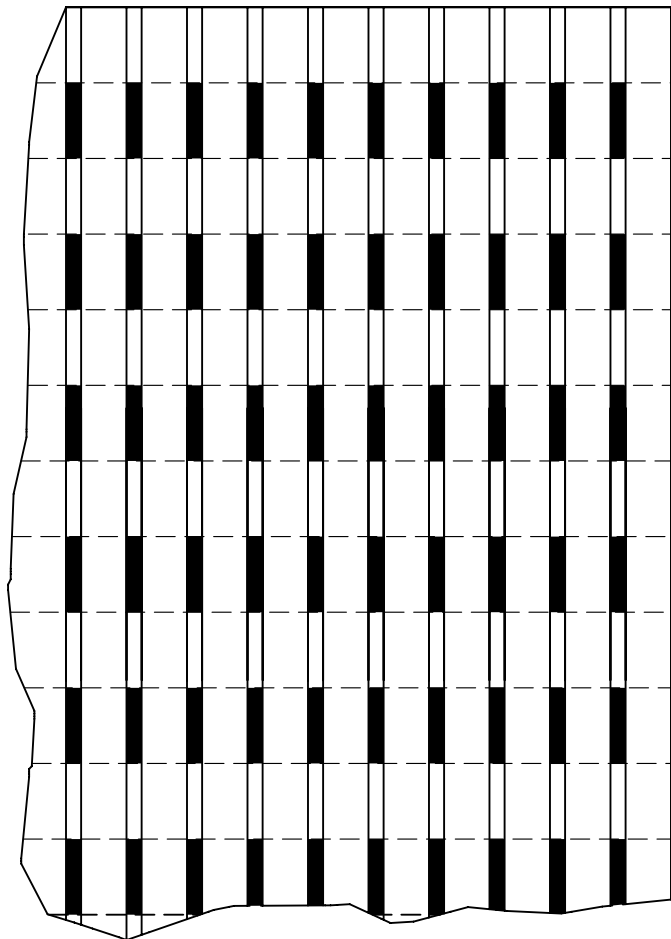
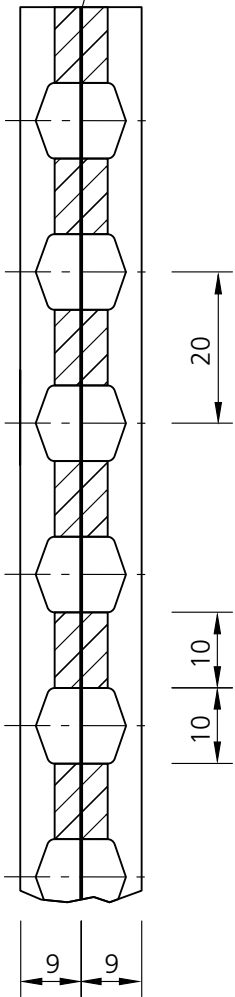
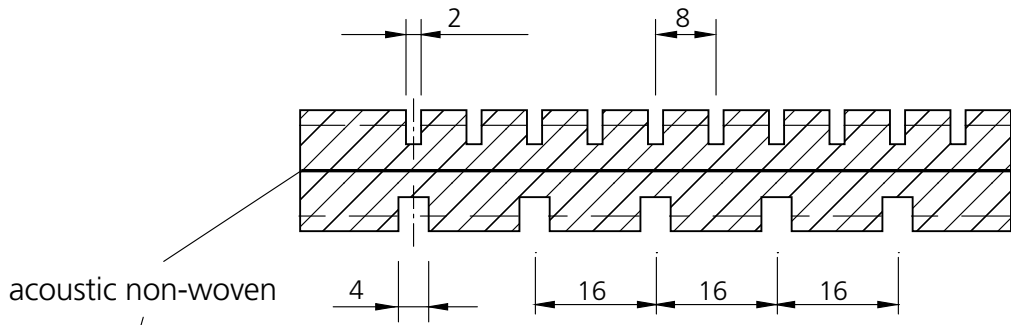


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ALPHA-AKUSTIK Groove Face Pattern 20/N10 – 8 – 2



proportion of perforated surface 12,5 %

as of February 2018



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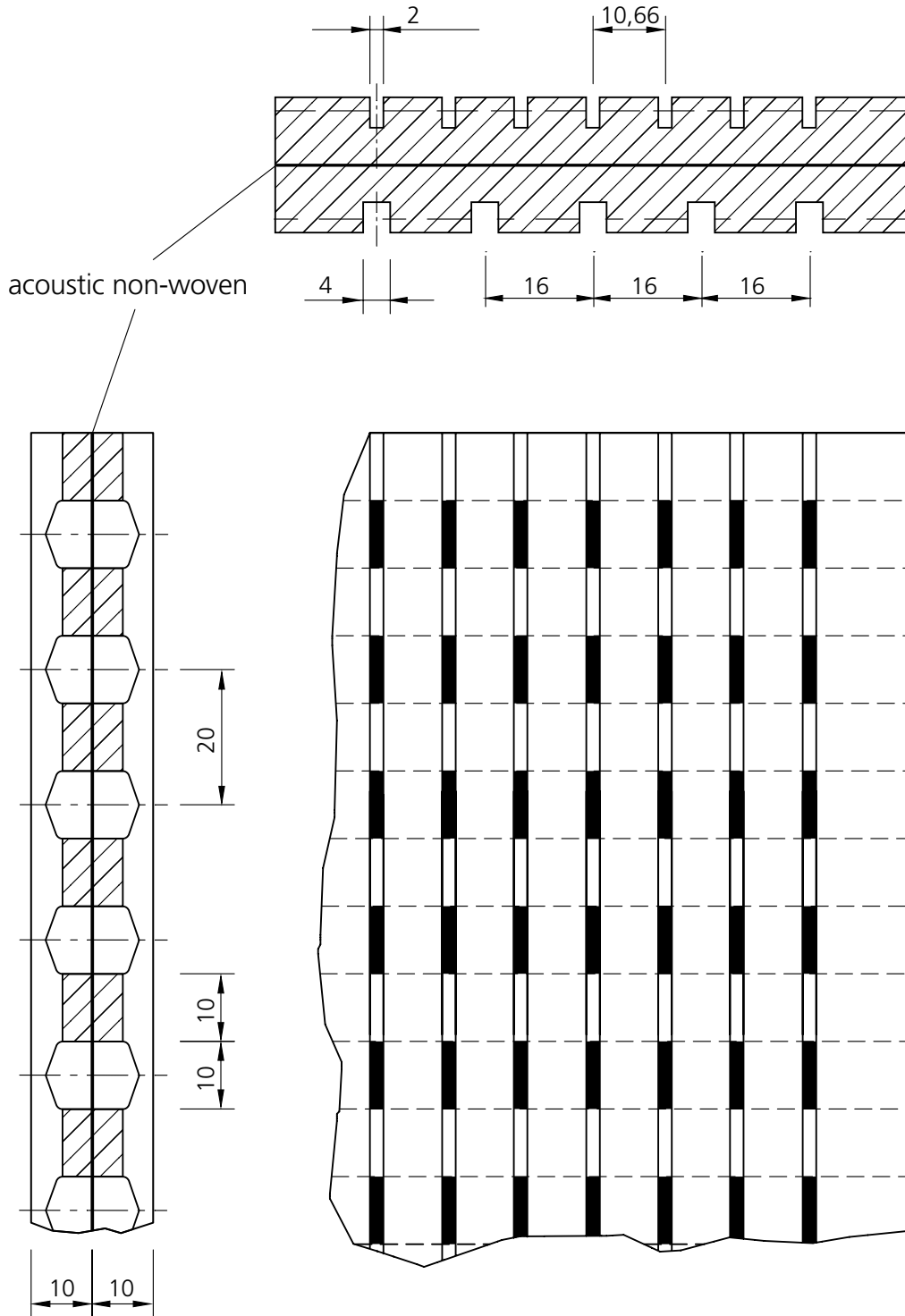
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ALPHA-AKUSTIK Groove Face Pattern 20/N10 – 10,66 – 2



proportion of perforated surface 9,4 %

as of February 2018

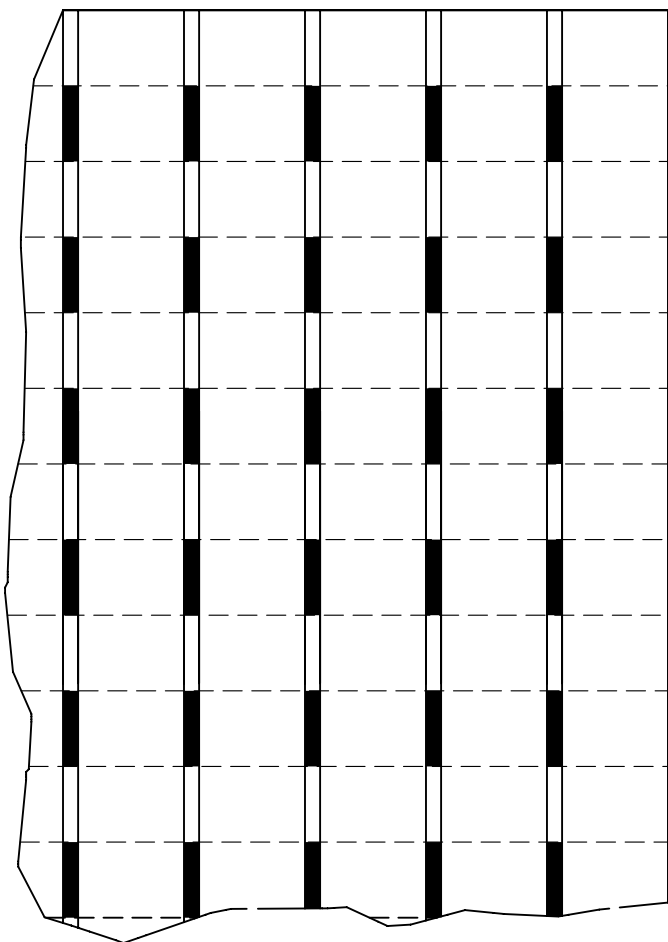
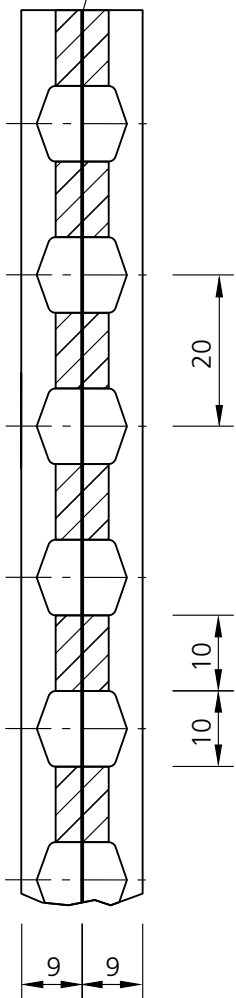
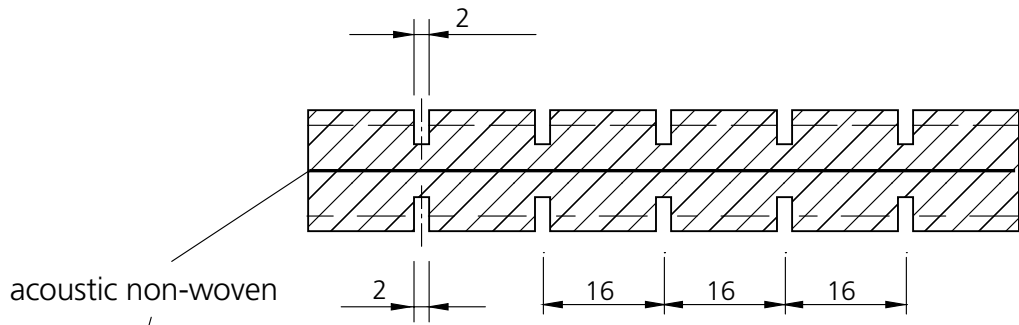


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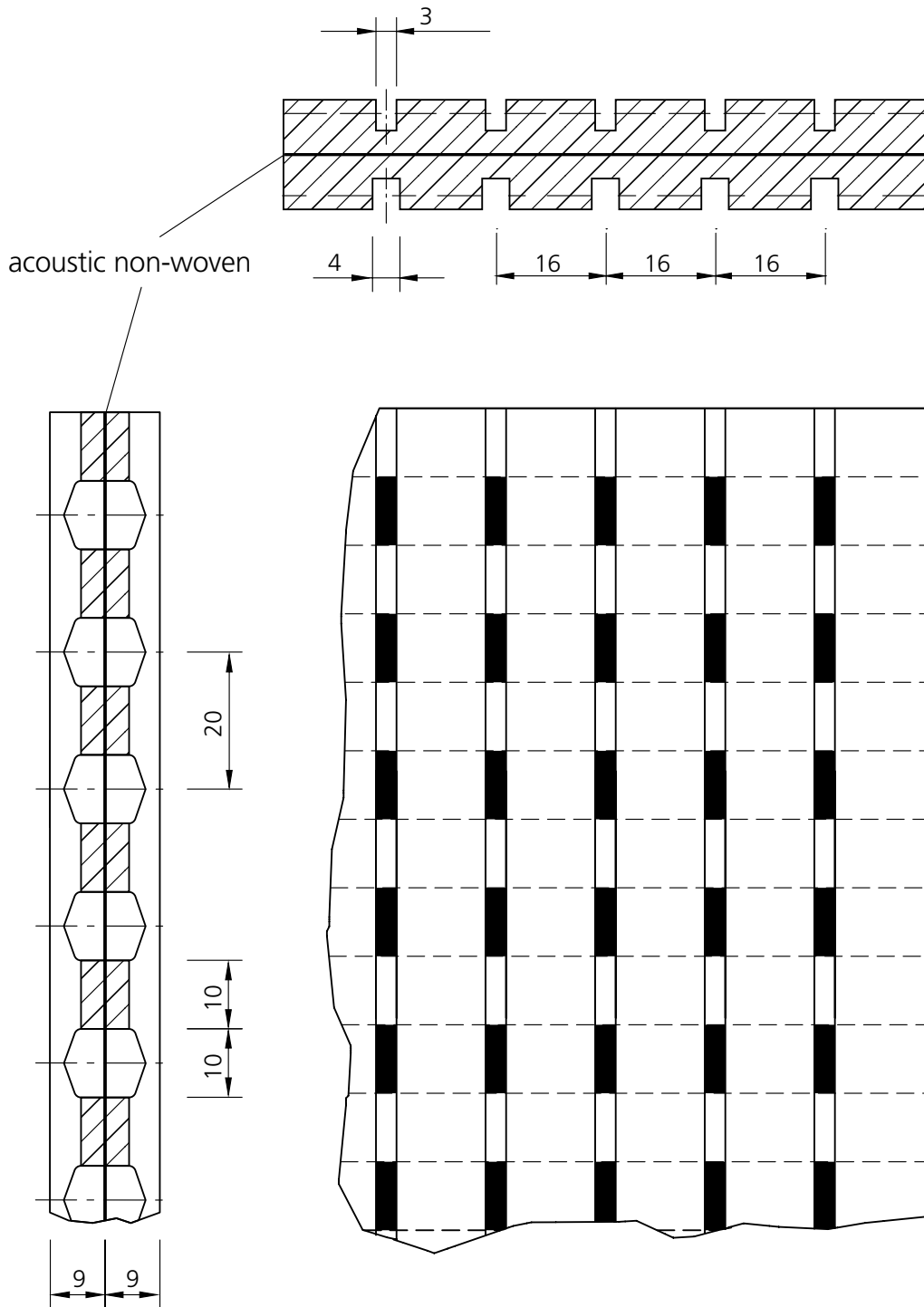
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ALPHA-AKUSTIK Groove Face Pattern 20/N10 – 16 – 2



proportion of perforated surface 6,2 %

as of February 2018



proportion of perforated surface 9,3 %

as of February 2018

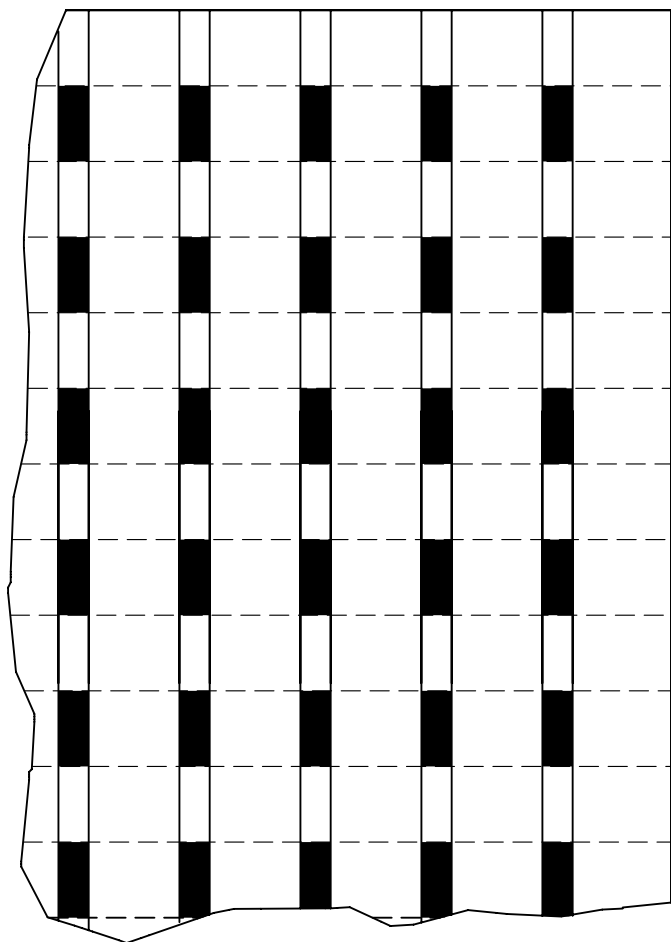
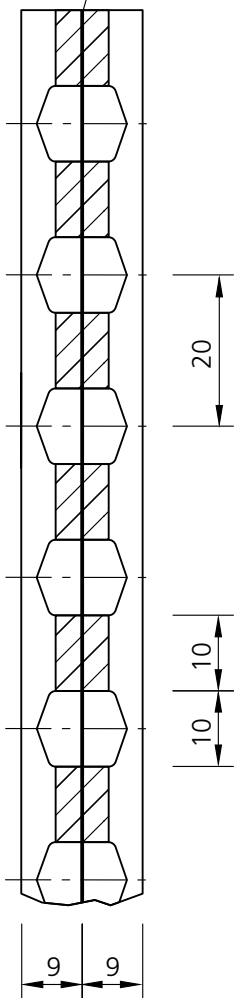
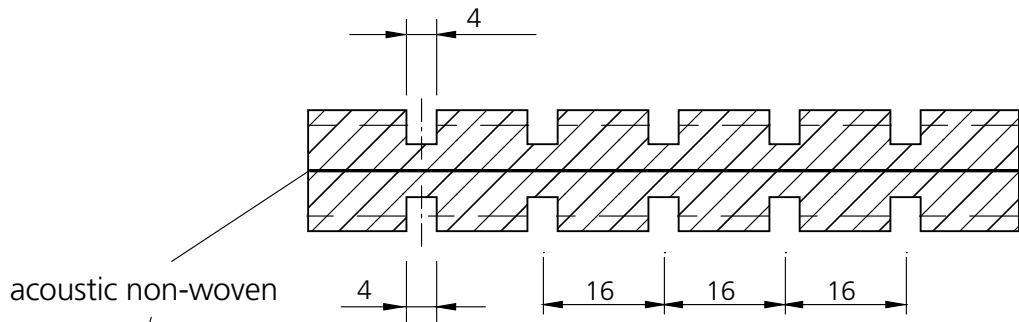


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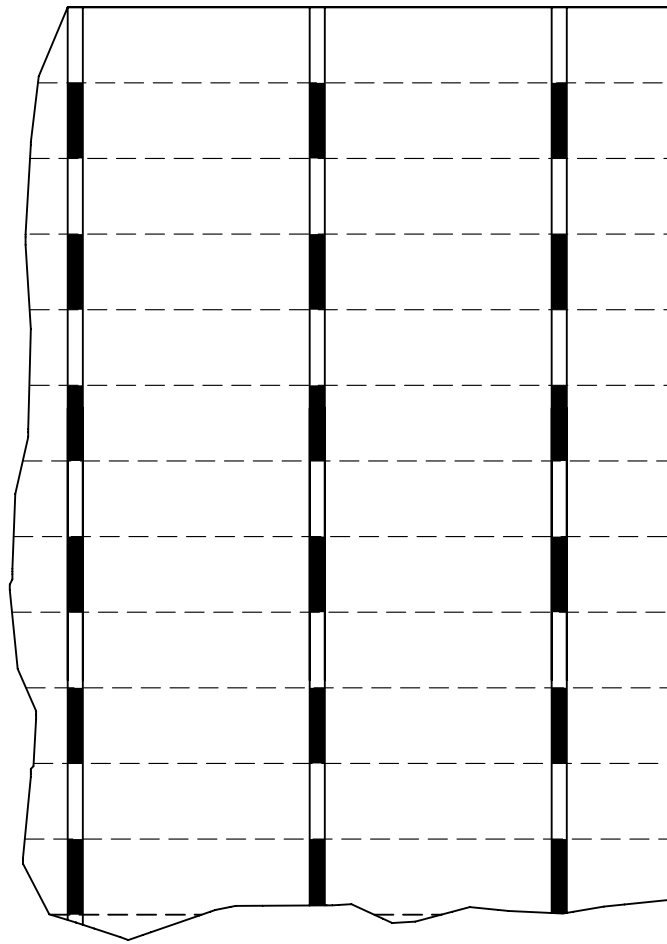
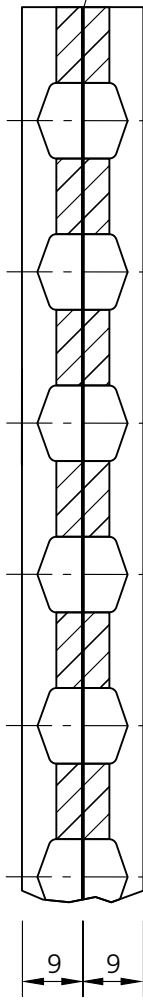
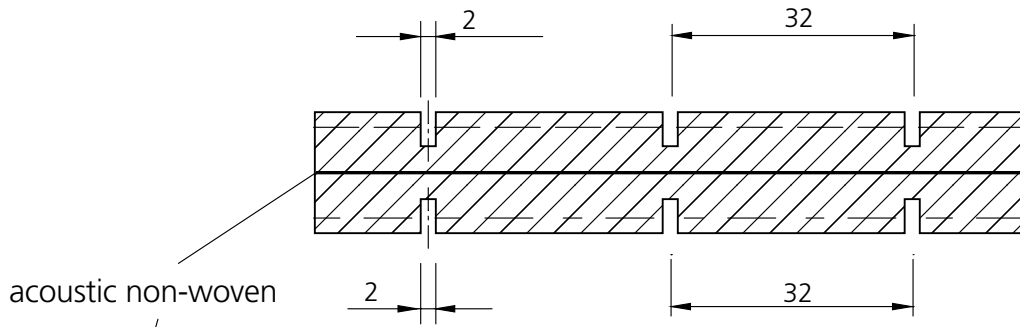
ALPHA-AKUSTIK Groove Face Pattern 20/N10 – 16 – 4



proportion of perforated surface 12,5 %

as of February 2018

ALPHA-AKUSTIK Groove Face Pattern 20/N10 – 32 – 2



proportion of perforated surface 3,1 %

as of February 2018

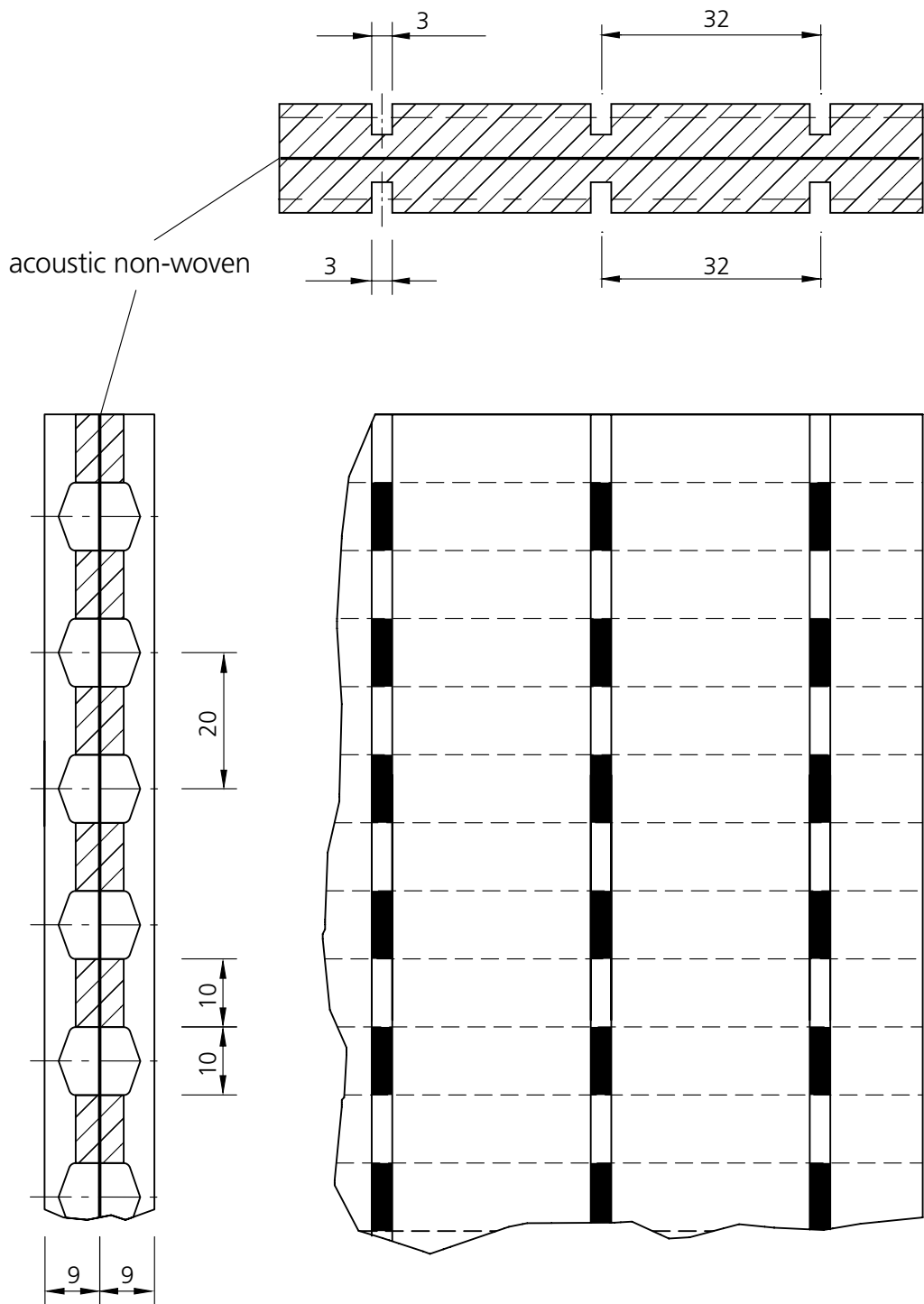


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ALPHA-AKUSTIK Groove Face Pattern 20/N10 – 32 – 3



proportion of perforated surface 4,7 %

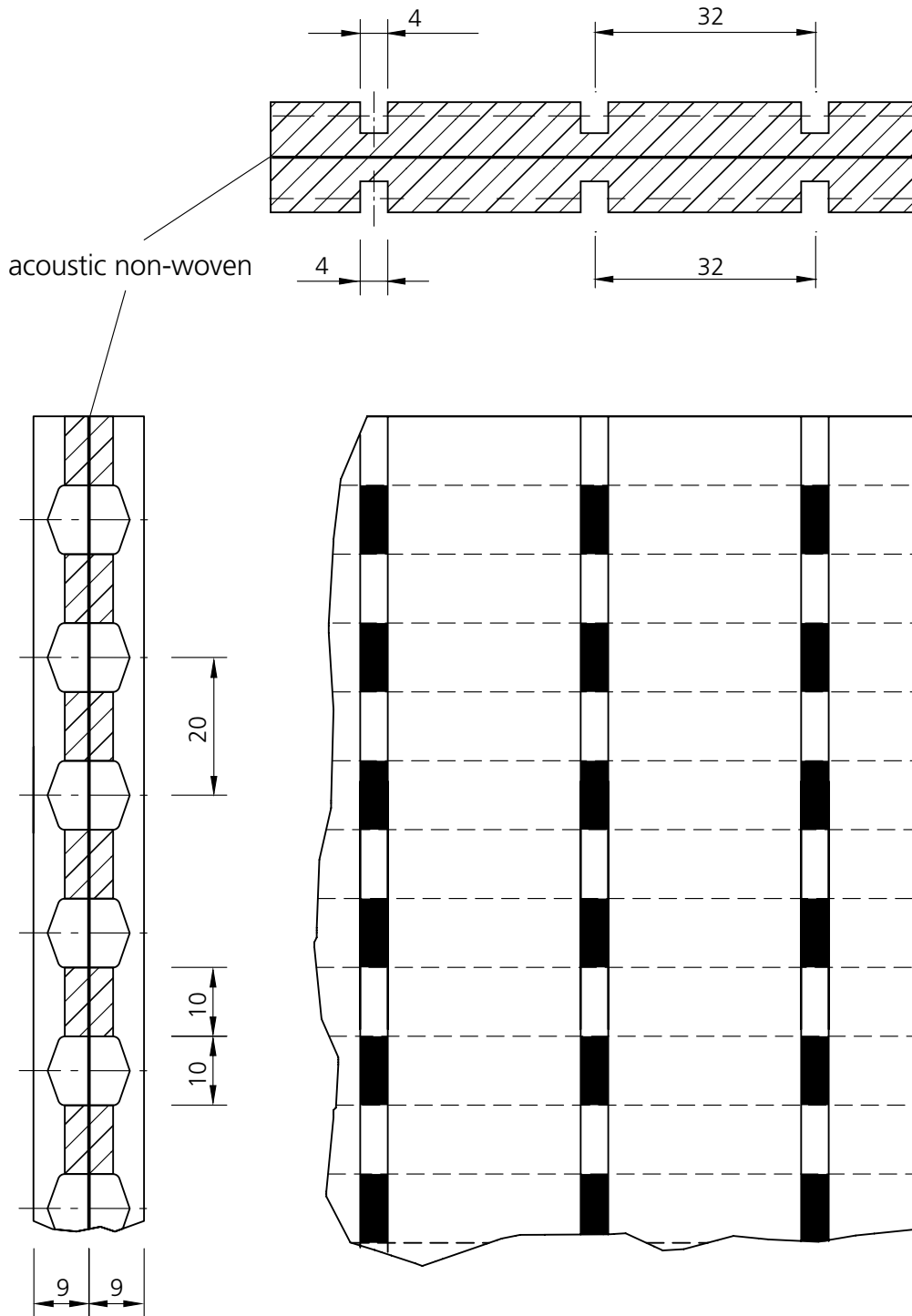
as of February 2018



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proportion of perforated surface 6,2 %

