



KNAUF

**ELEGANZA
SEAMLESS
ACOUSTICS**

Installation Manual

Build on us.



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Index

1 GENERAL INFORMATION

B04 ELEGANZA Installation Conditions

6

2 SUSPENSION SYSTEMS

C09 Knauf CD-Profiles 12

C13 RAPID'FIX® 18

3 SEAMLESS ACOUSTICS

D04.200 ELEGANZA 26



General Information

ELEGANZA INSTALLATION CONDITIONS

Disclaimer

General information

ELEGANZA Seamless Acoustics is a complex system that may only be installed by a certified installer. Certification must be obtained by attending training at either Knauf Ceiling Solutions or Pennings Akoestisch Afbouwen. The training covers the critical steps of the installation process, quality control between installation phases, machine handling and the application of the ELEGANZA Silent Plaster.

To achieve a high-quality result, it is essential to strictly follow this installation manual. This also includes the use of the ELEGANZA components described in here. This is mandatory. Changing components or the use of alternatives may affect the quality of the finished ceiling. The use of alternative components, except in special circumstances and with the express permission of Knauf Ceiling Solutions, is not permitted.

Non-recommended constructions

Based on current knowledge and testing, the following applications and constructions are not recommended for ELEGANZA Seamless Acoustics:

- Vertical installation on walls:** ELEGANZA is not designed for vertical installation on walls. Unlike ceilings, different forces are applied to the material. The risk of cracking cannot be estimated. In particular, ELEGANZA is not intended to be mounted on the inside of an external wall: ELEGANZA is a product with insulating properties. Therefore, building physics issues (e.g. condensation) must be considered by a specialist consultant on a project-specific basis.
- Installation directly under the roof structure:** The installation of ELEGANZA Panels directly under the roof structure is not intended. The effect of e.g., wind and snow loads on the primary structure and the resulting coupling with the substructure cannot be generally estimated for the ELEGANZA Panel. Cracks are to be expected.
- Use of a different grid system, especially wood:** The ELEGANZA Seamless Acoustics system has only been tested with RAPID'FIX® grid and with Knauf CD-Profiles as a substructure. Knauf Ceiling Solutions has no experience with substructures that are too different, especially those made of wood. The use of a wood-based substructure to which the ELEGANZA Panel is to be directly installed may result in material degradation. In order to be able to fill the joints of ELEGANZA Panels according to the installation manual, it is essential to install staggered cross tees at appropriate intervals.
- Installation without pressure relief gap:** The airtightness of the ELEGANZA Seamless Acoustics system must be guaranteed. The airtight tape must always be applied firmly and without blisters to the substructure. If pressure differences and convection cannot be prevented due to insufficient adhesion of the airtight tape or other structural conditions, pollution of the ceiling surface (filter effect) is to be expected. It is strongly recommended to ensure a balanced pressure in the room and in the ceiling cavity, leaving at least 0.5% of the ceiling area open.

Warranty Implications

Any deviation from the installation instructions, including the cases listed above, will result in the loss of the ELEGANZA Seamless Acoustics system warranty. It is therefore critical to follow the guidelines precisely to maintain the warranty and ensure the system's performance.

Guidelines for installation and handling

General requirements and guidelines

- To ensure the quality requirements and assess the installation quality of the ELEGANZA Seamless Acoustics system, the guideline of the Technical Finishing Industry Board (TBA) is applied: TBA guideline 3.7 for ceilings and walls, titled "Processing instructions for installing and finishing seamless acoustic ceilings."
- The installation and finishing of the ELEGANZA Seamless Acoustics system must only be carried out by trained installers who have successfully completed the ELEGANZA installation course and hold a valid ELEGANZA trained installer certificate.
- This installation guideline does not include specific instructions for fire protection requirements.
- In addition to the information in this installation manual, generally acknowledged standards of technology, additional standards, higher-level regulations, etc., must be observed. Building situations or object-related deviations must be clarified individually.

Preparation for installation

- Prior to installation, the overall building physics and conditions of the site must be thoroughly assessed.
- A finalised ceiling plan must be available before starting the installation. This plan should include all necessary installations, access hatches, and other relevant details.

Storage and handling

- ELEGANZA Panels must be stored in the room for a minimum of 24 hours before installation to acclimatise to the jobsite conditions.
- Panels should always be stored flat to prevent deformation or damage.
- Panels must be always protected from moisture and adverse weather conditions.
- Care should be taken during storage and installation to make sure that components of the ELEGANZA Seamless Acoustics system are not damaged. Products and entire panels with recognisable defects or damage must not be installed. If the panels are not completely visibly damaged, they should only be used for cutting.

Installation process

- ELEGANZA Panels must be installed in the appropriate temperature and humidity conditions (see Interior Installation Conditions section).
- The ELEGANZA Seamless Acoustics system must only be installed using ELEGANZA components as detailed in this installation guide. Using alternative materials will result in the revocation of the ELEGANZA warranty.
- The installation of an ELEGANZA Seamless Acoustics ceiling requires particular attention to detail. Demanding craft work is required. For this reason, it is essential to regularly monitor the quality of each work step.
- The application details and variants shown in this installation guideline may not cover all installation situations. Non-included installation situations, variations, as well as additional requirements, have to be clarified with Knauf Ceiling Solutions on an individual basis.

Safety precautions

- The occupational health and safety guidelines must be observed.
- Observe the manufacturer's safety instructions for the use of tools and always wear personal protective equipment such as safety glasses, helmet, etc.
- In the unlikely event of health problems, please refer to the appropriate safety datasheet. Safety datasheets for each of these products are available upon request.

Pressure difference / convection

Pressure differences between the room and the plenum should be kept minimal. ELEGANZA Panels have a foil backing and are installed with the ELEGANZA Airtight Tape at each joint to minimise filtering effects due to pressure differences and convection. However, it is good practice and recommended that the pressure in the room and the ceiling void is equal.

➔ **Please see the installation details and drawings section for more information.**

Grazing light

If there is any unfavourable / excessive illumination at an oblique angle to the ceiling, then minor variations in the surface due to the manual finishing of the ceiling may be visible even though the installation is within specification and tolerances.

To reduce the risk of grazing light as much as possible, the long sides of the ELEGANZA Panels should be installed in the same direction as the primary light source / window.

If the incidence of grazing light is to be expected on different sides of the room, it is recommended that the panels are installed in a direction that follows the course of the sun, from sunrise to sunset.

➔ **For guidelines and assessment of grazing light, please refer to the TBA guideline for seamless acoustic ceilings.**

Installation conditions

Site conditions

- The building envelope must be weathertight and watertight. The room must be tidy.
- Wet work that can lead to an increase in relative humidity in the room must be completed.
- The required drying-out period of previous work must be observed so that the requirements for relative humidity incl. temperatures of the room (see table below) during installation of ELEGANZA are met at all times.
- In most cases, mechanical ventilation / construction dryers and dehumidifiers must be used to ensure compliance with the conditions mentioned below.
- ELEGANZA is a premium interior finish, and as such should only be installed in the appropriate interior conditions as described below.

Interior installation conditions - relative humidity (RH) and temperature (T)

There are different environmental conditions for the different stages of the ELEGANZA installation.

Environmental Conditions by Installation Stage

Installation stage	Recommended temperature	Relative humidity
Grid installation	18°C (min. 10°C)	40 - 70%
ELEGANZA Panel installation	18°C (min. 10°C)	40 - 70%
ELEGANZA Acoustic Filler / Finish Jointing	20°C (min. 15°C)	50 - 70%
ELEGANZA Silent Plaster finishing	20°C (min. 15°C)	50 - 70%

- The temperature and relative humidity must meet the listed environmental conditions at least three days before the joint work and Silent Plaster finishing is to be carried out.
- During the installation of the ELEGANZA Seamless Acoustics system, the relative humidity and temperature conditions must be maintained at all times, with particular attention to temperature drops / humidity increases during the night or unoccupied times.
- Climatic conditions should be monitored and recorded during the work by a trained ELEGANZA installer using the hygrometer (ELEGANZA Quality Check #2).
- The temperature and air humidity must be kept as constant as possible, indeed, it is desirable that they are equal to the end.
- Large and / or rapid changes in this can lead to installation quality issues. Temperature changes must be a maximum of ± 3°C per 24-hour period.
- Bear in mind that there may also be a short-term increase in air humidity due to work being carried out. However, this increased air humidity must not lead to a permanent increase in relative humidity and thus impair the drying process.
- Ensuring sufficient air movement and ventilation during installation is essential in the drying process and ensuring that the correct humidity conditions are maintained. Therefore, a dehumidifier can also be helpful. Please note that hot or cold air should not be blown directly onto the surface of the ELEGANZA Seamless Acoustics system.

Installation and quality check tools

- - ELEGANZA quality check #1 - moisture meter
- - ELEGANZA quality check #2 - hygrometer (regular hygrometer / thermometer)
- - ELEGANZA quality check #3 - level gauge (400 mm spatula + plastic card 0.7 mm)
- EZ7026 ELEGANZA quality check #4 - ELEGANZA cutter (joint preparation tool)
- EZ7023 ELEGANZA installer tool kit (contains the four items above: moisture meter, hygrometer, level gauge, joint preparation tool)

Checklist: Equipment and tools

Designation	Description	Designation	Description
Protective film	Equipment	Laser level	Tool
Masking tape	Equipment	Tape measure	Tool
Masking scaffold	Equipment	Pencil	Tool
Panel lift	Equipment	Utility knife	Tool
Airless device	Equipment	Screwdriver	Tool
Portable floodlight	Equipment	Drywall filler trowel (10 / 15 / 20 cm)	Tool
Knauf Acryl White (Acrylic based sealant)	Equipment	Plaster mixer	Tool
Panel adhesive, e.g., Knauf Power Elast	Equipment	Drill	Tool
Safety glasses	Personal protective equipment	Tin snips	Tool
Safety gloves	Personal protective equipment	Angle grinder	Tool
Dust mask	Personal protective equipment	„Giraffe“ sander	Tool
Safety shoes	Personal protective equipment	Caulking gun	Tool
Hearing protection	Personal protective equipment	Chalk line	Tool
Overalls	Personal protective equipment		

No guarantee of completeness, may vary depending on the object.



