Installation Manual

pages 1 – 3  Important Information for installation
pages 4 – 12  Planks for walls and ceilings
pages 13 – 17  Removable ceilings
pages 18  Sixty panels / ceilings

Please read before starting installation

ISSUE 2011
Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1.0.1</td>
</tr>
<tr>
<td>Veneered planks, sorting, transverse joints, humid rooms</td>
<td>2.0.1</td>
</tr>
<tr>
<td>Fixation of planks with nail gun</td>
<td>2.0.2</td>
</tr>
<tr>
<td>Fixation with n'H nail gun, start- end planks, panels, sports halls and humid rooms</td>
<td>2.0.3</td>
</tr>
<tr>
<td>Cut-outs and wall connections</td>
<td>2.0.4</td>
</tr>
<tr>
<td>Cut-outs with router or shadow joint cutter</td>
<td>2.0.5</td>
</tr>
<tr>
<td>Access panels with rotary latch</td>
<td>2.0.6</td>
</tr>
<tr>
<td>Access panels inserted</td>
<td>2.0.7</td>
</tr>
<tr>
<td>Important information for installation (yellow page)</td>
<td>3.0.1–3.0.2</td>
</tr>
<tr>
<td>TOPAKUSTIK® W1 System with slatted grid</td>
<td>4.0.1</td>
</tr>
<tr>
<td>TOPAKUSTIK® W2 System with counter grid</td>
<td>5.0.1</td>
</tr>
<tr>
<td>TOPAKUSTIK® H1 System with metal grid</td>
<td>6.0.1</td>
</tr>
<tr>
<td>TOPAKUSTIK® H2 System with metal grid</td>
<td>7.0.1–7.0.2</td>
</tr>
<tr>
<td>TOPAKUSTIK® T1 System, with metal grid</td>
<td>8.0.1–8.0.2</td>
</tr>
<tr>
<td>Miscellaneous / notes</td>
<td>8.0.3</td>
</tr>
<tr>
<td>TOPAKUSTIK® H3 System, ceiling panels with metal and CD grid and finishing edges</td>
<td>9.0.1–9.0.2</td>
</tr>
<tr>
<td>TOPAKUSTIK® H4 System, ceiling panels with metal grid and finishing edges</td>
<td>10.0.1–10.0.2</td>
</tr>
<tr>
<td>TOPAKUSTIK® H5 System, wall covering with metal grid, horizontal grooves and end edges</td>
<td>11.0.1–11.0.2</td>
</tr>
<tr>
<td>TOPAKUSTIK® H6 System, wall covering with metal grid, vertical grooves and end edges</td>
<td>12.0.1–12.0.2</td>
</tr>
<tr>
<td>TOPAKUSTIK® / TOPPERFO® Z1 System</td>
<td>13.0.1–13.0.3</td>
</tr>
<tr>
<td>TOPAKUSTIK® / TOPPERFO® Z2 System</td>
<td>14.0.1</td>
</tr>
<tr>
<td>TOPAKUSTIK® / TOPPERFO® G1 System</td>
<td>15.0.1–15.0.3</td>
</tr>
<tr>
<td>TOPAKUSTIK® / TOPPERFO® G2 System</td>
<td>16.0.1</td>
</tr>
<tr>
<td>TOPAKUSTIK® / TOPPERFO® S11 System</td>
<td>17.0.1</td>
</tr>
<tr>
<td>TOPAKUSTIK® / TOPPERFO® S12 System</td>
<td>18.0.1</td>
</tr>
</tbody>
</table>
1. Introduction

Information on new TOPAKUSTIK® INSTALLATION MANUAL 04/2010

This installation manual replaces all previous installation documents. The information is valid for installers and designers of ceiling- and wall coverings. The ceiling systems are treated as complete kits, substructure and acoustic covering.

1.1 Validity – and field of application

This installation manual is valid as an application guideline and does not represent a complete reference to existing standards or codes. Descriptions and details refer only to TOPAKUSTIK® products. It defines dimensions, limiting dimensions and design requirements for ceilings in interior areas. The user is obliged to maintain all due project related requirements as well as respective valid standard requirements.