as of February 2018

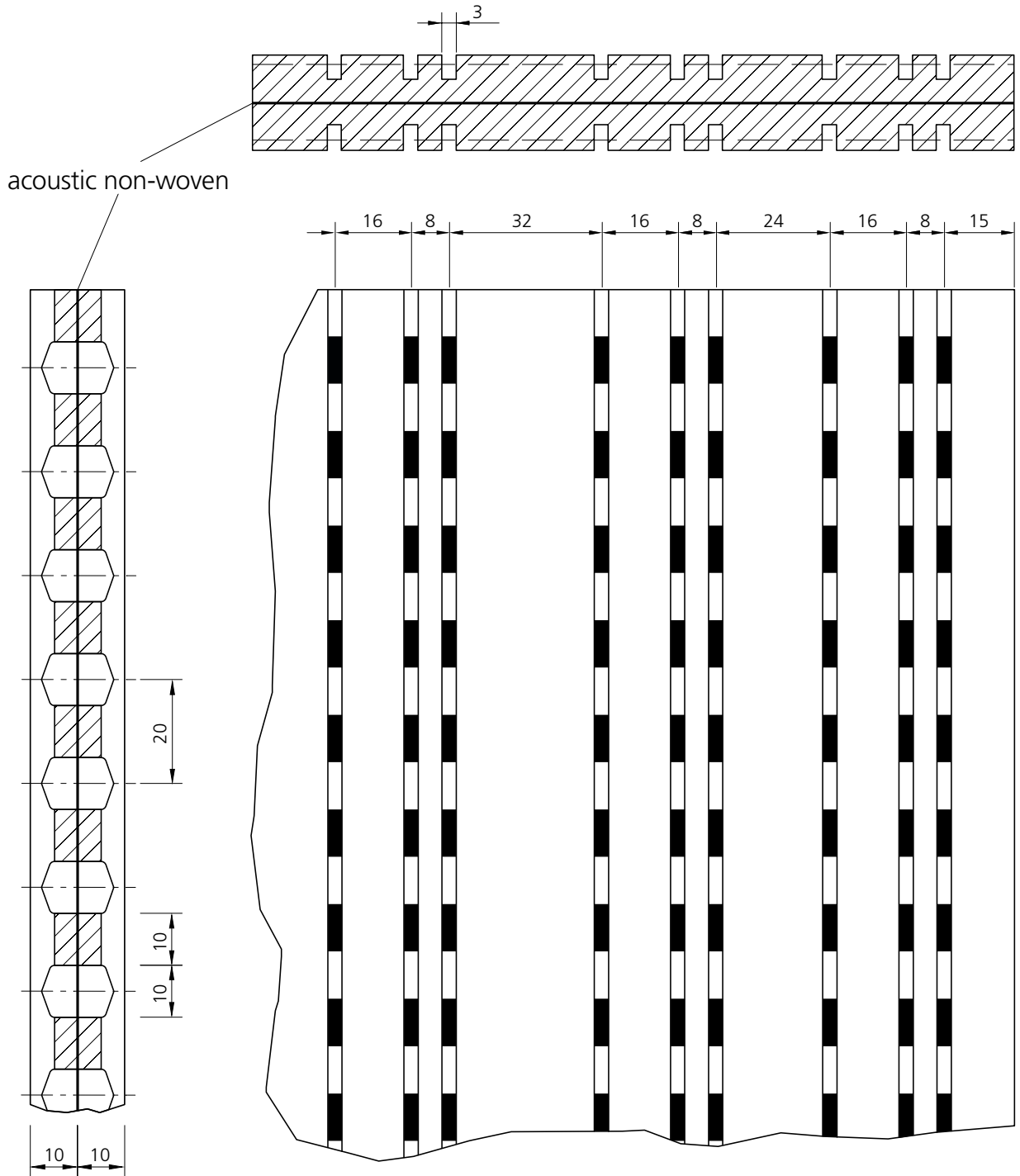


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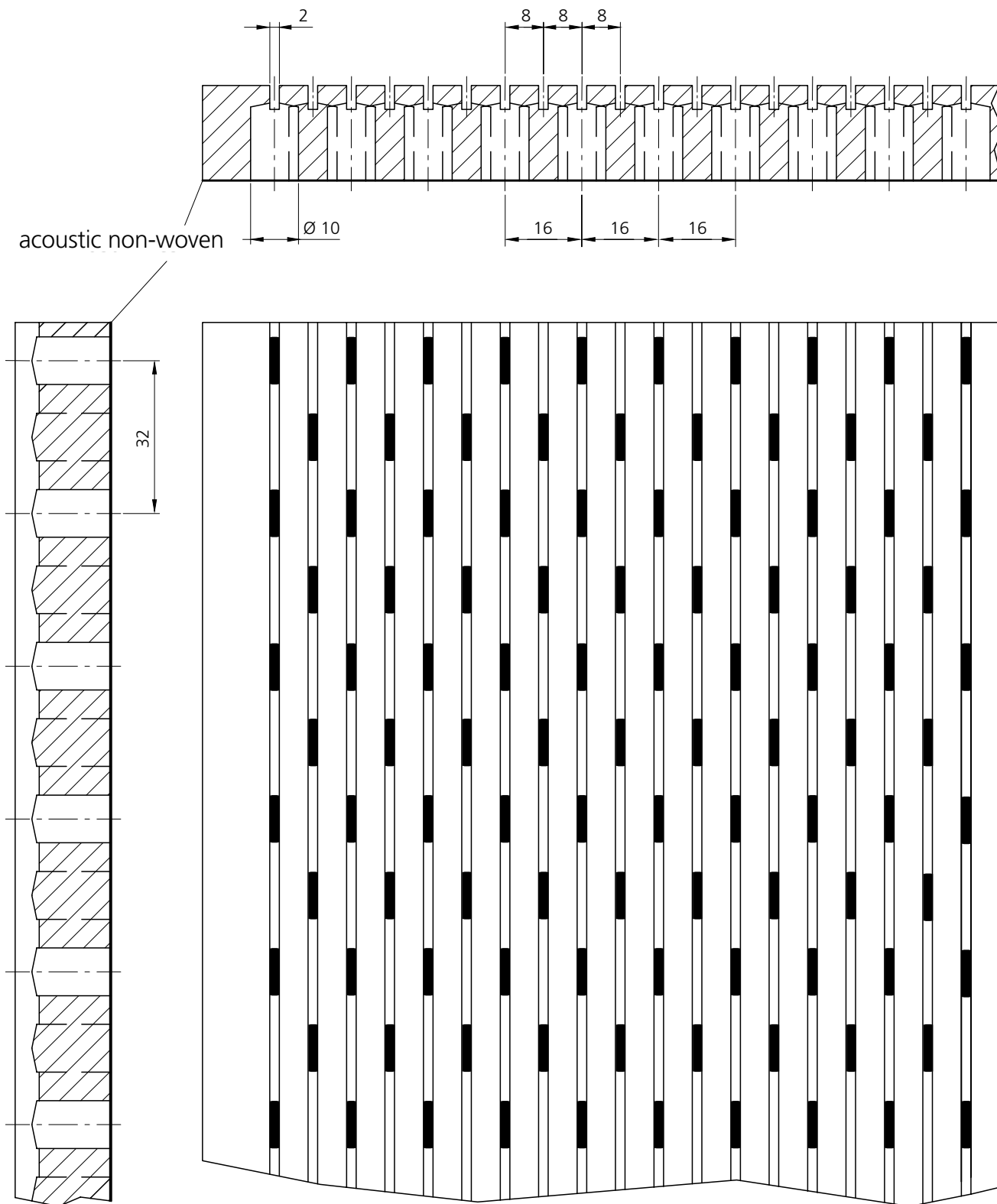
ALPHA-AKUSTIK Variable Groove Face Pattern 20/N10-VARI-3



proportion of perforated surface 9,3 %

as of May 2019

ALPHA-AKUSTIK Groove Face Pattern Type 8 – 2 BV



proportion of perforated surface 7,7 %

as of February 2018

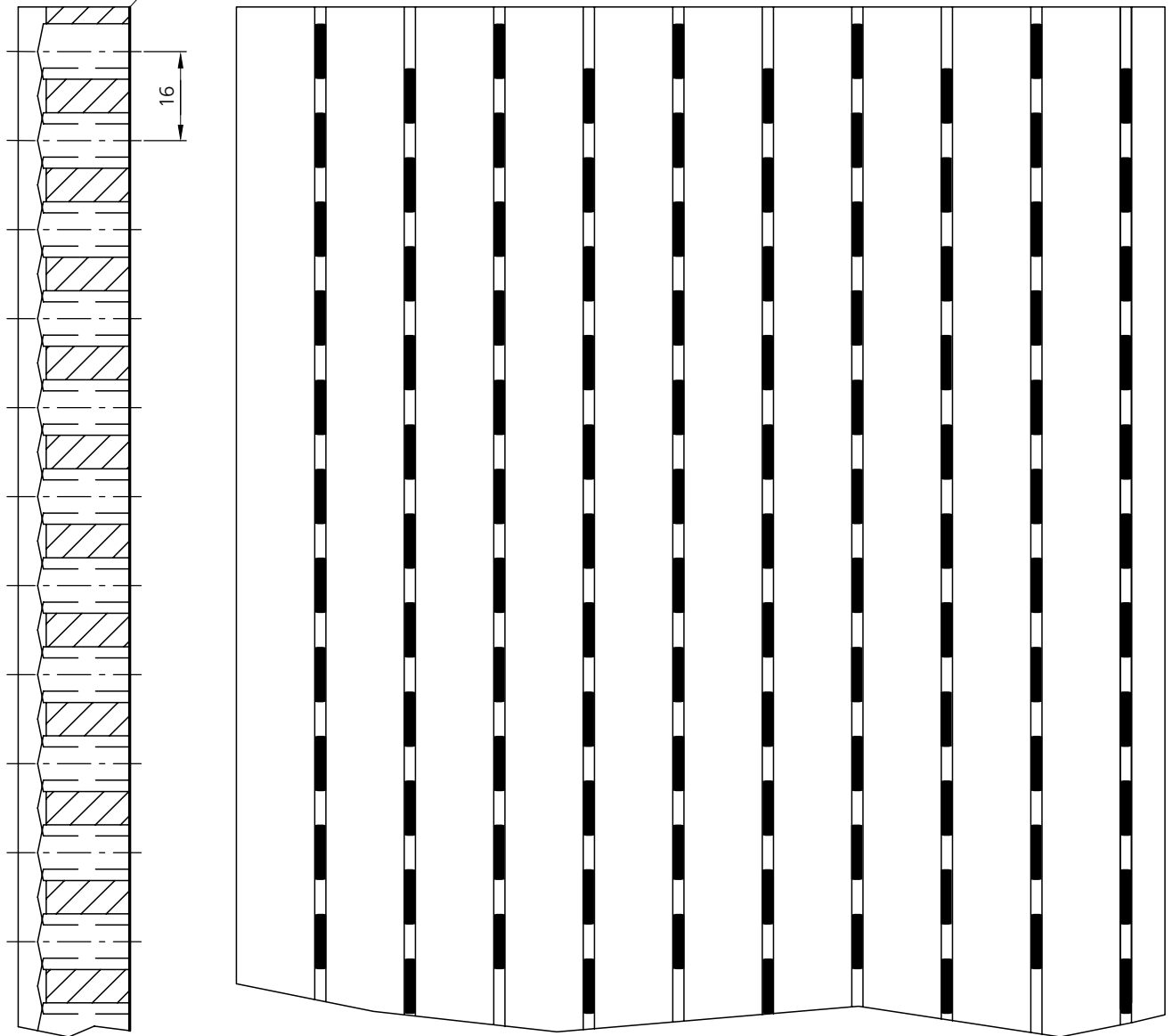
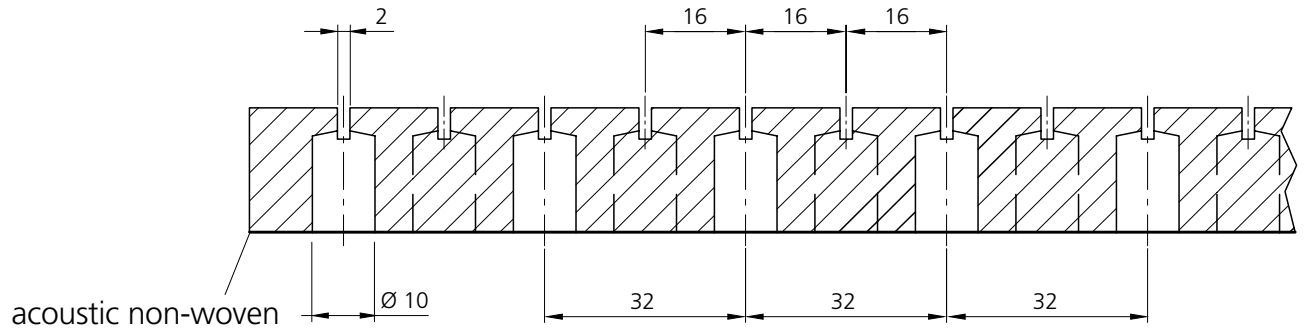


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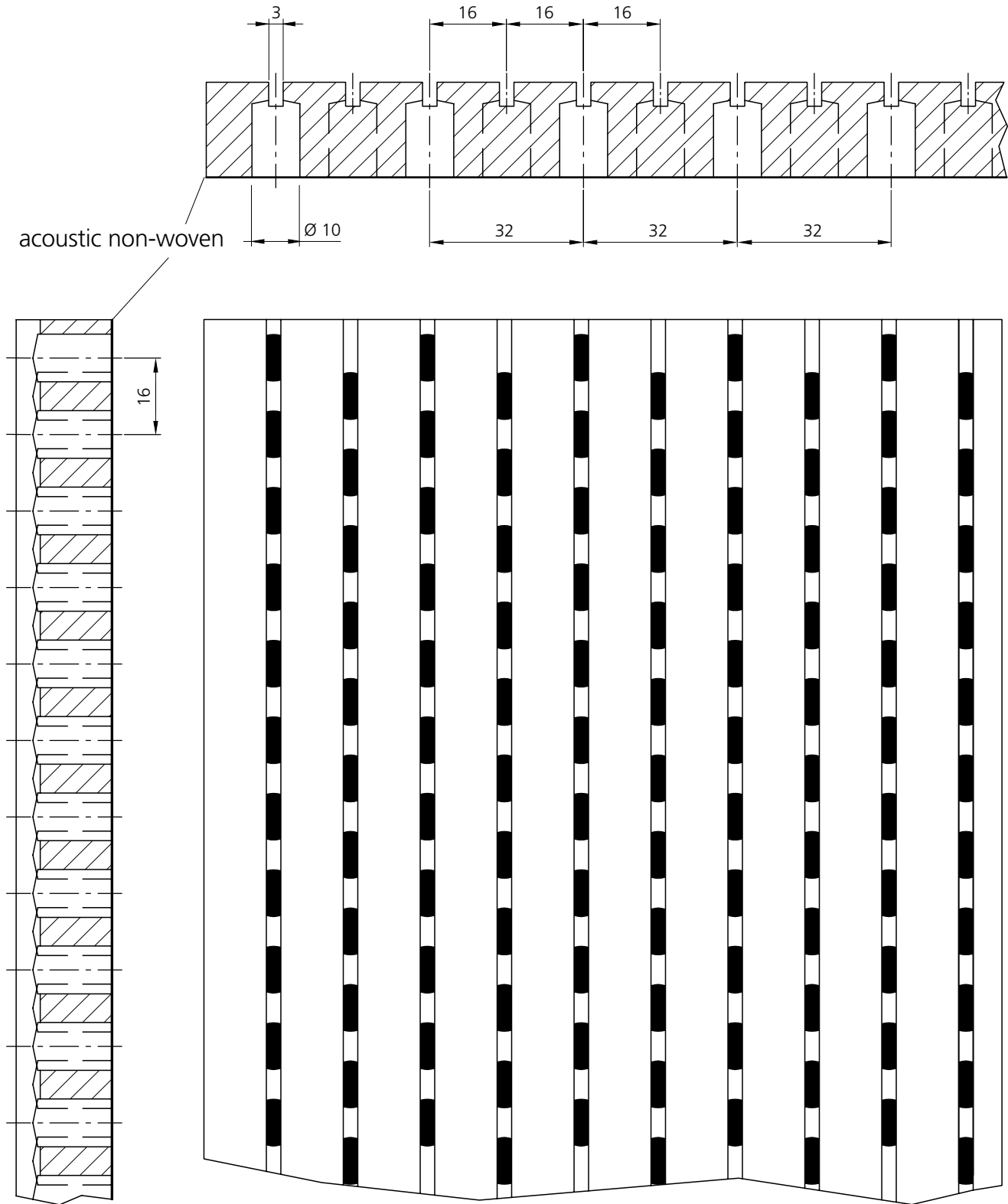
ALPHA-AKUSTIK Groove Face Pattern Type 16 – 2 BV



proportion of perforated surface 7,7 %

as of February 2018

ALPHA-AKUSTIK Groove Face Pattern Type 16 – 3 BV



proportion of perforated surface 11,5 %

as of February 2018

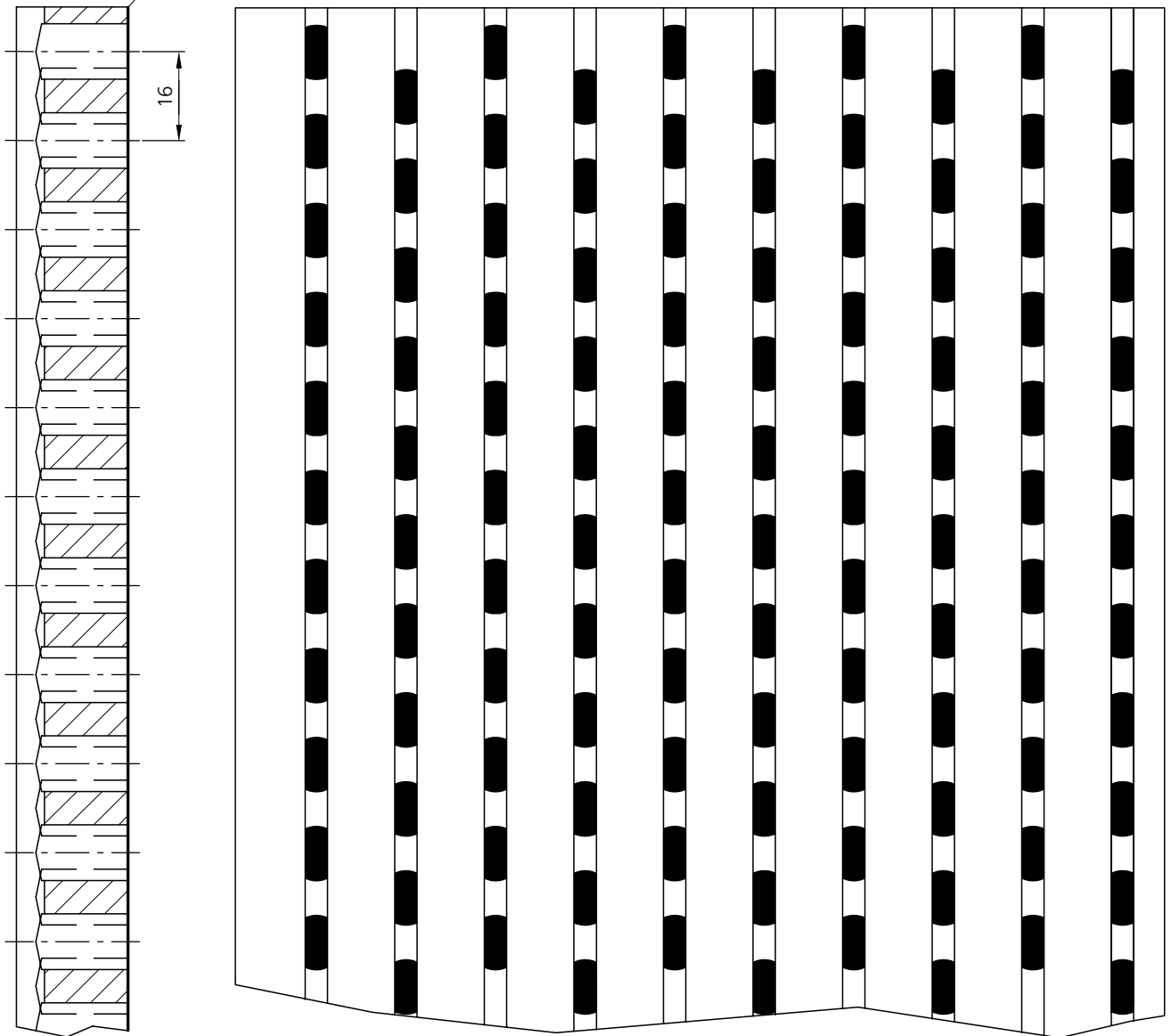
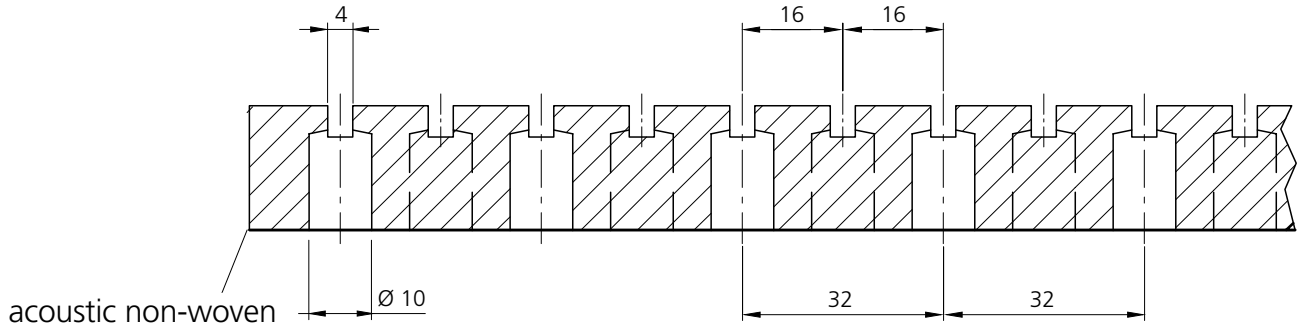


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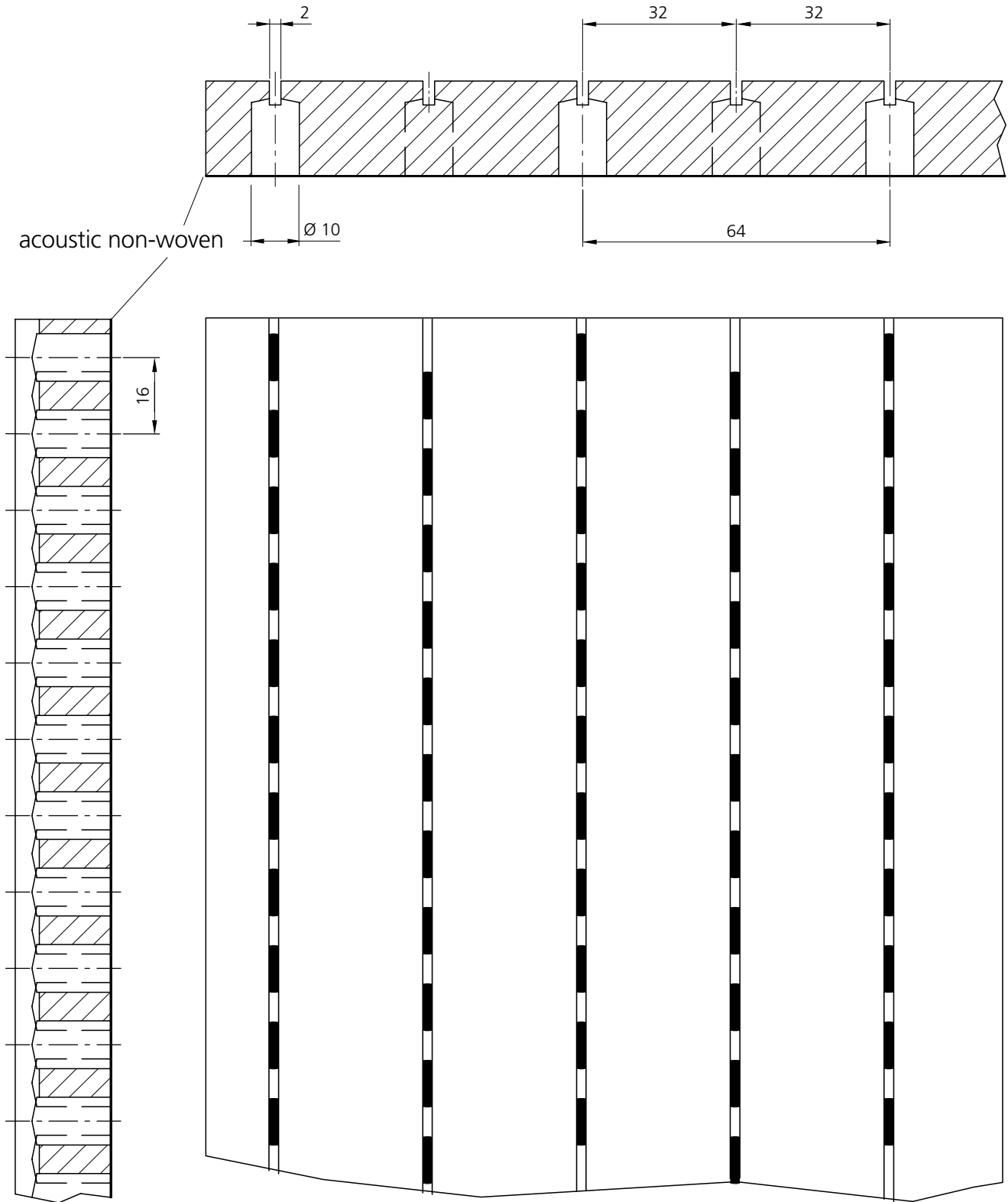
ALPHA-AKUSTIK Groove Face Pattern Type 16 – 4 BV



proportion of perforated surface 15,2 %

as of February 2018

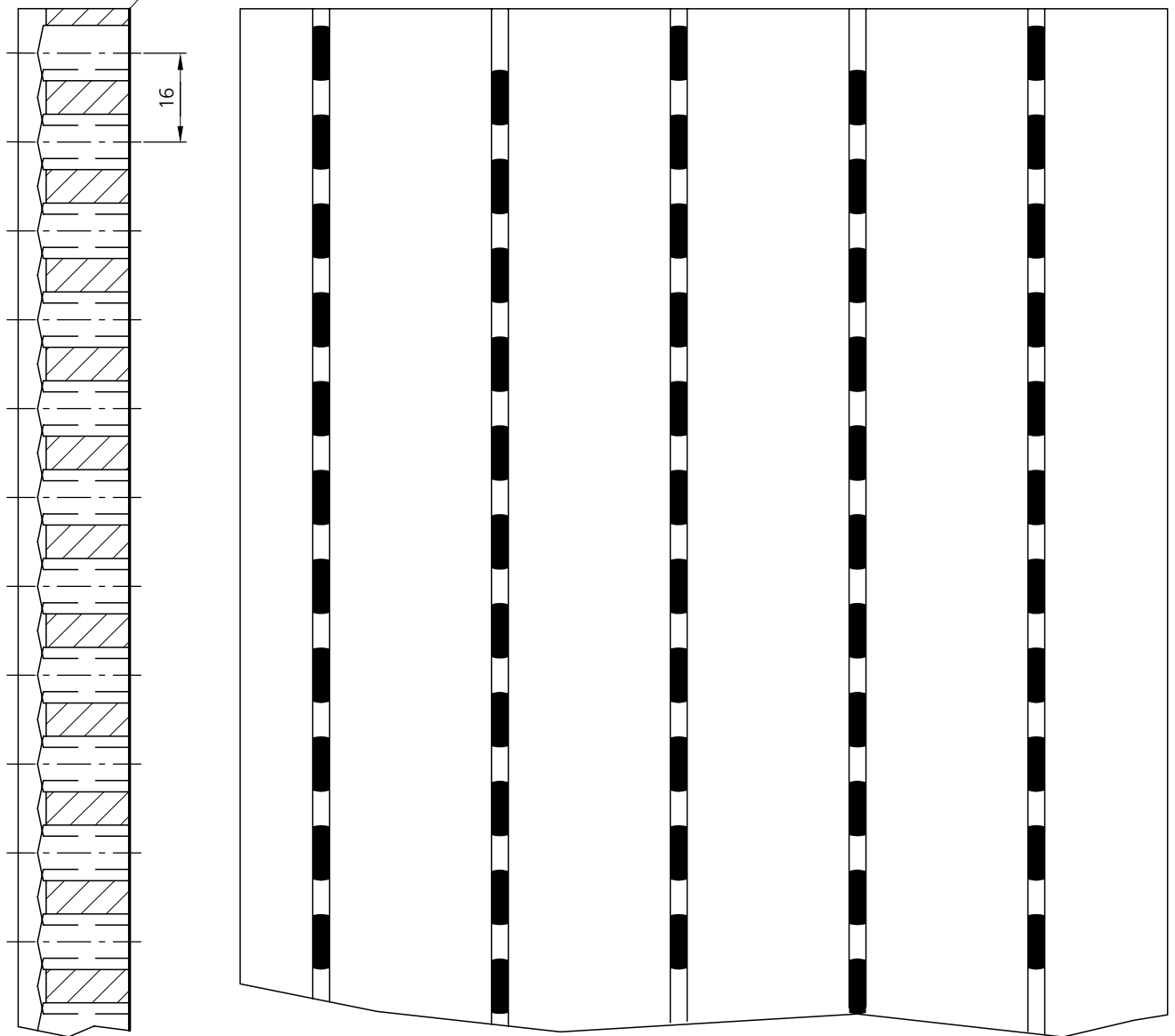
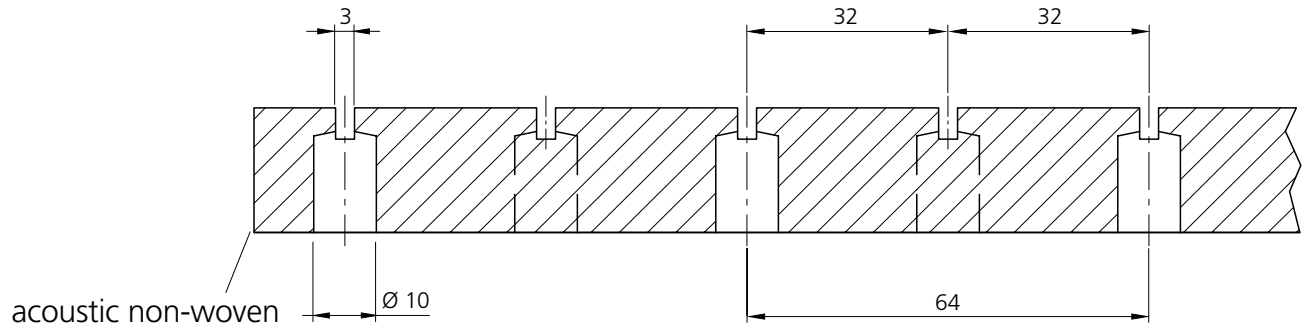
ALPHA-AKUSTIK Groove Face Pattern Typ 32 – 2 BV



proportion of perforated surface 3,9 %

as of May 2019

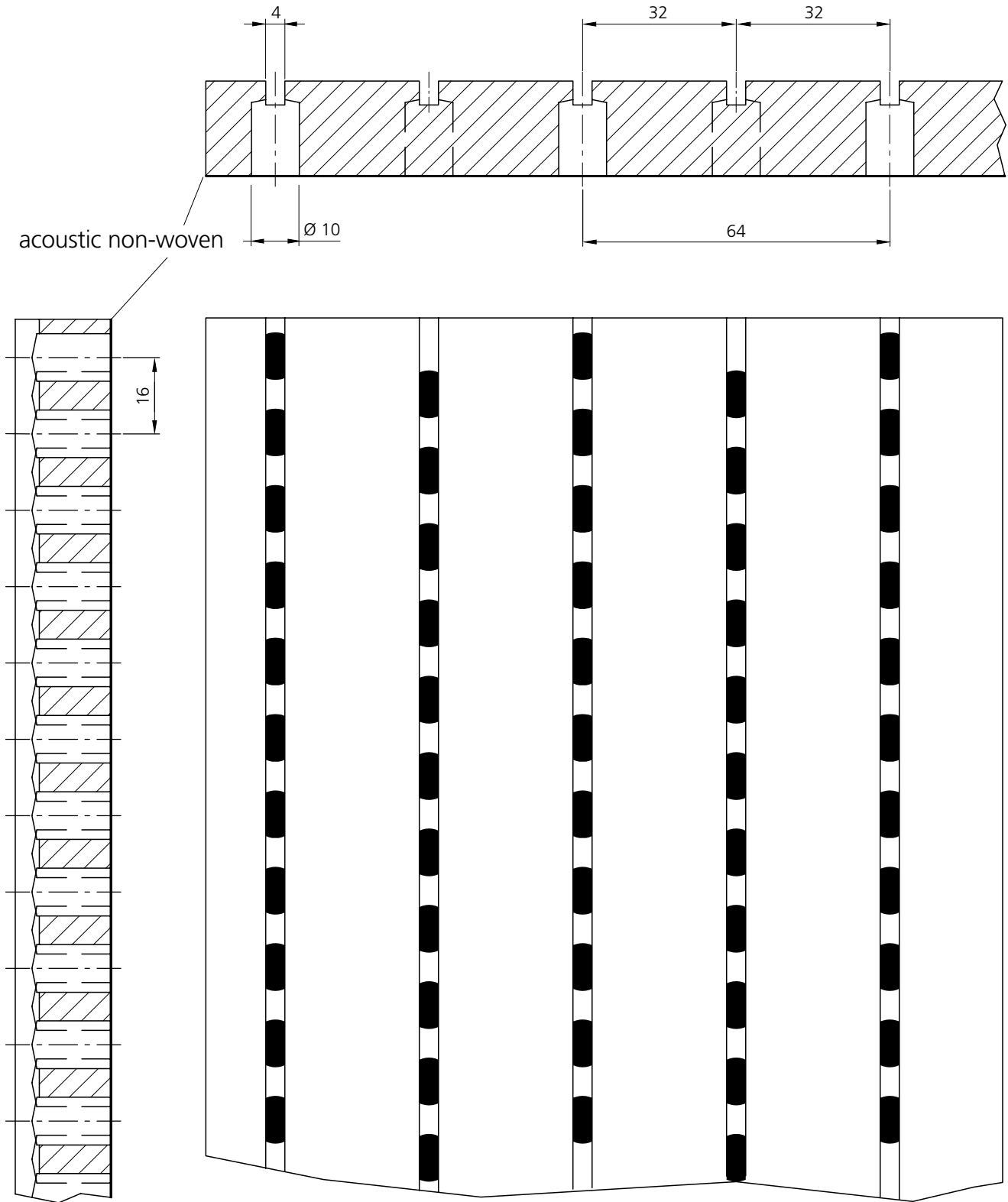
ALPHA-AKUSTIK Groove Face Pattern Type 32 – 3 BV