***Suspension
Systems for
ELEGANZA***

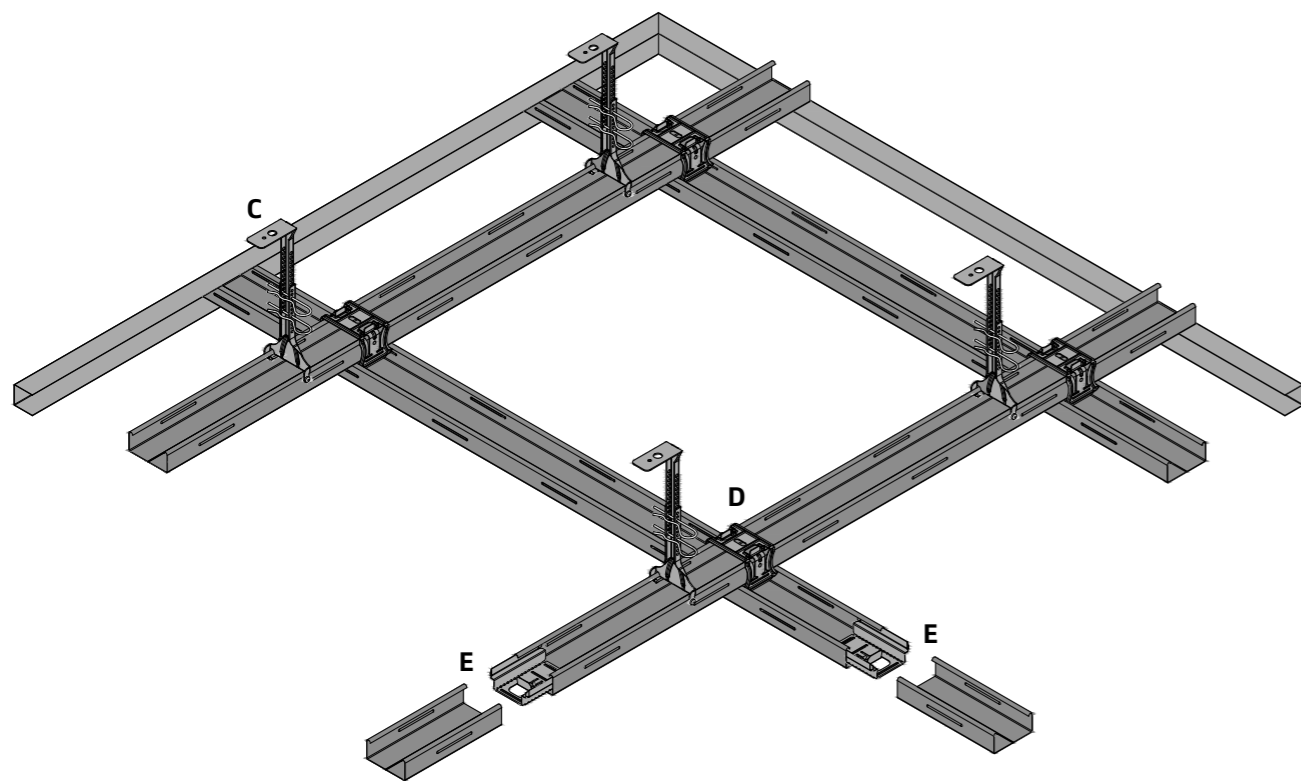
KNAUF CD-PROFILE

Double layer grid system for seamless, monolithic and concealed solutions

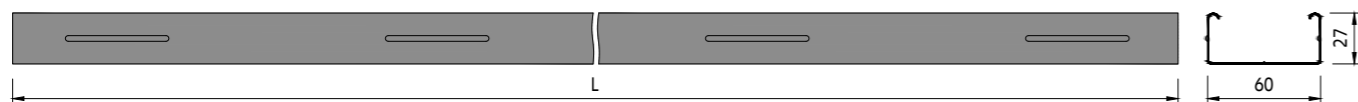
General information

- Dimensionally stable material (more precise dimensions compared to wood)
- Easy and quick assembly thanks to modular system
- Individual, diverse design options
- Application area: Seamless, monolithic boards installation, concealed screwed systems

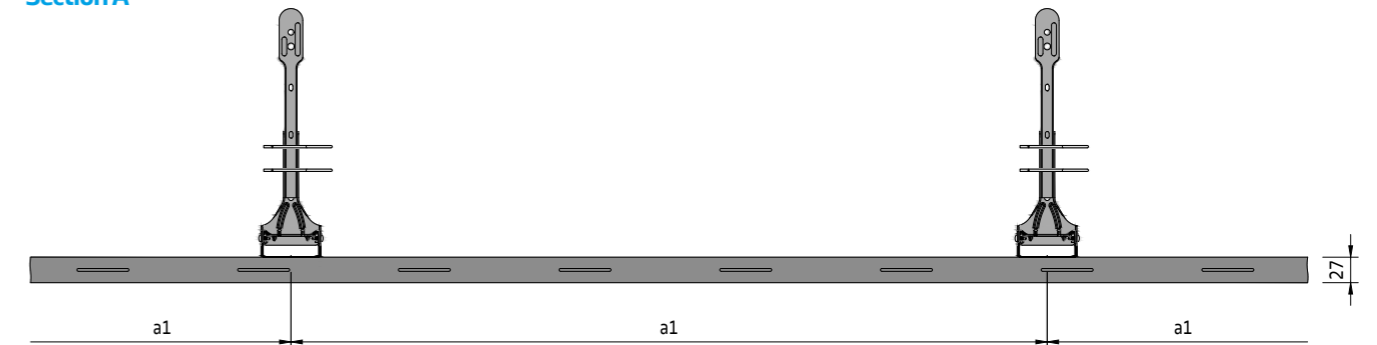
Isometric view



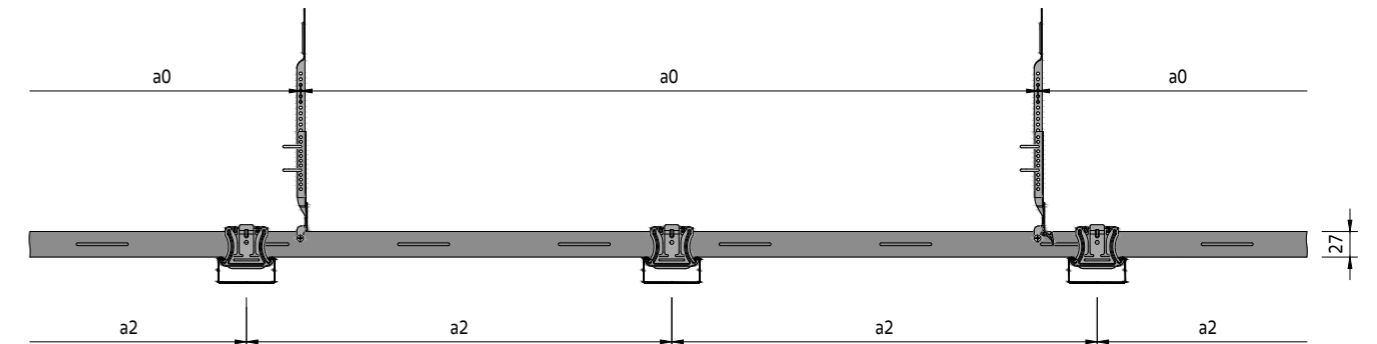
Knauf CD-Profile 60/27/06



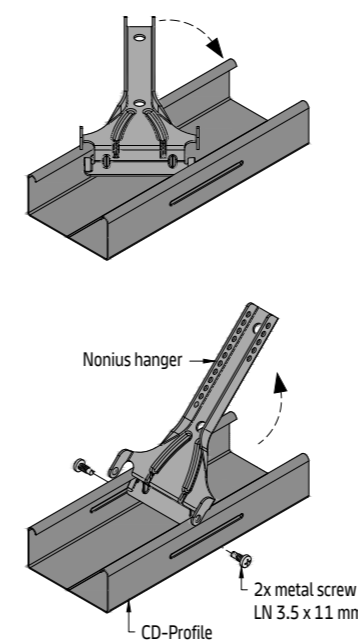
Section A



Section B



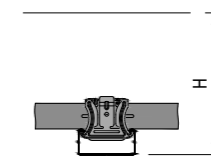
Detail C Nonius hanger



The hanger is first laid flat on the CD-Profile, rotated in and finally straightened up.

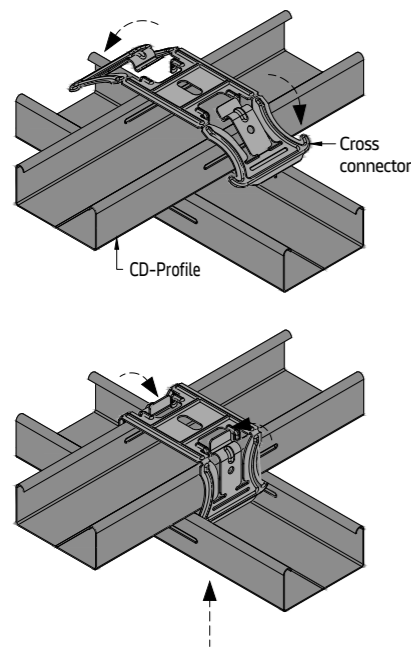
Once in position, it is fixed laterally with two metal screws LN 3.5 x 11 mm.

Min. installation height (H) = 220 mm



Detail D

Cross connector



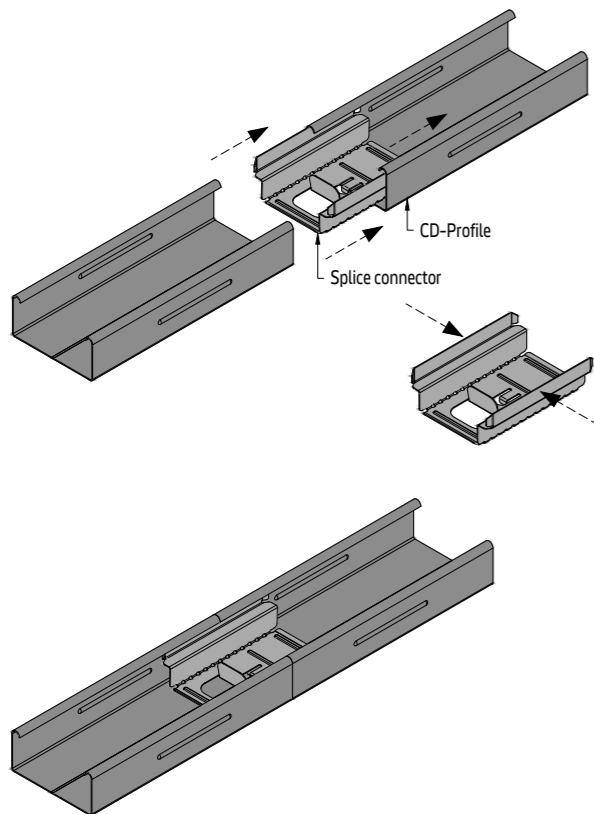
The universal bracket ensures a stable clamp connection to the intersection point between two Knauf CD-Profiles (primary / secondary) situated over one another.

Bend the two ends of the bracket to form a U-shape. Place this over the primary grid and use it to fix the secondary grid underneath. Push the secondary grid above the ends of the bracket so that it hooks onto.

After the alignment of the profiles the lateral clamping tabs are pressed together until the primary grid profile is clamped onto the secondary grid profile. The tabs engage in the Knauf CD-Profile.

