

Room concepts  
made of natural  
wood for floors,  
walls & ceilings



## TRANSPORT AND STORAGE

Admonter Acoustic must be transported or stored in its original packaging, protected against moisture with plastic film on all sides.

Any complaints have to be submitted in writing immediately after delivery and before installation.

## PRIOR TO INSTALLATION

Planning and installation by qualified staff!

As the visible side, or face, of Admonter Acoustic consists entirely of solid wood, there naturally are differences in colour and texture. This is by design and does not constitute a valid reason for a complaint.

The acoustic elements have to be sorted by colour before installation to achieve the desired appearance. The configuration of the installation can have a direct effect on the appearance of the room. When the acoustic elements are installed in a matching colour, they give the room a homogeneous character. When light and dark elements are purposely mixed, a vibrant appearance is achieved.

### Climatic requirements:

The elements should be acclimatised before installation. It is important to ensure that all the elements come equally into contact with the room air. Ensure the correct room climate - see „Admont comfort diagram“ <https://admonter.com/downloads/>. The maximum permissible values are shown in **Tab. 1**.

The climatic values, especially the humidity, during installation should as far as possible correspond to the later prevailing average values.

Movement joints must be provided to walls and other fixed components. If climatic fluctuations and/or large room dimensions are to be expected, additional movement joints must be planned every 5m. These movement spaces must also be provided in the substructure. Functional joints in the building must be taken over in any case.

**Tab.1:** maximum climate ranges for Acoustics variants Premium, Linear and Dot.

| Climate range Acoustics  |          |          |              |
|--|----------|----------|--------------|
|  | Premium  | Linear   | Dot          |
| Room temperature   | 10-30 °C | 10-30 °C | 10-30 °C     |
|  |          |          | SWP/2 NS (*) |
| Humidity   | 25-65 %  | 25-65 %  | 25-80 %      |
| (*) Solid wood panel used as a non-load-bearing component in damp areas, if the constructive wood protection is observed it can also be used in weather-protected outdoor areas. |          |          |              |

In the case of long-term exposition to high humidity, the use of stainless steel fixing material is for example recommended. The use of Admonter Acoustics hat profile, system claw and profile claw is not permitted in corrosive or chlorinated environments.

Direct contact with metals on visible element parts must be avoided to prevent any possible chemical changes in colour.

**As the acoustic element is the top layer component of a non-structural suspended ceiling, additional loads such as lighting fixtures or furnishing objects must be attached to the underlying support structure with suitable mounting hardware.**

**Downlights may not exceed an operating temperature of 50 °C in continuous operation and must be installed according to the manufacturer's instructions.** Cavity damping may not be inserted in the area where the downlights are installed.

### Working with the Acoustic Elements:

A drilling jig should be used as far as possible when bore holes from 10 mm diameter are drilled.

When working with a hole saw or jigsaw, the slats need to be supported to prevent break-out (e.g. by inserting strips of slats in the slits).

Cut-outs using the jigsaw must be made from the back of the element.

Stick masking tape over the cutting line to avoid tear-out when making cuts close to the edge.

## CEILING INSTALLATION

### Substructure with sheet metal profile and hat profile (Acoustic Premium only):

**Fig. 1a and Fig. 2a** show the substructure made of galvanised sheet metal profiles according to EN 14195.

**Fig. 1a:** The supporting structure (CD 60/27 according to EN 14195) of the first substructure level has to be suspended from the raw slab with approved direct hangers/Nonius hangers. The hangers must be fixed to the raw slab with approved or standardised anchoring elements designed for the specific construction materials.

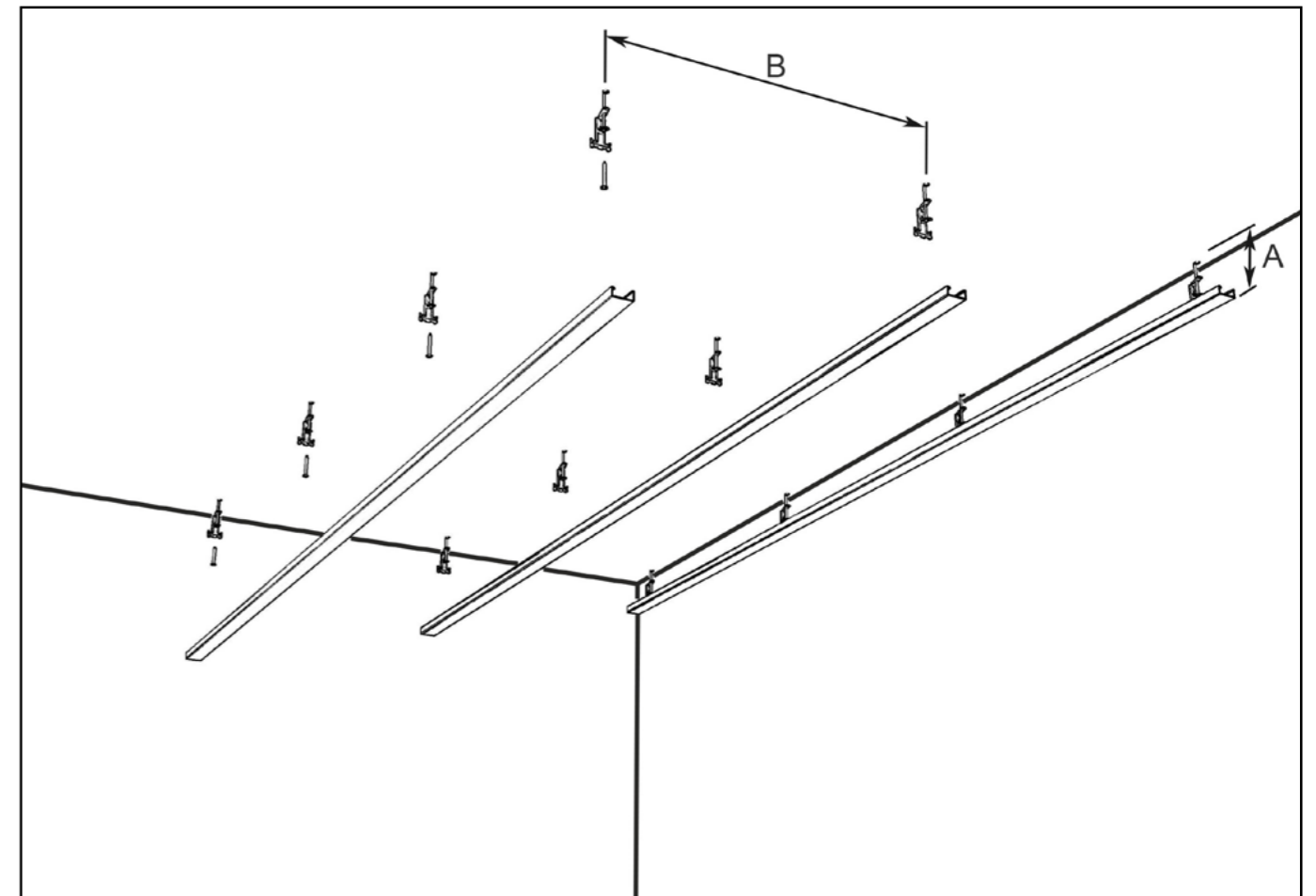
Suspension height (A) according to structural design example 2 or 3 in accordance with tender specifications or the respective requirements according to the specifications of expert acoustic designers.