This installation manual, however, has no validity for the following applications:

- Accessible ceilings and their supporting structure
- Ceilings with specific requirements regarding corrosion behaviour
- Ceilings with dynamic and/or static load effects (swimming pools, underground stations etc.)

Additional Loads:
The installation of additional loads is not foreseen in the systems documented here. The substructure is to be attached by appropriate means to structural components. Additional loads (lights, ventilation elements among other things) are to be attached separately whenever possible. The substructure as well as the top layer must not be walked on. For special applications, a reinforcement of the system construction is feasible for additional loads. The direct consultation of n’H Akustik + Design AG (TOPAKUSTIK) is a mandatory pre-requisite for this. The determination of corresponding additional loads and their definition in writing shall be done by the customer. For all types of installations, the regulations documented here are to be observed.

All details and technical information in this manual or other publications referring to TOPAKUSTIK® Products are based on test results obtained under typical conditions.

1.2 Obligation

We urgently recommend you to read and respect the yellow pages p. 3.01 and 3.02 before installation.

Technical changes without prior notification in the sense of further development are reserved at any time.
Furnierte Lamellen sortieren - Querfugen - Feuchträume  

**Veneers**

TOPAKUSTIK®-products are manufactured with selected veneers. Every veneer log has different natural features (growth and color, among other things). We recommend sorting the TOPAKUSTIK®-elements before installation.

**Laying options**

Divide transverse laths in such a way that under every groove a lath is placed for fixation.

**Transverse grooves**

TOPAKUSTIK®-planks are available in various lengths (See brochure).

At transverse joints, we recommend allowing a gap of 3-4 mm to absorb any changes in the length due to room humidity fluctuations.

**Parallel transverse grooves (Pic. 1 and 3)**

TOPAKUSTIK®-planks have to be trimmed to length and installed in air-conditioned condition (see page 3.0.1) with router-or shadow joint cutter. Differences in measurements can occur before installation through change of room humidity at storage place or installation area.

**Open wall connection (for humid rooms)**

Important for humid rooms
- Air ventilation required
- Use special carrier plate
- Use approved substructure
- Observe shrinkage und swelling when forming joints

When installing planks with difficult surfaces or strong sweating hands, we recommend to wear gloves when performing the installation (Pic. 5).
Fixation

The tongue and groove joint is machined very precisely, therefore push the plank together only by hand. In case the groove does not close neatly, check the joint for obstructive staples or residues!

Information

TOPAKUSTIK®-planks, width 128 mm, can be fixed by standard available devices according to pic. 8, 9, + 11 on the groove side. Staple length min. 29 mm.

⚠️ Adjust air pressure correctly, i.e. countersink staples completely, without breaking through the groove profile according to Pic. 9.

For this installation use the standard foot according to Pic.11.

Standard installation of planks

Staples are shot into the groove.
Installation through the grooves

The installation, according to Pic. 12 + 13, is only recommended for start-end planks and panels. At high strain (swimming pools and outside areas) the planks must be fixed in the middle additionally through the grooves.

Sports halls

When installing planks in sports halls, they have to be fixed, acc. to Pic. 8+12, in the groove and additionally in the middle of the plank with staples or according to pic.14 twice into the grooves. Staple length 29mm

⚠️ When installing through the grooves, the lower part of the «Special foot» is not guided on the side thus the striking pin is exposed to strong wear. This can mean that the staples are no longer completely countersunk i.e. replace the special foot.

TOPAKUSTIK®-Panels

TOPAKUSTIK®-panels can be fixed with the TOPAKUSTIK®-nail gun with «Special foot» through the grooves according to Pic. 15-17. Distance between the staples for normal ceilings approx. 250mm, in sports halls max. 100mm

For the installation according to Pic. 12 – 17 the «special foot» in Pic 18 is recommended.
Cut-out and wall connections

Machining

Drill holes
• Drill with applied stencil
• When drilling into installed ceiling, fix stencil with pins into the grooves
• For TOPAKUSTIK®-types with fine ribs, tape down the visible surfaces and drill carefully so that the ribs do not break. (Use test piece)

Cut-outs before installation
• Using a jig saw from the reverse side of the element delivers a neat cut.