proportion of perforated surface 5,8 %

as of February 2018

ALPHA-AKUSTIK Groove Face Pattern Type 32 – 4 BV

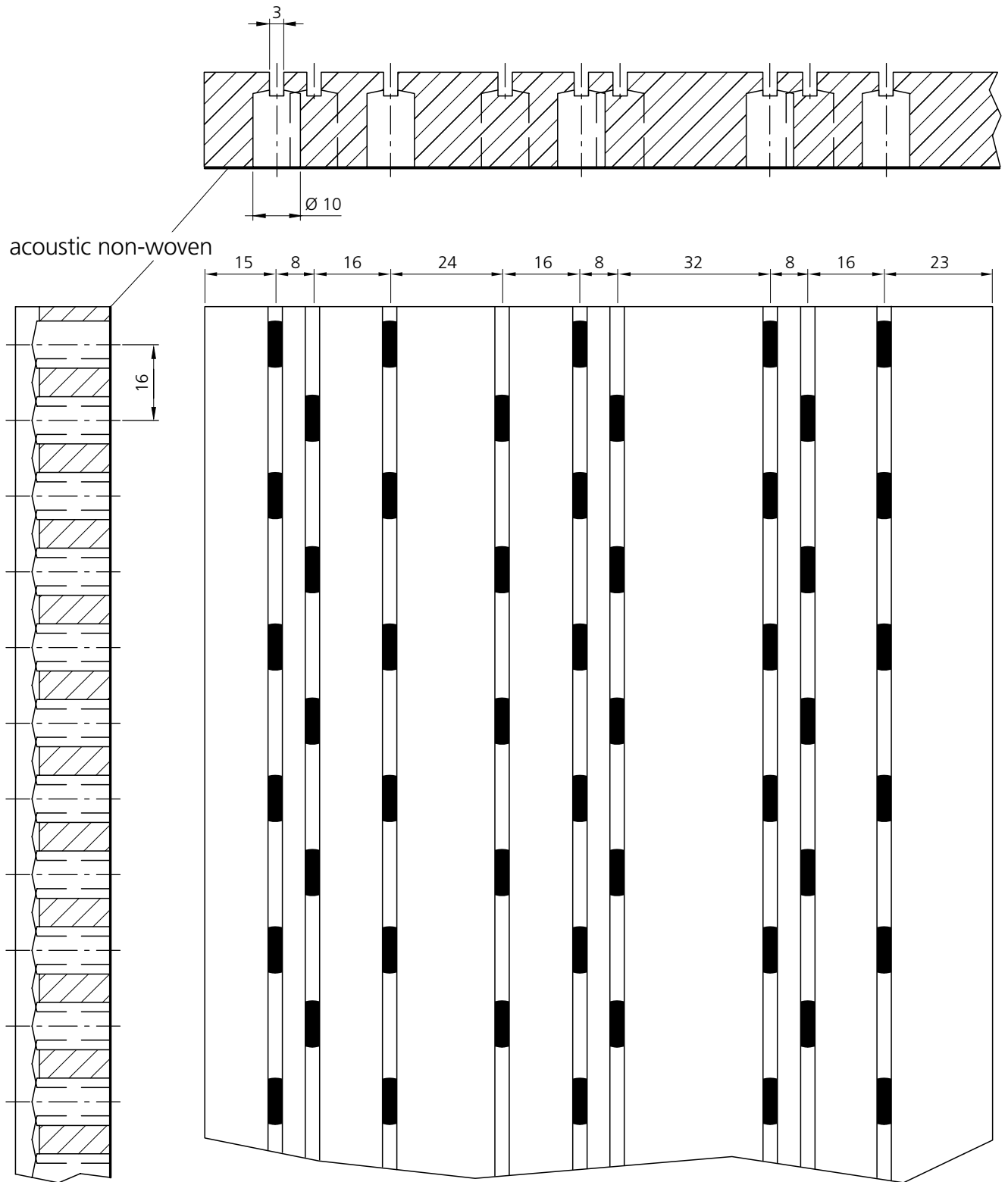


acoustic non-woven

proportion of perforated surface 7,6 %

as of February 2018

ALPHA-AKUSTIK Variable Groove Face Pattern Typ VARI-3 BV

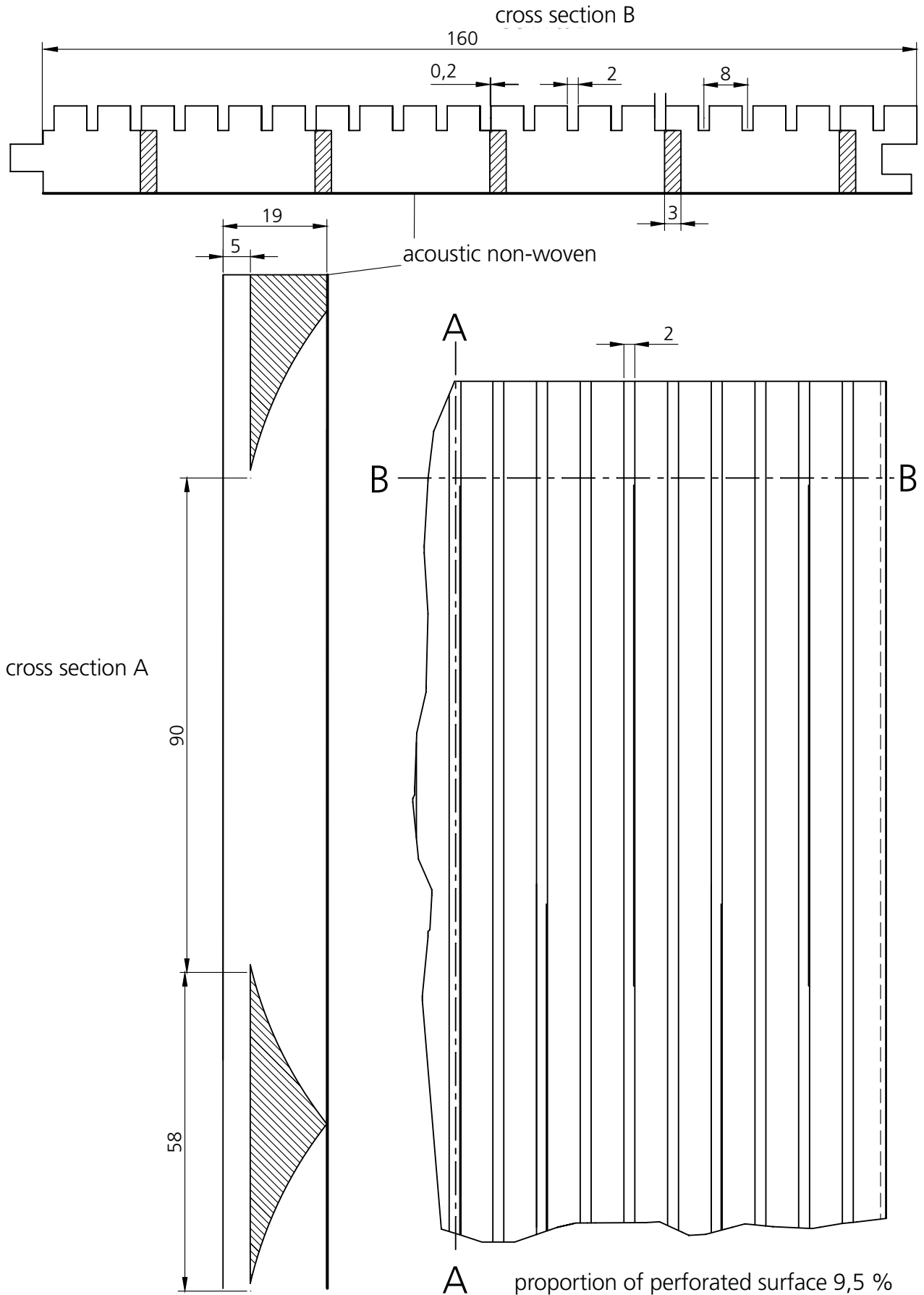


proportion of perforated surface 5,8 %

as of May 2019

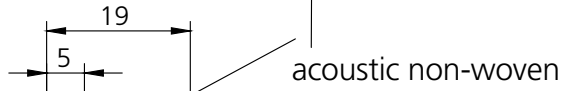
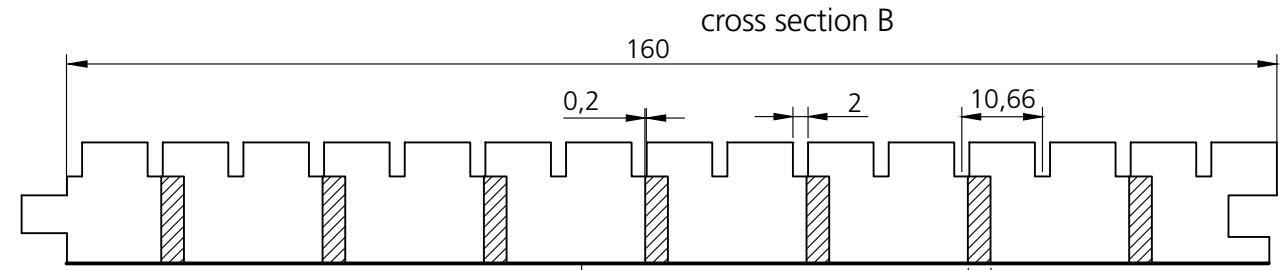
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| New Development Support for Planners and Builders | 1 |
| Instructions for Installation, Technical Data | 2 |
| Information on the Sound Absorption System..... | 3 |
| Detailed Drawings of Hole Face Pattern NANOLITE | 4 |
| Detailed Drawings of Hole 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 |

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Type P 8 – 2 G

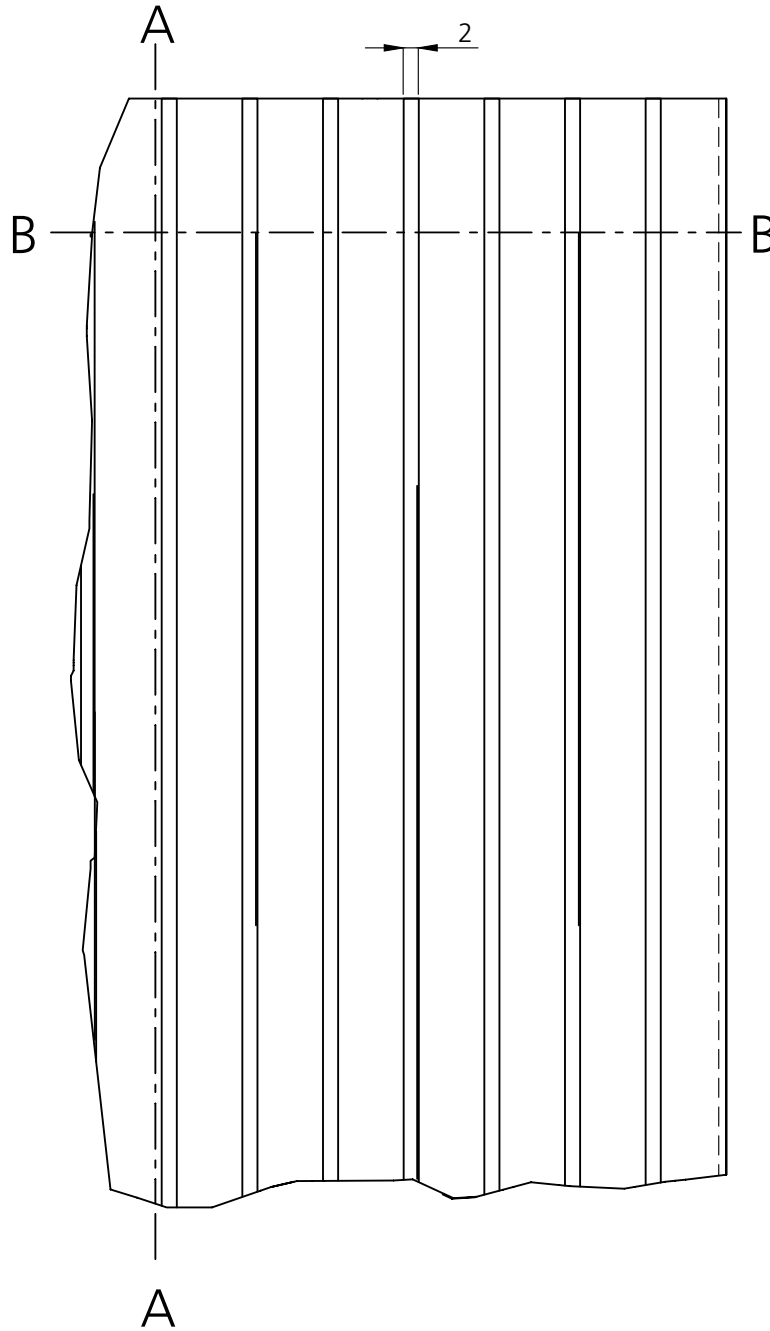
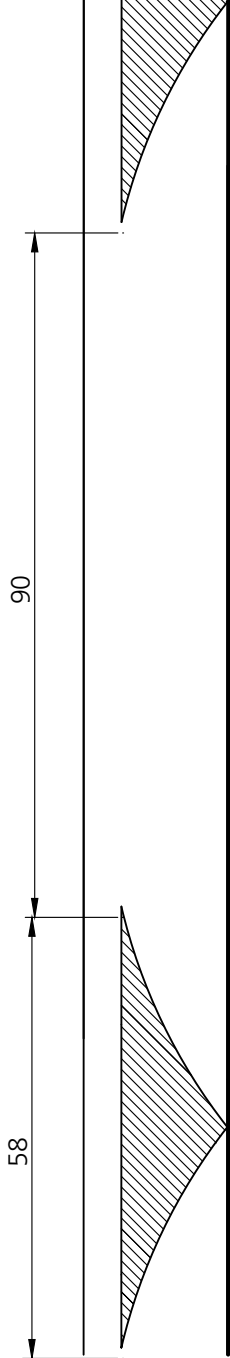


as of February 2018

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Type P 10,66 – 2 G



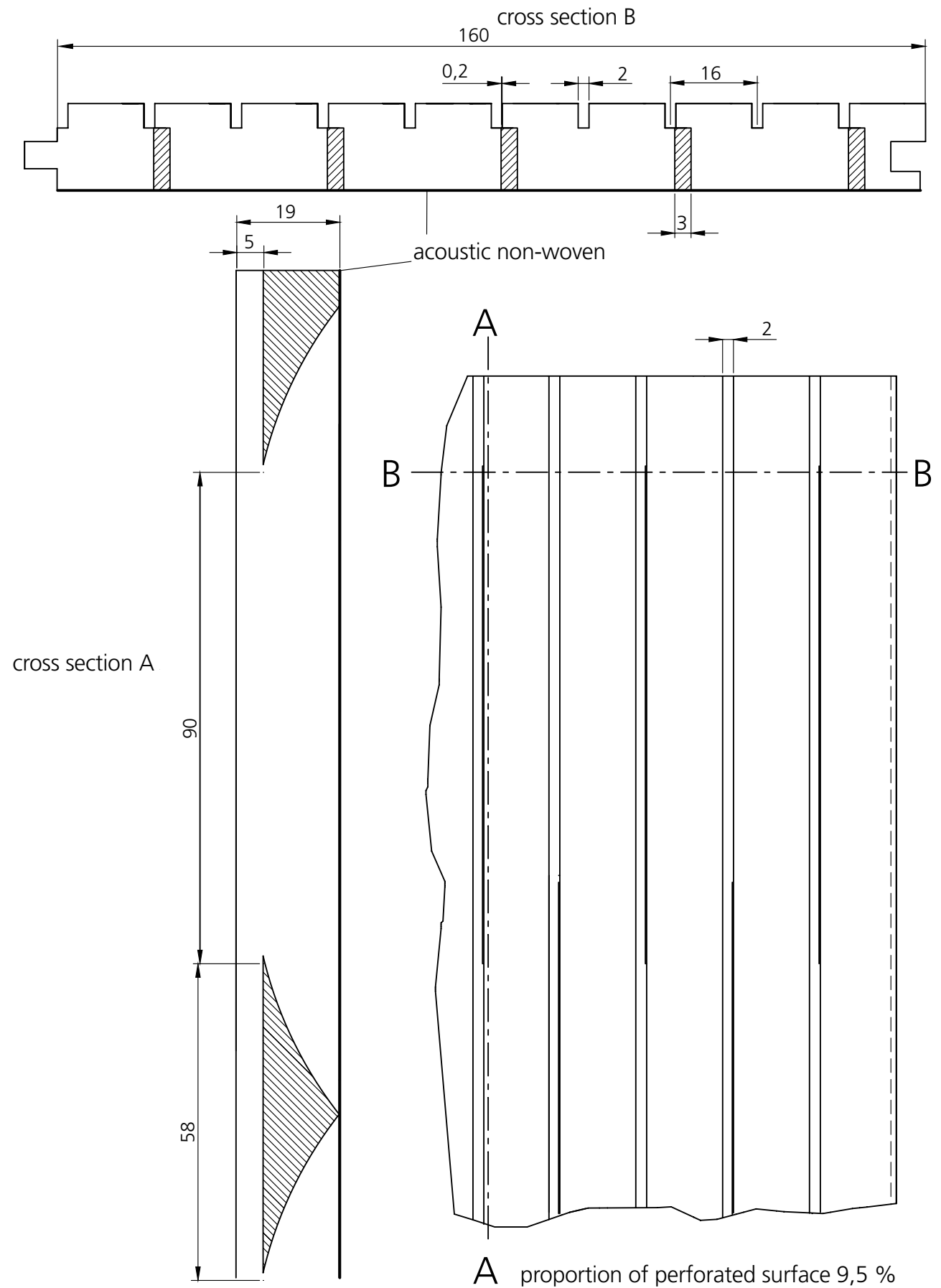
cross section A



proportion of perforated surface 14,3 %

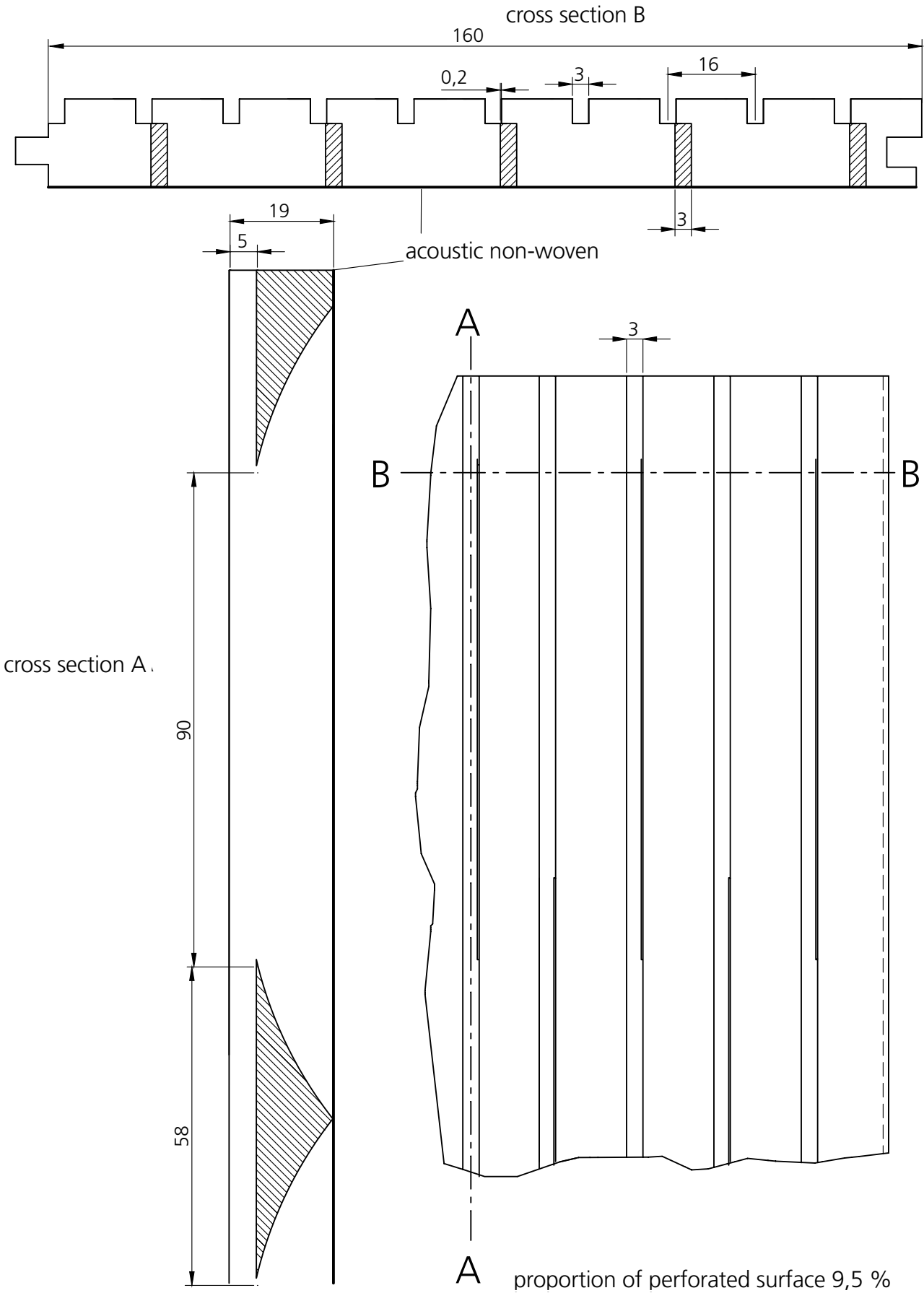
as of February 2018

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Type P 16 – 2 G



as of February 2018

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Type P 16 – 3 G



as of February 2018

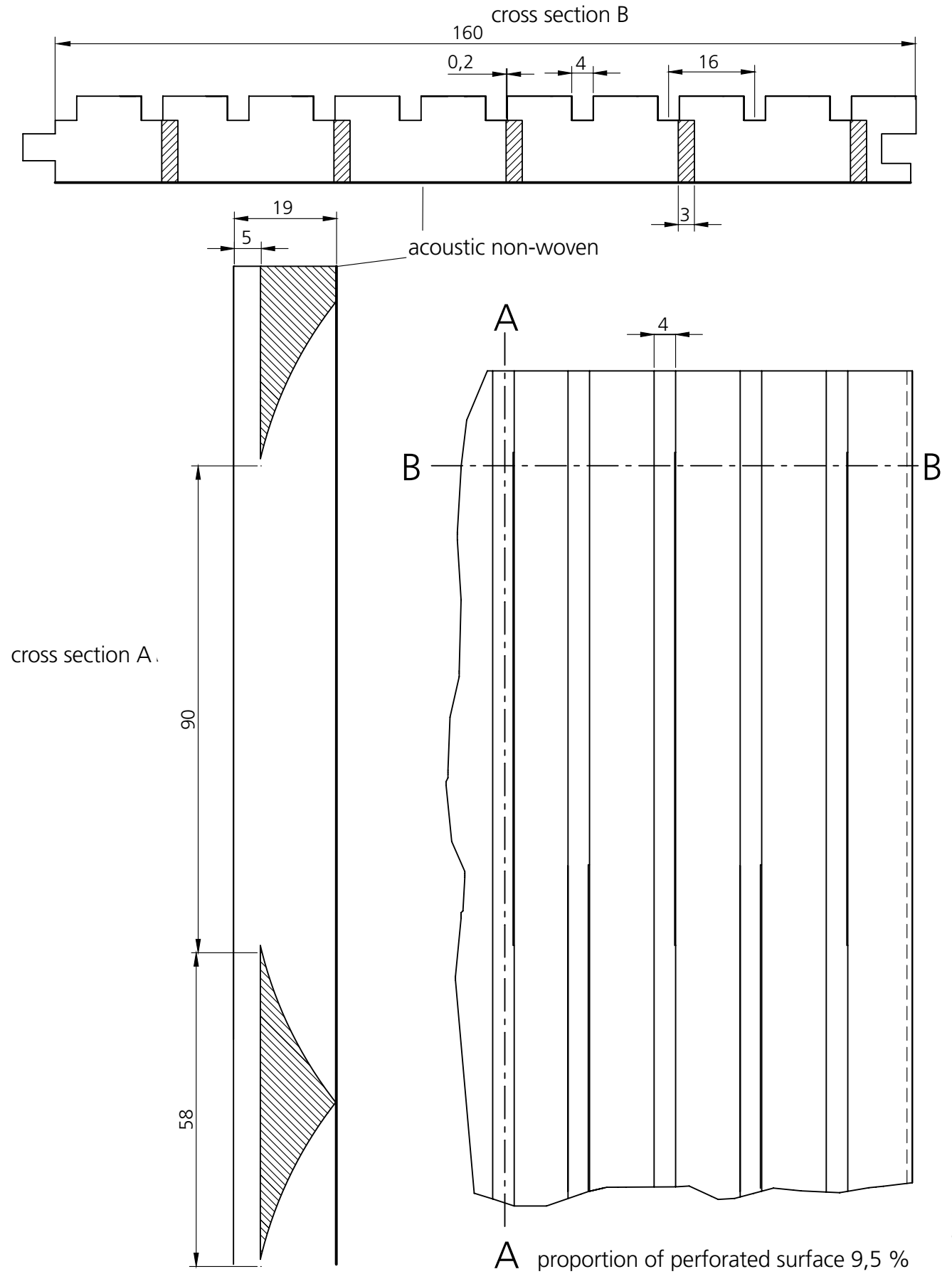


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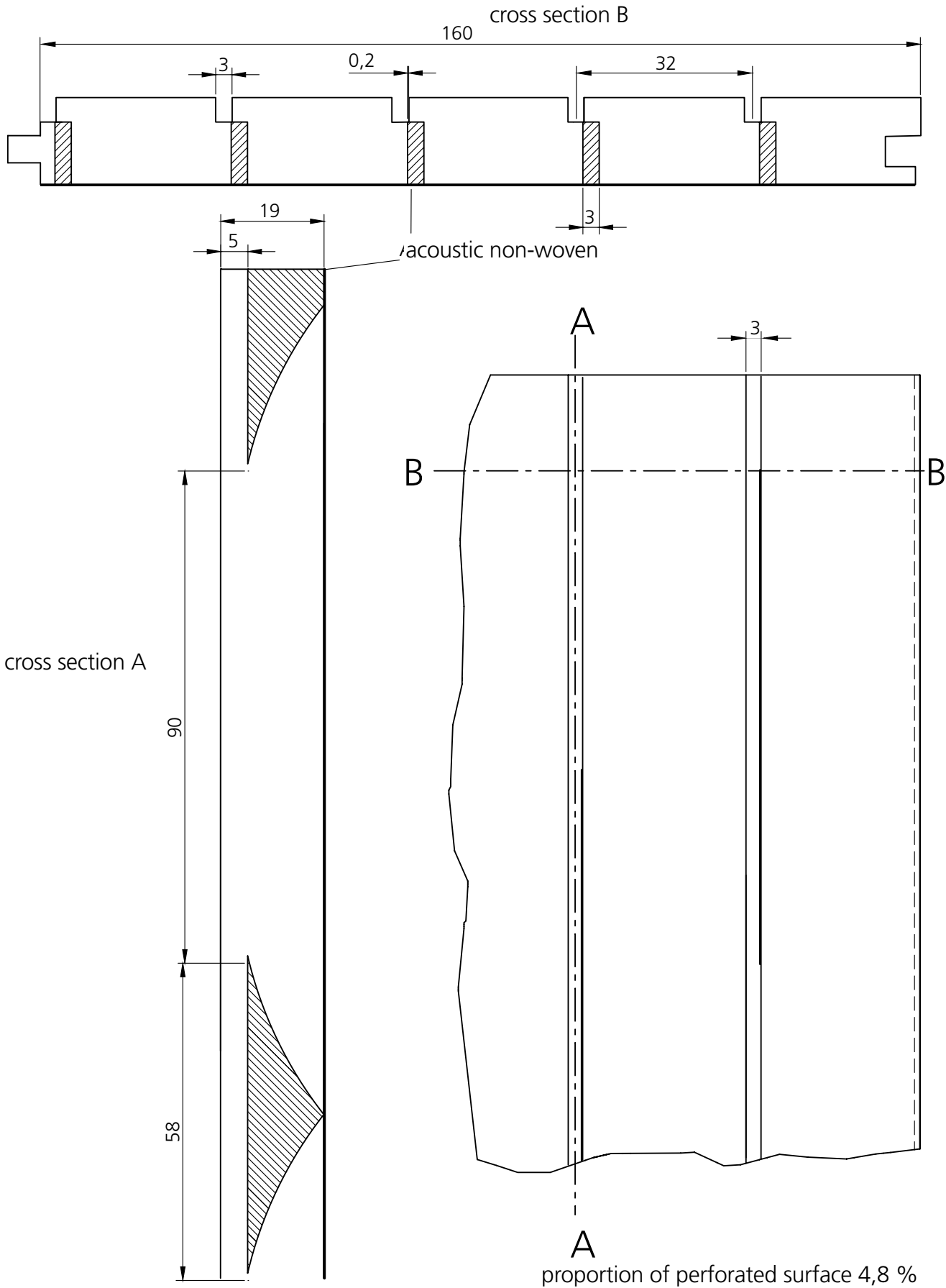
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ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Type P 16 – 4 G