Detail E

Splice connector



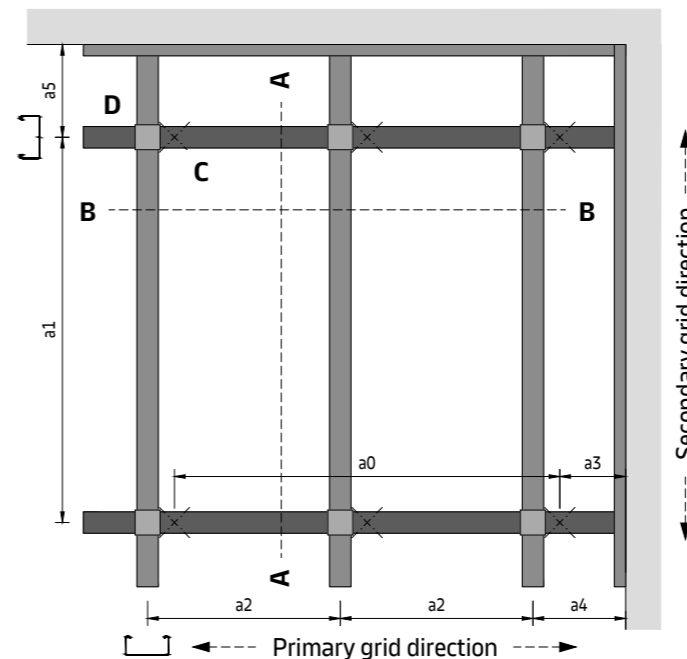
The splice connector with special tab for fine adjustment is a connector that fits the Knauf CD-Profile perfectly.

The vertical ends can be gently pressed together so that the connector fits perfectly into the profiles.

Thanks to its extra-flat base, it also makes it possible to create a profile intersection connection directly above a longitudinal connection.

Stagger the joints and place an additional hanger at each joint.

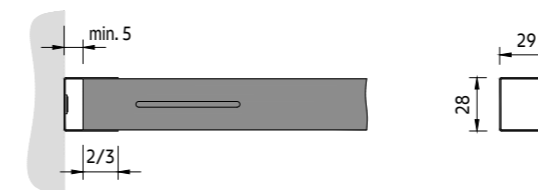
Typical grid layout



Parameters

- a0 Max. distance between Knauf CD-Profile suspension points
- a1 Distance between primary Knauf CD-Profiles
- a2 Distance between secondary Knauf CD-Profiles
- a3 Distance from wall to suspension point
- a4 Distance from wall to secondary Knauf CD-Profile
- a5 Distance from wall to primary Knauf CD-Profile

UD-Runner detail



To enable system alignment (squareness), all profile cuts should be carried out with a 5-10 mm allowance. The remaining contact surface must be at least 2/3 of the leg length.

Standard grid components

- — Knauf CD-Profile 60/27/06
- — Cross connector
- — Splice connector
- — Nonius hanger
- — Metal screw LN 3.5 x 11 mm
- — UD-Runner

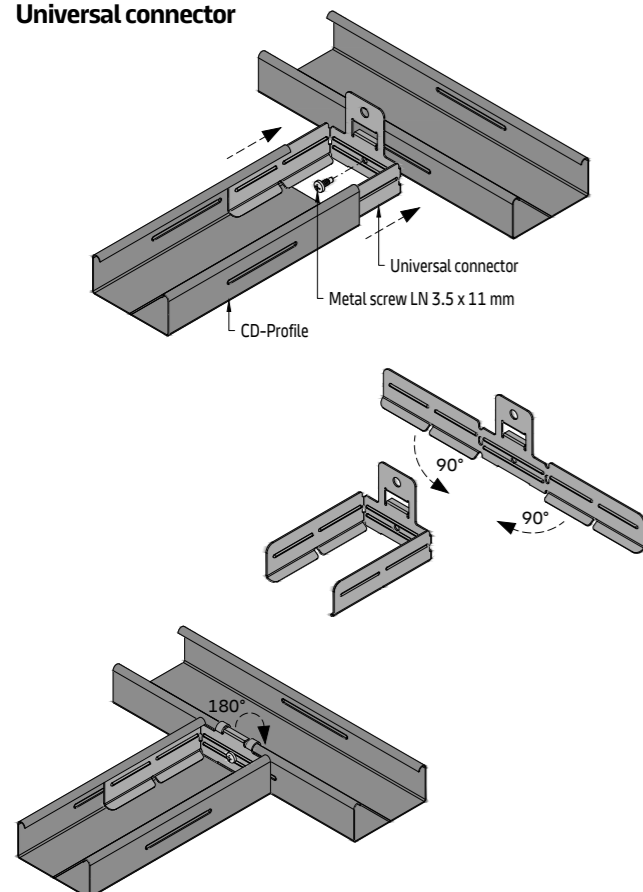
Optional grid components

- — Universal connector
- — Angle connector 90°
- — Multi-connector
- — Adapter for multi-connector

General installation sequence

1. Use the laser level to establish the level of UD-Runner and Knauf CD-Profile system.
2. Attach the C-Channel Perimeter Trim to the wall at maximum 400 mm centres. The choice of the connecting element must be appropriate for the underlying structure.
3. The position of the suspension points must be marked on the soffit before installation (laser, measuring tape, chalk line, etc.). Then drill the holes and place the top fixing.
4. Set Nonius to parts, shorten if necessary.
5. Attach the lower part of the Nonius Hanger to the primary Knauf CD-Profile. Offer up the lower part of the Nonius to the upper part so that the face of the Knauf CD-Profile is at the correct height. Connect the lower and upper part of the Nonius Hanger using two connecting pins.
7. Couple the primary Knauf CD-Profiles with splice connectors. Joints should be offset.
8. Connect primary and secondary Knauf CD-Profiles together, using universal brackets.
9. Couple the secondary Knauf CD-Profiles with splice connectors. Joints should be offset.
10. Check the height and level of the Knauf CD-Profile suspension system. Check the substructure for perpendicularity.

Detail F
Universal connector



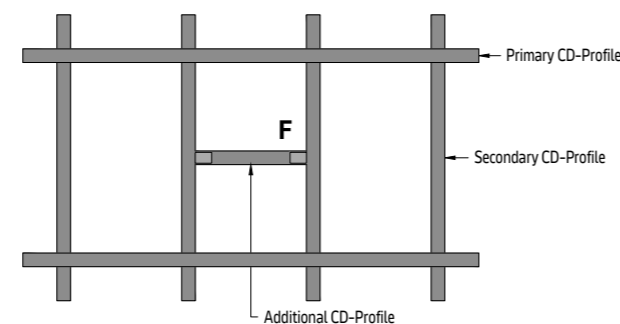
The Universal connector is used to create flush T-connections with additional Knauf CD-Profiles.

The connector is delivered flat and must be bent into a U on site.

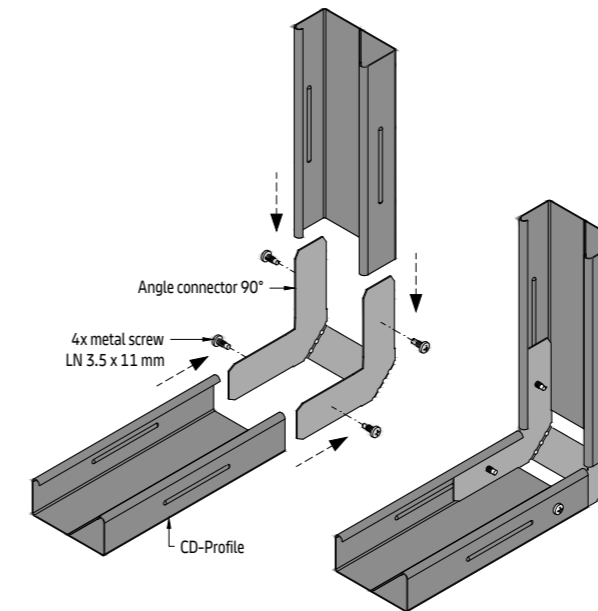
Insert the connector at the end of the additional Knauf CD-Profile.

Bend the tab at the head end 180° downwards so that it rests on the secondary Knauf CD-Profile.

Use a metal screw LN 3.5 x 11 mm to attach the connector to the secondary Knauf CD-Profile.



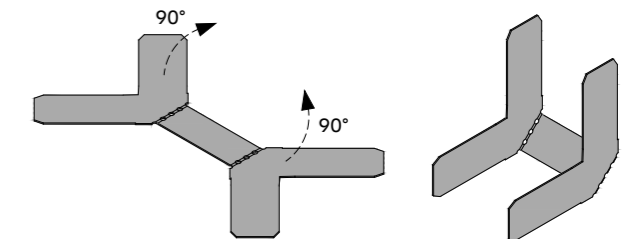
Detail G
Angle connector 90°



This connector is used to create upstand and bulkhead details.

Insert the connector into the vertical Knauf CD-Profile, then insert the connector including the vertical Knauf CD-Profile into the horizontal one.

Fasten the connector with 4x metal screws LN 3.5 x 11 mm.