Centre distance B of the first Substructure level: 850 mm

Design in accordance with ÖNORM B 3415:2009

**Fig. 2a:** Use the Admonter Acoustic top-hat profile (Item. No.: 104098) for the second substructure level. It is fastened at a 90 ° angle to the first substructure level with the approved fastening hardware. Two screws must be used for each crossing point of the two profiles (e.g.: drywall screws min. 4x20mm; see **Detail 2a**).

Centre distance C of the second substructure level: 500 mm



**Fig. 1a**

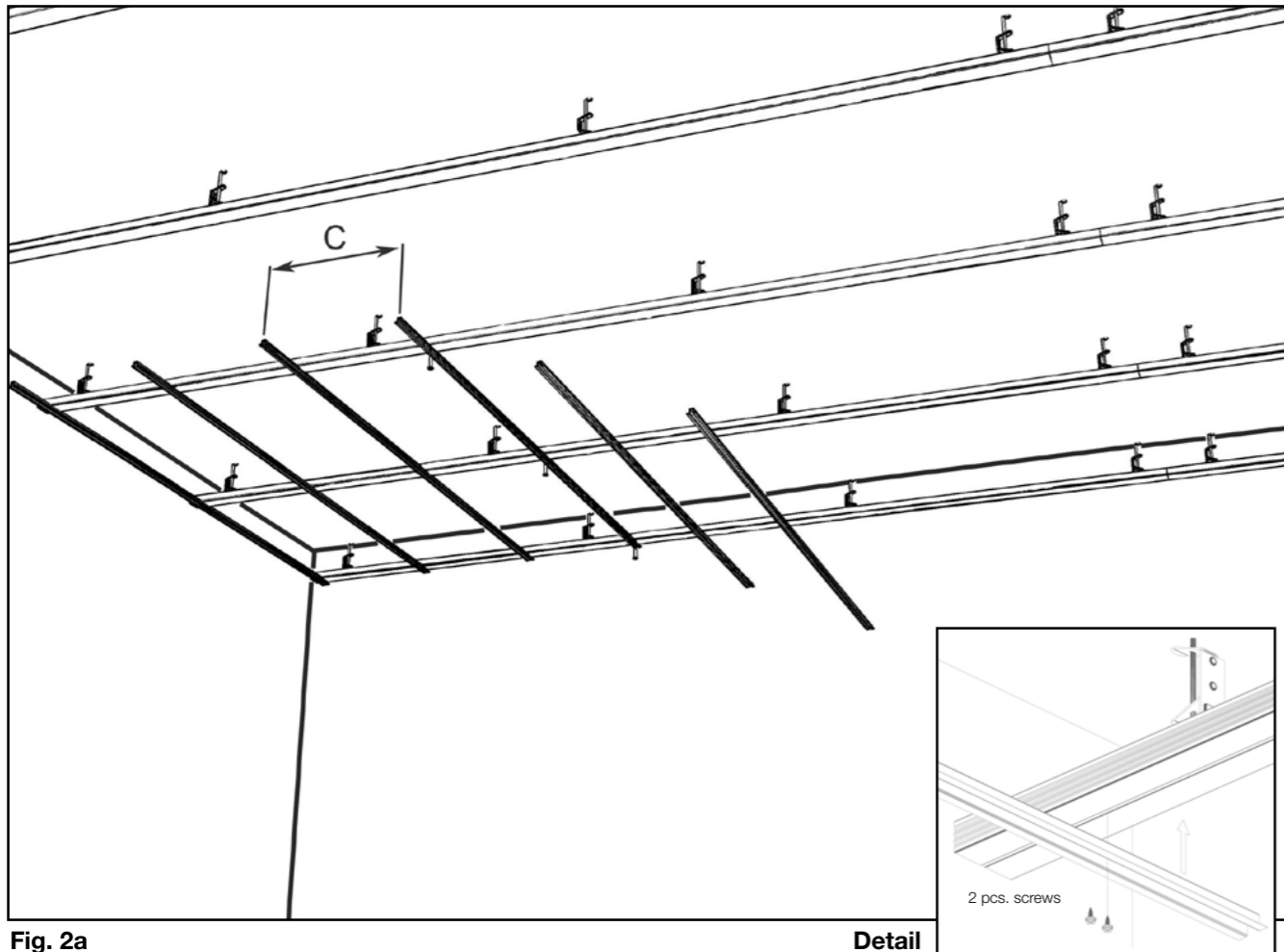


Fig. 2a

Detail

Substructure with wooden slats (all acoustics variants):

This variant can be used with all „ACOUSTICS“ products.

Fig. 1b and Fig. 2b show the substructure with wooden slats (grading class S10 or C24 according to ÖNORM DIN 4074-1:2004).

Fig. 1b: The support battens of the first substructure level have to be suspended from the raw slab with approved direct hangers/Nonius hangers. The hangers must be fixed to the raw slab with approved or standardised anchoring elements designed for the specific construction materials.

Suspension height A according to the structural design example installation 2 or installation 3 in accordance with tender specifications or the respective requirements according to the specifications of expert acoustic designers.

Design in accordance with ÖNORM B 3415:2009

Fig. 2b: Planed wooden slats have to be used for the second substructure level (grading class S10 and C24 according to ÖNORM DIN 4074-1:2004). It is fastened at a 90° angle to the first substructure level, or for the later alignment of the acoustic elements, with the approved fastening hardware <sup>1)</sup>.

Longitudinal joints have to be doubled up and bolted together.

Dimension: at least 27/50 (W/H) mm

Centre distance C of the second substructure level: 500 mm

A combination of installation options may be advantageous for complex layouts.

<sup>1)</sup> E.g.: „SPEED wood construction screw countersunk head 5.0x 90 TG TX25 galvanized-blue“, or equivalent.