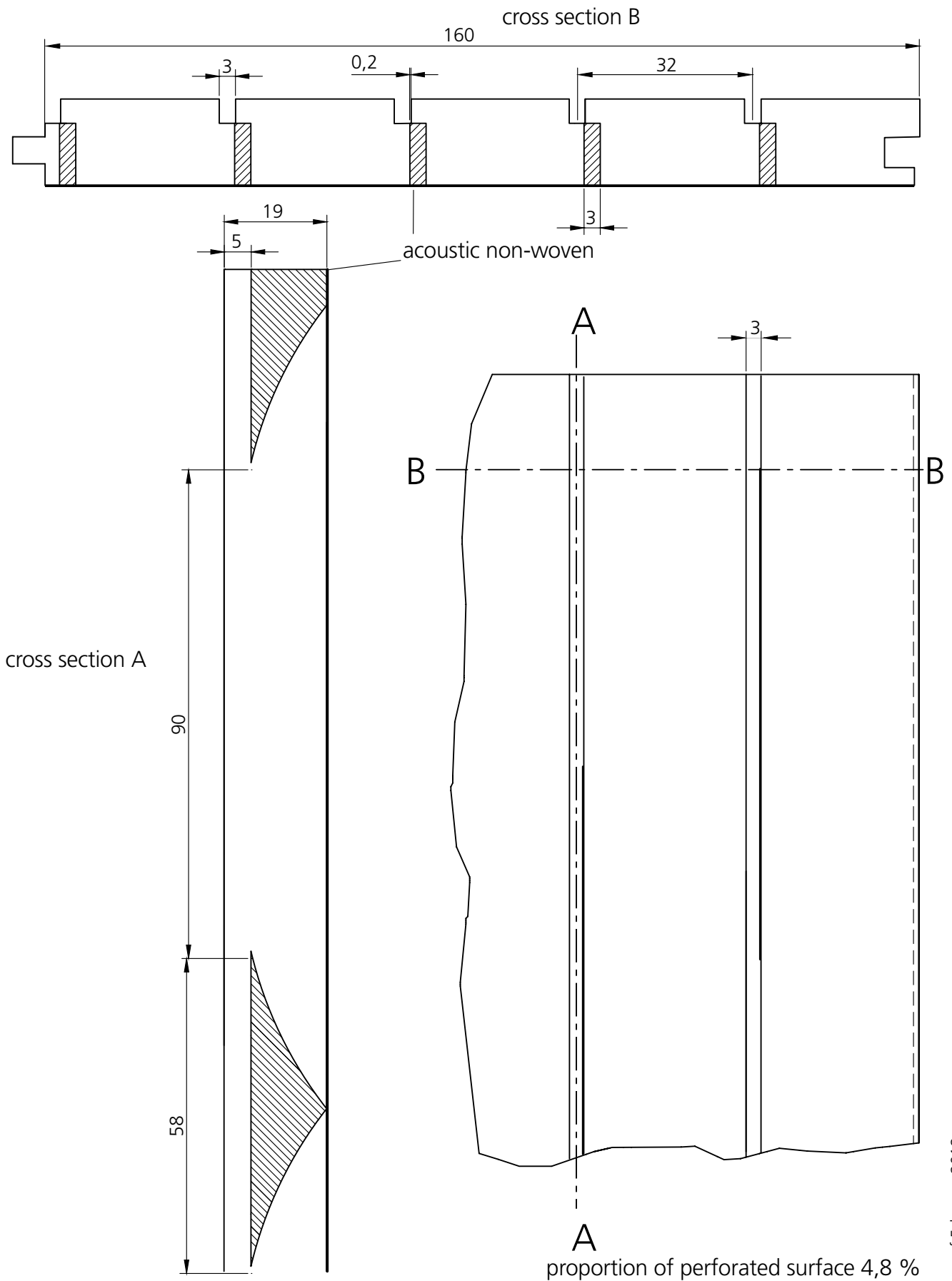
as of February 2018

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Typ P 32 – 2 G



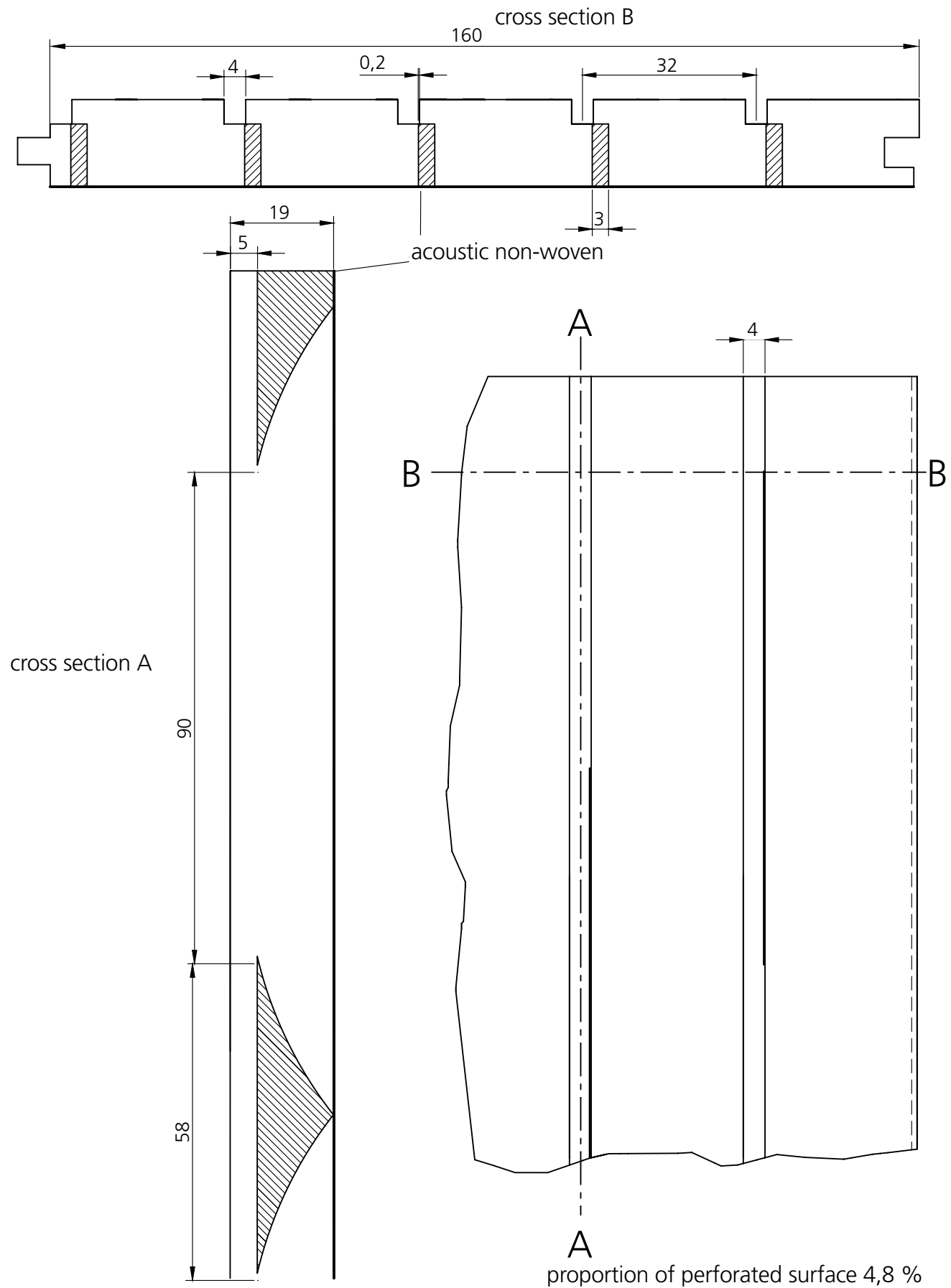
as of May 2019

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Type P 32 – 3 G



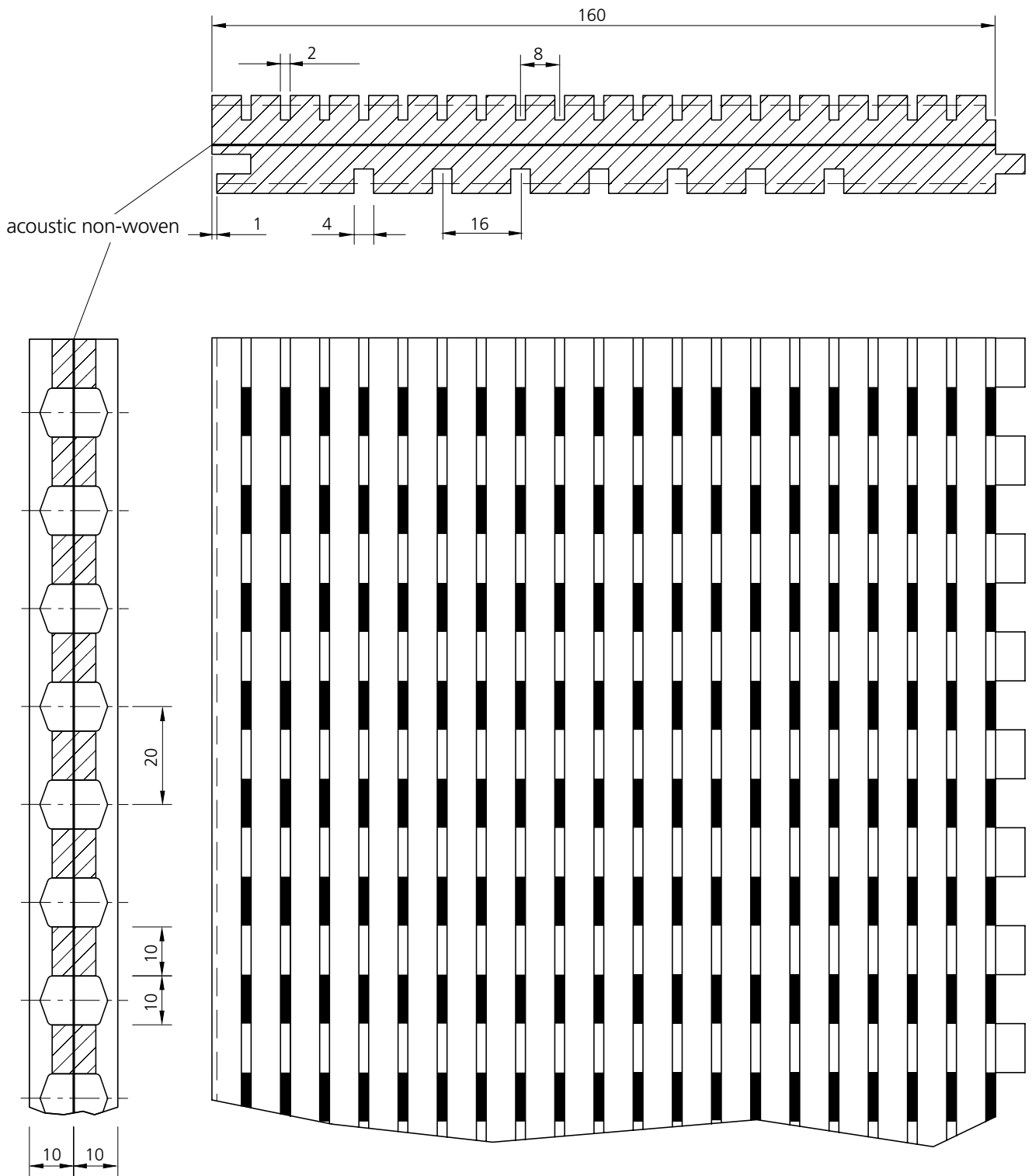
as of February 2018

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel Type P 32 – 4 G



as of February 2018

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 20/N10 – 8 – 2



proportion of perforated surface 12,5 %

as of February 2018

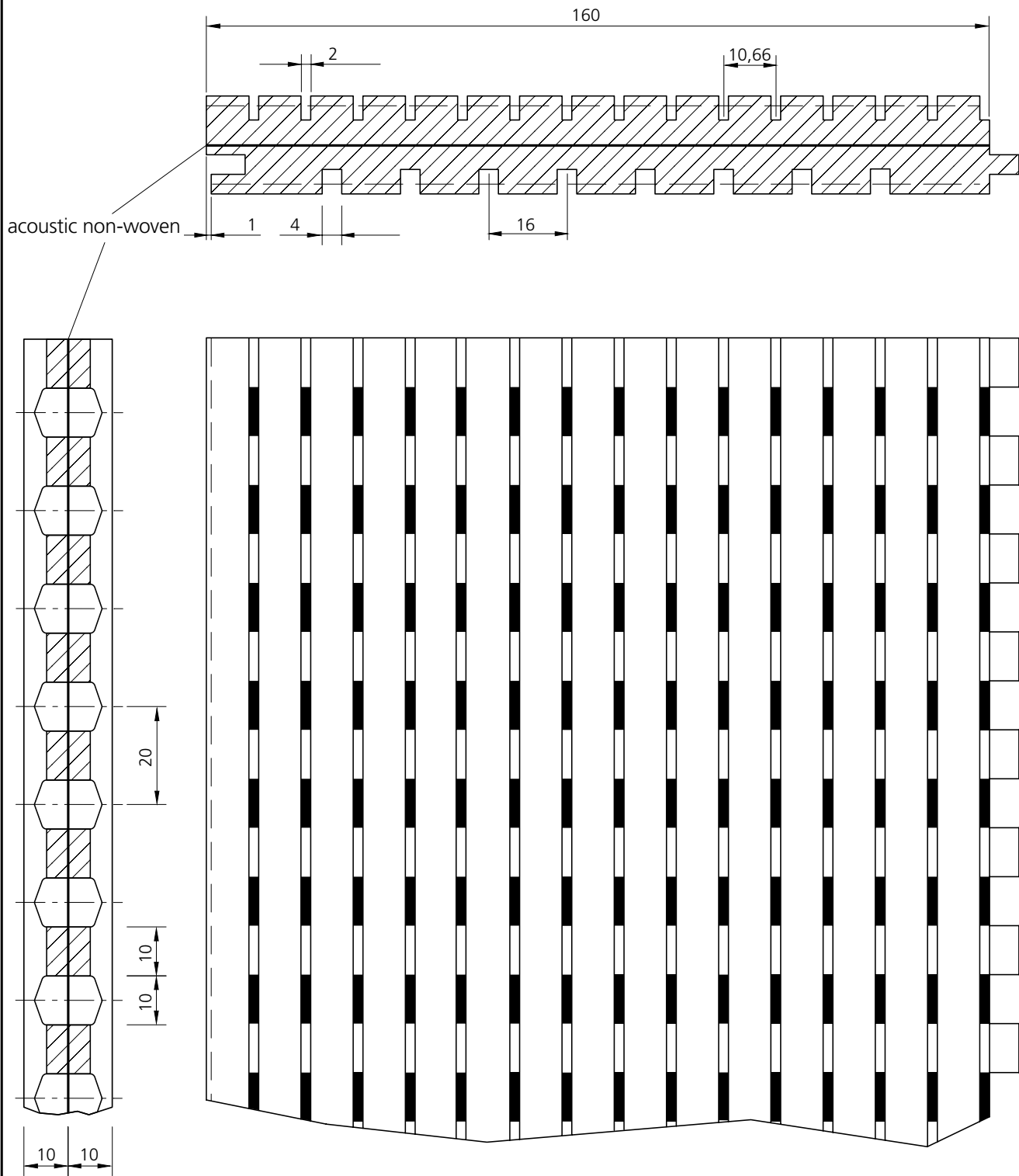


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proportion of perforated surface 9,4 %

as of February 2018

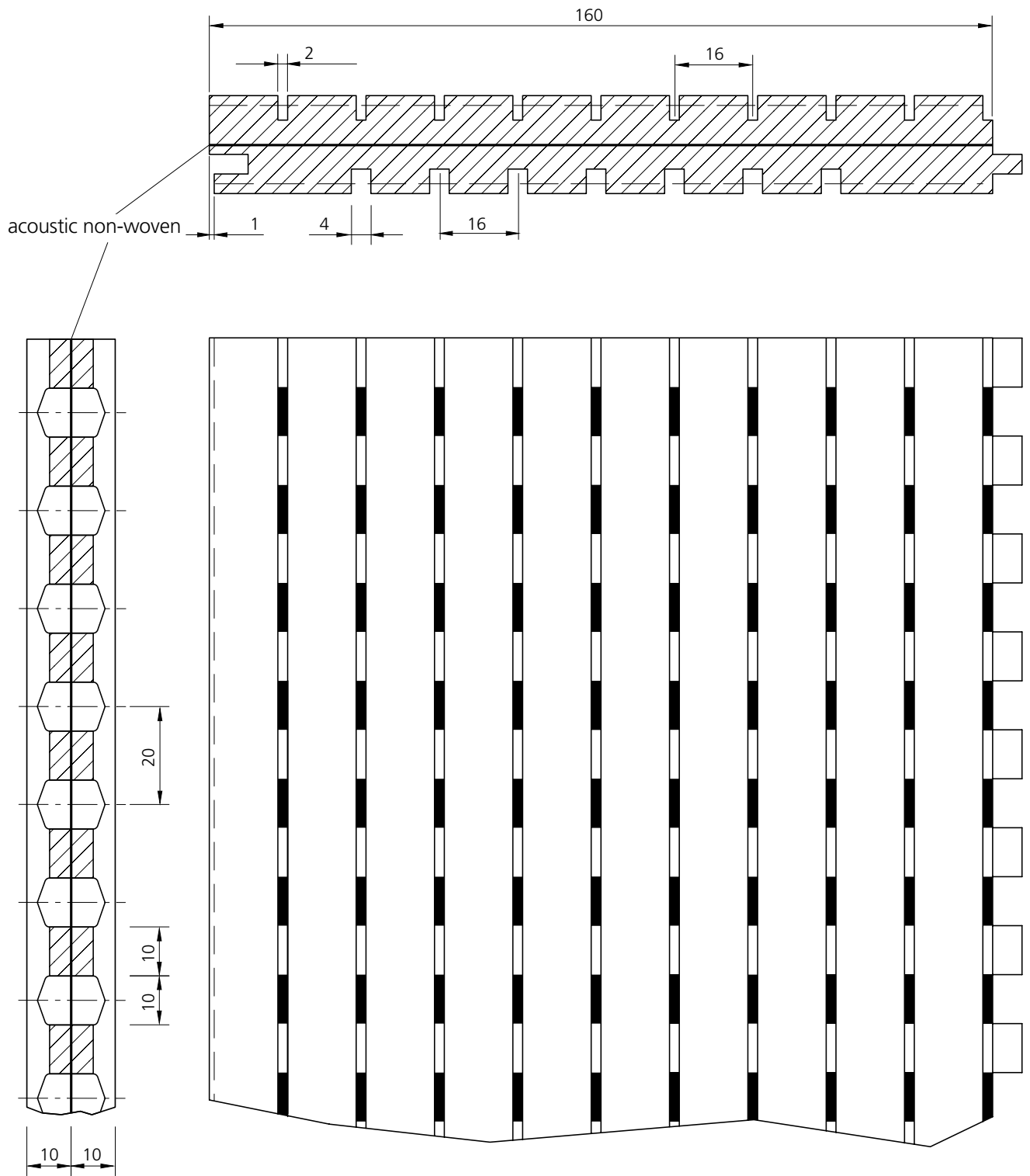


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ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 20/N10 – 16 – 2



proportion of perforated surface 6,2 %

as of February 2018

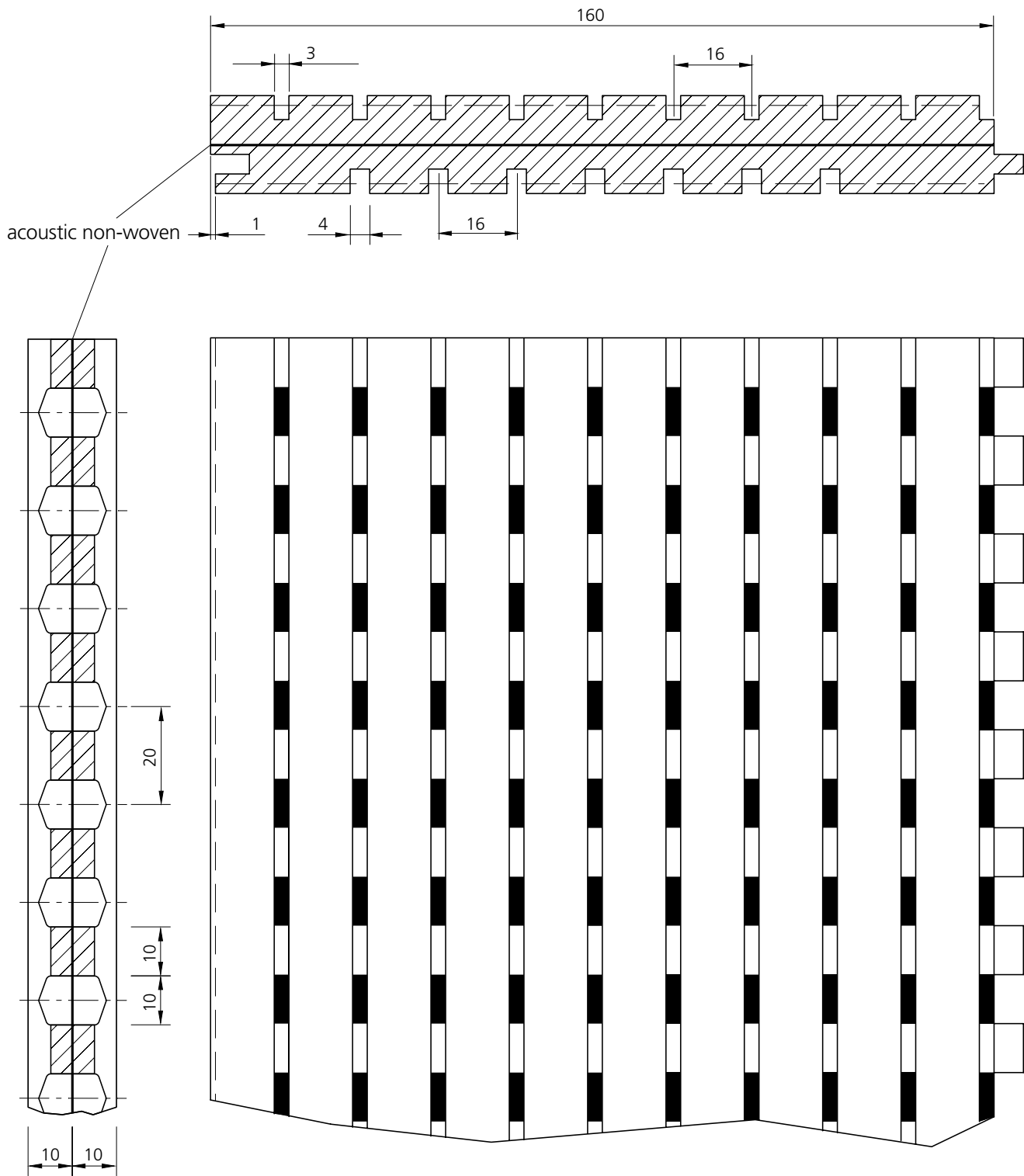


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ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 20/N10 – 16 – 3



proportion of perforated surface 9,3 %

as of February 2018

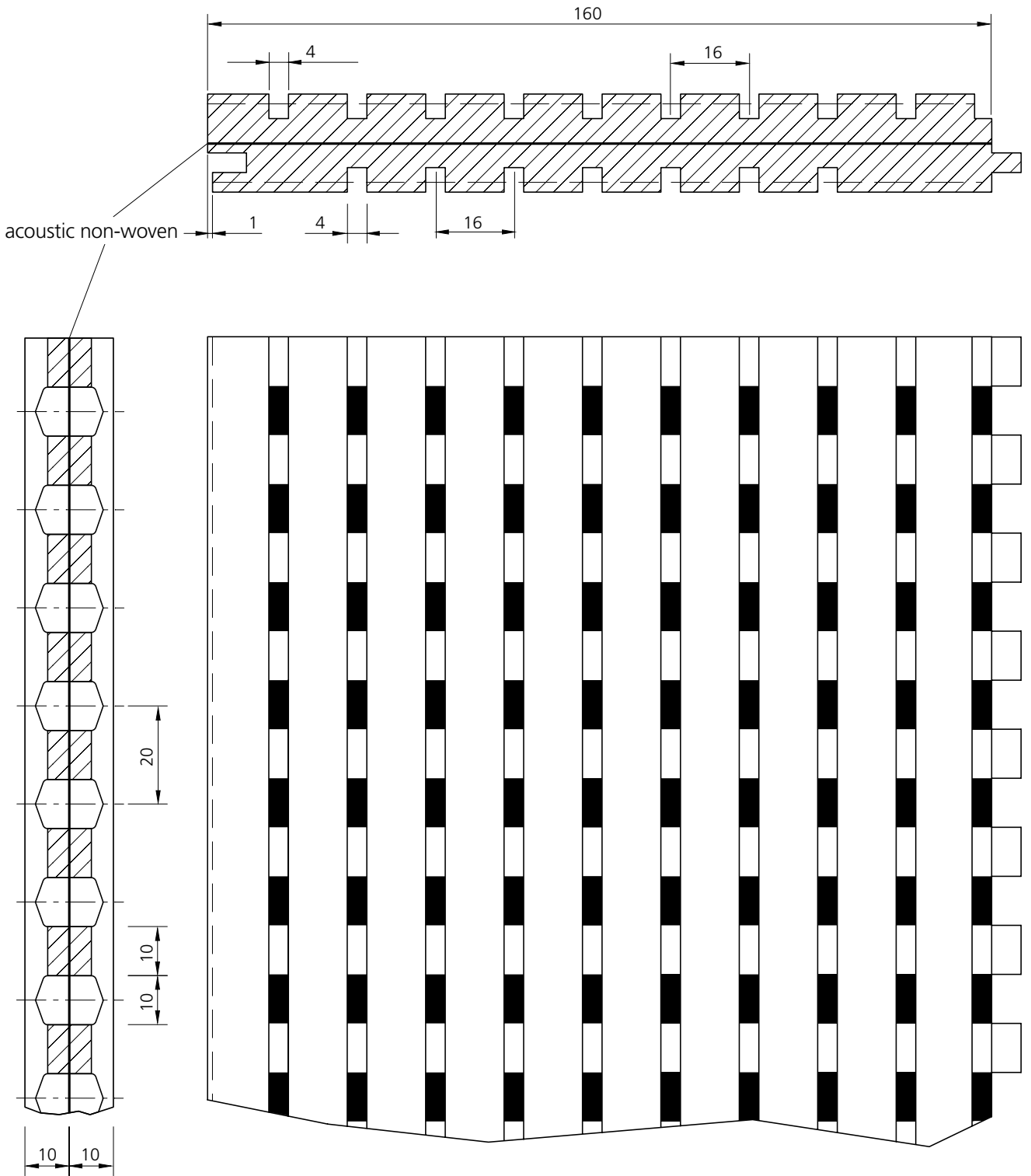


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proportion of perforated surface 12,5 %

as of February 2018

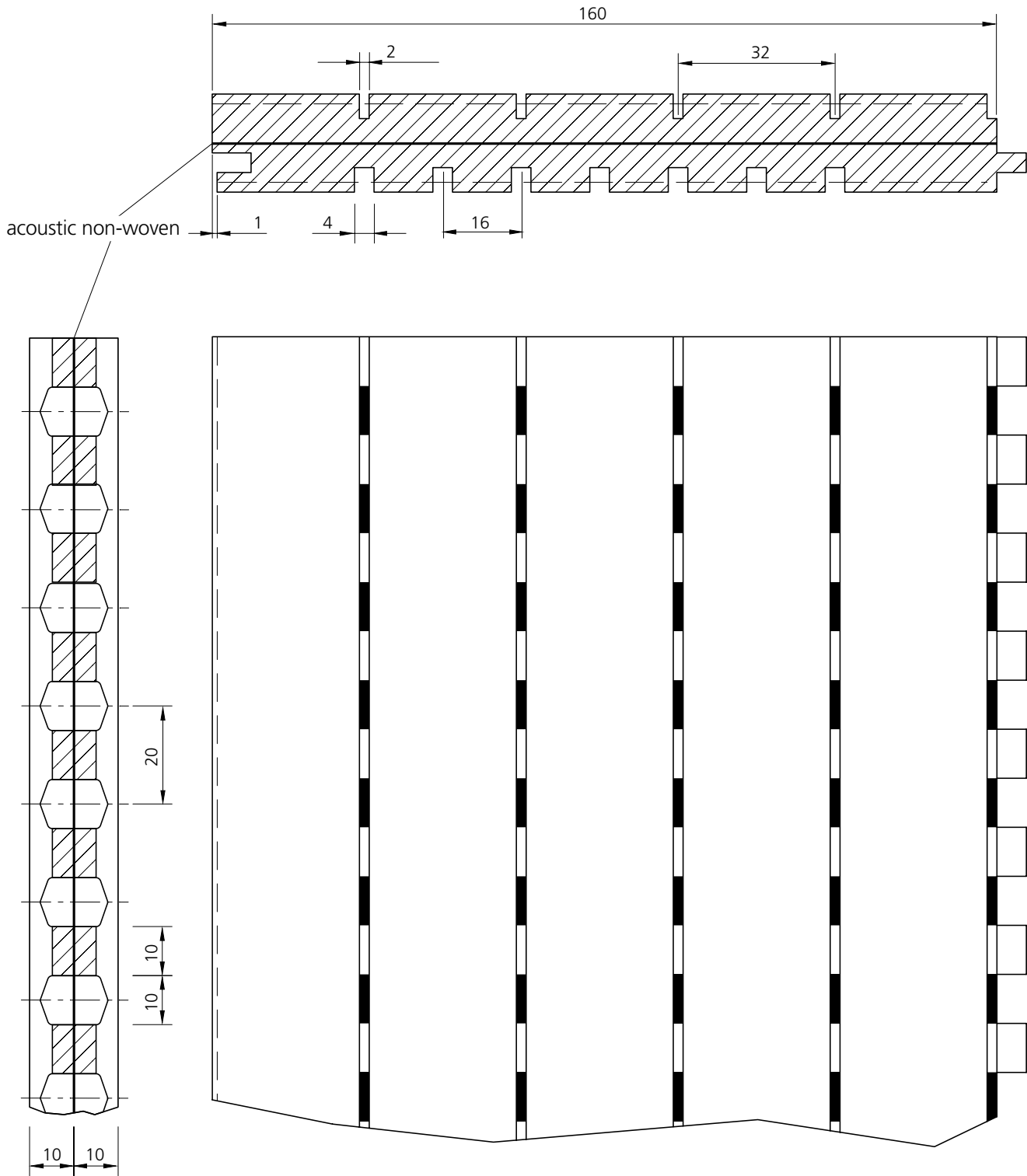


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proportion of perforated surface 3,1 %

as of February 2018

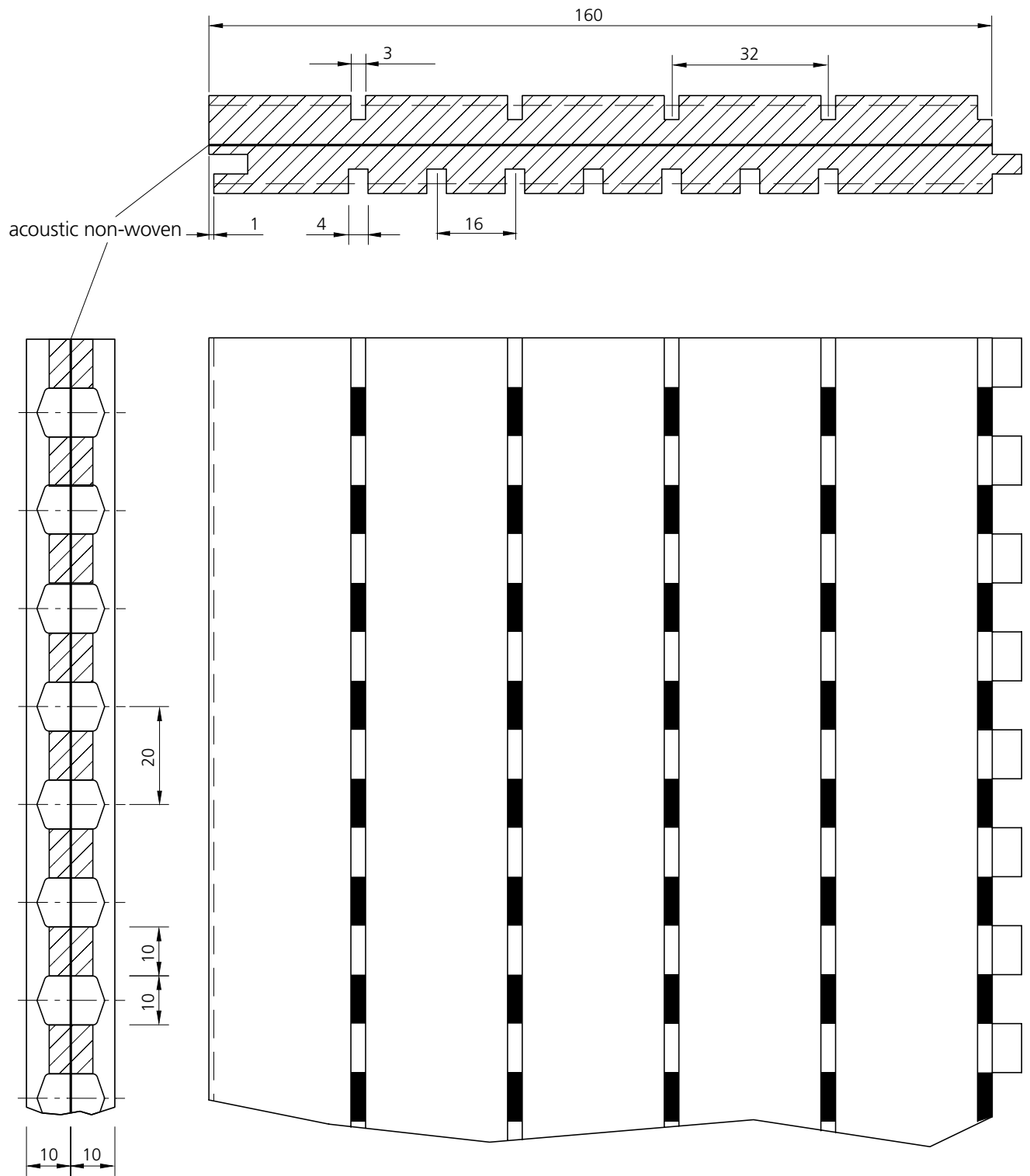


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Staudigel GmbH
Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0)9 31 9 70 54-0
Fax +49 (0)9 31 9 70 54-54
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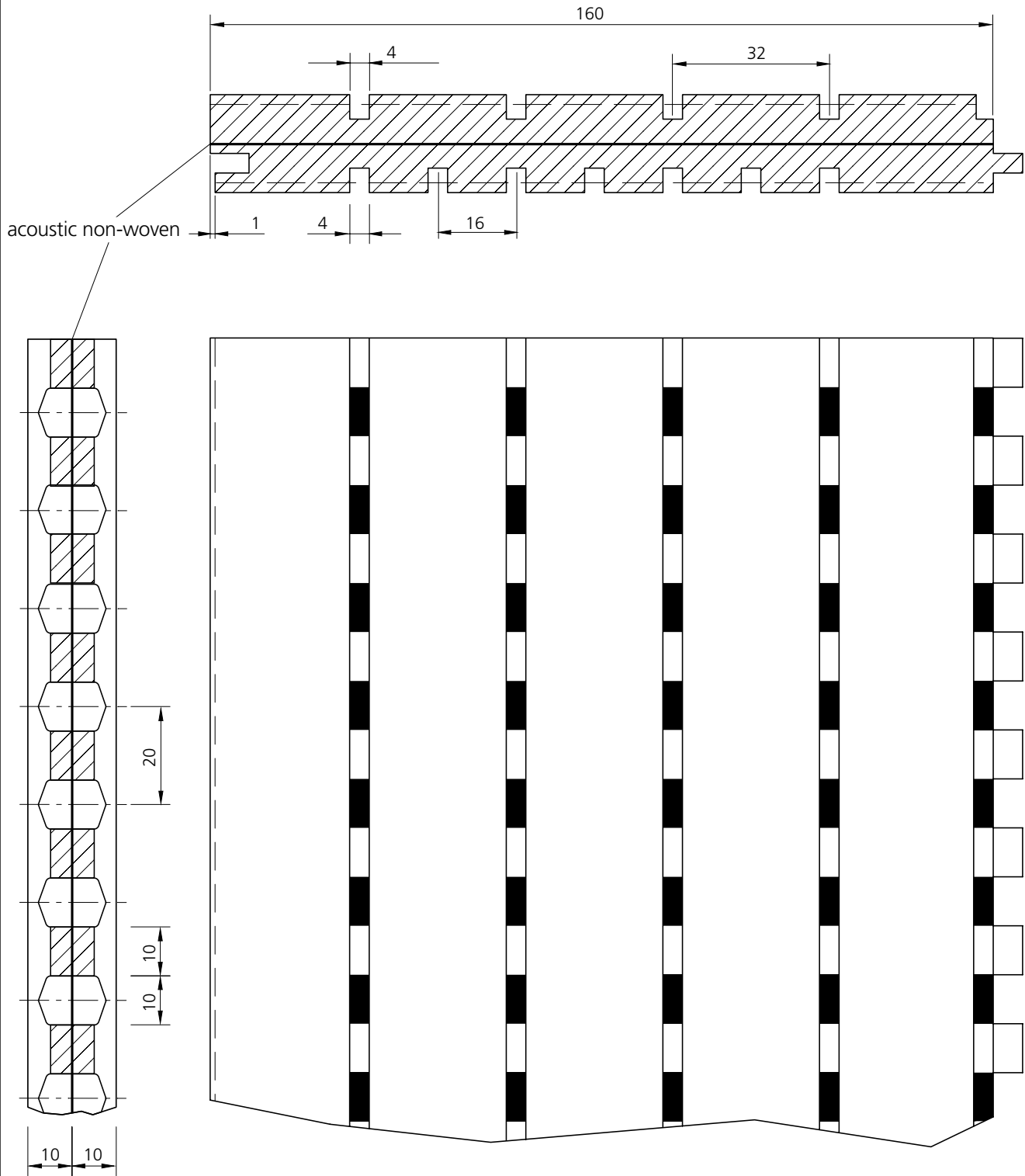
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ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 20/N10 – 32 – 3