Cut-out and wall connections

Drill holes
• Drill with applied stencil
• When drilling into installed ceiling, fix stencil with pins into the grooves
• For TOPAKUSTIK®-types with fine ribs, tape down the visible surfaces and drill carefully so that the ribs do not break. (Use test piece)

Cut-outs before installation
• Using a jig saw from the reverse side of the element delivers a neat cut.

Shadow joint alongside
• Plane the plank with hand plane to ready width.

Cut shadow joint (Pic. 23)
• Use sharp tool
• If necessary, drive (left) backwards
• Protect wall
• Pre-cut room corners with jig-saw
• Tears on the element edges can be avoided by using tape on the cutting edges

Cut-out and wall connections

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• Use sharp tool
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• Pre-cut room corners with jig-saw
• Tears on the element edges can be avoided by using tape on the cutting edges
Angular cut-out with shadow joint cutter  (Pic. 26)

- Produce stencil with cut-out size.
- Take care when fixing the stencil on the groove, that it does not shift.
- For types with fine ribs, stick covering tape onto cutting surface so that the ribs do not brake.
- When starting the cut-out, carefully position the milling cutter .
- Trim the cut-outs in the corners with a jig saw from the rear side.
Access panel for A-System

- Open and shut the access panel with rotary latch according to Pic. 30, 31 + 32
- Open and shut with allen wrench between the grooves, key Ø 3 mm
- For 2 mm width grooves a hole of Ø 3 mm has to be drilled.

Open access panel downward (With latch set)

Latch Set

<table>
<thead>
<tr>
<th>Latch set</th>
<th>2.24.6001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotary latch</td>
<td>1 Pc.</td>
</tr>
<tr>
<td>Lock plate</td>
<td>1 Pc.</td>
</tr>
<tr>
<td>Screws</td>
<td>5 Pcs.</td>
</tr>
<tr>
<td>Cords with ring screws</td>
<td>2 Pcs.</td>
</tr>
</tbody>
</table>

Access panel with rotary latch

closed

open
Access panel inserted

Access panel for A-System opening upwards

Access panel for H-System made of L-profiles
Opening upwards

Design to lift and insert
- Produced out of 3, 4 or 5 planks
- Nail down 2 slats from front through the grooves to the rear side
- Cut access panel to exact length
- Cut off tongue alongside edge
- Install cord with ring screws

Design with H-profiles to lift and insert
Insert
- Produced out of 3, 4 or 5 planks
- Fix 2 steel angles to the rear side with special screws
- Cut access panel to exact length
- Cut off tongue alongside edge
- Fix cord to H-profile and steel angles
- (snap hooks)
Please read carefully before starting installation!

Storage at building site
- TOPAKUSTIK-elements in general have to be protected against humidity and have to be stored absolutely dry.
- Store elements lying flat on dry wood or pallets.
- Protect elements on all sides with plastic foil against humidity.
- Please observe especially in new building the dampness coming from the concrete floor!

Acclimatise
- The elements are to be acclimatised inside the installation room 3-4 days before installation. Take care that all elements are exposed evenly to the room air.

Veneered elements made of natural wood
- Veneered elements made of natural wood are to be sorted with regard to wood structure and colour before installation.

Stiffeners
Removable ceiling covers with TOPAKUSTIK-panels must be stiffened on the back in order to ensure flatness of the elements over time.
This for the following reason:
- The bending caused by the panel own weight can be «still acceptable» at installation.
- The bending increases over time caused by fatigue of the material.
- Different climatic conditions in the installation room and in cavities lead to an uneven shrinking and swelling and deformation of panels is promoted.

Cleaning
- With damp cloth and mild cleaning detergent.
- Eraser for pencil lines.

Liability
Please observe in general the specific characteristic of the wood material. Damages or faults, which have an impact on the processing or are caused by an overloading of the TOPAKUSTIK-Elements, exclude claims against us.

Complaints
All complaints are to be announced immediately after delivery and before start of installation by fax.