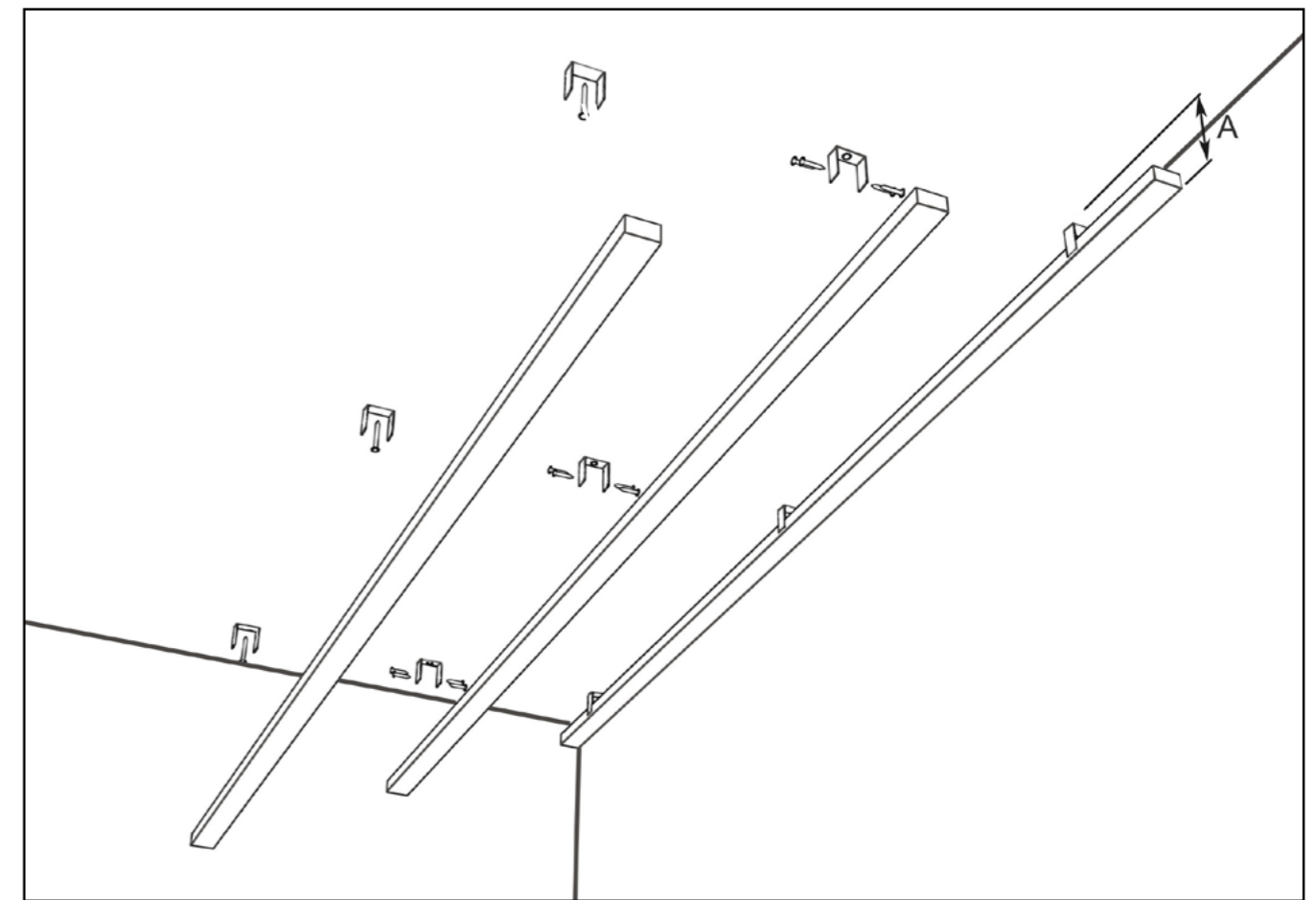


Fig. 1b

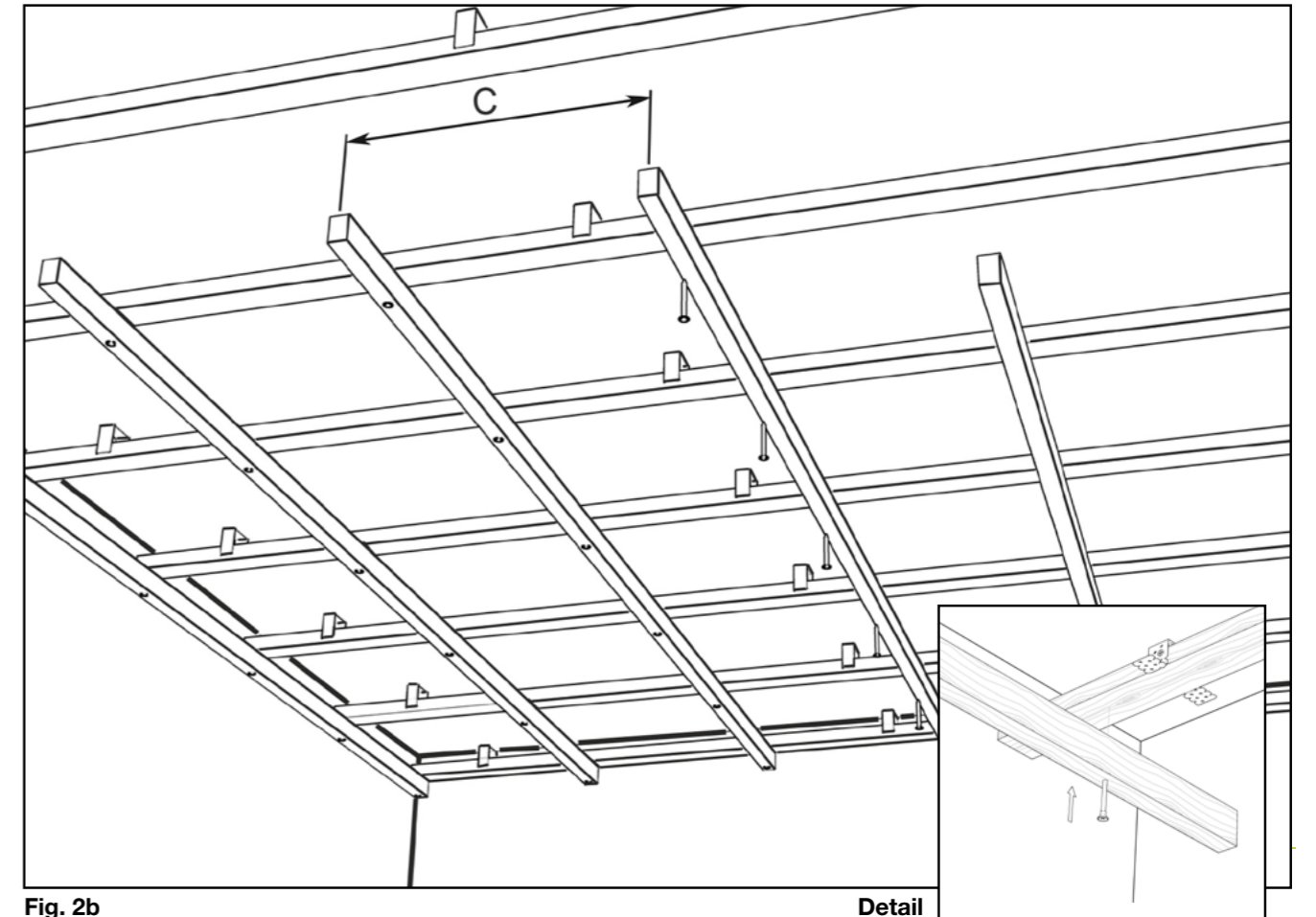


Fig. 2b

Detail

## INSTALLATION OF THE ACOUSTIC ELEMENTS

### General:

Cavity damping has to be inserted between the second (lower) substructure level (wooden slats or Admonter Acoustic top-hat profile) to improve the absorption properties.

According to the structural design example installation 2 or installation 3 in accordance with tender specifications or the respective requirements according to the specifications of expert acoustic designers, 50 mm thick rockwool slabs (gross density 35 - 40 kg/m<sup>3</sup>, as well as longitudinal flow resistance of  $\geq 6$  kPa·s/m<sup>2</sup>) are used for this purpose. (Rockwool Sonorock or Equivalent).

Installation of Acoustic Premium and Dot only with longitudinal and frontally inserted MDF tongues.

The off-cut section of the last element of a row can be used as the beginning of the next row, however the length must be at least twice the element width **E**. Offset face joints in the configuration by at least two element widths **E** (see **Fig. 4b**).

The first row of the acoustic elements must be perfectly aligned and wedged against the wall to prevent the elements from inadvertently shifting!