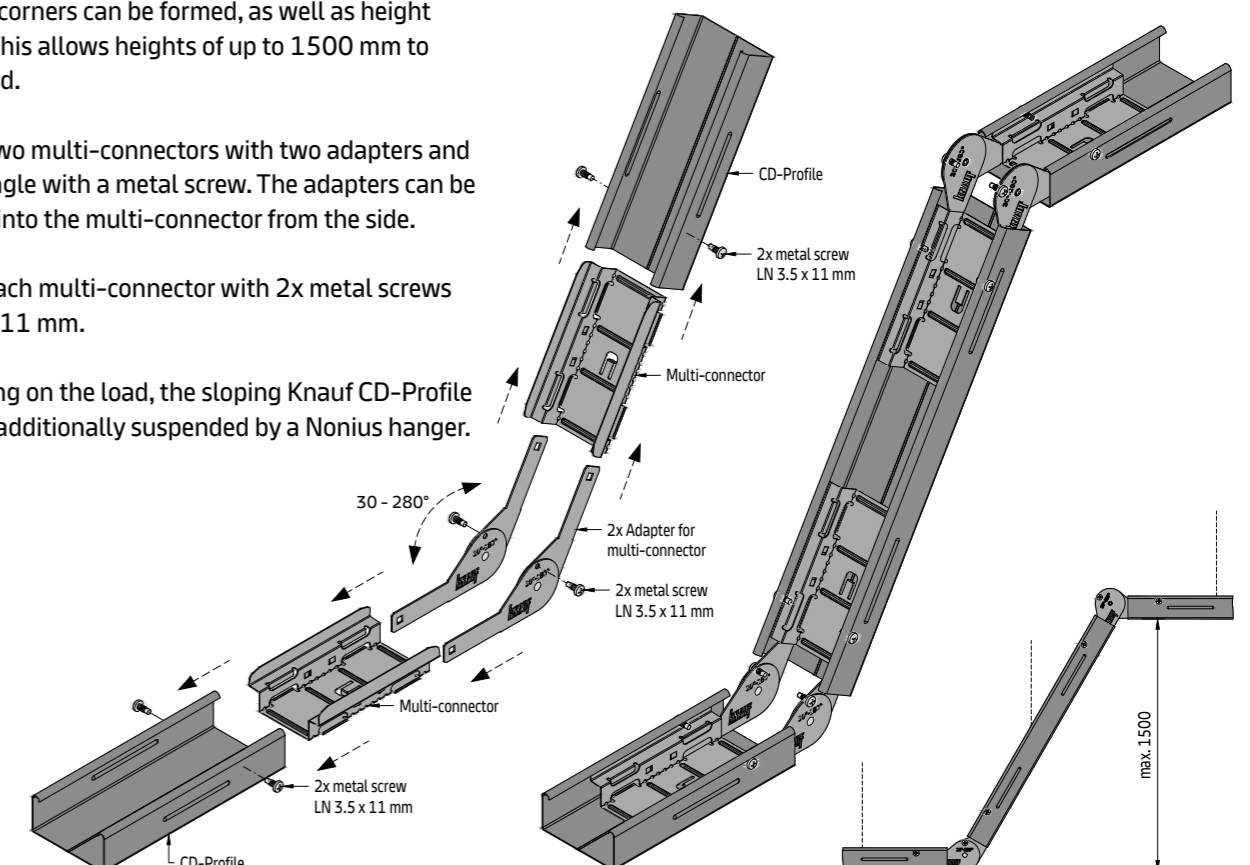
Detail H
Multi-connector with adapter

Use the multi-connector in combination with the adapter to create angular connections. Internal and external corners can be formed, as well as height offsets. This allows heights of up to 1500 mm to be created.

Couple two multi-connectors with two adapters and fix the angle with a metal screw. The adapters can be inserted into the multi-connector from the side.

Fasten each multi-connector with 2x metal screws LN 3.5 x 11 mm.

Depending on the load, the sloping Knauf CD-Profile must be additionally suspended by a Nonius hanger.



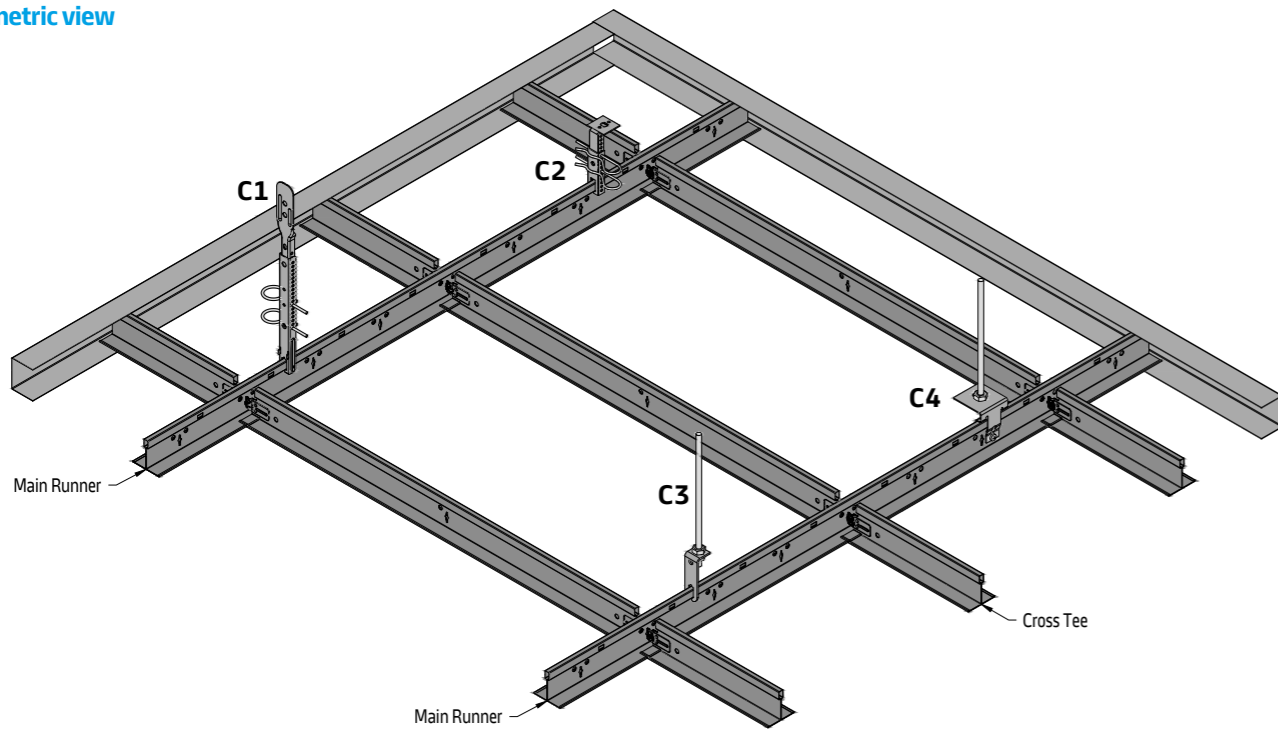
RAPID'FIX®

Monolithic 40 mm grid system - System A

General information

- Grid structure for screw fixing for seamless, monolithic board installation
- Engineered Main Runner and Cross Tee system: quick and easy to set-out and install (30% time-saving)
- Extra wide (40 mm) and knurled face of the profile for easier screw fixing of the board
- Application area: Seamless, monolithic boards installation

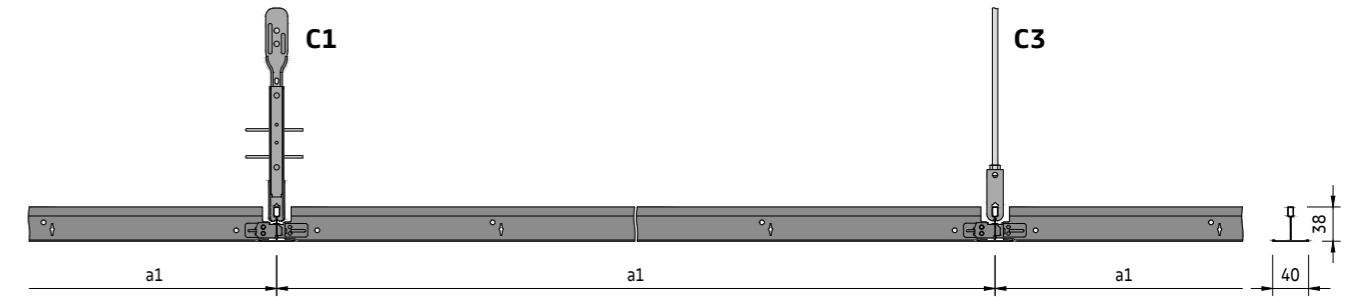
Isometric view



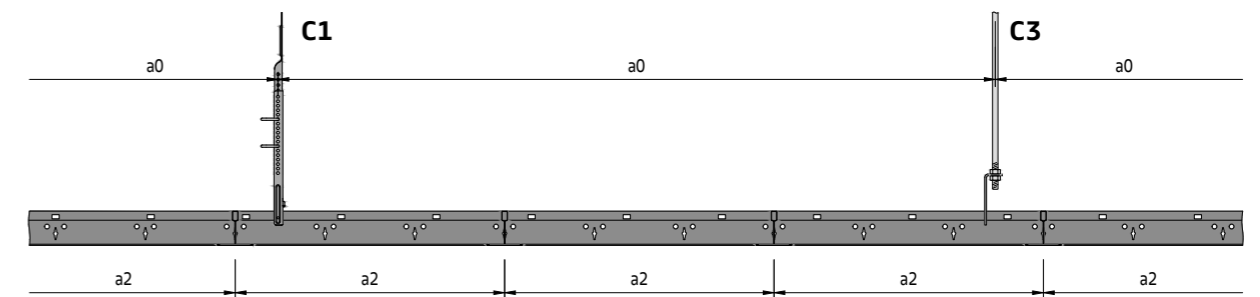
Standard layout



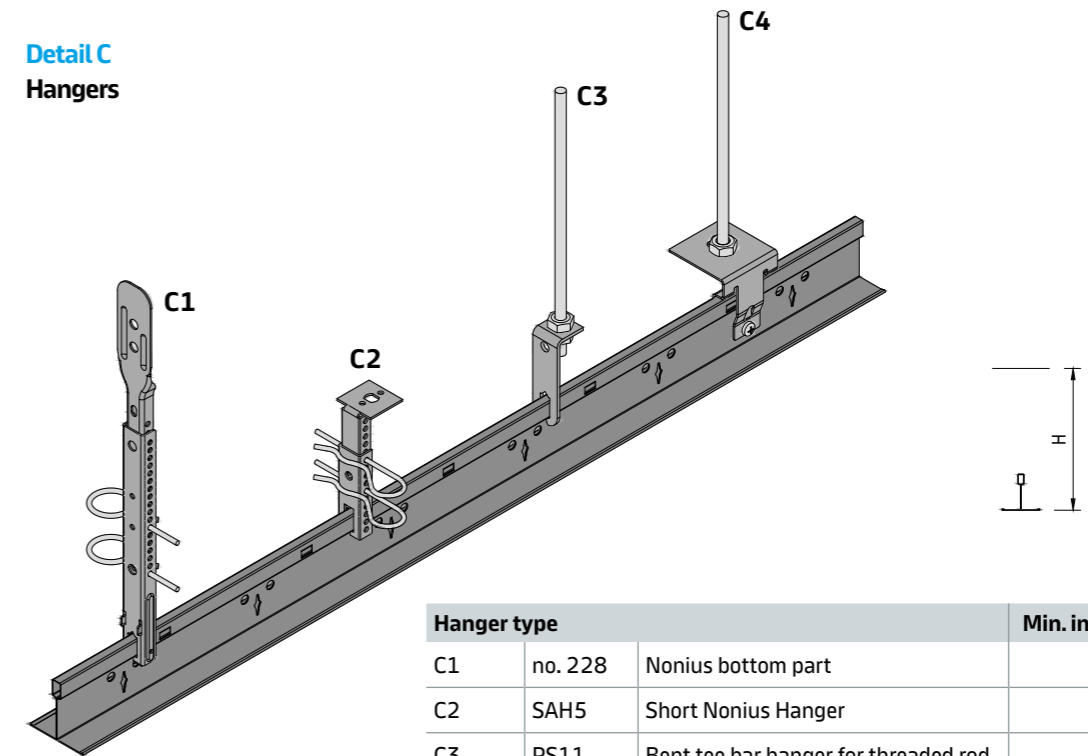
Section A



Section B



Detail C Hangers

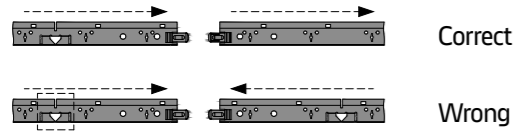


Hanger type			Min. installation height (H) [mm]
C1	no. 228	Nonius bottom part	200
C2	SAH5	Short Nonius Hanger	80
C3	PS11	Bent tee bar hanger for threaded rod	100
C4	GFV50	Hanger	70

C3 / C4: It is not recommended to attach these hangers directly to the soffit, as this will complicate the leveling of the ceiling.
C4: The only solution for the French market, but can also be used in other markets.
Caution! This hanger must be screwed to the RAPID'FIX® Main Runner with a suitable screw in the bottom hole!