Further development
Technical changes as well as further developments are reserved

Shrinkage and swelling (Expansions and Contraction)
In the standard design, the TOPAKUSTIK-elements are made from MDF (medium density fibreboard). These panels are processed with a moisture content of 8-10%.

According to Standard DIN 68750/66754 resp. SIA 164/1 wood material shall be installed as follows:
- Air moisture min. 35% - max. 60%
- Room temperature min. 18°C - max. 30°C
= absolute air moisture 5,5 g/m³ 18 g/m³
= resulting wood moisture of 7% 10,5%

Considering these standards one has to expect a material-dilatation of 1,5 mm in 1000 mm. (10,5% - 7% = 3,5% x 0,04% Swelling measure per 1% change)

Therefore TOPAKUSTIK-elements shall be separated with gaps of 3-6 mm corresponding to the element size. Separating the single elements by less than 3-6 mm can lead to:
- at increasing room moisture = closing of gaps and the elements can deform concave or convex
- at sinking room moisture = the gaps become wider.
TOPAKUSTIK - planks are fully jointed systematically in width. Installation at high humidity can lead to a slight opening of the plank joints under dry conditions. In this case the planks have to be separated by 0.5 mm. For swimming pools the planks can be equipped with a special dilatation profile in the factory. The installation under too dry conditions (winter) can lead to a slight deformation (concave/convex) of the planks when reaching high (probably normal) air moisture.

**Rule of thumb:** The installation shall occur under a balanced room climate how as it is to be expected during operational phase.

**Production Tolerances**

**Planks:** The TOPAKUSTIK-plank is delivered with a standard clean angular cut. The length tolerance is +/- 2 mm on the total length. If requested, the planks can be trimmed to fixed measure (Tolerance +/- 0.25 mm per m², only recommended for plank length up to approx. 2 m > material dilatations)

**Panels:** TOPAKUSTIK-panels are produced accurately on computer controlled machines in the factory (Tolerance +/- 0.25 mm per m²).

The TOPAKUSTIK-elements leave the production with above listed (small) measure tolerances. Depending on the type, the surface is increased two to three times by grooving and perforation of the TOPAKUSTIK-elements. TOPAKUSTIK reacts to changing room humidity at installation site very fast with changes in measures (> shrinkage and swelling) (>acclimatisation). S.3.0.1
**W1-System**

**TOPAKUSTIK W1-System with slatted grid**

Cut-off tongue at starting plank, balance all build tolerances (Curvatures and others.)

Double alongside joints, Glue and screw

**Wall connection**

**A**

Installation on transverse wood lath (wood moisture max. 10%)

Substructure:

TOPAKUSTIK®-plank (without increased fire resistance requirement) are fixed on perfectly installed transverse wood battens made from planed, dry spruce tree laths 60/30 mm.

For installation of the wood battens with Nonius suspension (suspension positioned offset left and right of batten). Suspension distance 800 mm, TOPAKUSTIK®-element joints positioned on transverse battens.

Please observe shrink-/swell behaviour (see «Important Information» Page 3.0.1 and 3.0.2).
W2-System

TOPAKUSTIK W2-System with counter grid

Cut-off tongue at starting planks balance all build tolerances (Curvatures and others.)

Wall connection

A

B

min. 8

16/17

30

30

max. 900

~ 650

bottom spacing

with Wednesday

1/130

1/14

1/37
Wall connection

Installation with metal substructure and rotary clips

TOPAKUSTIK®-planks (Width 128 mm) are on the quick-build rails with rotary clips. Installation of the quick-build rails with Nonius suspensions, distance 800 mm. Please observe the shrink/swell behaviour of the TOPAKUSTIK®-plank. At every second plank row the rotary clip has to be fixed with a pop rivet to the quick build rivet. Nail start- and end plank to the wall connection rail.

The following listed accessories can be obtained from us.