Depending on the room size, a distance of at least 5 mm to walls and other fixed components must be maintained on all sides; if higher humidity levels are expected, at least 10 mm is required - see chapter „Climatic requirements“.

**Fig. 3a** shows the wall connection bracket mounted deeper by the thickness **S** of the acoustic element. Alternatively, a shadow gap can also be used for the end finish to the wall. Applies to all Acoustic variants.

### Installation on top-hat profile (only for Premium):

**Fig. 4a** shows the installation of the acoustic elements with the Admonter Acoustic fastening system.

Concealed, tool-free fastening of the acoustic elements with Admonter Acoustic system clips on the Admonter Acoustic top-hat profile. With „ACOUSTICS Premium“, concealed, tool-free fastening of the acoustic elements is achieved with the system claws provided for this purpose (Item. No.: 101030) on the Admonter Acoustic hat profile. (Item. No.: 104098)

### Installation on slats:

Acoustic Dot and Acoustic Linear are installed using 6 mm profile claws (Item No.: 101491) directly on the wooden battens. The profile claws are fastened using approved fastening material <sup>2)</sup>. **Fig. 3b Detail 1** shows installation with the profile claw. Acoustic Premium is installed on the wooden slats using system claws (Item. No.: 101030) and approved fastening material, or installed directly.

**Fig. 3b Detail 2** shows the direct fastening. In this type of installation the acoustic elements are fastened with commercially available brad nails or staples <sup>3)</sup> through the MDF tongue. Particularly important is the correct setting of the insertion depth or the air pressure so as not to drive the staples or brads right through the tongue.

<sup>2)</sup> E.g.: „REVOTOOL staples type K5562 50 mm steel wire galvanized and resin-coated“ or „HECO-TOPIX-PLUS wood construction screw countersunk head 3.5x 25 VVG HD20 galvanized“, or equivalent.

<sup>3)</sup> E.g.: „REVOTOOL staples type K5562 50 mm steel wire galvanized and resin-coated“.