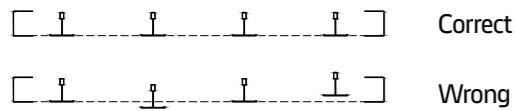
Main Runner

Main Runner direction



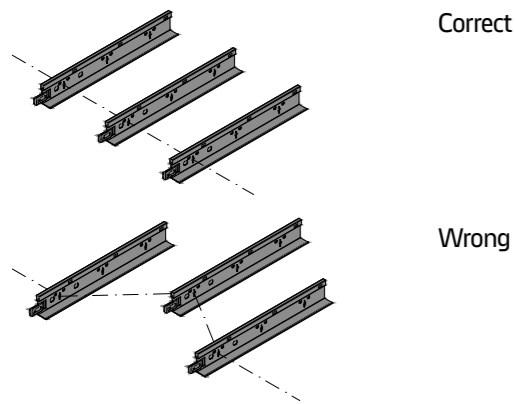
The Main Runners should always be installed in the same direction; two fire expansion notches can not be installed directly next to each other.

Main Runner levelling



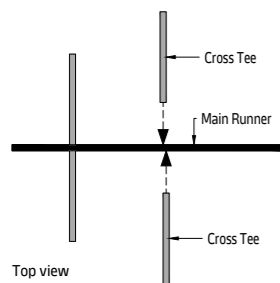
The main runners should be installed at the same height so that they are on the same level.

Main Runner adjustment



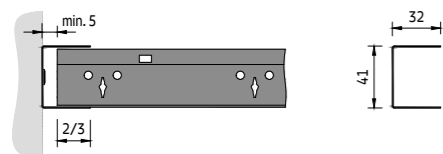
The main runners should be aligned so that the punchings are in line.

Main Runner / Cross Tee connection



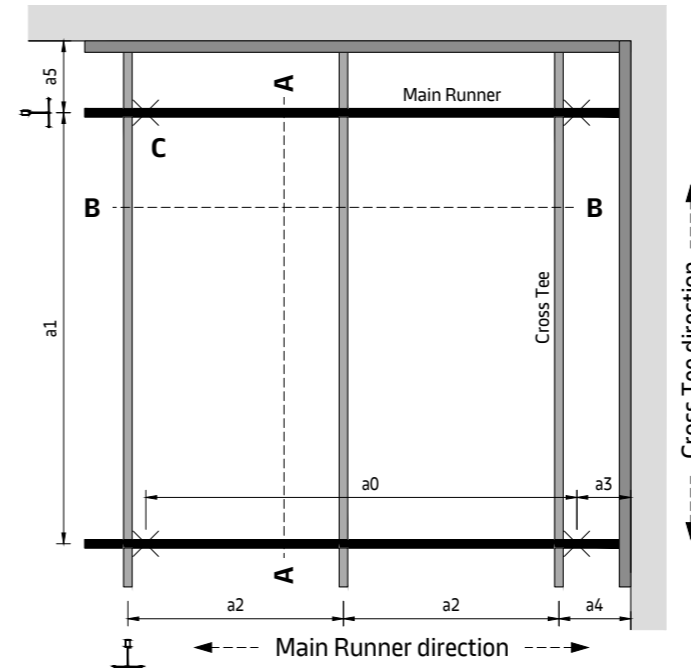
Cross Tee alignment is achieved by locating the tees to the right-hand side of the adjoining section.

Unhemmed C-Channel perimeter detail



To enable system alignment (squareness), all profile cuts should be carried out with a 5-10 mm allowance. The remaining contact surface must be at least 2/3 of the leg length.

Typical grid layout



Parameters

- a0 Max. distance between Main Runner suspension points
- a1 Distance between Main Runner
- a2 Distance between Cross Tees
- a3 Distance from wall to first suspension point
- a4 Distance from wall to Cross Tee
- a5 Distance from wall to Main Runner

Load table

Maximum weight per unit area allowed [kg/m ²]				
Main Runner distance (a1) [mm]	1200		600	
	Cross Tee distance	Cross Tee distance	Cross Tee distance	Cross Tee distance
Suspension point distance (a0) [mm] *	600	500	600	500
800	18.9	21.4	30.0	30.0
1000	14.2	16.0	21.3	22.0
1200	9.6	10.0	21.3	22.0

* Due to constructional or object-related situations, closer hanger spacing may be required.

For installation where grazing light is a concern, ensure that the grid is installed in the recommended orientation (see general information chapter).

Note:

The load per m² must be evenly distributed (no extra point loads). After loading, the deflection will remain within the permitted deflection according to class 1 (L/500) of EN 13964, provided the grid is laid out as shown. For other grid layouts, load capacities or hanger distances, please contact Knauf Ceiling Solutions.

Standard grid components

- DXSF40XH370X Main Runner
- DXS40XH120X Cross Tee 1200 mm
- MUSF40X Unhemmed C-Channel

Optional grid components

- DXS40XH60X Cross Tee 600 mm
- XTACAG Drywall adapter clip
- A131G DB 3 T-connector
- DGTC90 Connector 90°

General installation sequence

1. Use the laser level to establish the level of C-Channel Perimeter Trim and RAPID'FIX® system.
2. Attach the C-Channel Perimeter Trim to the wall at maximum 400 mm centres. The choice of the connecting element must be appropriate for the underlying structure.
3. The position of the suspension points must be marked on the soffit before installation (laser, measuring tape, chalk line, etc.). Then drill the holes and place the top fixing.
4. Set Nonius to parts or threaded rods, shorten if necessary.
5. Suspension options:

C1 - Attach the lower part of the Nonius Hanger to the RAPID'FIX® Main Runner. Offer up the lower part of the Nonius to the upper part so that the face of the RAPID'FIX® Main Runner is at the correct height. Connect the lower and upper part of the Nonius Hanger using two connecting pins. Important: Do not press the hanger onto the Main Runner, slide it from the end.

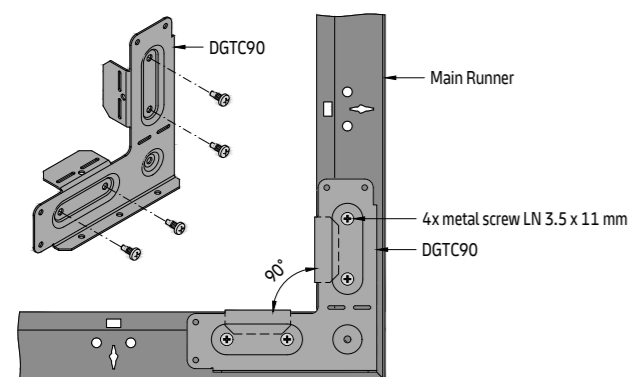
C2 - Attach the lower part of the Nonius Hanger to the RAPID'FIX® Main Runner. Offer up the lower part of the Nonius to the upper part so that the face of the RAPID'FIX® Main Runner is at the correct height. Connect the lower and upper part of the Nonius Hanger using two connecting pins. Important: Do not press the hanger onto the Main Runner, slide it from the end.

C3 - Attach the hanger to the RAPID'FIX® Main Runner and adjust the height. Fasten it to the threaded rod with two hexagonal nuts. Important: Do not press the hanger onto the Main Runner, slide it from the end.

C4 - Attach the GFV50 hanger to the RAPID'FIX® Main Runner and adjust the height. Fasten it to the threaded rod with two hexagonal nuts. The GFV50 hanger must be screwed to the RAPID'FIX® Main Runner with a suitable screw.

6. Connect RAPID'FIX® Main Runners together as shown at the "Main Runner direction" detail.
7. RAPID'FIX® Main Runners should be aligned with each other in the longitudinal direction as shown at the "Main Runner adjustment" detail.
8. Install the RAPID'FIX® Cross Tees at 600 mm centres between the Main Runners.
9. Check the height and level of the RAPID'FIX® suspension system. Check the substructure for perpendicularity.

Detail D
DGTC90 - connector 90°

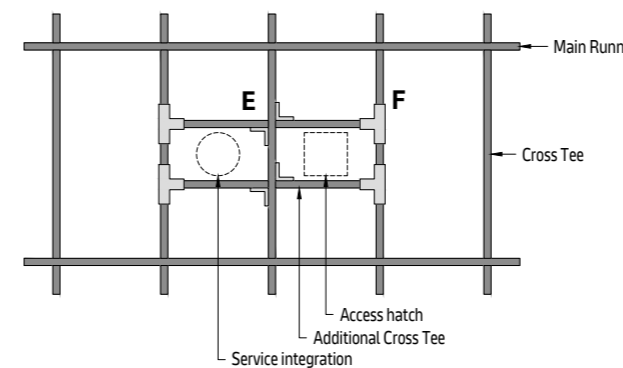


This connector is used to create upstand and bulkhead details.

Miter the ends of the Main Runners at a 45° angle. Use the connector to fix the two ends and bend the two tabs down 90°.

Fasten the connector with 4x metal screws LN 3.5 x 11 mm.

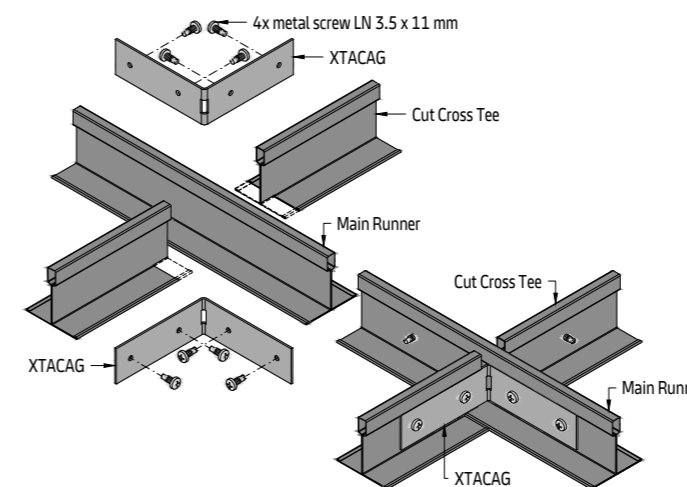
Additional Cross Tee



To implement service integrations, additional Cross Tees can be installed. For heavier loads, plan for additional suspension points at the centres of the additional Cross Tees.