- H-rails 18x26mm in 3000 mm length
- Nonius-subpart (Unit. = 100 pc)
- Connector to H-rails (Unit. = 20 pc)
- Rotary clips (Unit. = 100 pc)
H2-System

TOPAKUSTIK H2-System with metal substructure

Wall connection

A

25

min. 8

max. 120

B

18

25

2

C

2.24.2003

D

B1

B2

2.24.2002

2.24.2001

Fixing of the end planks with n-H clip

Glue tongue-groove joint

min. 35

max. 120
Installation with n'H Clip Type H 1 + 2 for MDF plank

Installation with Clip Type H1 + H2 for inflammable Resap core-plank and heavy base plates
T1-System

Wall connection

Fixation of end plank with n-H Clip 2.24.2024

Glue Nut/-groove connection

2.24.2002
T1-System

Installation clip for T1-System

Suspension no. 1 and profile no. 2 are no n’H products (Not in stock).
H3-System

TOPAKUSTIK H3-System – Ceiling panel

Diagram of the ceiling panel showing the components labeled A, B, C, and D with dimensions and notes on installation.
H3-System

Accessory for H3-System

2.24.2270
2.24.2302
2.24.2360
2.24.2275

18
20
26
H4-System

TOPAKUSTIK H4-System – Ceiling panel

Perform cut-out on suspension on-site

1 Ceiling edge rail
2 Inset
3 Edge rail-substructure

Inset for adaptation

A

B

C

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TOPAKUSTIK H4-System – Ceiling panel with edging ending variants
H-System

TOPAKUSTIK H5-System - Walls – Planks installed horizontally

Edge ending and wall connection

A

B

D

E

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H6-System

TOPAKUSTIK H6-System - Walls – Planks installed vertically

Edge ending and wall connection
TOPAKUSTIK H6-System with floor and ceiling connections

**Substructure with spacer**

**Fixation of end plank with clip**
TOPAKUSTIK Z1-System for universal use

Wall connection

Butt joint typical detail

Fixed panels have to be tightened in at least 2 positions with screws through the attachment clamp.
Z1-System

Z-Profile

1. Stiffen panels at a distance of 500-600 mm transversal with the Z-profiles.

The Z-profiles are delivered in production length of 5 m, trimmed on-site and permanently fixed by the n’H-patent-screws into the perforation of the TOPAKUSTIK®-panels.

Transverse stiffening for panel length:
- > 1000 mm: 3 pc.
- > 2000 mm: 4 pc.
- > 3000 mm: 5 pc.

Stiffen counter grid diagonally. This avoids «Floating» of the ceiling construction.

With the TOPAKUSTIK® Z-System for ceilings, every other panel can be removed easily by gently lifting.

The fixed TOPAKUSTIK®-panels can be removed also by loosening and pushing back the Z-suspension, however with a slightly higher effort.

Longitudinal and transverse stiffener with butt joint

For parallel transverse joints, the longitudinal stiffening rails have to be bolted together additionally.

Type GEMAGRID
Panels with safety cord

2.24.3402  Nylon safety cord with snap-hook for panel weights up to 25 kg with two cords

2.24.3403  Safety wire rope with snap-hook for panel weight up to 40 kg with 2 cords

Installation information for screw joints

- Set correct torque
- Do not strip the thread
- At best try slug test

Design patterns:
The execution with off-set joints allows a small material dilation without it showing. The combination of a gap width of approx. 3 - 6 mm provides a clear and neat alignment

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Please note:
The fixing system with Z-profiles and the U-primary grid documented on pages 13.0.1-13.0.2 is checked for a professional installation with TOPAKUSTIK®- and TOPPERFO®-panels. For installation of the Z-profiles on the TOPAKUSTIK®-panels, the torque has to be set correspondingly, so that the threads are not stripped.

For non-compliance to the information described here any liability is refused.

For parallel transverse joints, we recommend to additionally bolt the longitudinal stiffening rails for the permanently installed panels, see page 13.0.2. With this you achieve a stiffening of the ceiling construction.
Stiffen counter grid diagonally. This avoids «Floating» of the ceiling construction.

Fixed panels have to be connected in at least 2 positions through the attachment clamp to the DP16 profile.