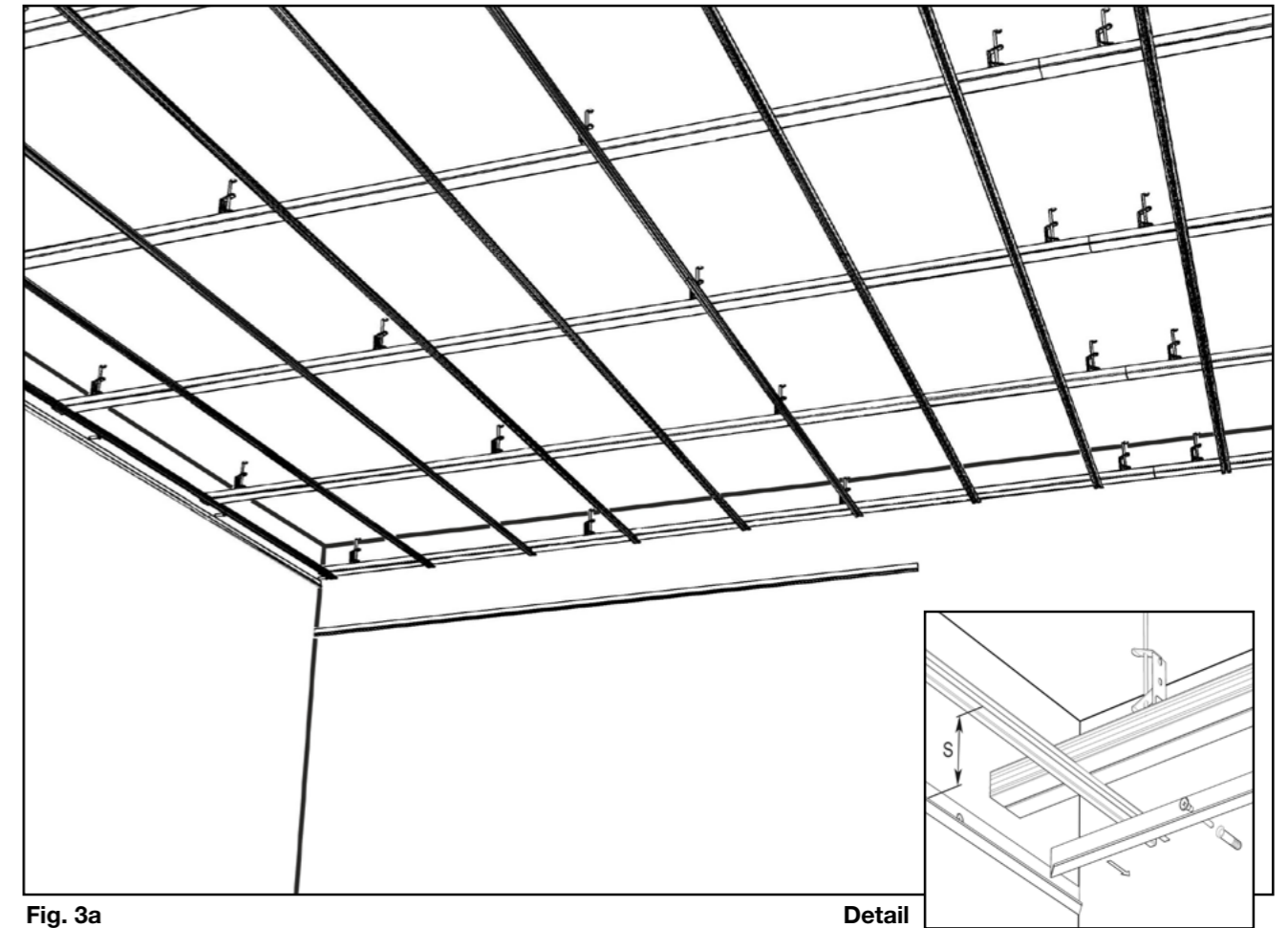


Fig. 3a

Detail

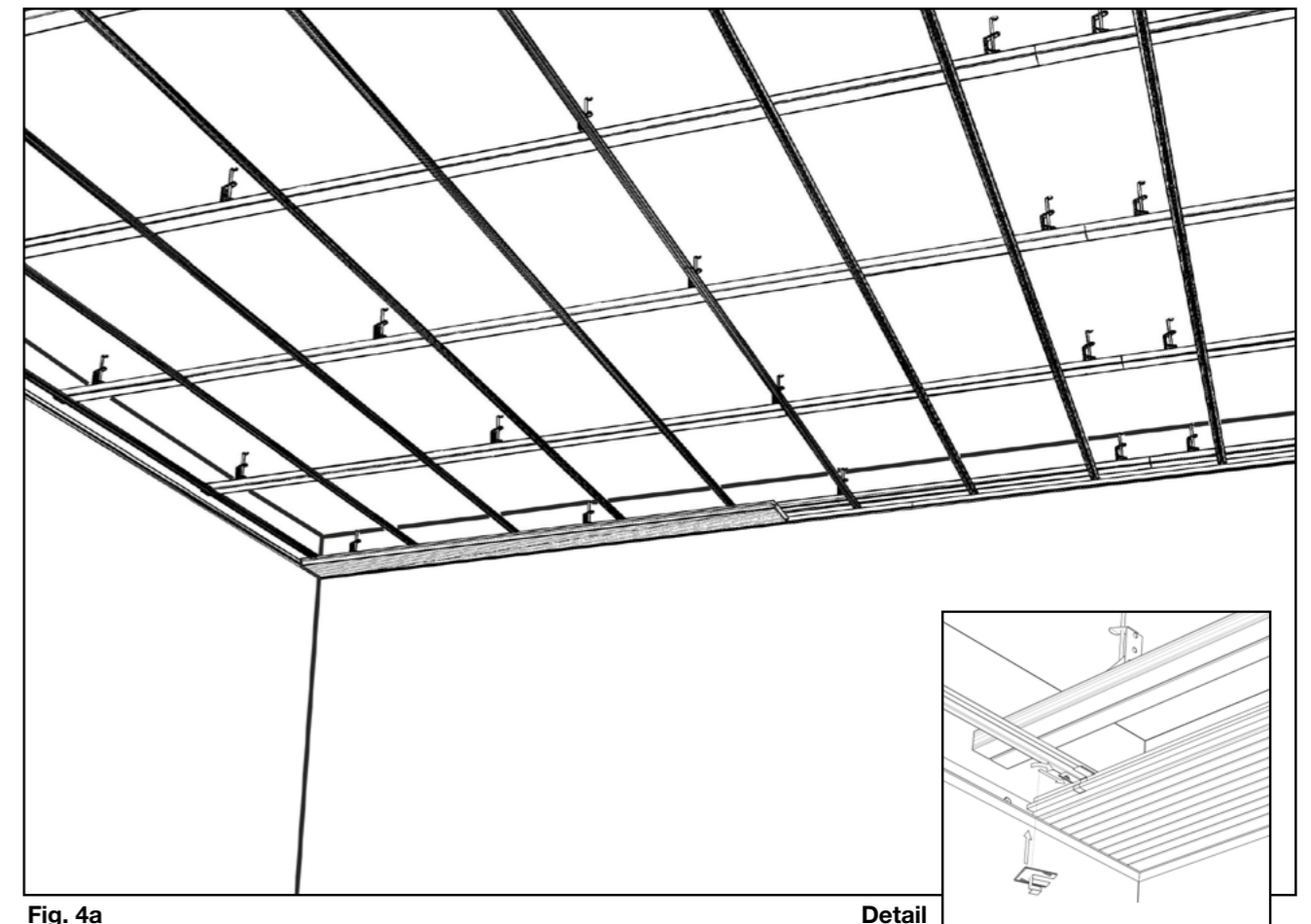


Fig. 4a

Detail

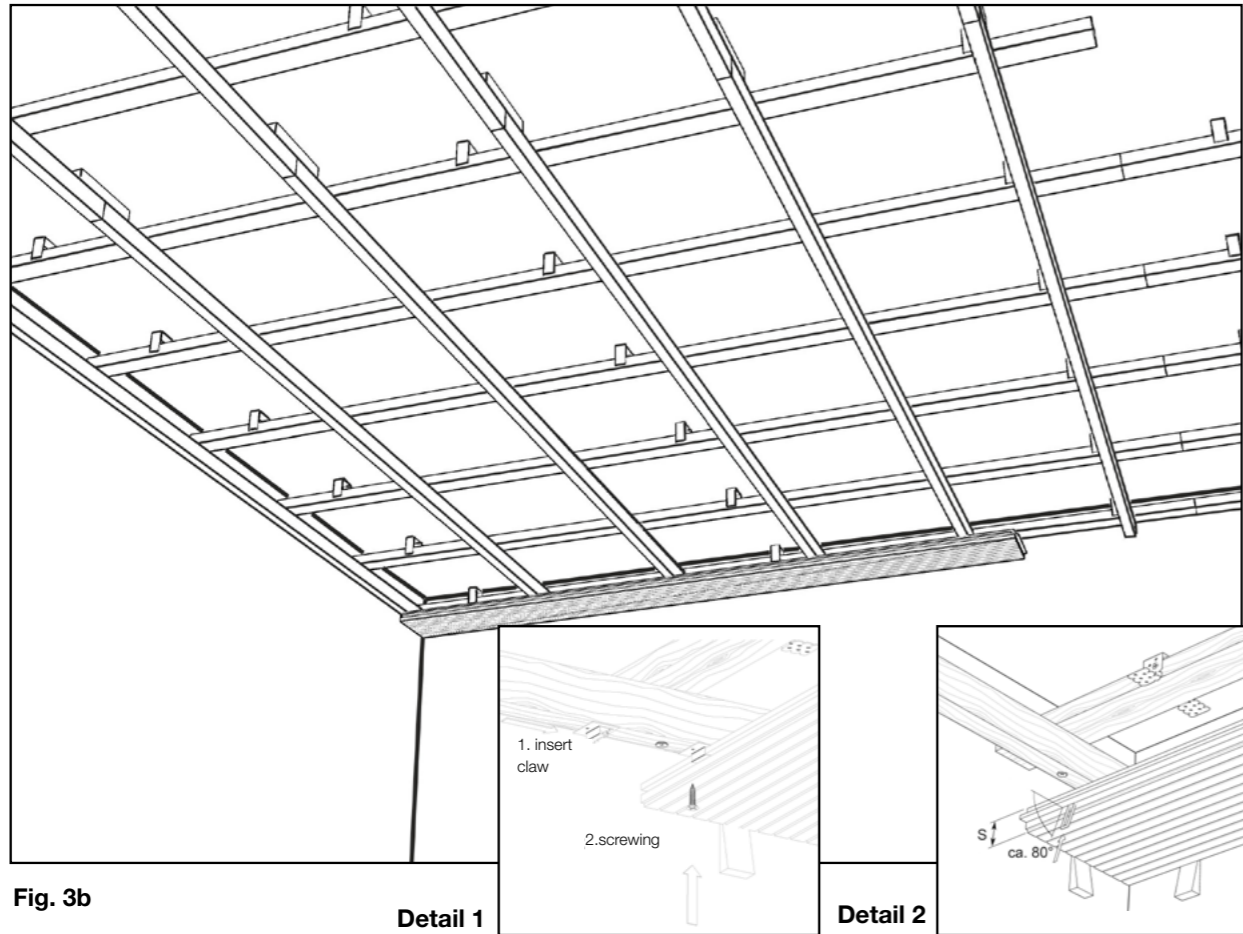


Fig. 3b

Detail 1

Detail 2

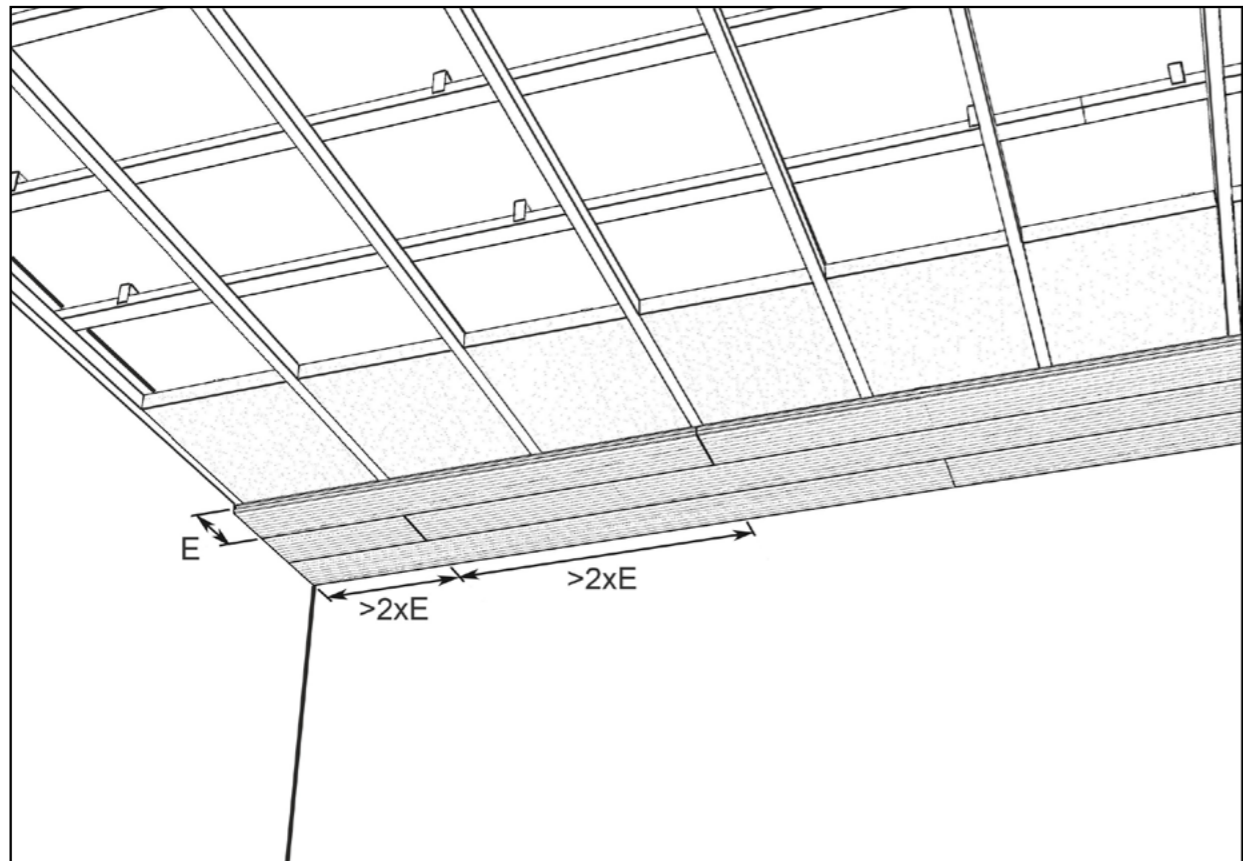


Fig. 4b

## END FINISH OPTIONS

Design examples according to tender specifications.

## WALL MOUNTING

### General:

Basic structural details such as mounting on outside walls only with rear ventilation, no direct contact with the ground (moisture during cleaning) must be taken into account when the acoustic elements are installed.

It may be advisable to increase the requirements to the substructure (reduced centre distance) in the active working area of chair backs or similar objects.

### Ball-throwing safety:

The Acoustic Dot product is tested according to DIN 18032-3:2018 for ball impact resistance.

Substructure - wooden battens min. 57 x 33 (WxH) mm, center distance 500 mm. End joints of the elements must be made in the area of the battens underneath.

The Acoustic Premium product has been tested for ball impact resistance in accordance with EN 13964:2014, Annex D, Class 2A, handball against ceiling.

## Substructure

Fig. 1c and Fig.2c show the substructure with wooden slats (grading class S10 or C24 according to ÖNORM DIN 4074-1:2004).

Fig. 1c: The support battens of the first substructure level must be fastened with approved or standardised anchoring elements designed for the specific construction materials.