The suspended ceiling is only intended to support its own weight. Additional loads must be known in advance and appropriate constructive action must be taken if necessary.

Detail E
XTACAG - drywall adapter clip

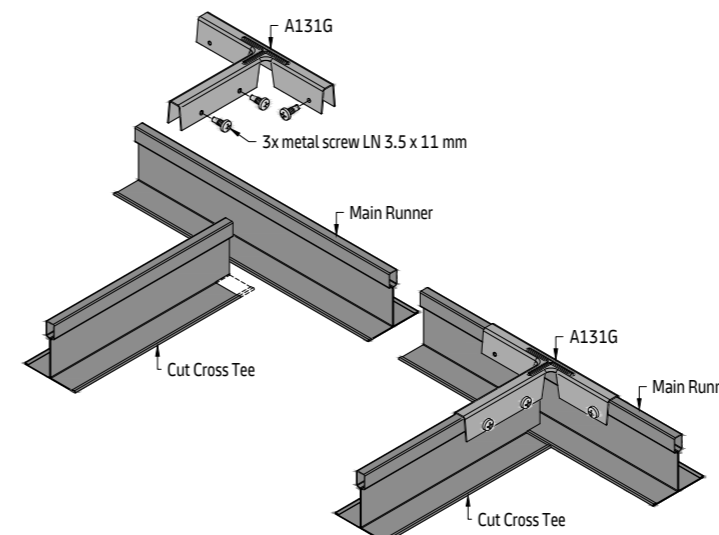


Where two opposite Cross Tees meet, drywall adapter clips can be used. Two clips are used in a diagonal arrangement.

The clips are attached to the Main Runner and the Cross Tee with 2x LN 3.5 x 11 mm each.

Before the additional Cross Tees can be installed, they must be trimmed at the ends.

Detail F
A131G - DB 3 T-connector



For a T-connection between a Main Runner and a Cross Tee, a DB 3 T-connector can be used.

The connectors are attached to the Main Runner with 1x LN 3.5 x 11 mm and the Cross Tee with 2x LN 3.5 x 11 mm.

Before the additional Cross Tees can be installed, they must be trimmed at the ends.



ELEGANZA
Seamless
Acoustics

ELEGANZA

Acoustic design without compromise

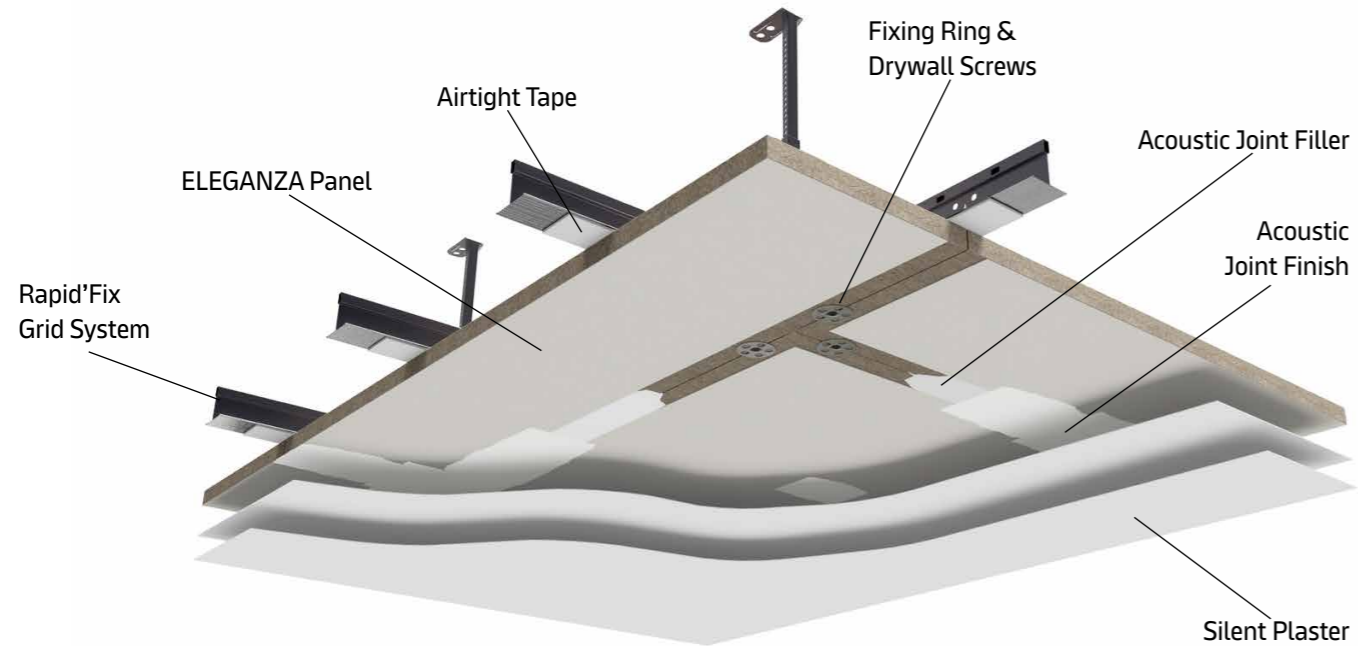
ELEGANZA Seamless Acoustics offers a groundbreaking new system with a 100% seamless finish featuring an elegant finely textured visual that is durable, robust and long-lasting. With ELEGANZA Seamless Acoustics you get high-class sound absorption and the best of both worlds: outstanding sound absorption and a stunning seamless finish.

General information

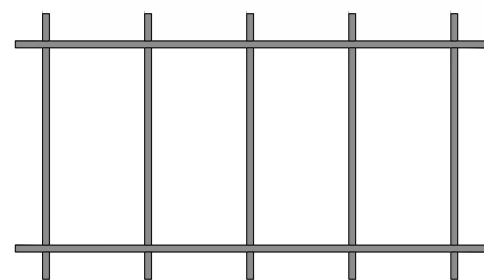
- 100% seamless - the absence of visible joints provides a long-lasting durable finish and a monolithic appearance
- Class A sound absorption for improved acoustic comfort performances
- Durable surface thanks to an airtight system and a finely textured surface
- Full-system solution from one supplier for a reassuring system guarantee
- Large panels and few joints making it easy and fast to install
- Complete solution compatible with standard accessories
- Application areas: Retail, leisure & hospitality, office, education, residential

View from below

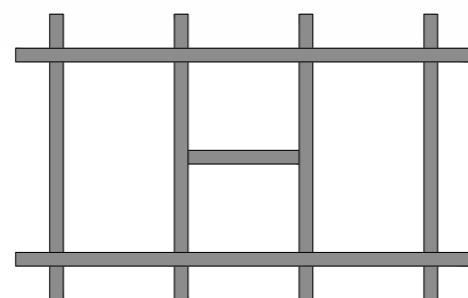
Example with RAPID'FIX® suspension system