as of February 2018

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



proportion of perforated surface 6,2 %

as of February 2018

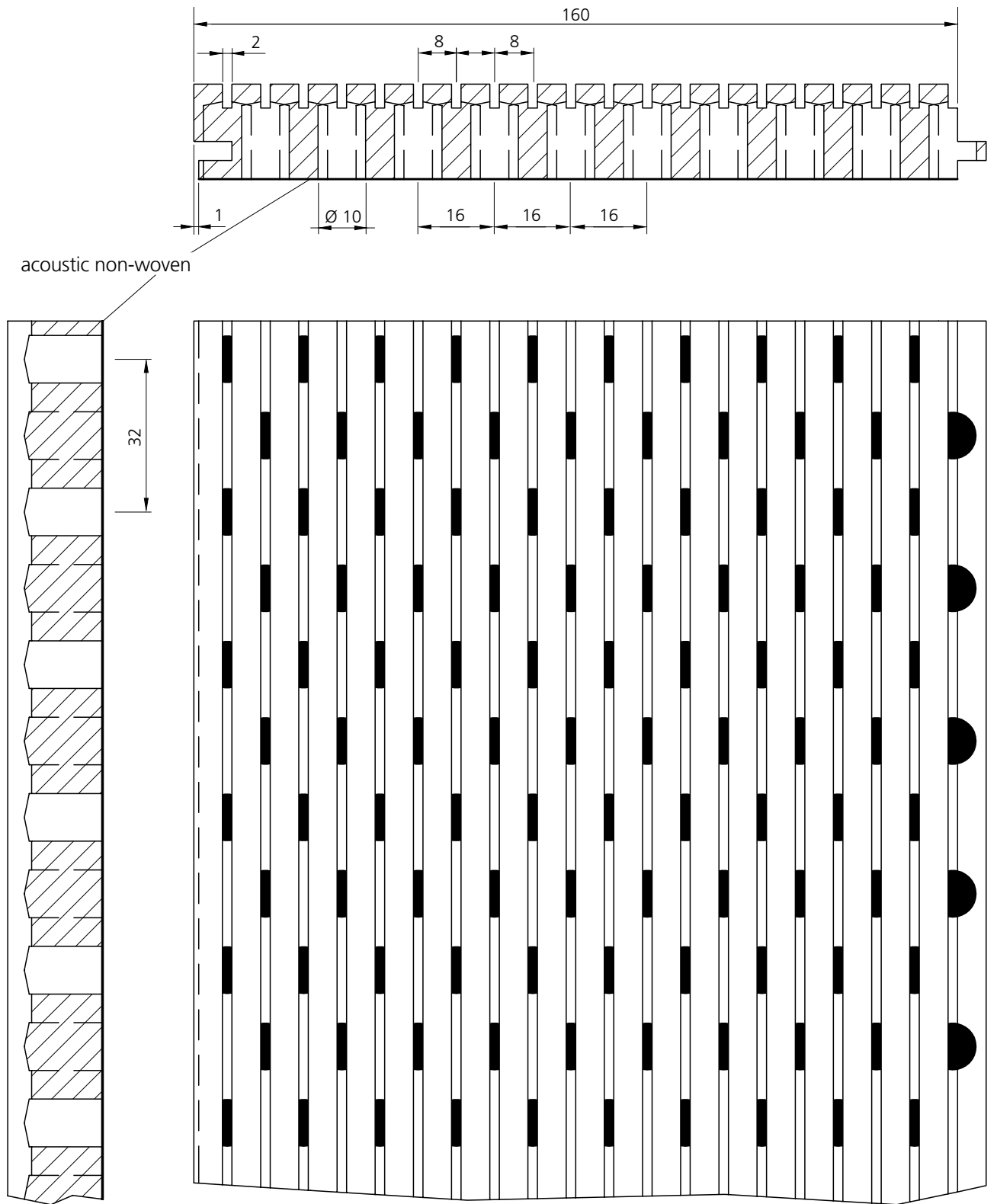


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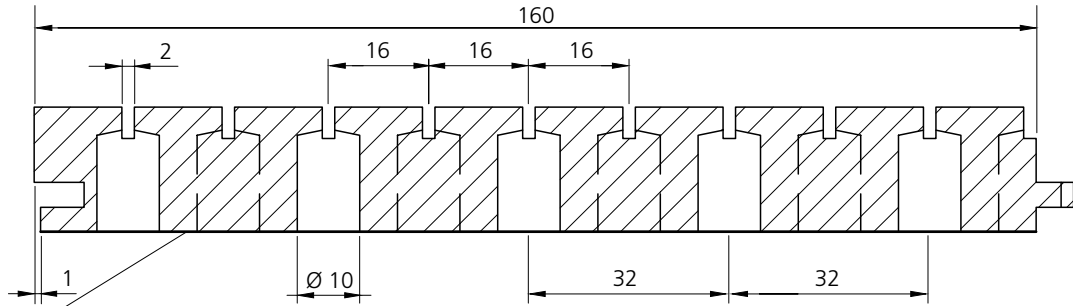
ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 8 – 2 BV



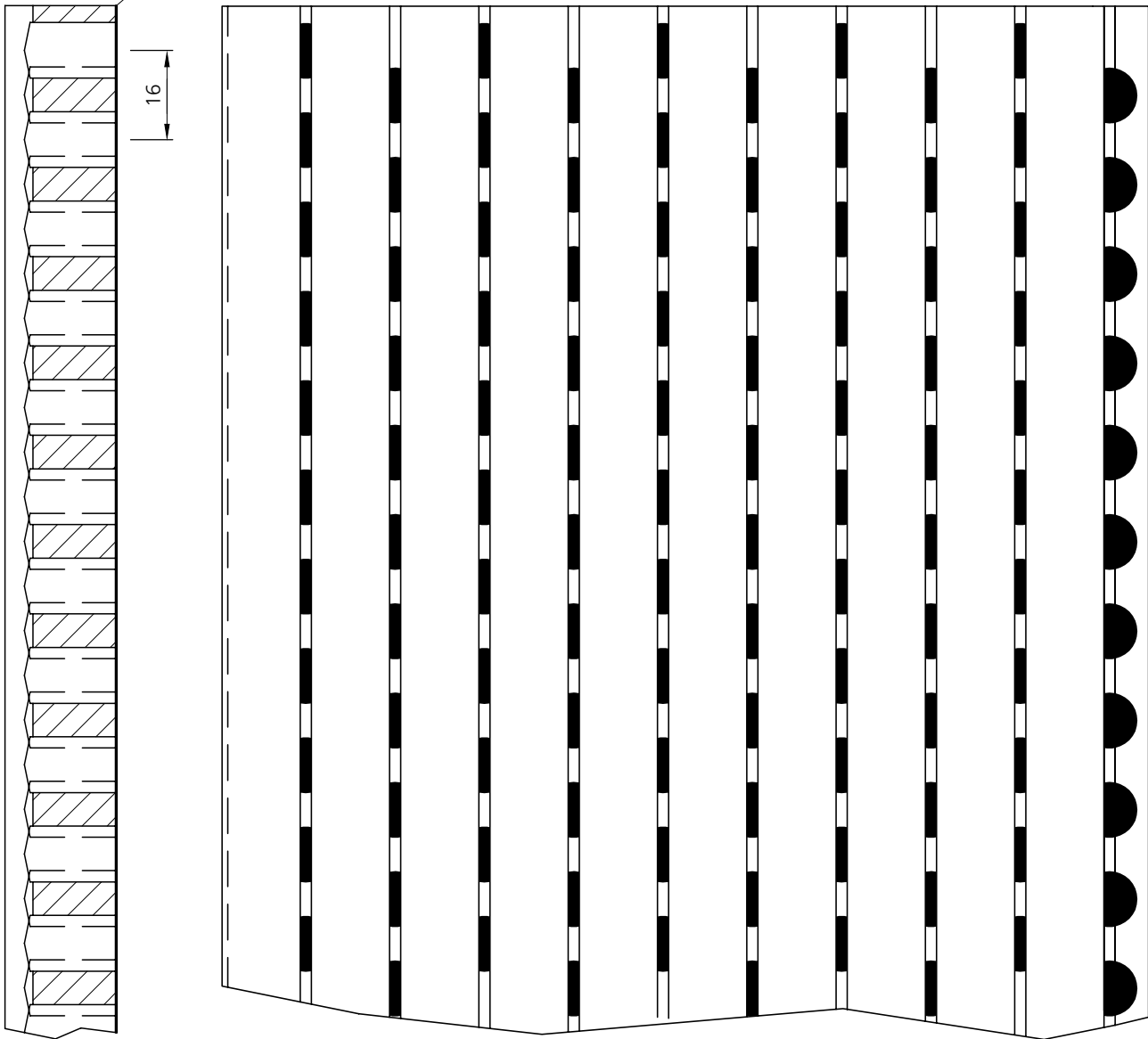
proportion of perforated surface 7,7 %

as of February 2018

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 16 – 2 BV



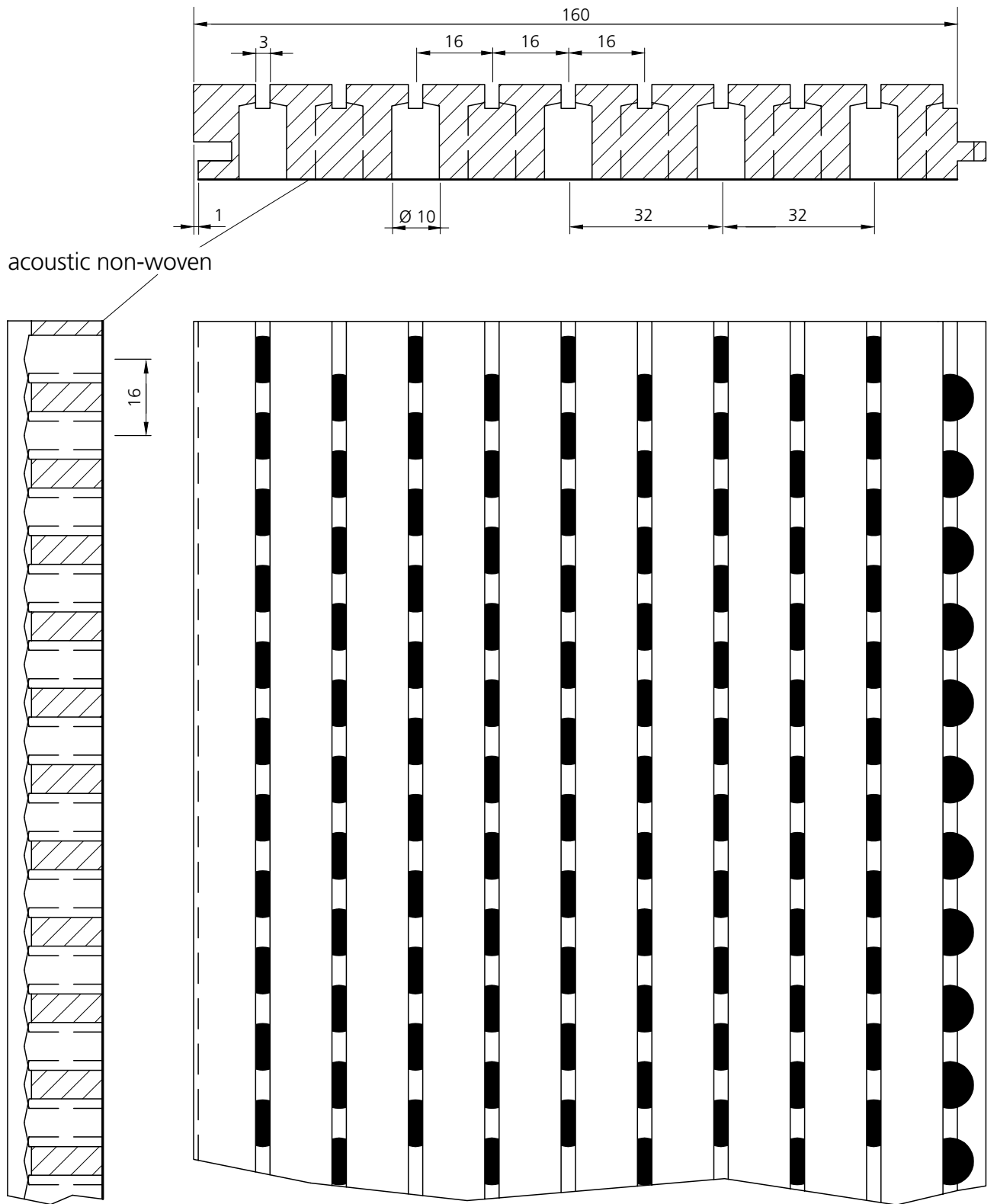
acoustic non-woven



proportion of perforated surface 7,7 %

as of February 2018

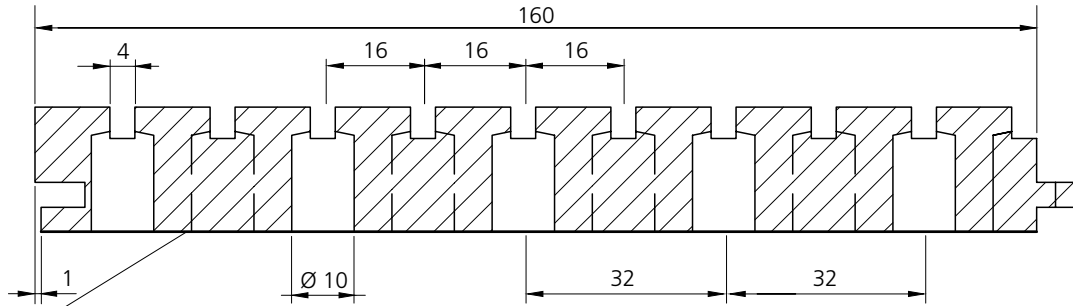
ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 16 – 3 BV



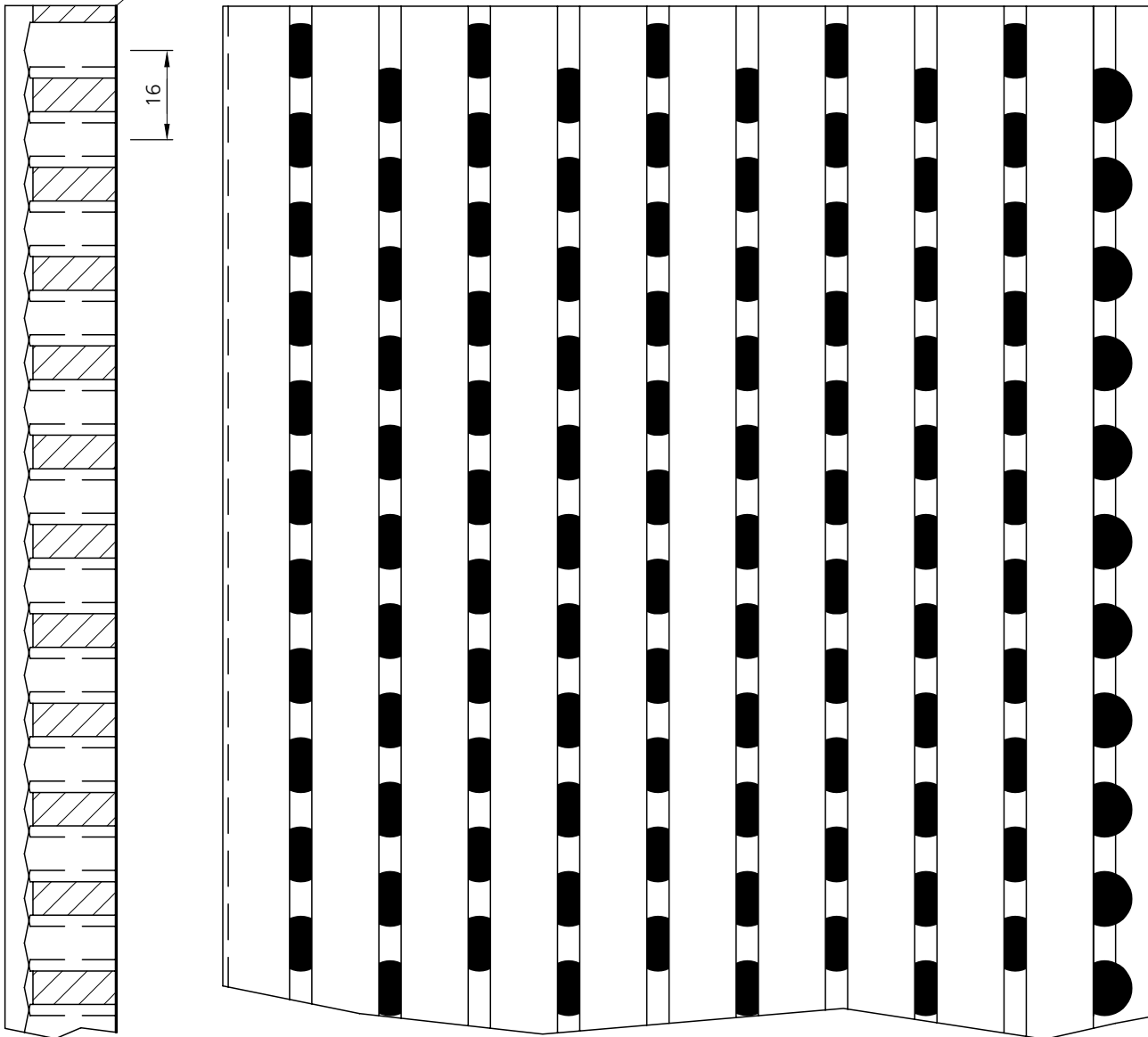
proportion of perforated surface 11,5 %

as of February 2018

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 16 – 4 BV



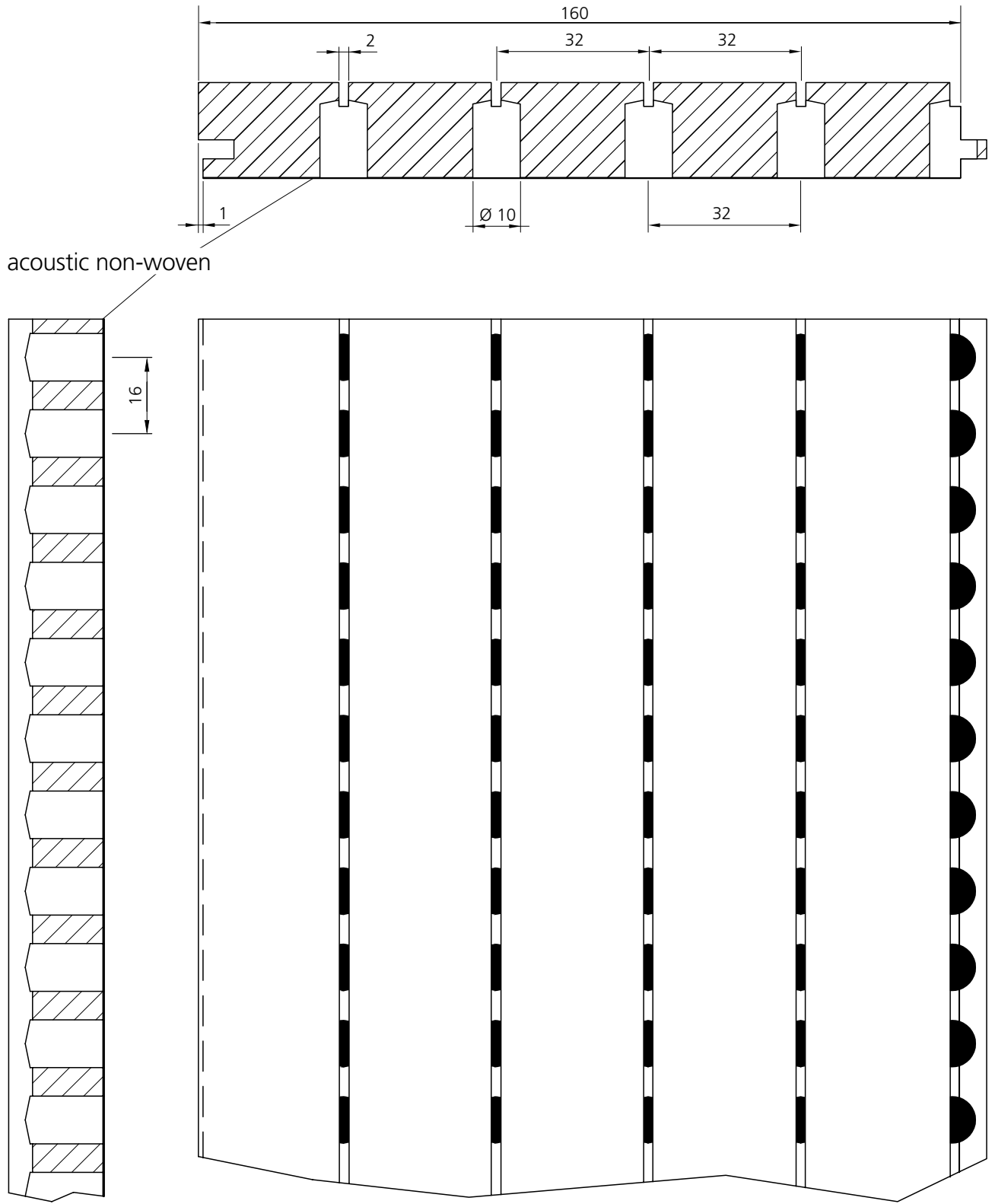
acoustic non-woven



proportion of perforated surface 15,2 %

as of February 2018

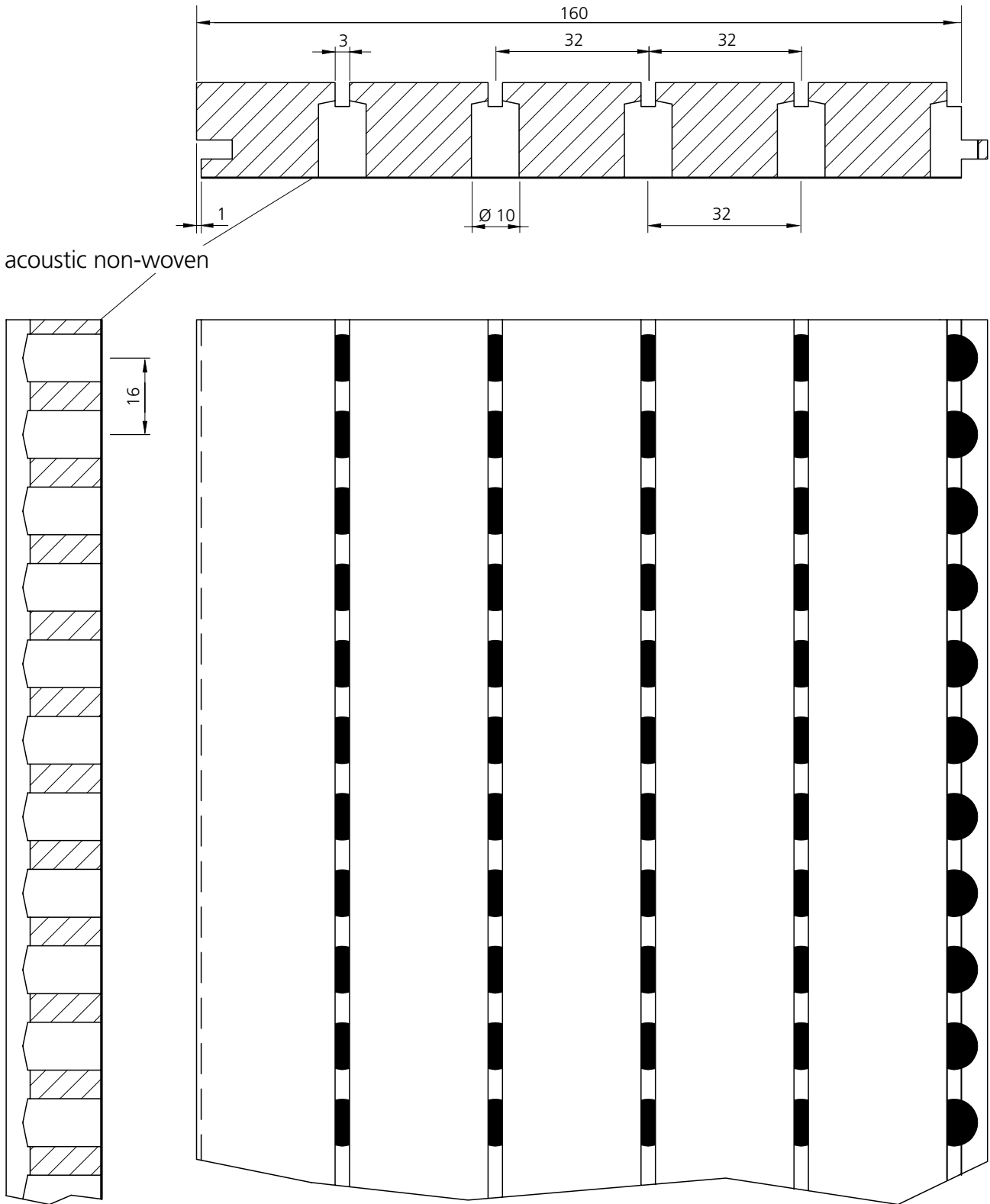
ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 32 – 2 B



proportion of perforated surface 7,6 %

as of May 2019

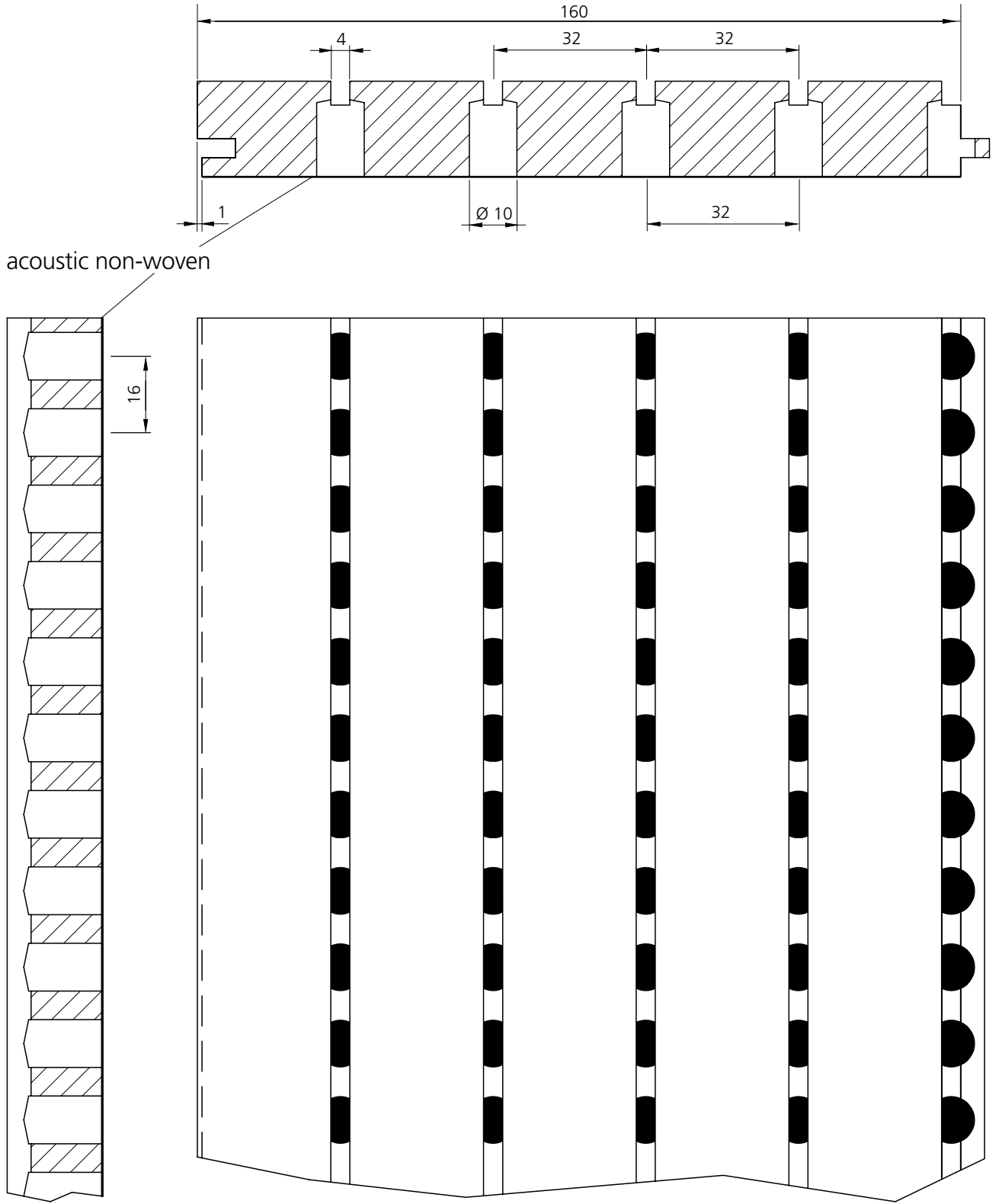
ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 32 – 3 B



proportion of perforated surface 5,8 %

as of February 2018

ALPHA-AKUSTIK Tongue-and-Groove Slat Panel P 32 – 4 B

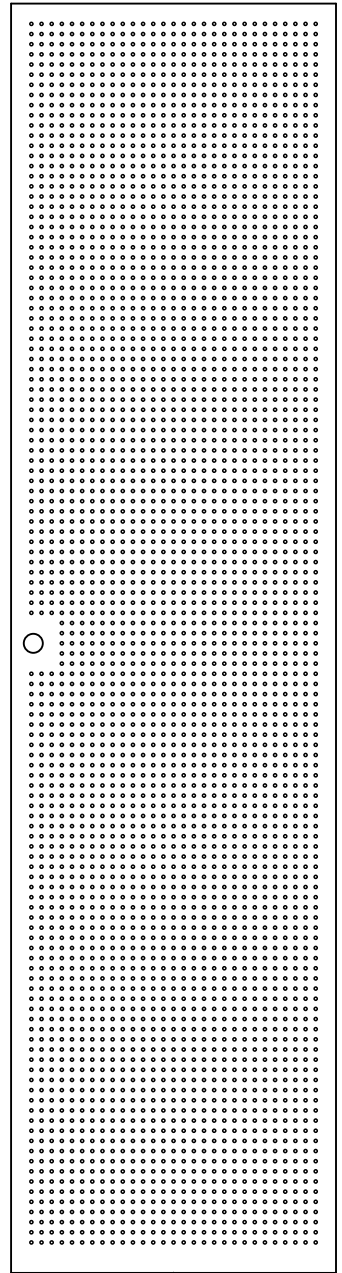
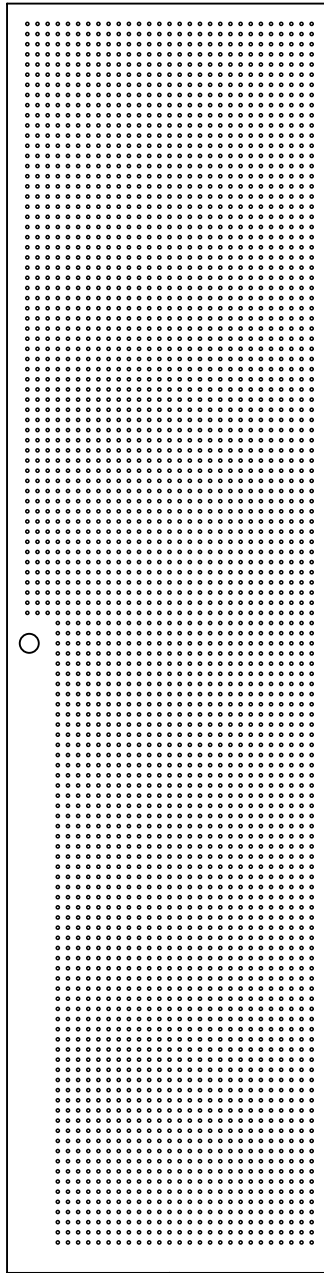
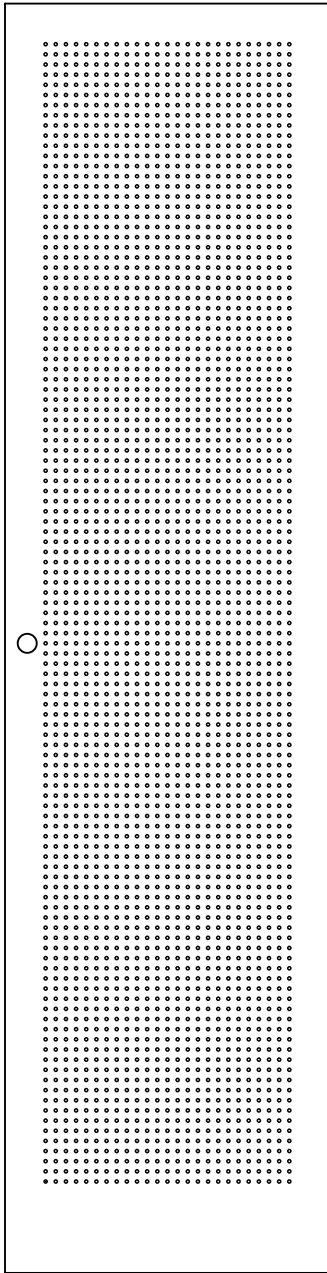


proportion of perforated surface 7,6 %

as of February 2018

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ALPHA-AKUSTIK types of patterns for acoustically effective cabinet doors