The installation height **A** (installation 2 or installation 3 in accordance with tender specifications) has to meet the respective requirements according to the specifications of expert acoustic designers by installing several substructure levels or by double-layering.

Fig. 2c: Appropriately sized, planed wooden slats (min. 27 / 50 mm upright) should be used for the last substructure level (mounting slats). It is fastened at a 90° angle for the later alignment of the acoustic elements with the approved fastening hardware <sup>4)</sup>. Longitudinal joints have to be doubled up and bolted together.

Centre distance **D** of the mounting slats: 500 mm (except Fig. 4c for increased substructure requirements).

Cavity damping has to be inserted between the last substructure level (mounting slats) to improve the absorption properties. According to installation 2 or installation 3 or according to the specifications of expert acoustic designers, 50 mm thick rockwool slabs (gross density 35 - 40 kg/m<sup>3</sup>, as well as longitudinal flow resistance of  $\geq 6$  kPa·s/m<sup>2</sup>) are used for this purpose. (Rockwool Sonorock or Equivalent).

To prevent the cavity damping from collapsing and to ensure that the cavity damping lies against the acoustic element, a tautly stretched textile glass mesh (mesh width: at the smallest 4 x 4 mm), for example, must be fastened to the mounting slats before installation of the mounting slats.

<sup>4)</sup> E.g.: „SPEED wood construction screw countersunk head 5.0x 90 TG TX25 galvanized-blue“, or equivalent.