Standard grid layout RAPID'FIX®

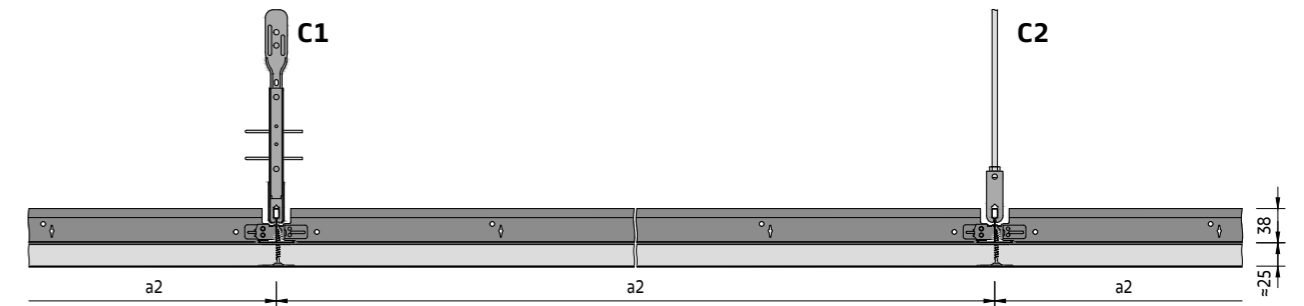


Standard grid layout Knauf CD-Profile

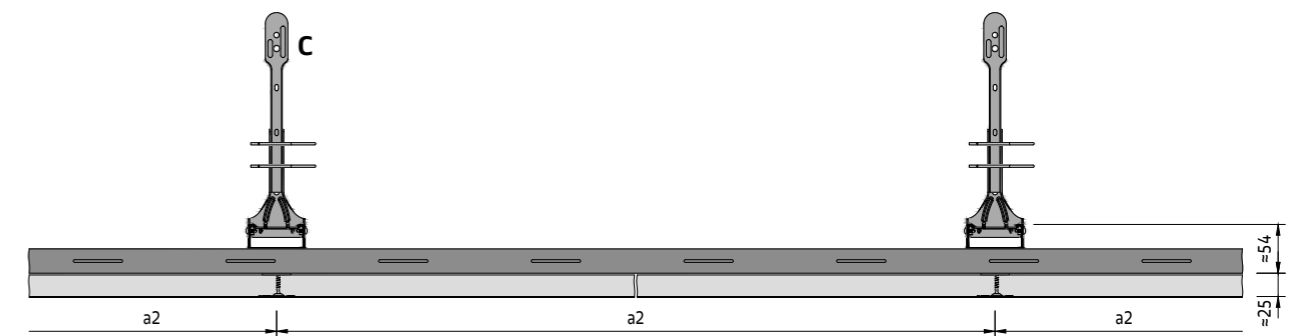


Section A

With RAPID'FIX® suspension system

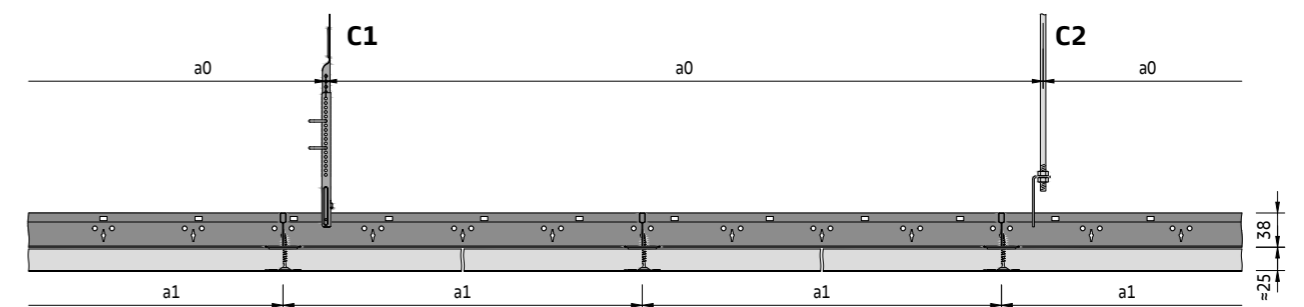


With Knauf CD-Profile suspension system

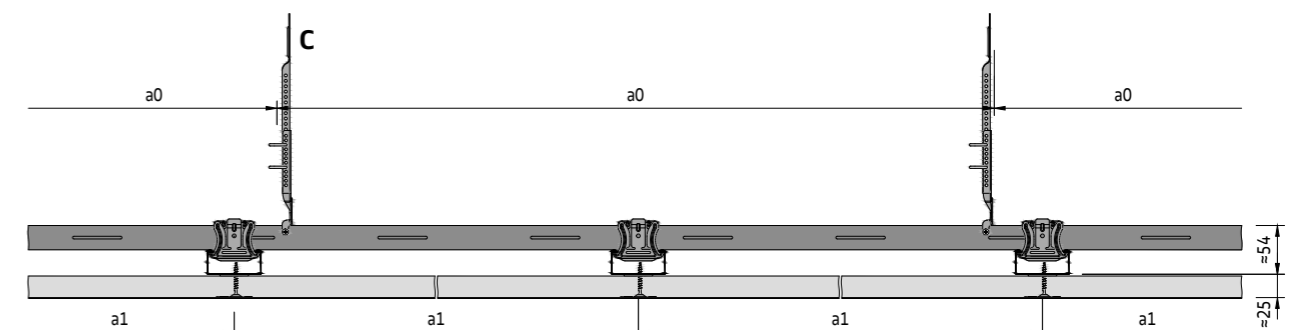


Section B

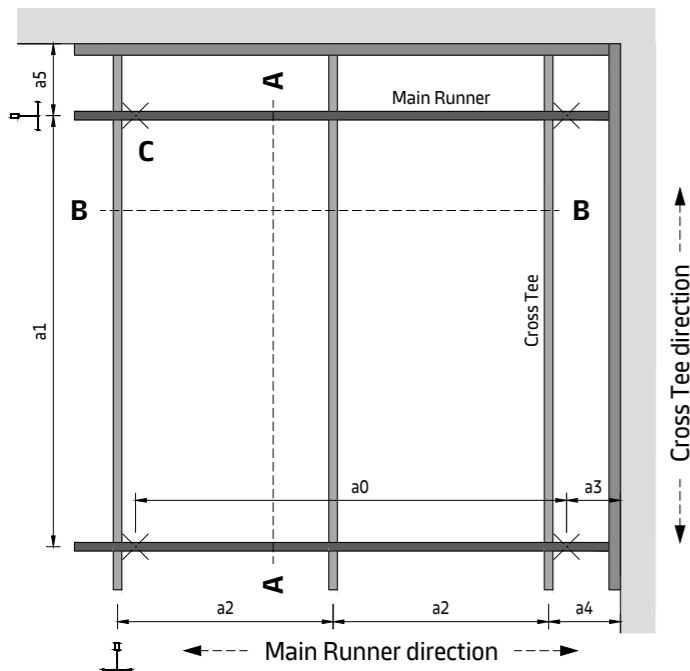
With RAPID'FIX® suspension system



With Knauf CD-Profile suspension system



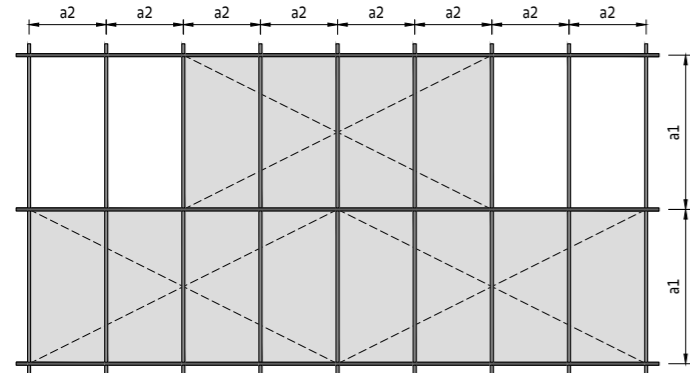
Typical grid layout RAPID'FIX®



Parameters

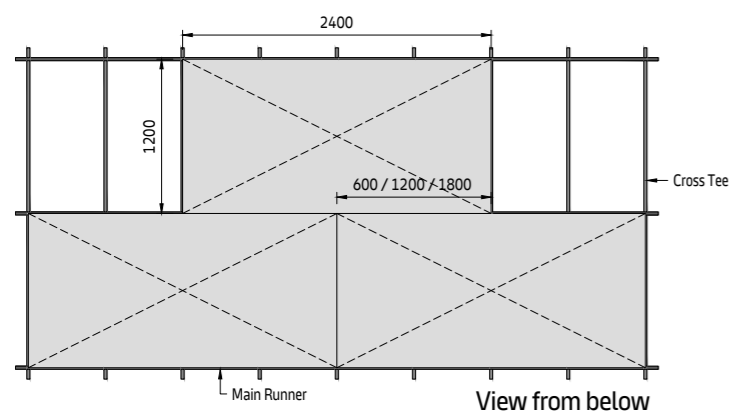
- a0 Max. distance between Main Runner suspension points = 1200 mm *
- a1 Distance between Main Runner = 1200 mm
- a2 Distance between Cross Tees = 600 mm
- a3 Distance from wall = max. 600 mm
- a4 Distance from wall = max. 600 mm
- a5 Distance from wall = max. 600 mm

* Due to constructional or object-related situations, closer hanger spacing may be required. More information can be found in the load table of RAPID'FIX® datasheet. For installation where grazing light is a concern, ensure that the grid is installed in the recommended orientation.



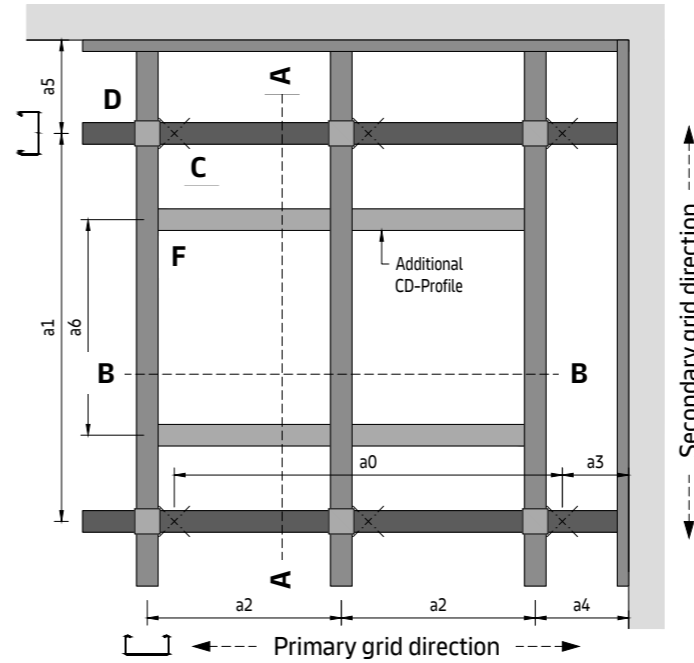
ELEGANZA Panels must be installed with the long edges directly under the Main Runners and the short edges directly under the Cross Tees.

The panel joint must be aligned with the centre of each profile.



ELEGANZA Panels in adjacent rows of Main Runners should be offset 600 / 1200 / 1800mm.

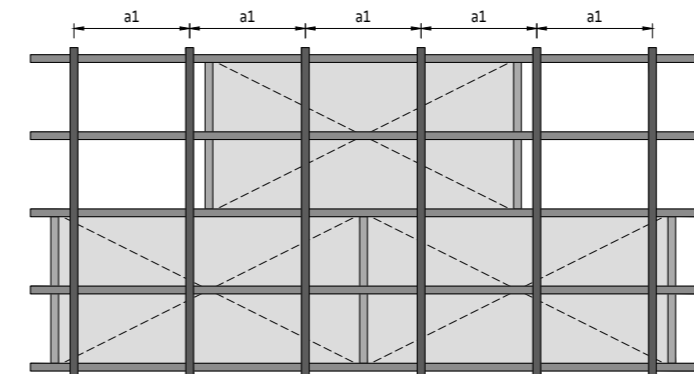
Typical grid layout Knauf CD-Profile



Parameters

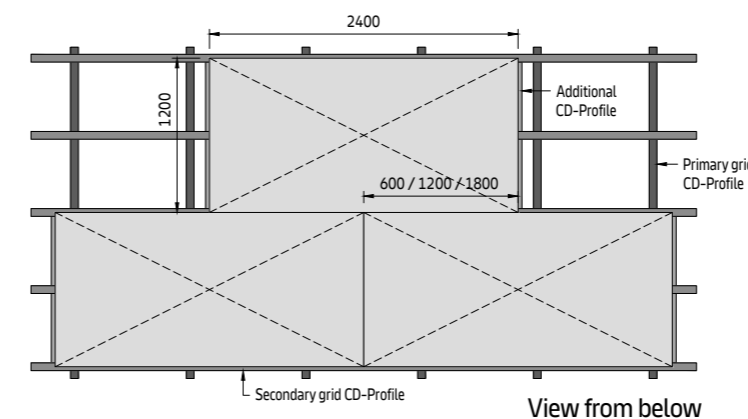
- a0 Max. distance between Knauf CD-Profile suspension points = 1000 mm
- a1 Distance between primary Knauf CD-Profiles = 900 mm
- a2 Distance between secondary Knauf CD-Profiles = 600 mm
- a3 Distance from wall = max. 250 mm
- a4 Distance from wall = max. 100 mm
- a5 Distance from wall = max. 150mm
- a6 Distance between additional Knauf CD-Profiles = 2400 mm

For installation where grazing light is a concern, ensure that the grid is installed in the recommended orientation.



ELEGANZA Panels must be installed with the long edges directly under the secondary grid Knauf CD-Profiles and the short edges directly under the additional Knauf CD-Profiles.

The panel joint must be aligned with the centre of each profile.



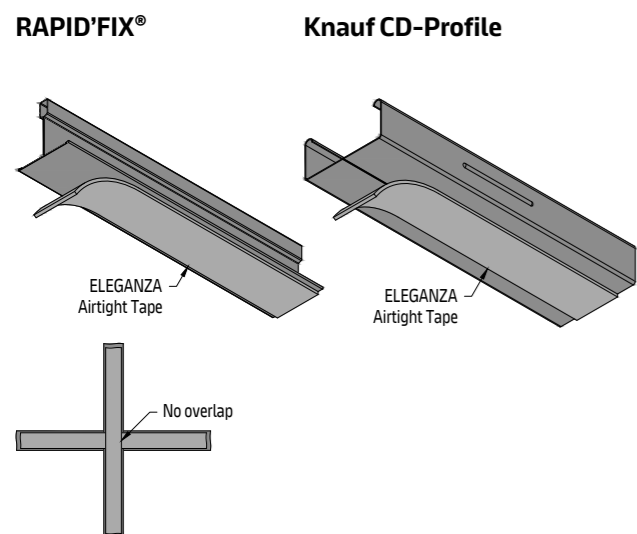
ELEGANZA Panels in adjacent rows of each second secondary grid Knauf CD-Profiles should be offset 600 / 1200 / 1800 mm.