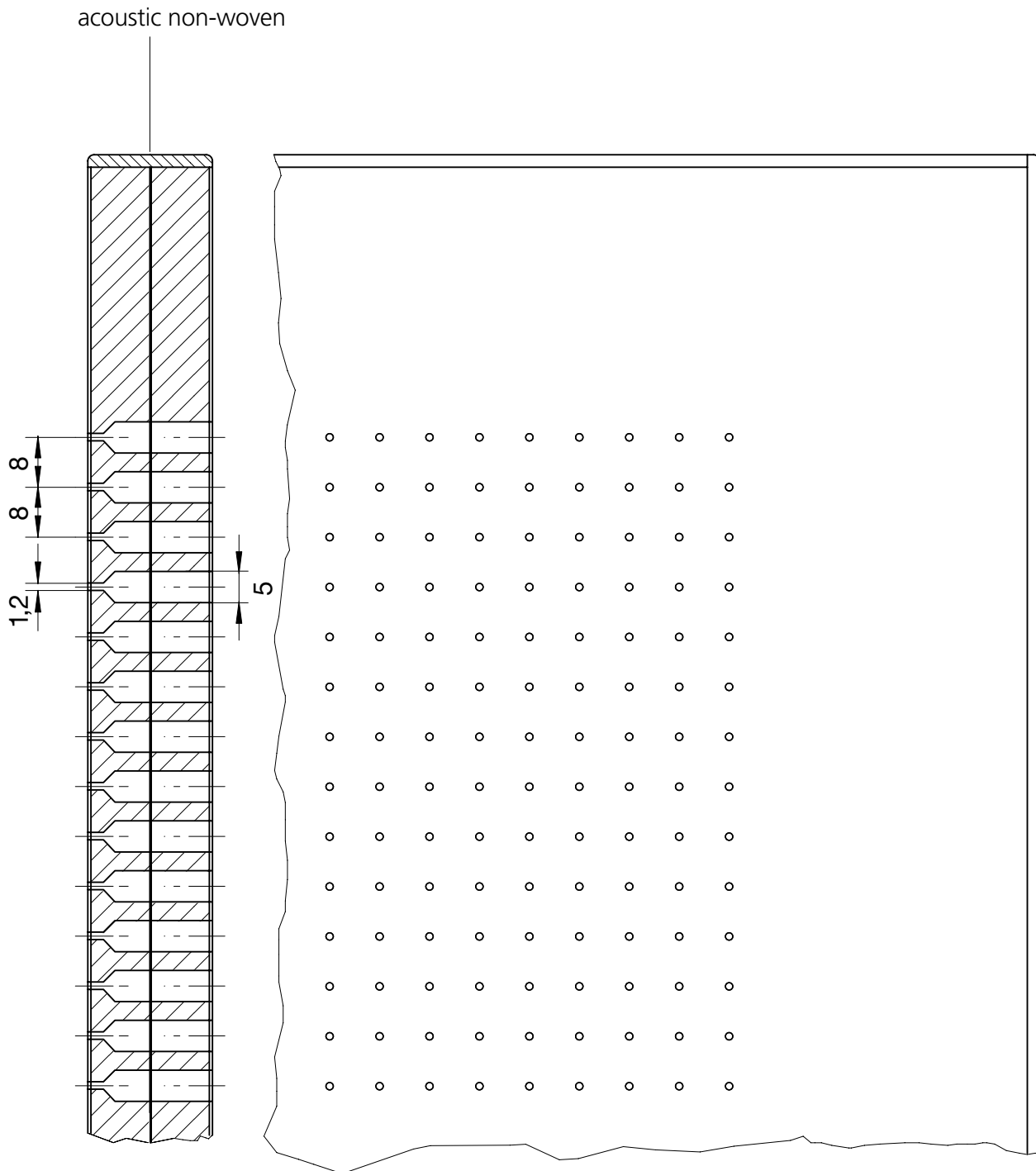


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Staudigel GmbH
Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0)9 31 9 70 54-0
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ALPHA-AKUSTIK acoustically effective cabinet doors 8/8/5 – 1,2



proportion of perforated surface 2,1 %

as of February 2018

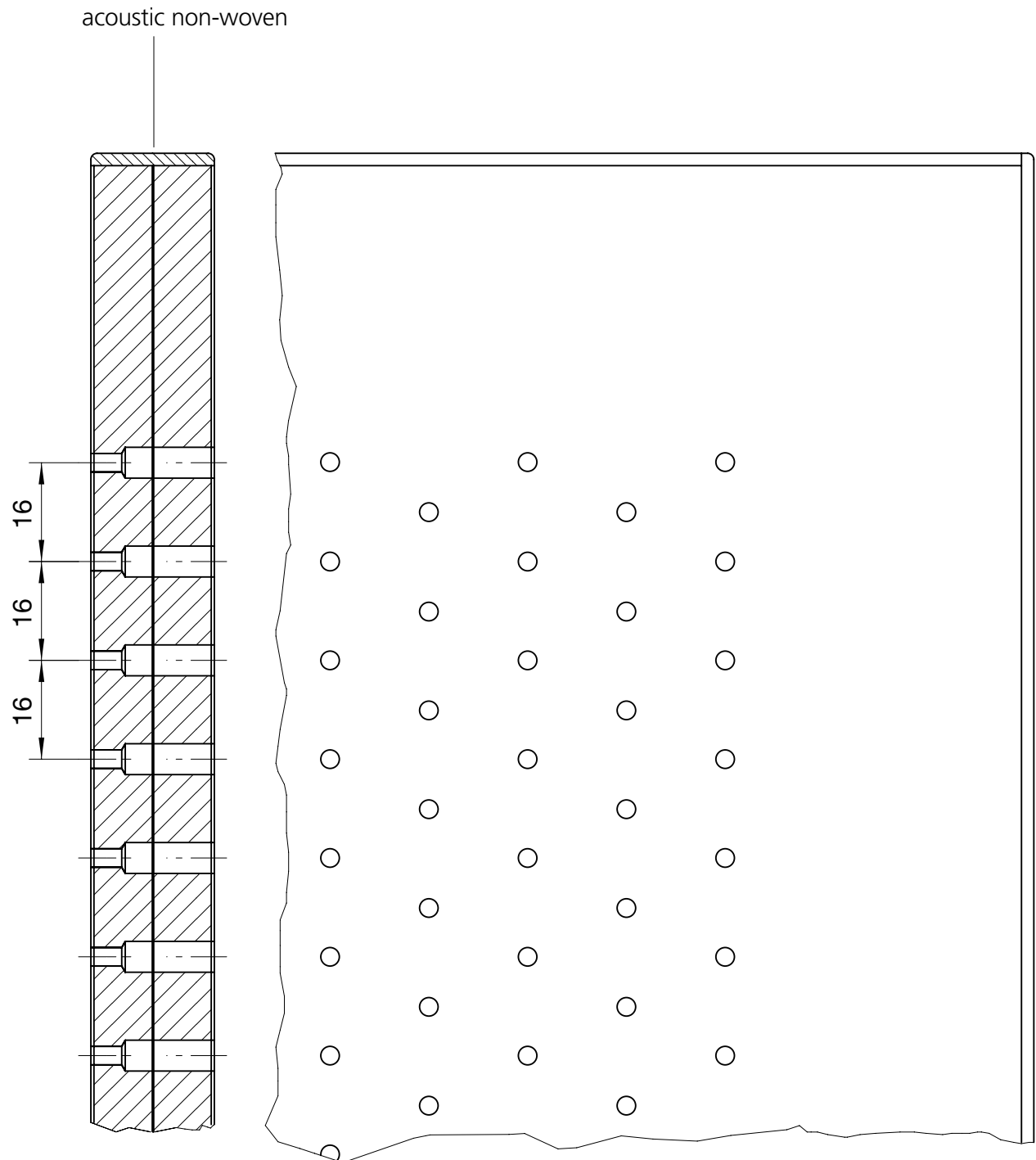


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ALPHA-AKUSTIK acoustically effective cabinet doors 16/16/5 V – 3



proportion of perforated surface 2,7 %

as of February 2018

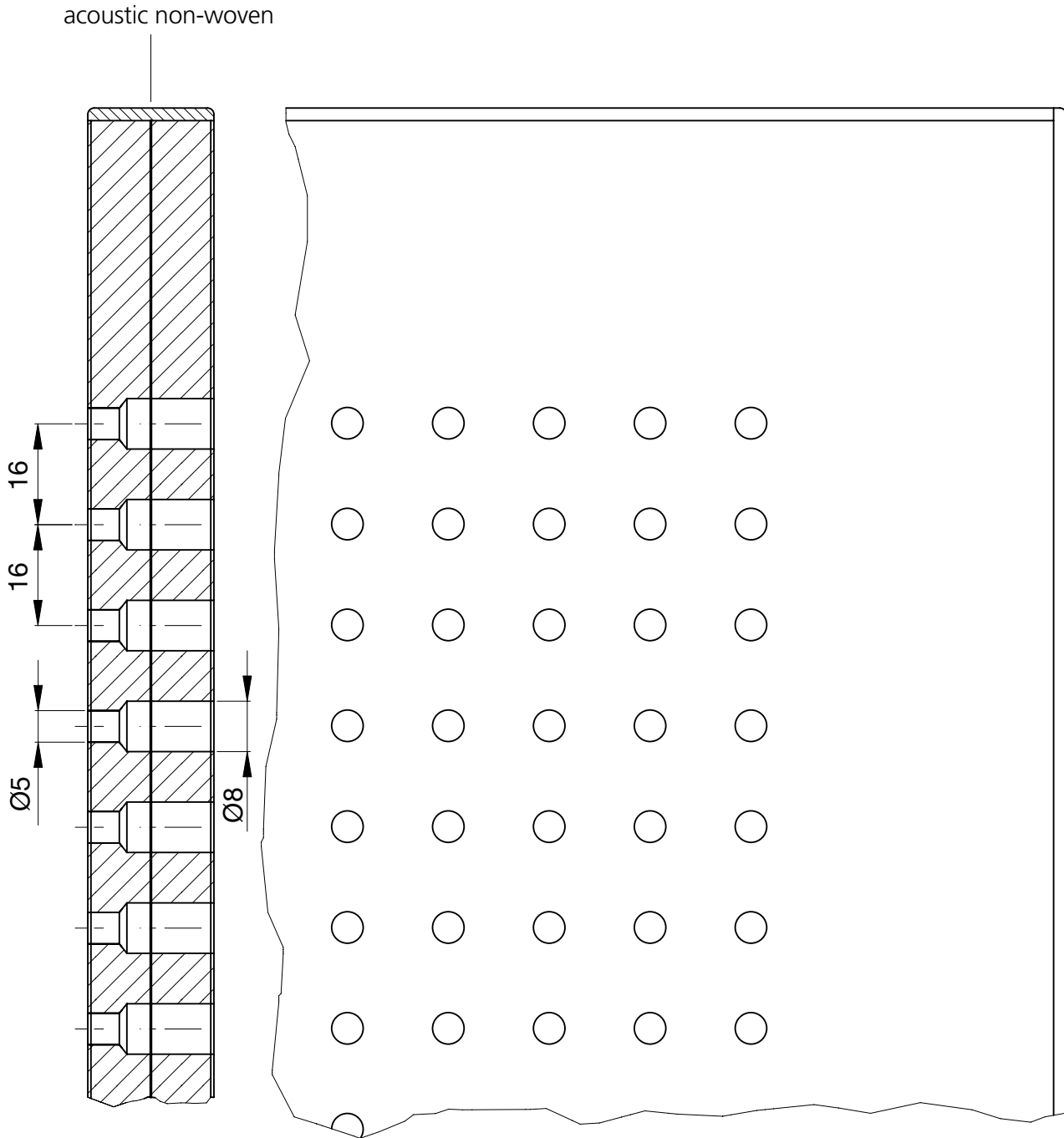


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ALPHA-AKUSTIK acoustically effective cabinet doors 16/16/8 – 5



as of February 2018

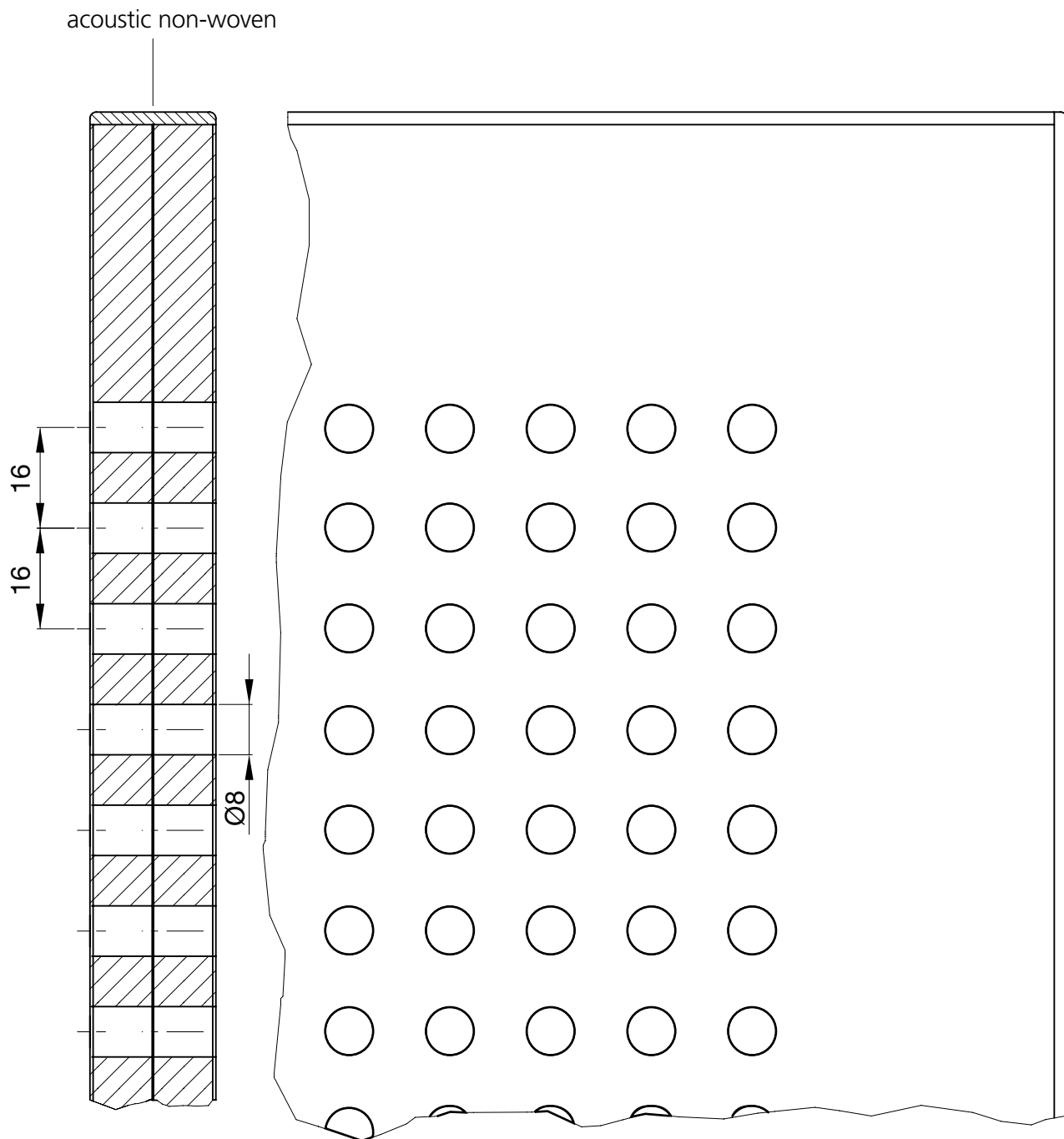


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ALPHA-AKUSTIK acoustically effective cabinet doors 16/16/8 – 8



proportion of perforated surface 19,6 %

as of February 2018

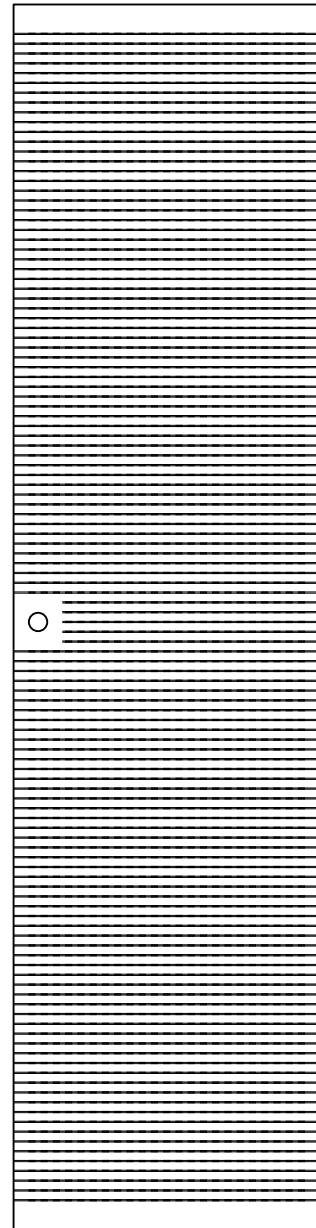
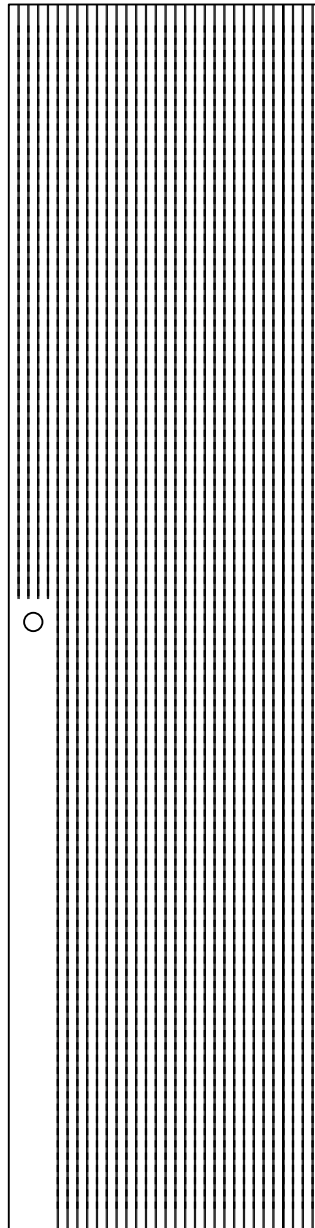
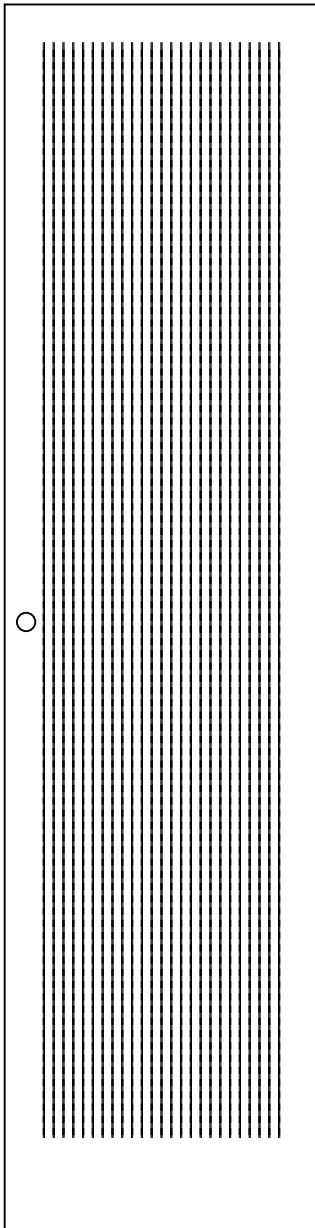


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Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0)9 31 9 70 54-0
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as of February 2018

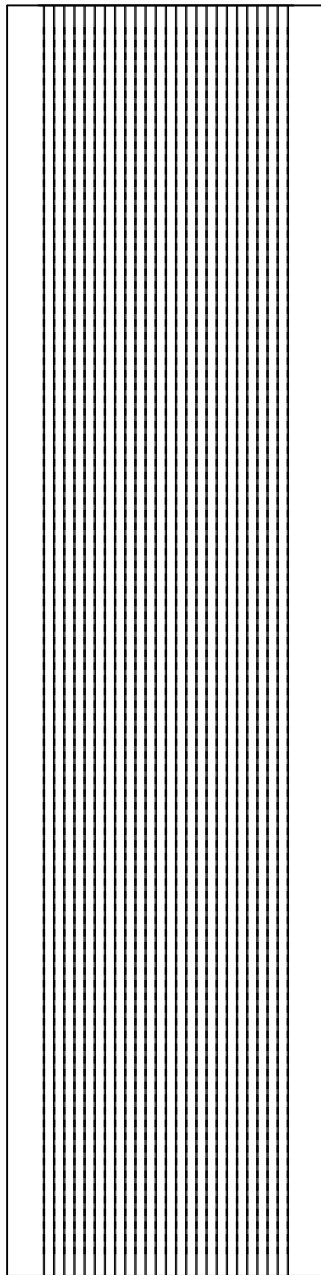


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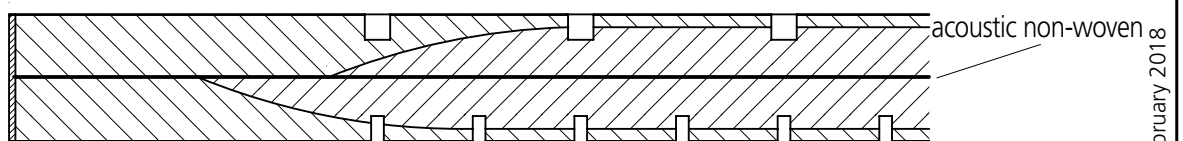
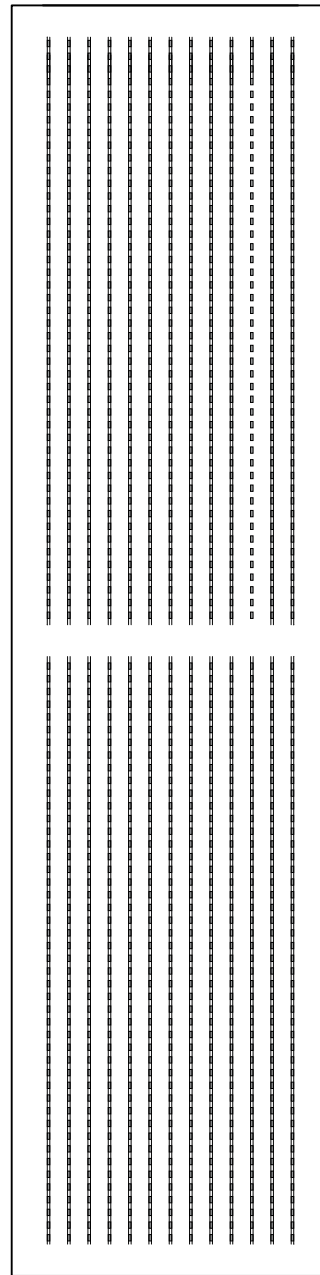
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front side of the door



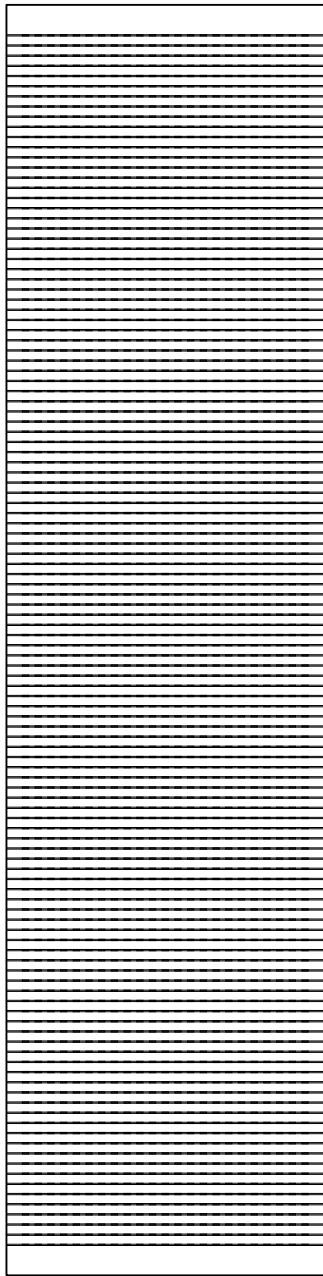
rear side of the door



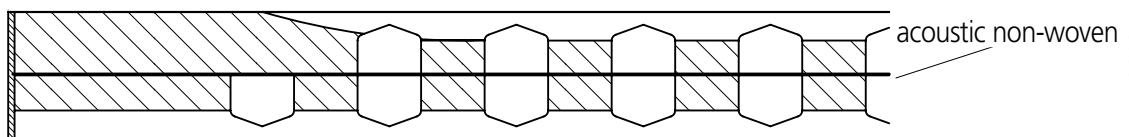
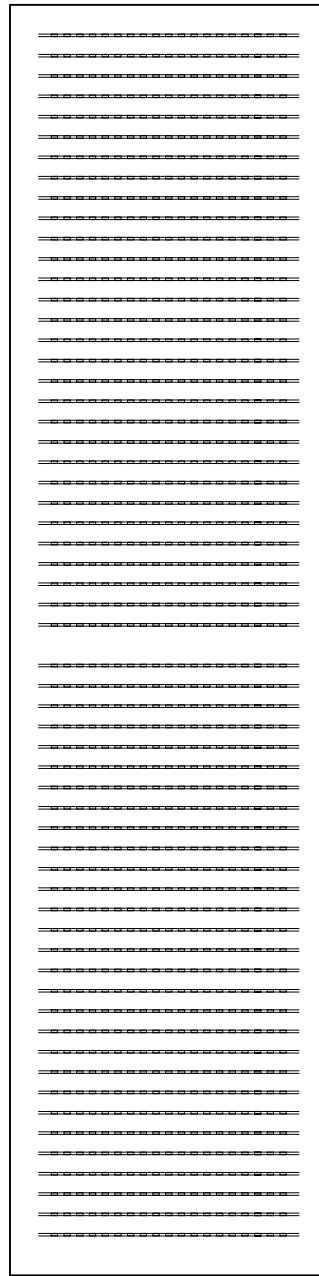
proportion of perforated surface 6,2 %

as of February 2018

front side of the door



rear side of the door



proportion of perforated surface 6,2 %

as of February 2018

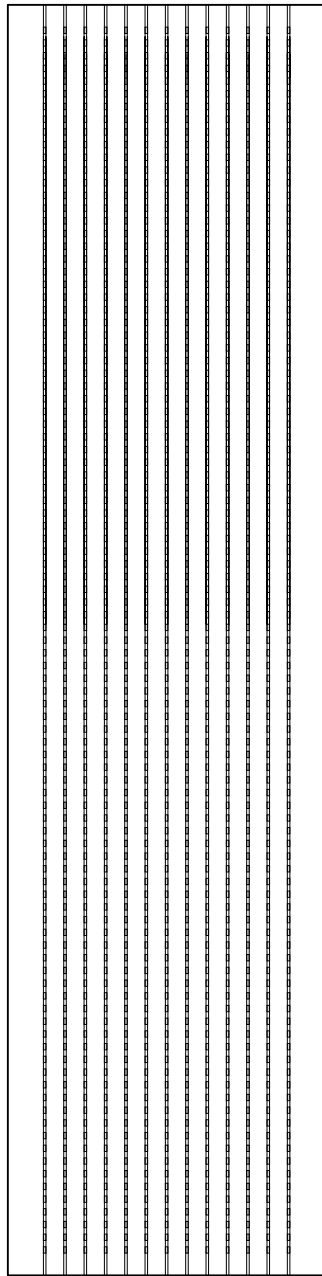


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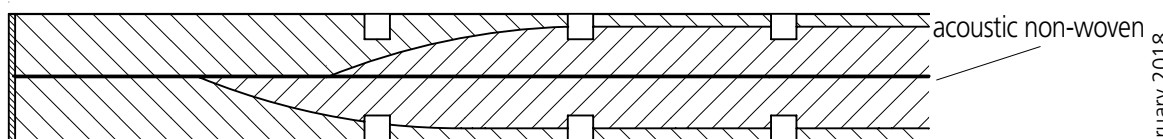
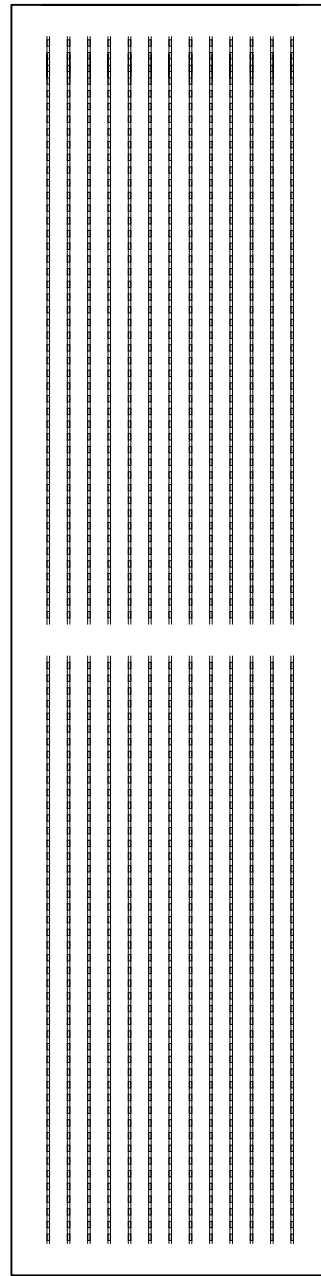
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Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0)9 31 9 70 54-0
Fax +49 (0)9 31 9 70 54-54
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front side of the door