Please take the other details for this system from pages 13.0.1 - 13.0.3.
TOPAKUSTIK G1-System for universal use

Wall connection

Butt joint typical detail

Every attachment clamp has to be fixed to the U-profile by continuous screwing.
**G1-System**

**G-Profile**

1. Stiffen panels at a distance of 500-600 mm with the profiles.

The Z-profiles are delivered in production length of 5 m, trimmed on-site and permanently fixed by the n’H-patent-screws into the perforation of the TOPAKUSTIK®-panels.

Transverse stiffening for panel length:

- > 1000 mm: 3 pc.
- > 2000 mm: 4 pc.
- > 3000 mm: 5 pc.

Stiffen counter grid diagonally. This avoids «Floating» of the ceiling construction.

With the TOPAKUSTIK® G-System every panel can be removed easily by gentle lifting.

The TOPAKUSTIK®-panel in the G-system can be secured by inserting a distance rail against lifting.

Transverse stiffening with butt joint

**Typ GEMAGRID**

2.24.3037  2.24.3100  2.24.3190  2.24.3307

2.24.3111  2.24.3199  2.24.3121

2.24.3119  2.24.3305

2.24.3401
Panel with safety cord

2.24.3402 Nylon safety cord with snap-hook for panel weights up to 25 kg with two cords

2.24.3403 Safety wire rope with snap-hook for panel weight up to 40 kg with 2 cords

Installation information for screw joints

- Set correct torque
- Do not strip the thread
- At best try slug test

Design patterns:
The execution with off-set joints allows a small material dilation without it showing. The combination of a gap width of approx. 3 - 6 mm provides a clear and neat alignment.

English

Parallel

Please note:
The fixing system with G-profiles and the U-primary grid documented on pages 15.0.1-15.0.2 is checked for a professional installation with TOPAKUSTIK®- and TOPPERFO®-panels. For installation of the G-profiles on the TOPAKUSTIK®-panels, the torque has to be set correspondingly, so that the threads are not stripped. For non-compliance to the information described here any liability is refused.
Stiffen counter grid diagonally. This avoids «Floating» of the ceiling construction.

All attachment clamps have to be fixed to the DP16 profile.

Please take the other details for this system from pages 15.0.1-15.0.3.
The TOPAKUSTIK® S 11 System is a ceiling construction where each panel can be removed separately. The panels are fixed with steel springs and safeguarded against falling (earthquake-safe). The entire construction consists of galvanized steel profiles.

Wall connection with support bracket and safety cord

Variante E (USA)
Direct fixation to the hanger

Variant: For wall connection the panels can also be mounted with a cap profile instead of the support bracket (as per details A + C).
**S11 System supporting construction**

Ceiling panels with mounting profiles and transverse reinforcement, prepared for installation.

1. Please note that the mounting profiles no. 8 are arranged in different ways (spring left or right).

**Screw connection between cap profile and ceiling grid**

**Transverse and longitudinal butt joint**
Angle profiles (9)

1. Cross-brace panels at distances of 500-600 mm using the angle profiles.

The angle profiles are delivered in standard lengths of 2,496 running millimetres, cut to size on site, and fixed in the perforation of the TOPAKUSTIK® panels using the n'H patented screws.

Cross-bracing for slab lengths of:
- > 1000 mm 3 pce.
- > 2000 mm 4 pce.
- > 2600 mm 5 pce.

Diagonally brace counter-grid.
This prevents the ceiling construction from «floating».

Cross-bracing with butt joint
S11-System

Mounting instructions for screw connection

- Set torque correctly
- Do not overtighten screw
- If necessary, check tightness of connection manually

Please note:
The attachment system documented on pages 17.0.1-17.0.3 using angle and cap profiles and the U primary grid has been certified for professional installation with TOPAKUSTIK® and TOPPERFO® panels. When mounting the angle profiles onto the TOPAKUSTIK® panels, the torque on the power screwdrivers must be set accordingly to prevent the screws from being over-tightened. All warranty claims are rejected if the instructions given here are not complied with.

Mounting the TOPAKUSTIK® Panel System S11

Step 1
Check room size and angles, are the walls parallel or conical?
Determine ceiling height. Maintain a space of at least 150 mm from the lowest point of the raw ceiling or lines/cables to the lower edge of the visual ceiling.