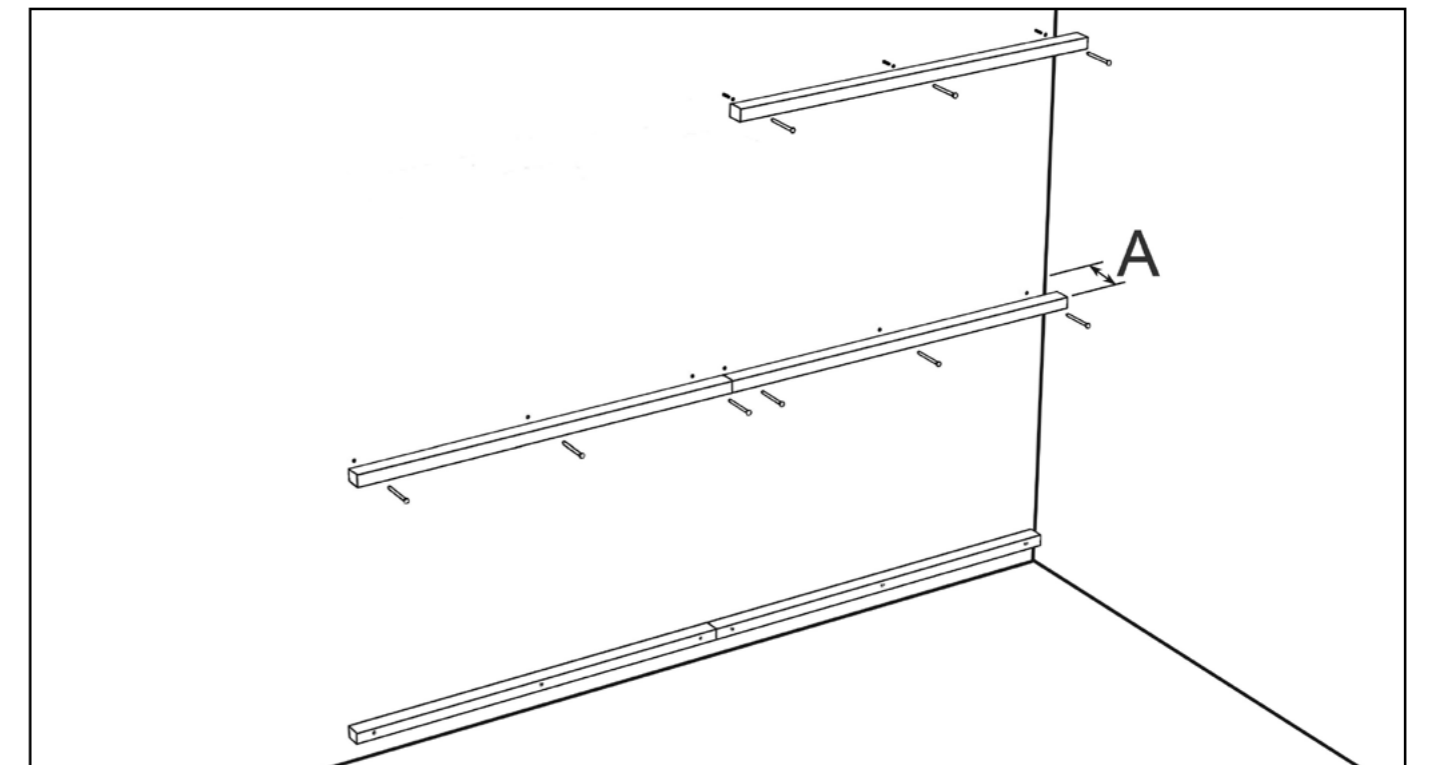


Fig. 1c

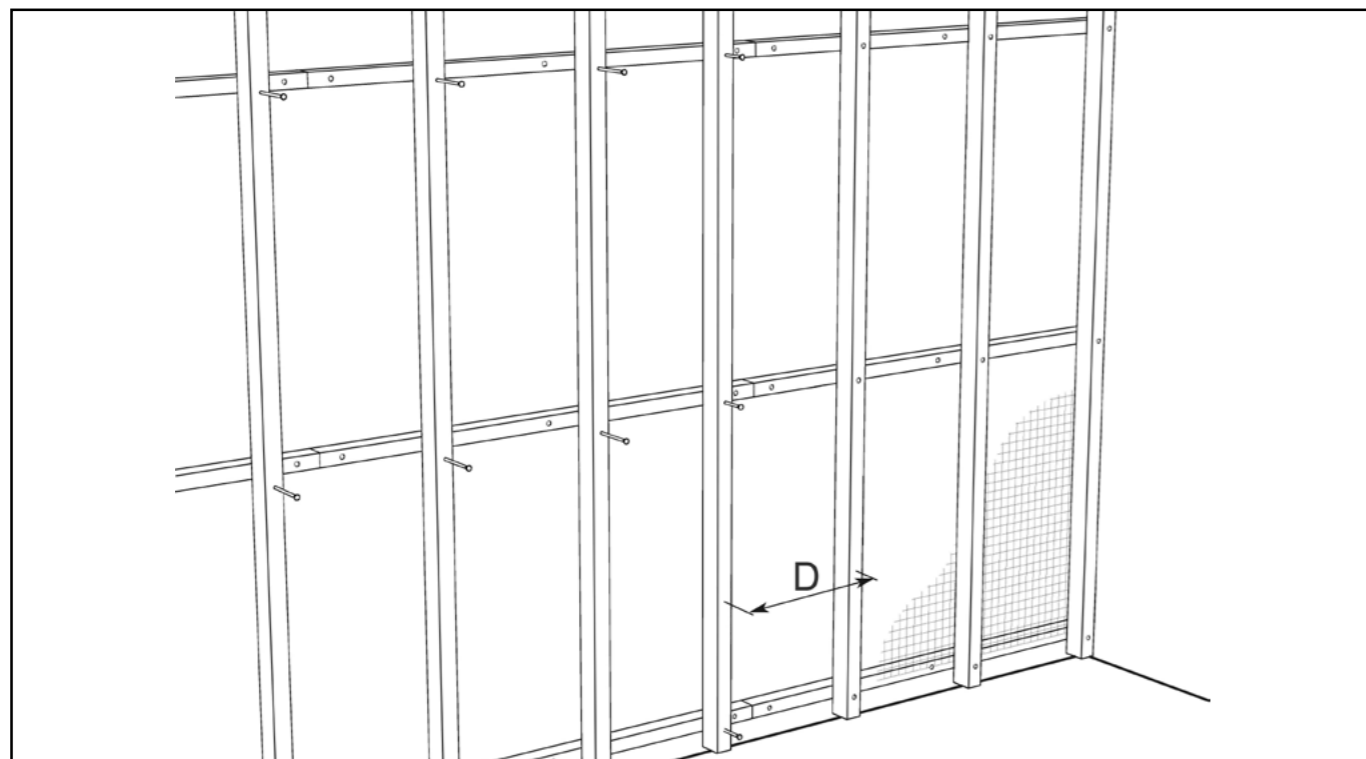


Fig. 2c

Details



## INSTALLATION OF THE ACOUSTIC ELEMENTS

Installation only with longitudinal and frontally inserted MDF tongues. The off-cut section of the last element of a row can be used as the beginning of the next row, the length must, however be at least twice the element width **E**. Offset face joints in the configuration by at least two element widths **E**. The first row of the acoustic elements must be perfectly aligned and wedged against the wall to prevent the elements from inadvertently shifting! Depending on the room size, a distance of at least 5 mm to walls and other fixed components must be maintained on all sides; if higher humidity levels are expected, at least 10 mm is required - see chapter „Climatic requirements“.

Fig. 3c: shows the installation of the acoustic elements.

To protect the acoustic elements from exposure to moisture, e.g. during cleaning, a suitable on-site connection has to be used or the floor profile installed. **Direct contact with the ground is not permitted under any circumstances!**

The wall connection bracket is mounted to the wall with suitable fasteners offset by the thickness **S** of the acoustic element. Alternatively, a shadow gap can also be used for the end finish to the wall.

The acoustic elements are fastened with commercially available brad nails or staples <sup>5)</sup> directly through the MDF tongue. Particularly important is the correct setting of the insertion depth or the air pressure so as not to drive the staples or brads right through the tongue. Acoustic Dot and Linear are mounted using the 6 mm profile claws (Item No.: 101491). Approved fasteners must be used for the profile claw <sup>6)</sup>.

<sup>5)</sup> E.g.: „REVOTOOL staples type K5562 50 mm steel wire galvanized and resin-coated or equivalent“

<sup>6)</sup> E.g.: „REVOTOOL staples type K5562 50 mm steel wire galvanized and resin-coated“ or „HECO-TOPIX-PLUS wood construction screw countersunk head 3.5x 25 VVG HD20 galvanized“, or equivalent.