rear side of the door



proportion of perforated surface 6,2 %

as of February 2018



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Phone +49 (0)9 31 9 70 54-0
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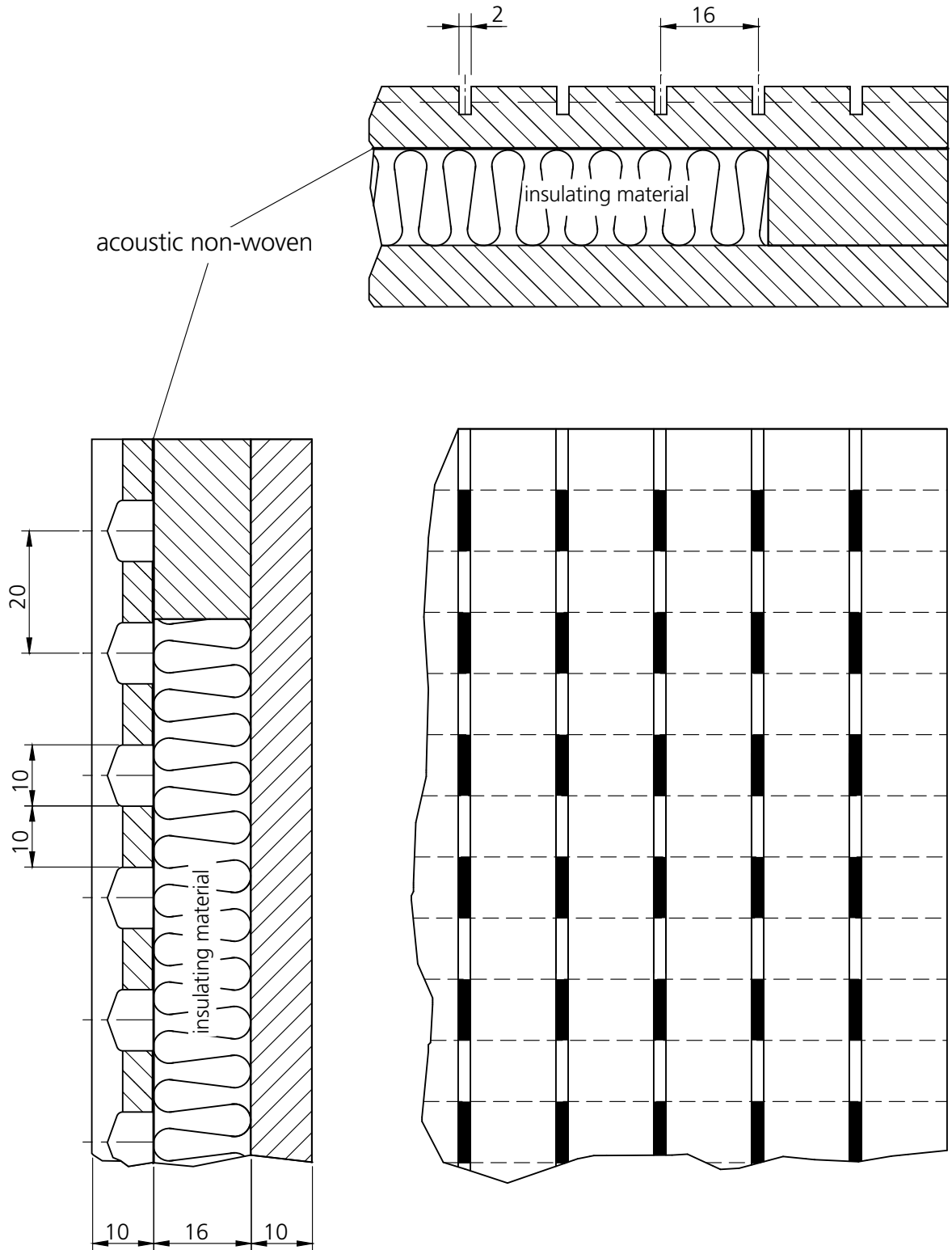
| | |
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Acoustics and Design Ideas Complete Solutions for Mobile and Permanent Partition Walls

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

Please contact us to learn more.

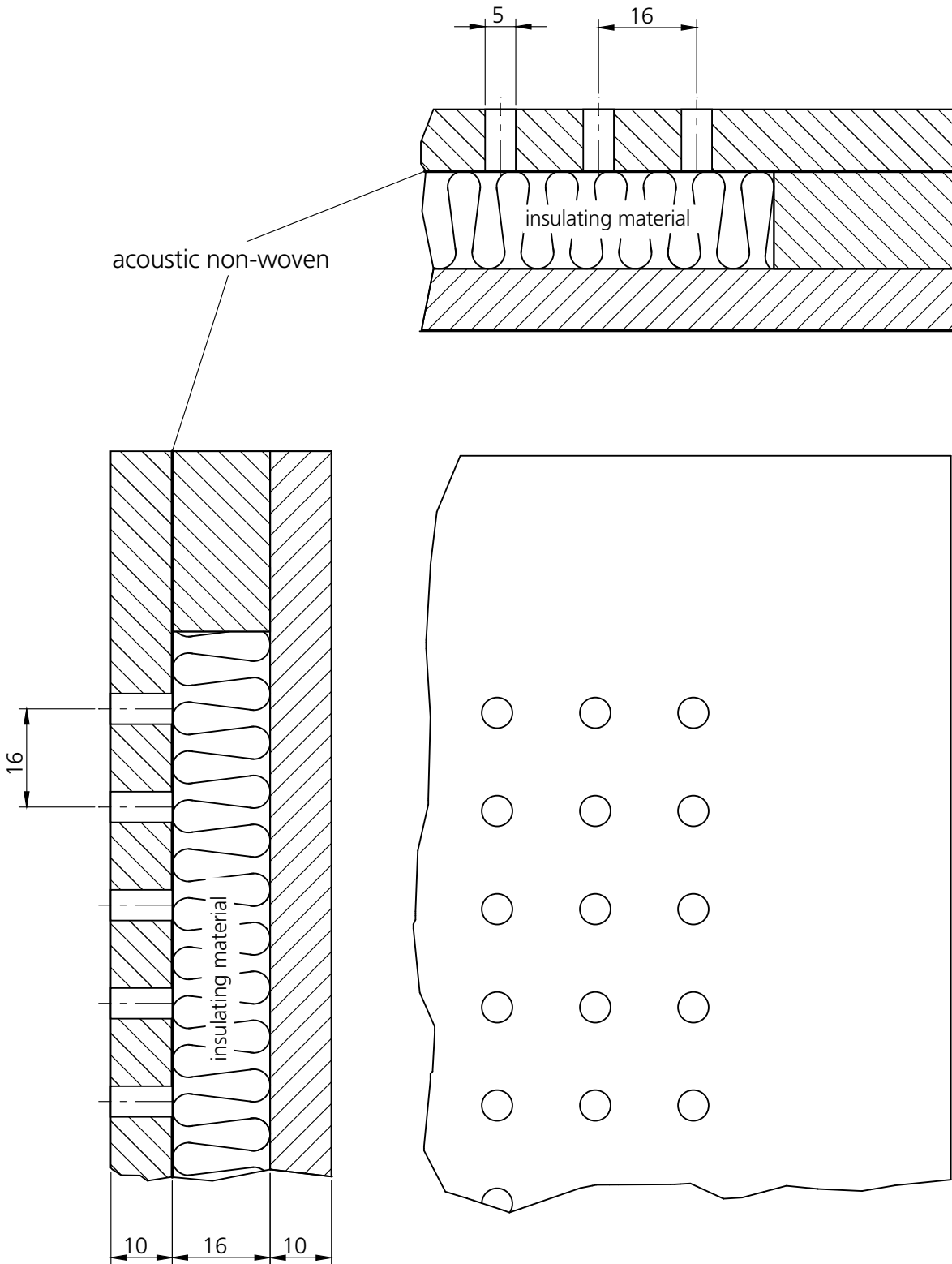
ALPHA-AKUSTIK Slot Groove Element Type E 36 20/N10 – 16 – 2



proportion of perforated surface 6,2 %

as of February 2018

ALPHA-AKUSTIK Slot Groove Element Type E 36 16/16/5 – 5



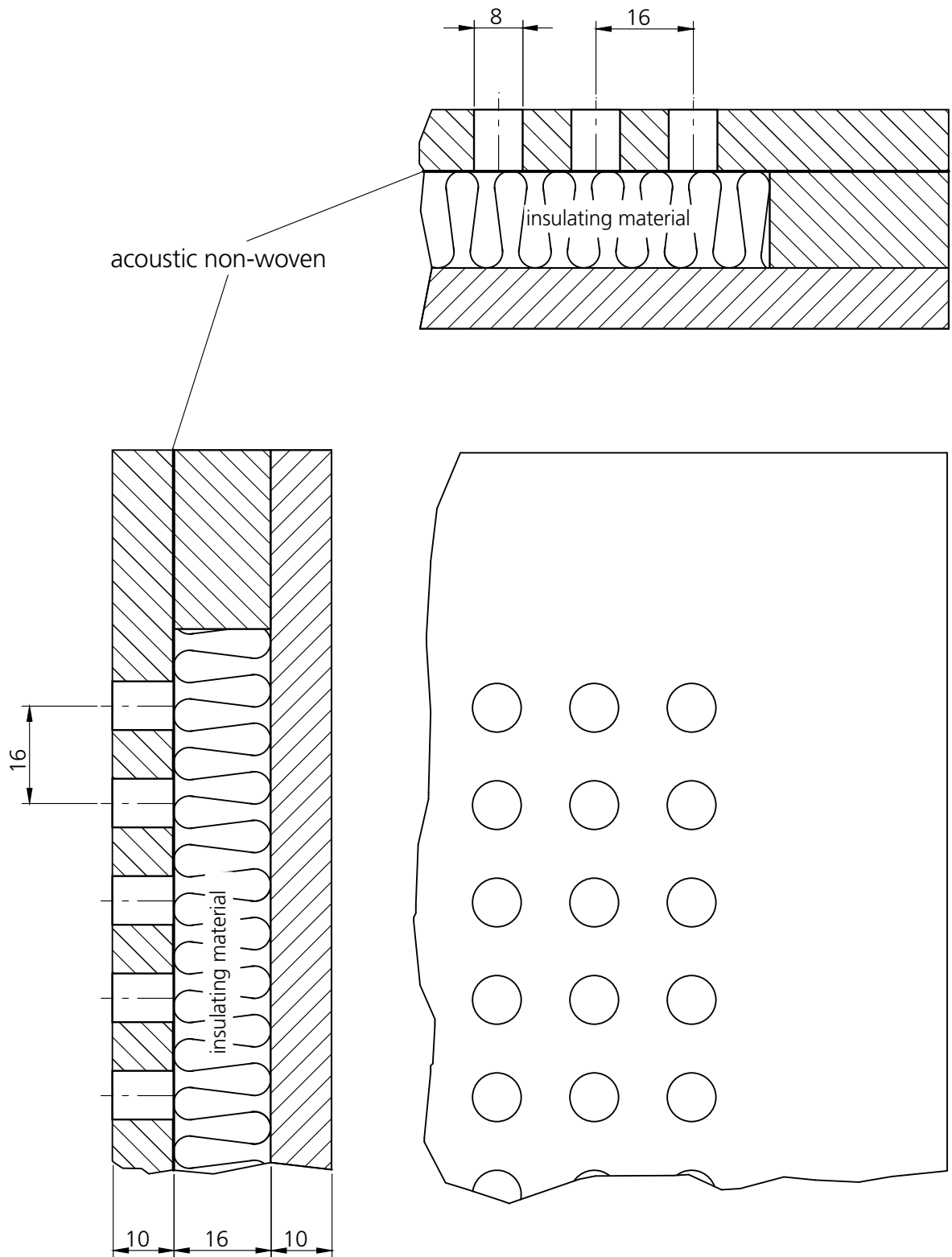
as of February 2018



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Staudigel GmbH
Benzstraße 8 · D-97209 Veitshöchheim
Phone +49 (0)9 31 9 70 54-0
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proportion of perforated surface 19,6 %

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Phone +49 (0)9 31 9 70 54-0
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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.

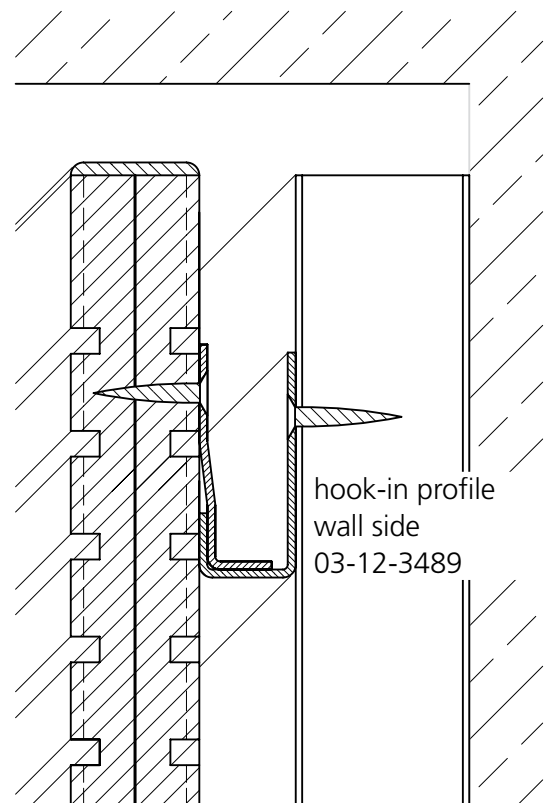
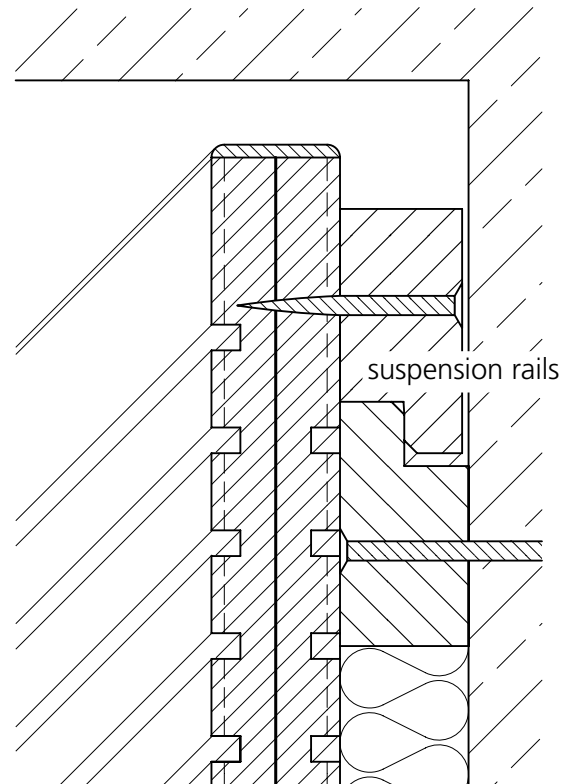
For a panel length of 2,000 mm, we recommend a joint of no less than 5 mm!

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!

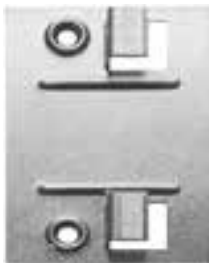
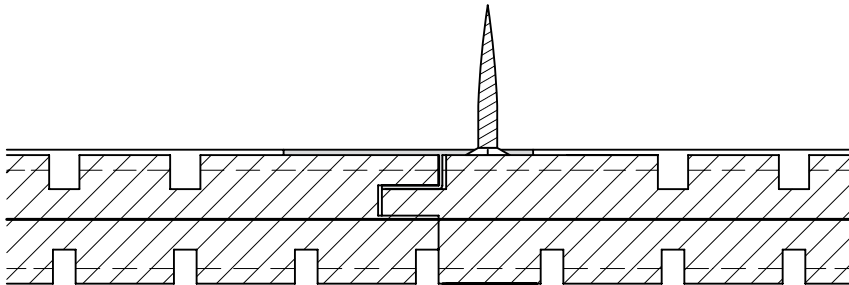
Wall mounting with suspension rails or metal suspension profiles

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.

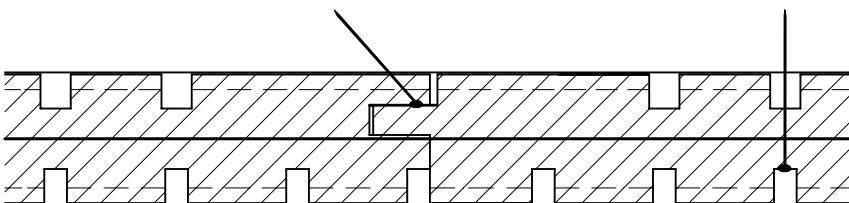


Mounting with threaded profile claw fasteners



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.

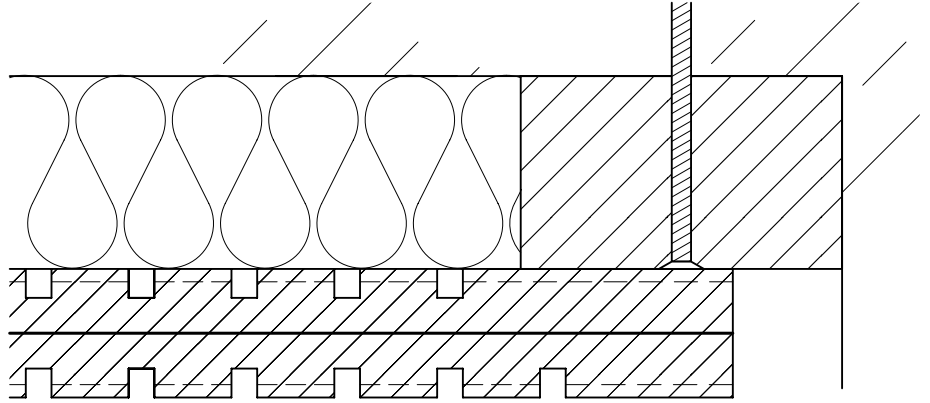
Mounting with retainer clips



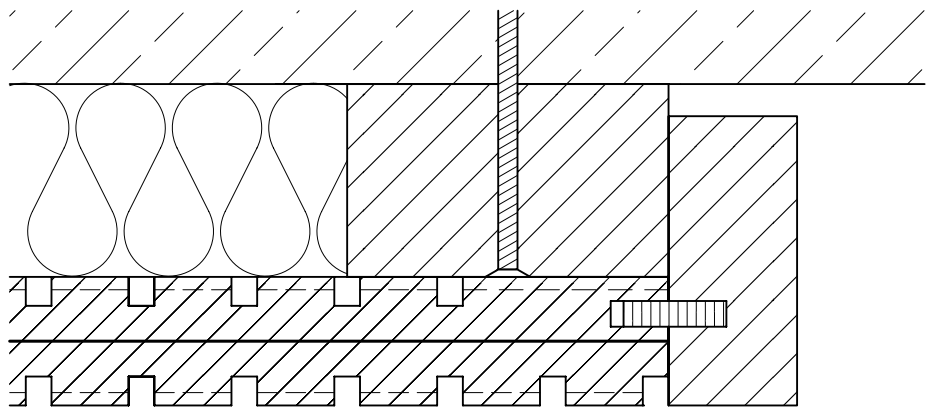
Panels with wooden substructures can be mounted with standard nailer guns.

Wall and ceiling connection

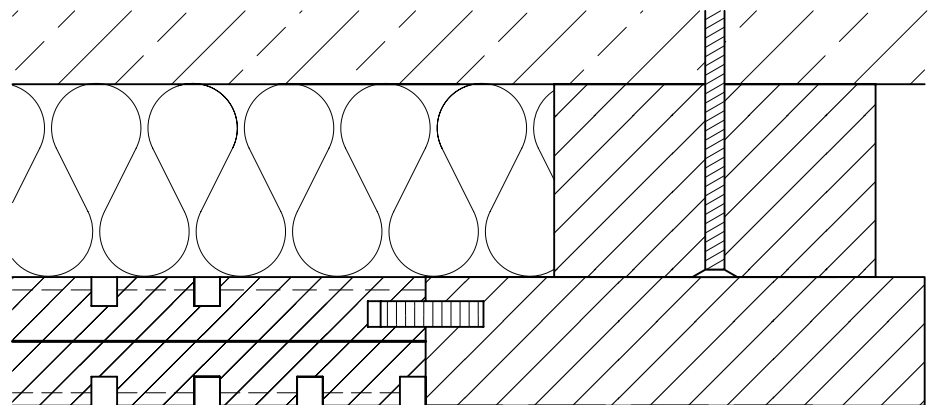
wall / ceiling connection
with shadow gap



wall / ceiling connection
with cover strip

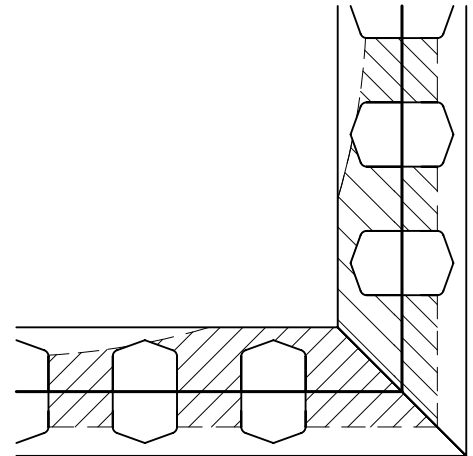


wall / ceiling connection
with edge frieze

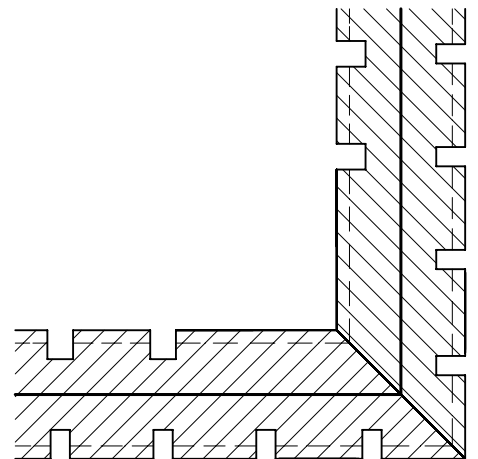


Corner solutions

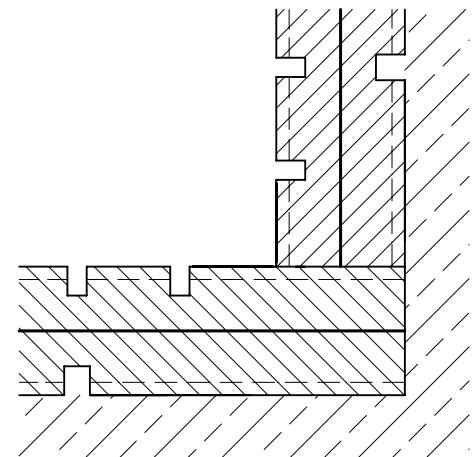
Outside corner, miter joint, with horizontal grooves



Outside corner, miter joint, with vertical grooves



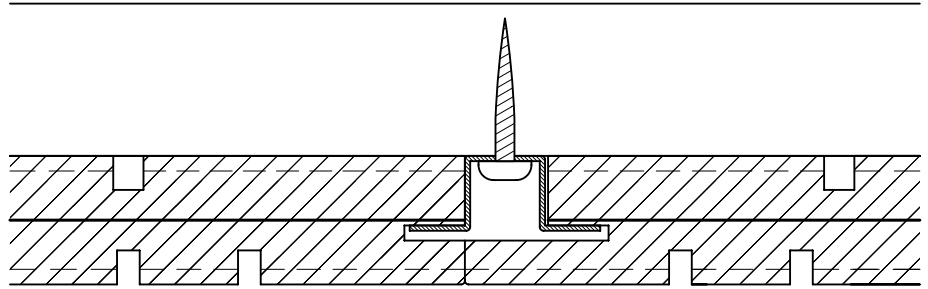
Inside corner, butt joint



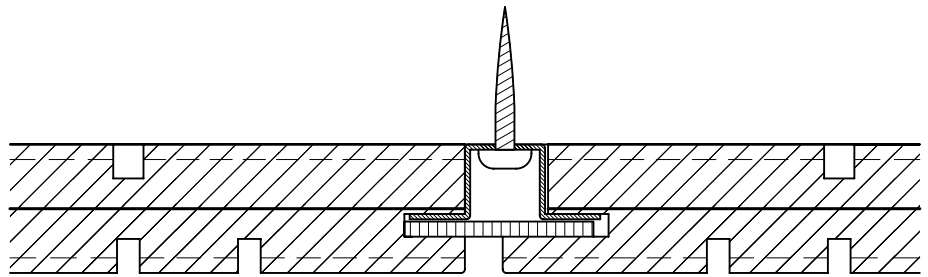
Mounting with cap profile DP 59

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.

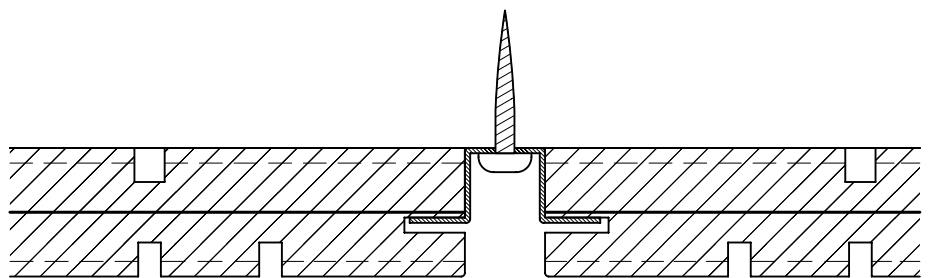
Hairline joint



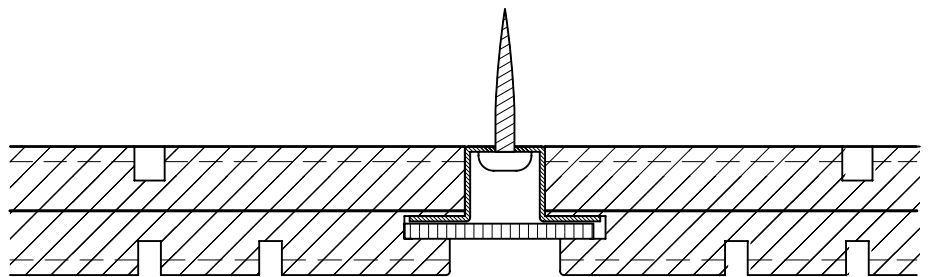
5 mm joint with loose tongue



10 mm joint without loose tongue



15 mm joint with loose tongue



Information

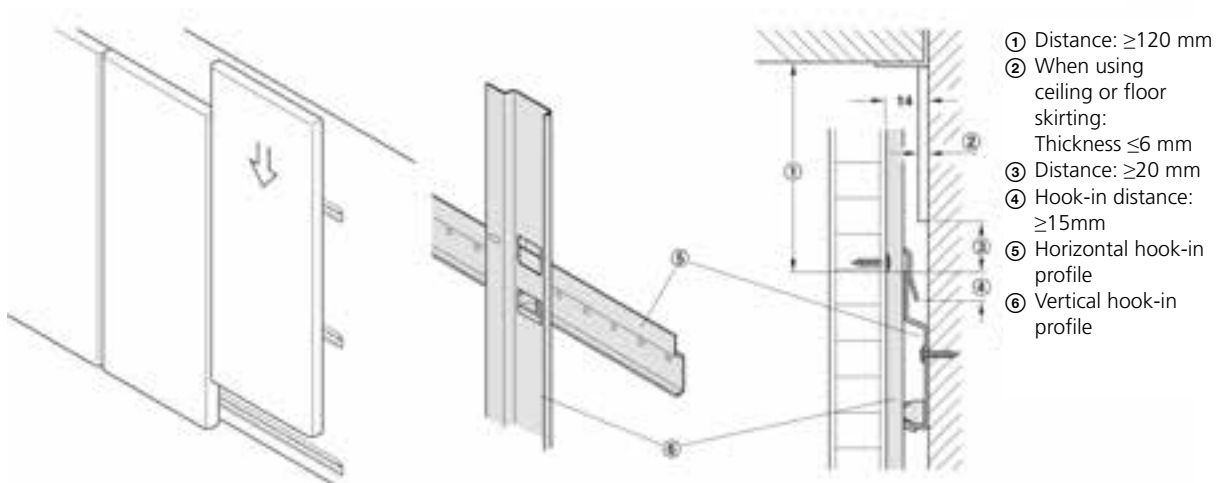
Panel mounting system

Area of application

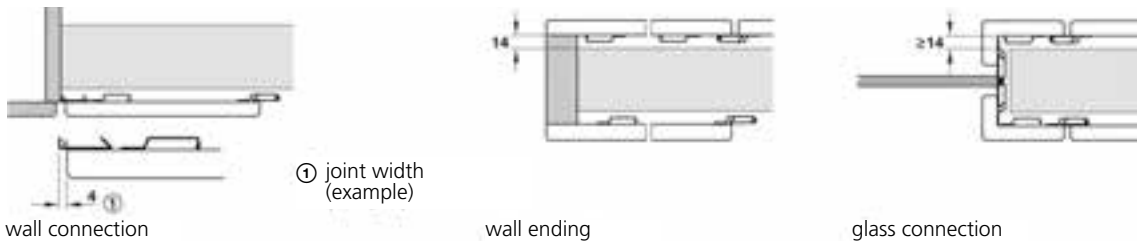
The panel mounting system covers walls. The basic construction is created by hook-in profiles. This system provides easy and efficient installation.