Step 2
Mount the edge bracket (4) at the corresponding height (p. 17.0.2)

Step 3
Determine the dimension between axes (10) of the room width, dimension (a) should be equal on the right and left-hand side. (p. 17.0.2)

Step 4
Determine position and height of the counter-grid (space max. 1,200 mm). Determine space of the threaded rods and mount. Attach counter-grid to the threaded rod. cap profile (6) under counter-Tightly screw the grid. The space between the counter-grid (12) No. 1+3 is determined based on the panel width. The perforated grid of the profiles is 16 mm and made to fit the TOPAKUSTIK® panels. Align cap profile spaces (6) with the side walls

Step 5
Cut all longitudinal (8) and transverse (9) profiles as specified on page 17.0.2 and then screw into panels.

Step 6
Glue insulation onto rear of panels.

Step 7
Mount ceiling panels starting from middle, and continue to the left and right. Suspend panels by compressing the spring and insert laterally as shown in Fig. 5 + 6, p. 17.0.6

Variant on Step 7
Instead of the support angle, the wall connection panels can also be mounted with the cap profile as shown in Fig. D, page 17.0.1.

Step 8
Wall Plate - Panels. No. 1 + 3
Determine the dimensions of the wall connection panels
cut wall connection panel to correct width, mount support bracket and cord. Mount ceiling panels. (p. 17.0.1)
Dismantling the TOPAKUSTIK® Panel System S11

Insert offset handle into the butt joints at the panel corners as shown in Fig. 1. and rotate 90°.

Pull ceiling panel downwards using the offset handle as shown in Fig. 2 until your hand fits into the opening.

Pull ceiling panel down along the entire length, as shown in Fig. 3 (approx. 100 mm) until the element rests on the spring clip.

Then pull down on the other long side as shown in Fig. 4 until the entire panel is suspended horizontally from the spring clips.
Folding down the ceiling panel. Disengage spring clips on one long side as shown in Fig. 5 + 6 (squeeze together) so that the element can be folded down.

Let panel hang from the spring clips on one long side, as shown in Fig. 7. Extremely simple handling in the event of revisions or when installing additional cables/lines.
Materials required for the Donn DX24 substructure (per m² of ceiling area). All specifications are approximate values without cuttings.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Item designation</th>
<th>Module 600 x 1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bearing rail</td>
<td>DX24 XH 370</td>
<td>0.83 m</td>
</tr>
<tr>
<td>2</td>
<td>Cross-rail, long</td>
<td>DX24 XM 120</td>
<td>1.67 m</td>
</tr>
<tr>
<td>3</td>
<td>Suspending bracket</td>
<td></td>
<td>0.70 piece</td>
</tr>
<tr>
<td>4</td>
<td>Wall bracket</td>
<td></td>
<td>depends on room dimensions (approx. 0.4 running meters/m²)</td>
</tr>
</tbody>
</table>
Sixty

Sixty-System 60/60

Materials required for the Donn DX24 subconstruction (per m² ceiling area). All specifications are approximate values without cuttings.

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<tr>
<td>2</td>
<td>Cross-rail, long</td>
<td>DX24 XM 120</td>
<td>1.67 m</td>
</tr>
<tr>
<td>3</td>
<td>Cross-rail, short</td>
<td>DX24 XS 60</td>
<td>0.83 m</td>
</tr>
<tr>
<td>4</td>
<td>Suspending bracket</td>
<td></td>
<td>0.70 piece</td>
</tr>
<tr>
<td>5</td>
<td>Wall bracket</td>
<td></td>
<td>depends on room dimensions (approx. 0.4 running meters/m²)</td>
</tr>
</tbody>
</table>

Ind: Space (mm)
A  1200 standard
B  1200
C  max. 400
D  600

min. 80
Reinforcement for the transverse edges Size: 559 x 19/11 mm

T-24 laid on
Not under 70
Edge section 77-377mm

T-24 rebated
Not under 70
Edge section 77-377mm

T-15 rebated
Not under 70
Edge section 77-377mm

T-15 rebated with Fineline profile
Not under 70
Edge section 77-377mm