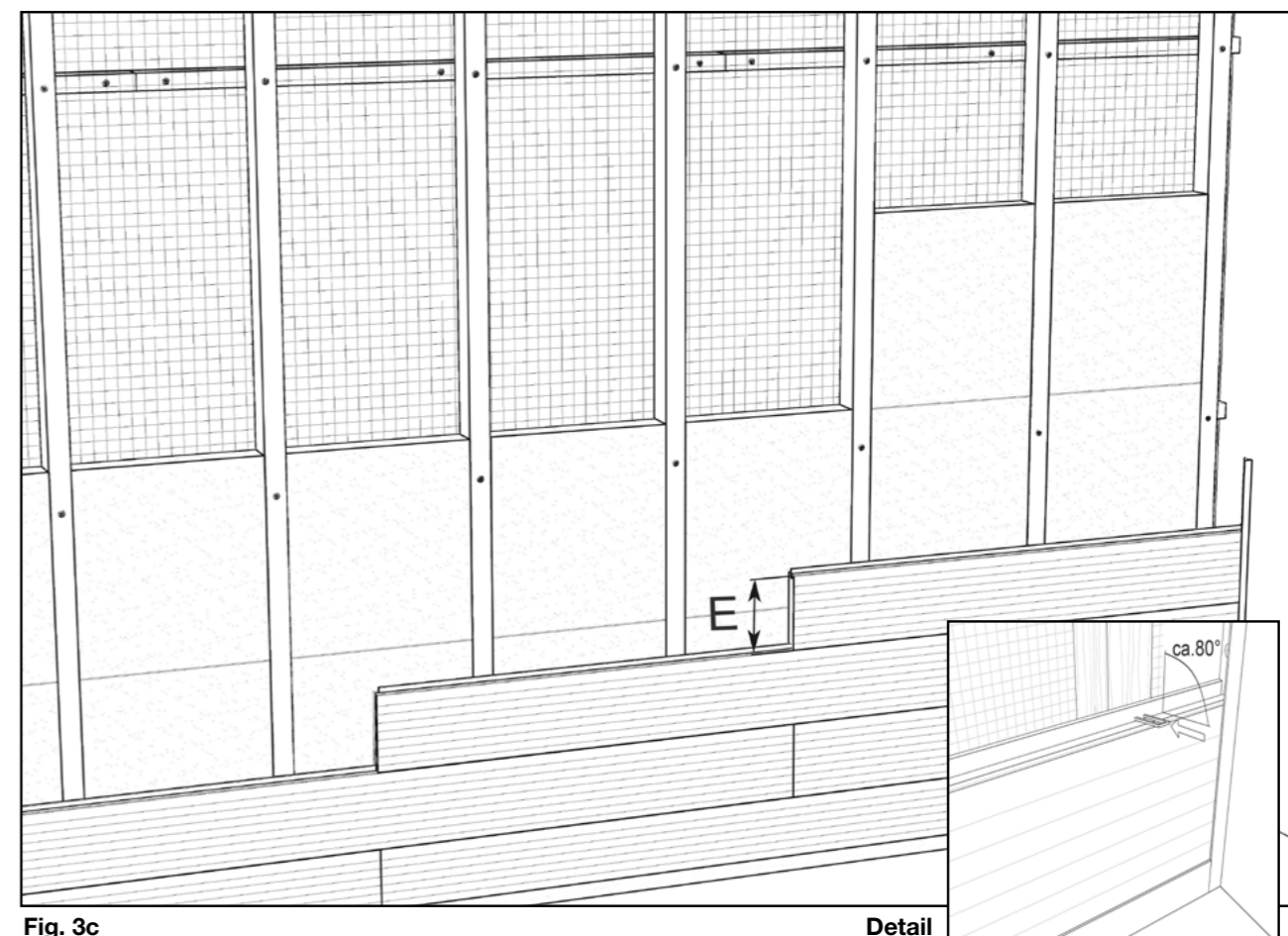


Fig. 3c

Detail

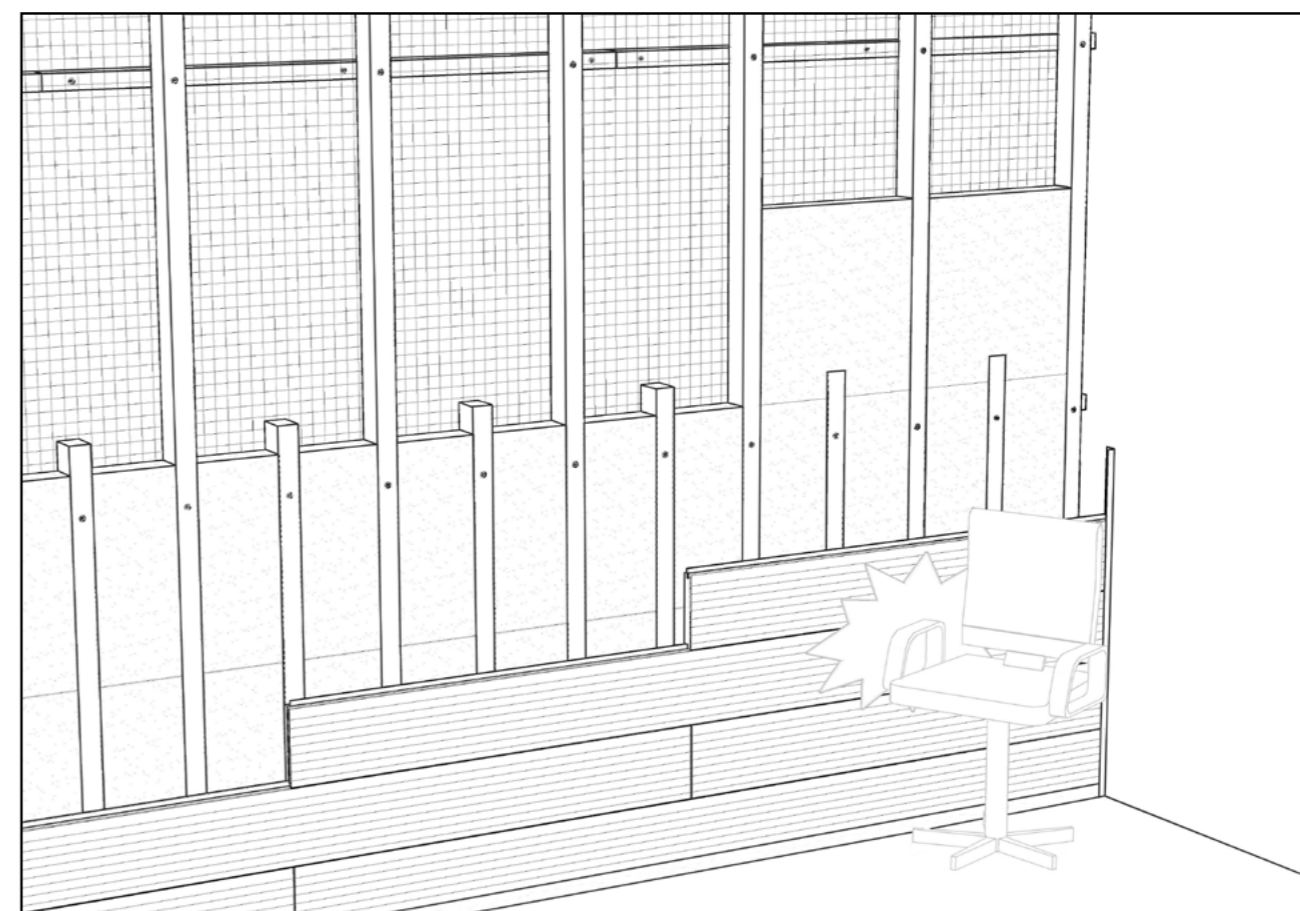


Fig. 4c

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More information at:

<https://admonter.com/de/verlegung-verarbeitung/>

<http://service.admonter.at>

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