Note

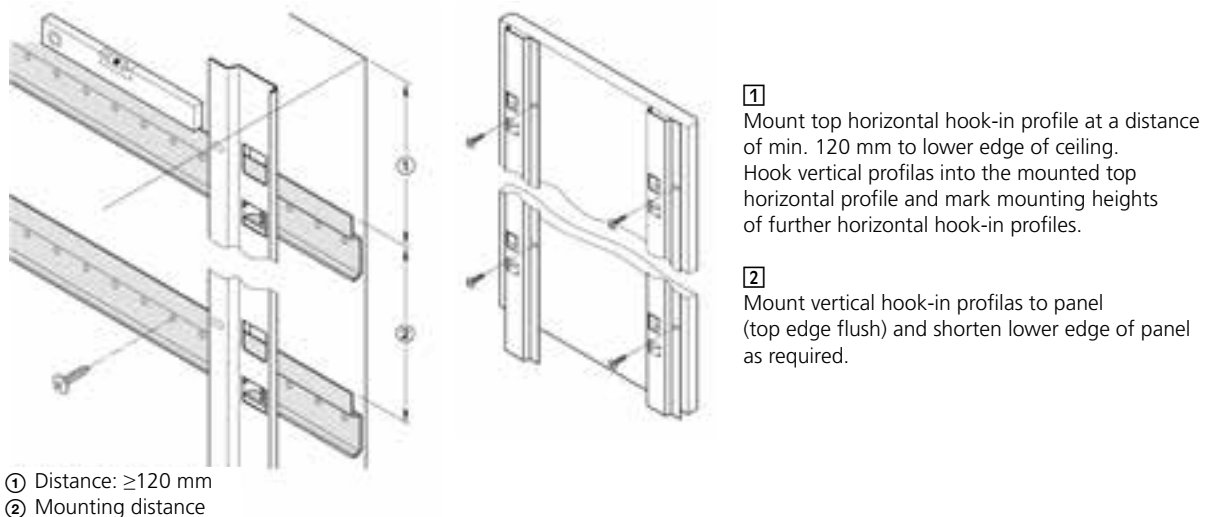
For panel widths 0.7-1.0 m and panel height 3.0 m you need:
> 3 vertical hook-in profiles 3.0 m each
> 3 horizontal hook-in profiles 1.0 m each



Application



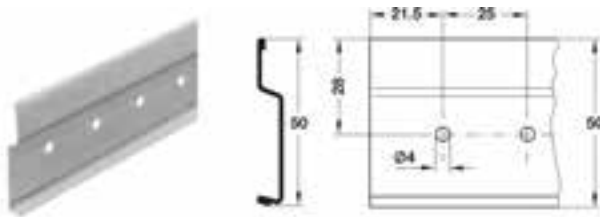
Installation



Room Design

Panel mounting system

Hook-in profile,
→ horizontal



- Material: Steel
- Finish: Galvanized
- Installation: For screw fixing to the wall
- Length: 5,000mm

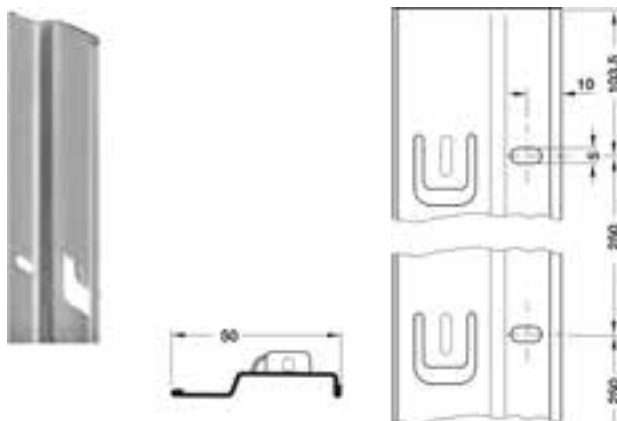
| | Cat No. |
|-----------------------------|-------------|
| Hook-in profile, horizontal | 783.50 .955 |

Packing: 1 piece

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

| | Cat No. |
|---------------------------|-------------|
| Hook-in profile, vertical | 783.51 .933 |

Packing: 1 piece

Room System Panel mounting system

Eilox Panel mounting system

For easy construction of pre-walls



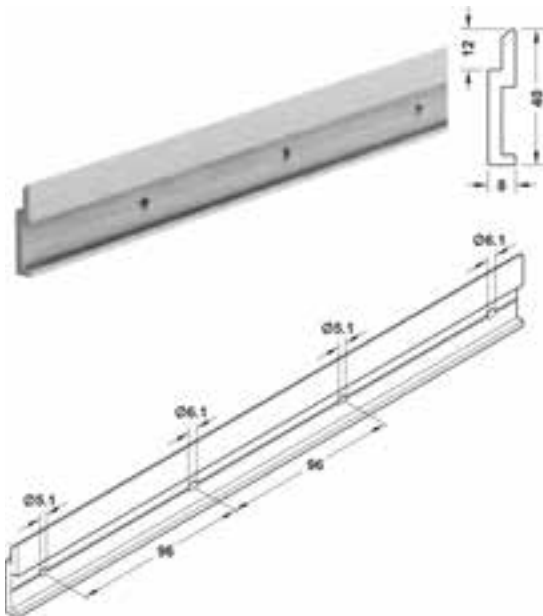
- Exact fit provided by hook-in lips
- Same rail for wall and component
- With flange on the underside, e.g. for guiding cables
- Extremely low installation height and therefore space saving

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.

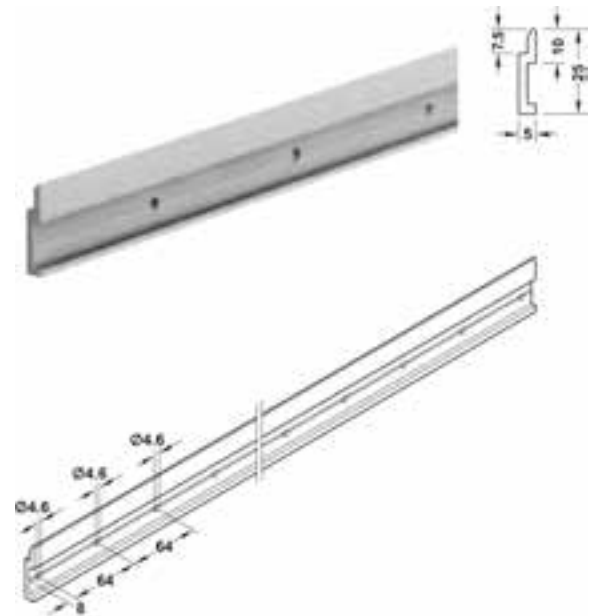
| Length mm | Cat No. |
|-----------|-------------|
| 2000 | 783.53 .001 |
| 6050 | 783.53 .006 |

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.

| Length mm | Cat No. |
|-----------|-------------|
| 2000 | 783.53 .011 |

Packing: 1 piece

Order reference

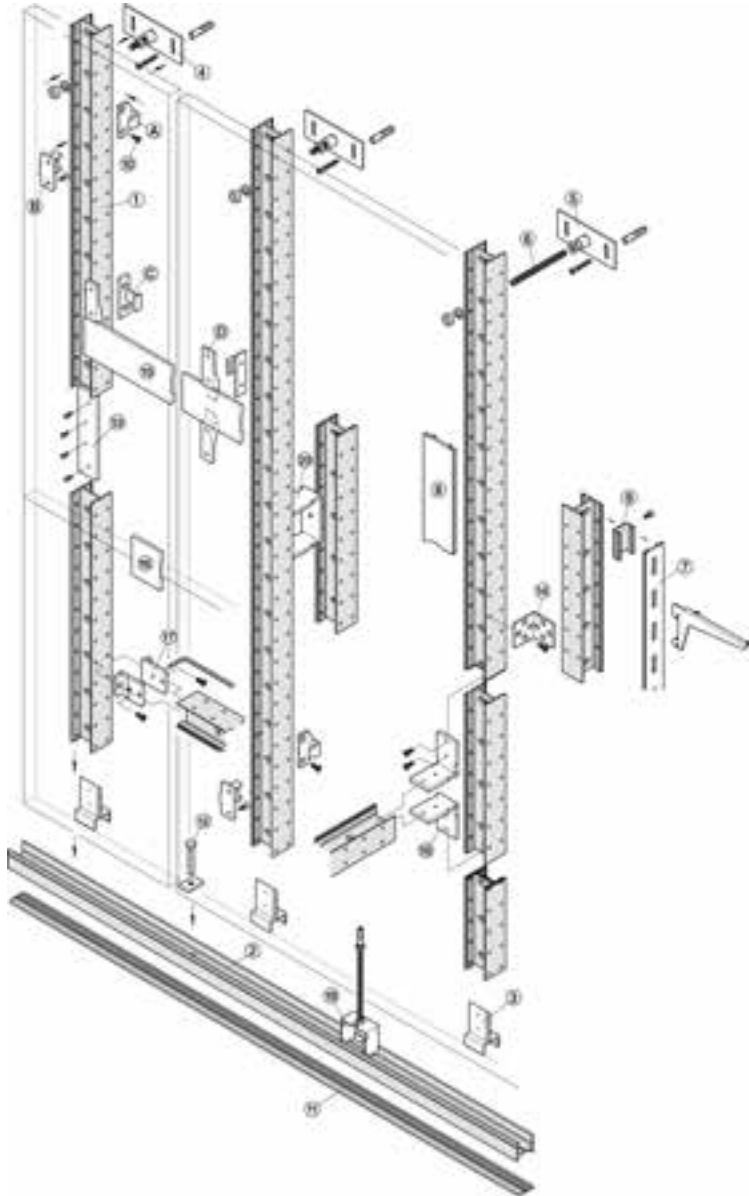
Rails without holes for glue fixing available on request.

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.

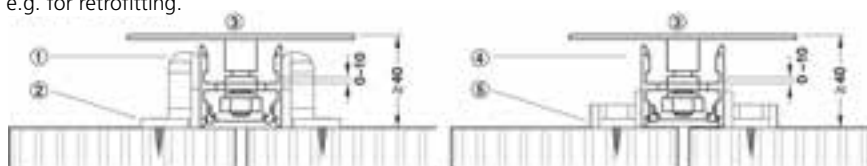
- ① Supporting profile
 - ② Floor and ceiling profile
 - ③ Profile connector
 - ④ Wall and ceiling installation set with 3-way adjustment
 - ⑤ Wall spacer with 3-way adjustment
 - ⑥ Threaded bar
 - ⑦ Perforated gap profile
 - ⑧ Non-perforated gap profile
 - ⑨ Gap profile securing clip
 - ⑩ System screw
 - 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
- Ⓐ ASR frame component
 - Ⓑ AS panel component
 - Ⓒ EHS frame component
 - Ⓓ EH panel component

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 Wall and ceiling installation set with 3-way adjustment
- ④ EHS frame component
- ⑤ EH panel component

Room System Häfele Keku R

Keku R Room system individual components

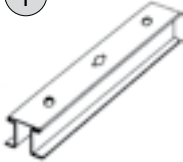
| | | Length mm | Material | Finish | Packing | Cat No. | |
|---|--|---|----------|-----------|------------|-----------------|------------|
| ① | Supporting profile H-shaped, for erecting, tightening and aligning the frame structure, for fixing push-in and suspension fittings in system 32 |  | 6000 | Aluminium | Bright | 1 piece | 782.10.008 |
| ② | Floor and ceiling profile U-shaped, for erecting, tightening and aligning the frame structure |  | 6000 | Aluminium | Bright | 1 piece | 782.11.006 |
| ③ | Profile connector 90° , for connecting supporting profiles to floor and ceiling profiles |  | - | Aluminium | Bright | 1 or 10 pieces | 782.15.060 |
| ④ | Wall and ceiling Installation set with 3-way adjustment , for wall and ceiling installation of supporting profile, note: Please order washer and M8 hexagonal nut separately. |  | - | Steel | Galvanized | 1 or 10 pieces | 782.00.900 |
| ⑤ | Wall spacer with 3-way adjustment , for wall and ceiling installation of supporting profile, note: Please order washer and M8 hexagonal nut separately. |  | - | Steel | Galvanized | 1 or 10 pieces | 782.00.910 |
| ⑥ | Threaded bar , for wall spacer with 3-way adjustment where a larger distance to the wall is required |  | 1000 | Steel | Galvanized | 25 pieces | 020.80.908 |
| ⑦ | Slotted gap profile , for hooking into brackets and merchandise display rails (H-shaped) |  | 3000 | Aluminium | Bright | 1 piece | 782.14.003 |
| ⑧ | Gap profile without slots , for covering the supporting profile (H-shaped) |  | 3000 | Aluminium | Bright | 1 piece | 782.13.003 |
| ⑨ | Gap profile securing clip , for securing the slotted gap profile |  | - | Aluminium | Bright | 1 or 10 pieces | 782.15.090 |
| ⑩ | System screw self-tapping, for installation of all fittings and connectors of the Keku R room system range |  | - | Steel | Galvanized | 1 or 100 pieces | 782.17.900 |

Room System Häfele Keku R

| | | | Length mm | Material | Finish | Packing | Cat No. |
|----|---|---|--------------|-----------|---|-------------------|------------|
| 11 | Adjusting profile, for fixing the floor and ceiling profile |  | 3000 | Aluminium | Bright | 1 piece | 782.12.003 |
| 12 | Height adjusting screw with slot nut, for tightening and aligning the floor and ceiling profile |  | - | Steel | M8 screw: Chromatized slot nut: Bright | 1 or 10 pieces | 782.16.000 |
| 13 | Vertical connector, for joining (extending) supporting profiles or floor and ceiling profiles |  | - | Aluminium | Bright | 1 or 10 pieces | 782.15.010 |
| 14 | Corner bracket 90°, for 90° corner connection of two supporting profiles |  | - | Aluminium | Bright | 1 or 10 pieces | 782.15.080 |
| 15 | Gap profile for panels, for backing/connecting panels with horizontal gaps of 0–30 mm |  | 3000 | Aluminium | Bright | 1 piece | 782.14.010 |
| 16 | Panel connector, for connecting panels, creates flush surfaces with large distances between supporting profiles |  | - | Aluminium | Bright | 1 piece | 782.15.120 |
| 17 | Tie bar, front H-profile, for T-shaped connections horizontally positioned on supporting profile (lateral system 32 drill holes) |  | - | Aluminium | Bright | 1 or 10 pieces | 782.15.030 |
| 18 | Slide-in connector, lateral H-profile, for T-shaped connections horizontally positioned on supporting profile (front system 32 drill holes) |  | - | Aluminium | Bright | 1 or 10 pieces | 782.15.070 |
| 19 | Insert suspension fitting, for suspending supporting profiles or ceiling profiles with suspended ceiling constructions |  | - | Aluminium | Bright | 1 or 10 pieces | 782.15.100 |
| 20 | Slide-in connector, for connecting supporting profiles to make double stands of 110 mm |  | - | Aluminium | Bright | 1 or 10 pieces | 782.15.110 |

FRÜH substructure

1



Rail-system for ceiling and walls

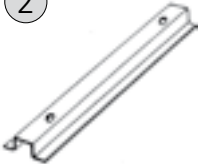
Art. no. 4502-01-1-2500 and
Art. no. 4502-01-1-3000
18 mm web height



AER clip

Art. no. 4510-01-1

2



Rail-system for ceiling and walls

Art. no. 4502-02-1-2500
8 mm web height



Clip system for tongue and groove

3 - 7 mm tongue
10 - 20 mm groove



Hanger bolt

60/ 80/ 100/ 125/ 150 mm



Clip system for tongue and groove

2,5 - 5 mm mm groove



special and lock nuts

Nr. 525/M5



Disco click

1/ 3/ 5 mm

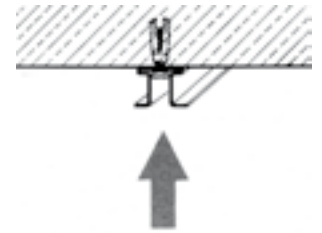
Direct assembly on the wall or ceiling

It is possible to mount the substructure directly onto a wall or ceiling as long as the given surface is level. However please keep in mind this is no an ideal solution. It only serves decorative purpose and does not provide a technically suitable assembly.

1

Rail-System for ceiling

Art. no. 4502-01-1-2500 and
Art. no. 4502-01-1-3000



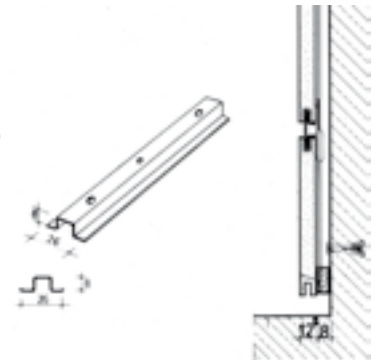
Clip system



2

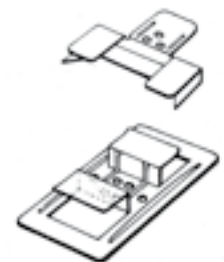
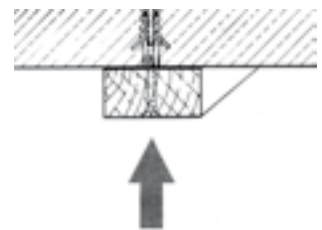
Rail-System for walls

Art. no. 4502-02-1-2500
8 mm web height



wooden substructure

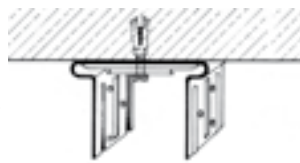
FRÜH clip systems are available in various kinds of design for mounting profiled wood panels and panels on wooden substructures



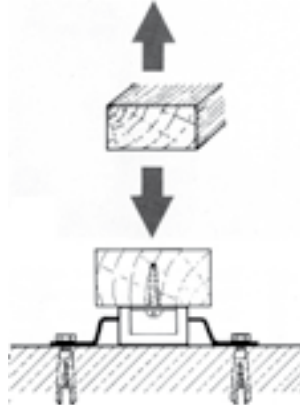
Assembly with distance from the wall or ceiling

In order to achieve a substantial improvement in regards of sound insulation and thermal insulation it is crucial to mount the substructure without a direct point of contact onto the respective wall or ceiling. The only points of contact and connection between panels and wall/ceiling are special hangers

Damper for acoustic oscillations



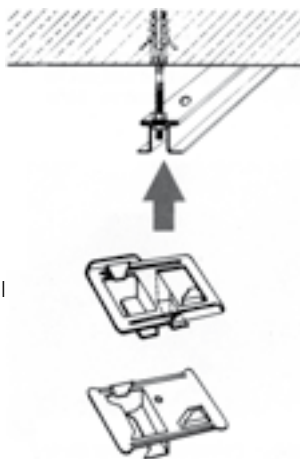
acoustic vibration module



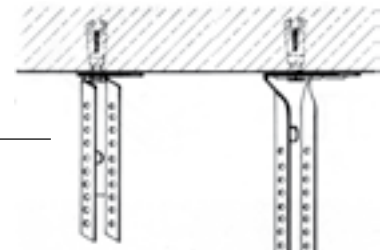
Rail-System

Art. no. 4502-01-1-2500 and
Art. no. 4502-01-1-3000
Art. no. 270 (formerly)

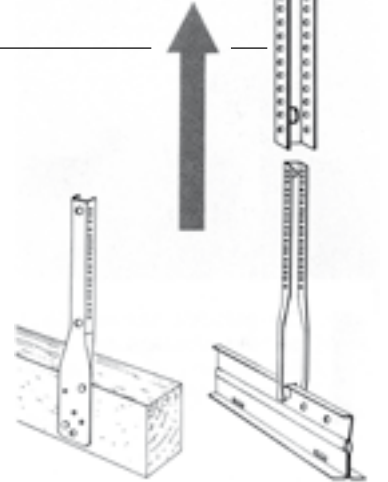
FRÜH clip systems are available in various kinds of design (p.g. for fixing panels on a metal substructure).



short hanger



U--hanger systems



Material requirements planning

The required material can be planned according to these facts:

- Dimensions= length x width of the wall/ceiling that is going to be covered with panels
- Make sure to comply with a proper distances between the rails (given by the manufacturer of the rails)
- A rule of thumb is:
Rails every 50cm on a perpendicular pattern
(=panels are vertical or horizontal / 90°)
Rails every 35-40 cm on an angled pattern
(=panels are diagonal / 45°)
- Distance from the wall/ceiling for the hangers
- Clip according to the width of the panel
- Start- and end-clips = amount of rails x 2

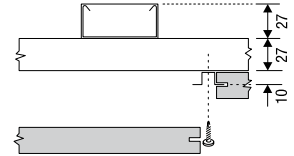
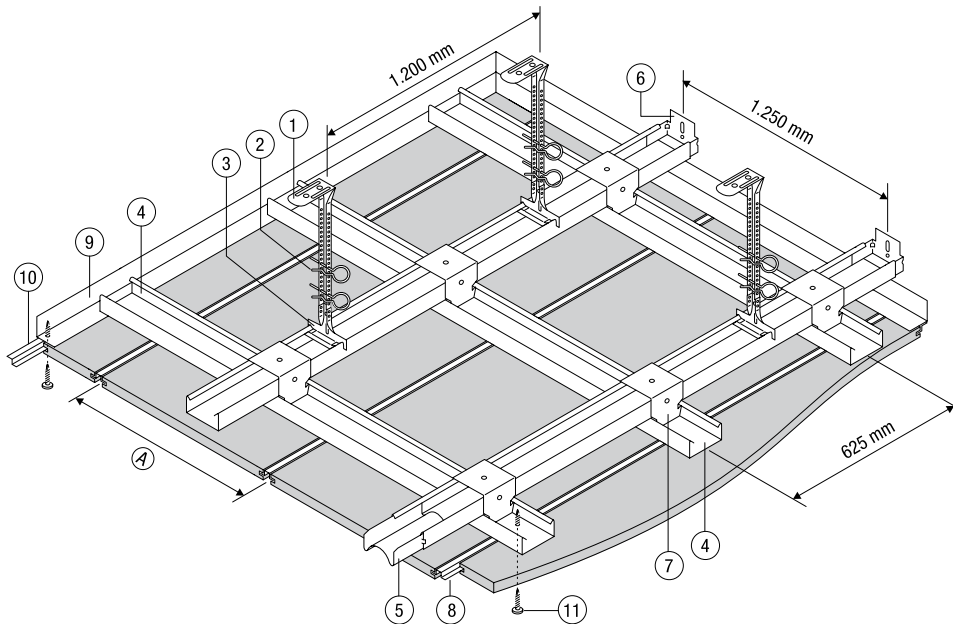
System overview – Ceiling systems

Ball proof systems

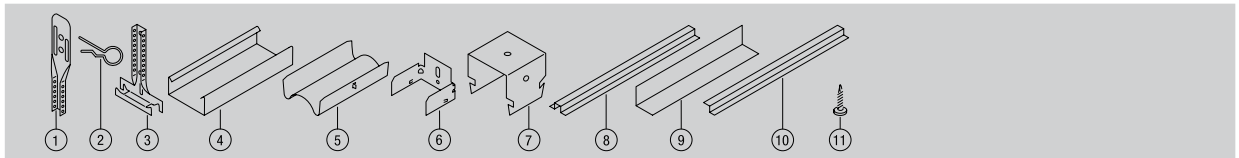
| System- nummer | Beschreibung description |
|-------------------|---|
| 270 | Metallkonstruktion für ballwurfsichere Unterdecken mit Akustikplatten Metal suspension system for sport halls |
| 273 | Metallkonstruktion für ballwurfsichere Wandverkleidung mit Akustikplatten Sports hall cladding system |
| 280 | Metallkonstruktion für ballwurfsichere Unterdecken mit Akustikplatten Metal suspension system for sport halls |
| 283 | Metallkonstruktion für ballwurfsichere Wandverkleidung mit Akustikplatten Sports hall cladding system |
| 285 | Metallkonstruktion für ballwurfsichere Unterdecken mit Akustikplatten Metal suspension system for sport halls |

Ceiling system 270

System Metal suspension system for sport halls
suitable for Wood fiber panels or similar with kerved sides, demountable
Characteristic Symmetric system with characteristic joints

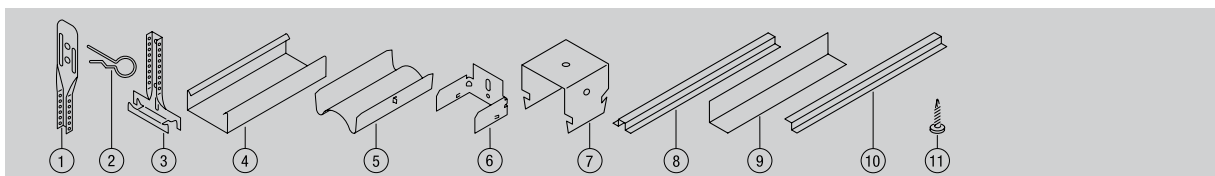


Quantities are estimated based on large ceiling areas. Modules connecting to walls are not considered in this statement. For smaller rooms the requirement of material can be considerably higher. Distances to be agreed with panel manufacturer. No responsibility is taken for this statement.

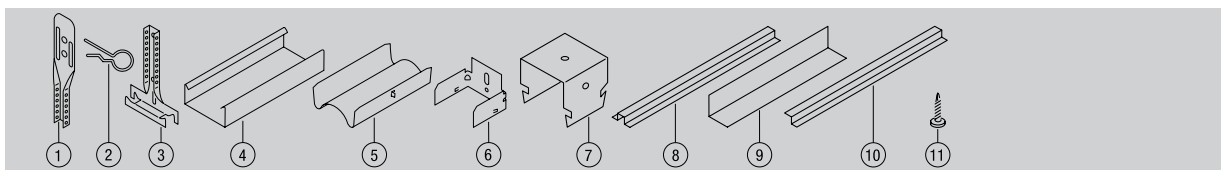


| Pos. item | Bestell-Nr. order no. | Bezeichnung description | Materialdicke thickness | Länge length | Verp.-Einheit packing unit | Bedarf pro m ² quantity per sqm | |
|--------------|--------------------------|--|----------------------------|--------------------------|-------------------------------|--|----------------------------------|
| | | | | | | Plattenbreite [Ⓐ] width of ceiling tile 415 mm | 625 mm |
| ① | 1/30 | Noniushänger-Oberteil nonius hanger upper part | 1,00 mm | nach Bedarf on demand | 100 Stück/pcs | 0,67 Stück/pcs* | 0,67 Stück/pcs* |
| ② | 1/14 | Nonius-Sicherungsklammer safety pin | 2,50 mm | 60 mm | 100 Stück/pcs | 1,34 Stück/pcs* | 1,34 Stück/pcs* |
| ③ | 1/37 C 62 | Noniushänger-Unterteil nonius hanger lower part | 1,25 mm | 122 mm | 100 Stück/pcs | 0,67 Stück/pcs* | 0,67 Stück/pcs* |
| ④ | DP 16 | Trageprofil/Unterprofil primary runner/main runner | 0,75 mm | 4.000 mm | 32 Meter | 2,40 Meter | 2,40 Meter |
| ⑤ | 1/104 | Längsverbinder splice | 0,50 mm | 110 mm | 100 Stück/pcs | 0,60 Stück/pcs | 0,60 Stück/pcs |
| ⑥ | WA 16 | Wandanschlussshuh wall anchor | 1,00 mm | 50 mm | 100 Stück/pcs | nach Bedarf on demand | nach Bedarf on demand |
| ⑦ | 1/22 A | Kreuzschnellverbinder cross connector | 1,00 mm | 64,5 mm | 100 Stück/pcs | 1,28 Stück/pcs | 1,28 Stück/pcs |
| ⑧ | DP 59 | Hutprofil omega profile | 0,60 mm | 5.000 mm | 50 Meter | 2,40 Meter | 1,60 Meter |
| ⑨ | DP 37 L | Wandwinkelprofil perimeter angle trim | nach Bedarf on demand | 4.000 mm | 40 Meter | nach Bedarf on demand | nach Bedarf on demand |
| ⑩ | DP 59 H | Z-Abschlussprofil z-shaped perimeter profile | 0,60 mm | 5.000 mm | 50 Meter | nach Bedarf on demand | nach Bedarf on demand |
| ⑪ | 2/421 | Befestigungsschraube self-drilling screw | 3,50 mm | 16 mm | 1.000 Stück/pcs | 2,56 Stück/pcs zzgl. Wandbereich | 2,56 Stück/pcs plus perimeter |

* 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.



| Pos. item | Bestell-Nr. order no. | Kennziffer code no. | Bezeichnung / Oberfläche description / surface coating | Materialdicke thickness | Länge length | Verp.-Einheit packing unit |
|--------------|--------------------------|------------------------|--|----------------------------|-----------------|-------------------------------|
| ① | 1/30 | 2616 | Noniushänger-Oberteil, verzinkt | 1,00 mm | 150 mm | 100 Stück/pcs |
| | | 2618 | nonius hanger upper part, galvanised | 1,00 | 200 | 100 |
| | | 2620 | | 1,00 | 300 | 100 |
| | | 2622 | | 1,00 | 400 | 100 |
| | | 2624 | | 1,00 | 500 | 100 |
| | | 2626 | | 1,00 | 600 | 100 |
| | | 2628 | | 1,00 | 700 | 100 |
| | | 2630 | | 1,00 | 800 | 100 |
| | | 2632 | | 1,00 | 900 | 100 |
| | | 2634 | | 1,00 | 1.000 | 100 |
| | | 2636 | | 1,00 | 1.100 | 50 |
| | | 2638 | | 1,00 | 1.200 | 50 |
| | | 2640 | | 1,00 | 1.300 | 50 |
| | | 2642 | | 1,00 | 1.400 | 50 |
| 2644 | | 1,00 | 1.500 | 50 | | |
| 2646 | | 1,00 | 1.600 | 50 | | |
| 2648 | | 1,00 | 1.700 | 50 | | |
| 2650 | | 1,00 | 1.800 | 50 | | |
| 2652 | | 1,00 | 1.900 | 50 | | |
| 2654 | | 1,00 | 2.000 | 50 | | |
| ② | 1/14 | 2605 | Nonius-Sicherungsklammer, verzinkt safety pin, galvanised | 2,50 mm | 60 mm | 100 Stück/pcs |
| ③ | 1/37 C 62 | 2670 | Noniushänger-Unterteil, verzinkt nonius hanger lower part, galvanised | 1,25 mm | 122 mm | 100 Stück/pcs |
| ④ | DP 16 | 2106 | Trageprofil/Unterprofil, verzinkt primary runner/main runner, galvanised | 0,75 mm | 4.000 mm | 32 Meter |
| ⑤ | 1/104 | 2804 | Längsverbinder, verzinkt splice, galvanised | 0,50 mm | 110 mm | 100 Stück/pcs |
| ⑥ | WA 16 | 4503 | Wandanschlussshuh, verzinkt wall anchor, galvanised | 1,00 mm | 50 mm | 100 Stück/pcs |
| ⑦ | 1/22 A | 2609 | Kreuzschnellverbinder, verzinkt cross connector, galvanised | 1,00 mm | 64,5 mm | 100 Stück/pcs |
| ⑧ | DP 59 | 5196 | Hutprofil, verzinkt omega profile, galvanised | 0,60 mm | 5.000 mm | 50 Meter |
| | | 51949 | bandbeschichtet weiß ähnl. RAL 9010 coil coated white similar to RAL 9010 | | | |
| | | 5195 | bandbeschichtet schwarz ähnl. RAL 9011 coil coated black similar to RAL 9011 (Schnittkanten haben keine Farbe) (cut edges not painted) | | | |



| Pos. item | Bestell-Nr. order no. | Kennziffer code no. | Bezeichnung / Oberfläche description / surface coating | Materialdicke thickness | Länge length | Verp.-Einheit packing unit |
|--------------|--------------------------|------------------------|--|----------------------------|-----------------|-------------------------------|
| 9 | DP 37 L | | Wandwinkelprofil, bandbeschichtet weiß ähnl. RAL 9010 perimeter angle trim, coil coated white similar to RAL 9010 | | | |
| | | | Abmessungen / dimensions | | | |
| | | 21589 | 20x20 mm | 0,75 mm | 4.000 mm | 40 Meter |
| | | 21609 | 25x25 mm | 0,75 mm | 4.000 mm | 40 Meter |
| | | 21629 | 30x30 mm | 0,75 mm | 4.000 mm | 40 Meter |
| | | 21669 | 40x40 mm | 0,75 mm | 4.000 mm | 40 Meter |
| | | 21689 | 50x50 mm | 0,75 mm | 4.000 mm | 40 Meter |
| | | | bandbeschichtet schwarz ähnl. RAL 9011 coil coated black similar to RAL 9011 | | | |
| | | | Abmessungen / dimensions | | | |
| | | 2182 | 20x20 mm | 1,00 mm | 4.000 mm | 40 Meter |
| | 2184 | 25x25 mm | 1,00 mm | 4.000 mm | 40 Meter | |
| | 2186 | 30x30 mm | 1,00 mm | 4.000 mm | 40 Meter | |
| | 2190 | 40x40 mm | 1,00 mm | 4.000 mm | 40 Meter | |
| | 2192 | 50x50 mm | 1,00 mm | 4.000 mm | 40 Meter | |
| | | | (Schnittkanten haben keine Farbe) (cut edges not painted) | | | |
| 10 | DP 59 H | 5199 | Z-Abschlussprofil, verzinkt z-shaped perimeter profile, galvanised | 0,60 mm | 5.000 mm | 50 Meter |
| | | 51979 | bandbeschichtet weiß ähnl. RAL 9010 coil coated white similar to RAL 9010 | | | |
| | | 5198 | bandbeschichtet schwarz ähnl. RAL 9011 coil coated black similar to RAL 9011 (Schnittkanten haben keine Farbe) (cut edges not painted) | | | |
| 11 | 2/421 | | Befestigungsschraube mit Selbstbohrspitze, verzinkt self-drilling screw in pan head design, galvanised | | | |
| | | 3730 | | 3,50 mm | 9,50 mm | 1.000 Stück/pcs |
| | | 3732 | | 3,50 mm | 16,00 mm | 1.000 Stück/pcs |
| | | 3734 | | 3,50 mm | 25,00 mm | 1.000 Stück/pcs |
| | | 3736 | Kopf weiß lackiert screw head painted white | 3,50 mm | 16,00 mm | 1.000 Stück/pcs |
| | | 3735 | schwarz lackiert painted black | 3,50 mm | 16,00 mm | 1.000 Stück/pcs |

| | |
|---|-----------|
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Our Alpha Akustik sound absorption panels are protected as a German patent (DE 102 48 072) and as a European patent (EP 1 EP 1 411 179)!

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3D wall design

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

as of January 2022