General installation sequence

- 1a. Install the selected grid system as described in the RAPID'FIX® or Knauf CD-Profiles section, including C-Channel perimeter trim
Tools / equipment needed: Laser level, drill, tape measure, pencil, tin snips, screwdriver
- 1b. Install the ELEGANZA Airtight Tape
Tools / equipment needed: Utility knife
2. Install the ELEGANZA Panels
Tools / equipment needed: ELEGANZA Joint Preparation Tool, panel lift, tape measure, pencil, utility knife, screwdriver
- 3a. First ELEGANZA Acoustic Joint Filler application
Tools needed: 100 mm drywall filler trowel, mixer, possibly "Giraffe" sander, ELEGANZA Quality Check #3 - Level Gauge
- 3b. Second ELEGANZA Acoustic Joint Filler application
Tools needed: 150 mm drywall filler trowel, mixer, possibly "Giraffe" sander, ELEGANZA Quality Check #3 - Level Gauge
- 3c. ELEGANZA Acoustic Joint Finish application
Tools needed: 200 mm drywall filler trowel, acrylic based sealant, mixer, ELEGANZA Quality Check #3 - Level Gauge
- 3d. Sanding of filled panel joints / fixing points
Tools needed: "Giraffe" sander, 200 mm drywall filler trowel, ELEGANZA Quality Check #3 - Level Gauge
4. ELEGANZA Silent Plaster acoustic finish application
Tools / equipment needed: Protective film, masking tape, suitable airless device

It is essential to always wear the appropriate personal protective equipment (PPE) for each work step. This includes, among others, safety glasses, safety gloves, safety shoes, and, if necessary, a dust mask, hearing protection, and overalls.

1b - ELEGANZA Airtight Tape



Before applying the ELEGANZA Airtight Tape, check that the installed grid system is at the correct height and level. Ensure that the substructure is perpendicular.

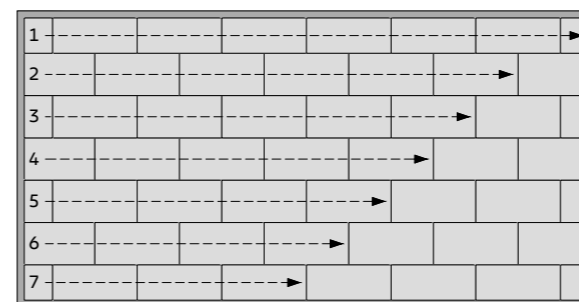
Install the ELEGANZA Airtight Tape on the underside of all RAPID'FIX® or Knauf CD-Profile grid and C-Channel perimeter trim.

Make sure there are no gaps or overlaps. These are also not permitted at intersections and can lead to leaks and consequential damage.

Remove the protective film from the ELEGANZA Airtight Tape.

2 - ELEGANZA Panels

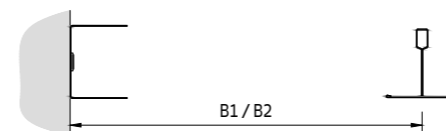
Installation sequence ELEGANZA Panels



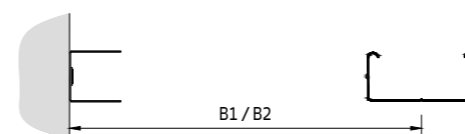
Define the installation sequence of the ELEGANZA Panels starting from one wall. Alternatively, the panels can be installed starting from the centre of the room.

ELEGANZA Panel cutting

RAPID'FIX®



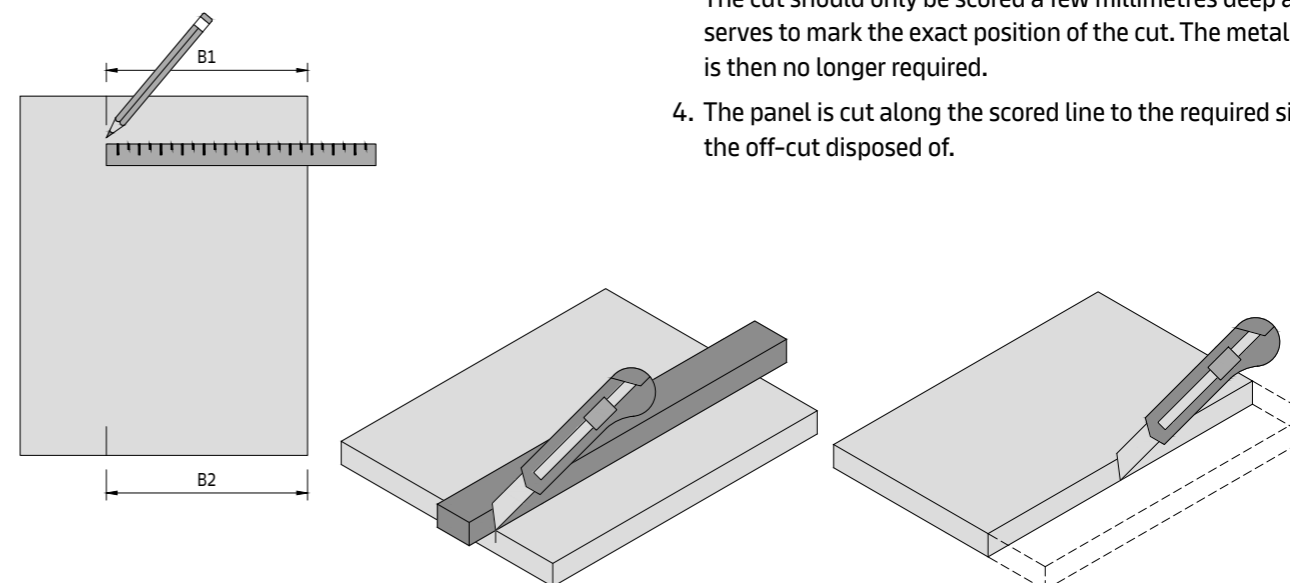
Knauf CD-Profile



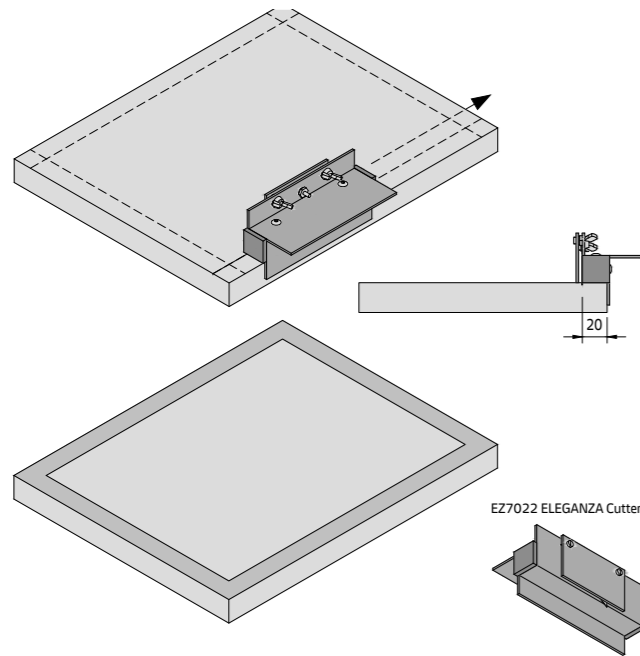
The following steps are an example for cutting the first row.

Only make cuts when the perpendicularity of the grid system is guaranteed.

1. The dimensions between the profile and perimeter trim / wall should be measured before the installation. To avoid further work, this should always be done at the start (B1) and end (B2) of every element (to account for angled walls, unevenness, etc.).
2. The dimensions are transferred to the panel. This can be done on the face side of the tile, but always ensure that you use clean tools.
3. For an exact cut use a clean metal guide and a sharp cutter. The cut should only be scored a few millimetres deep and serves to mark the exact position of the cut. The metal guide is then no longer required.
4. The panel is cut along the scored line to the required size and the off-cut disposed of.



Panel edge scrim removal



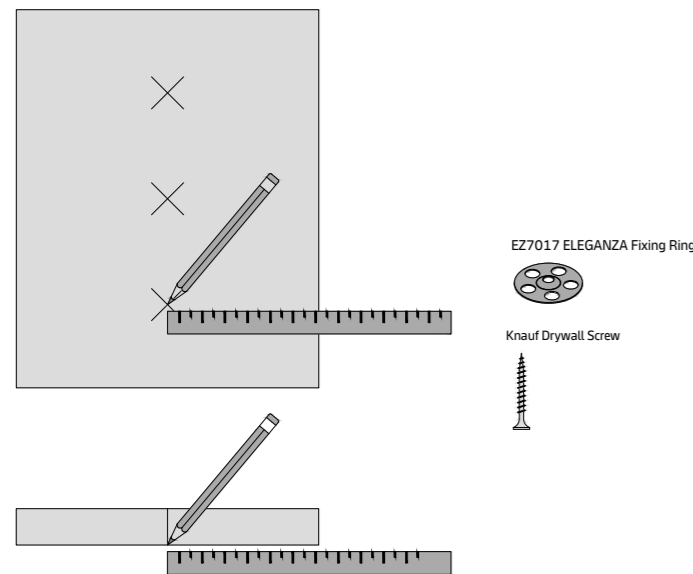
Perimeter panels

Use the ELEGANZA Cutter to remove approx. 20 mm of the ELEGANZA Panel scrim on all sides where two panels abut.

Full panels

Use the ELEGANZA Cutter to remove approx. 20 mm of the ELEGANZA Panel scrim on all sides where two panels abut.

ELEGANZA Fixing Ring

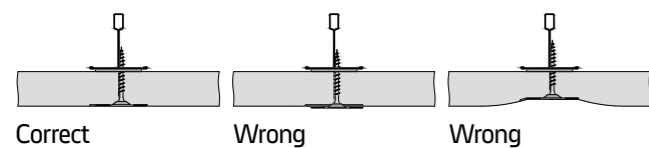


Mark the fixing points in the centre of the ELEGANZA Panel as shown in the screwing diagrams.

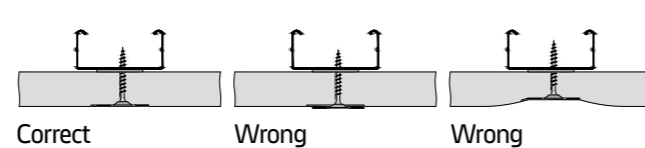
Use Knauf Drywall Screws TN 3.5 x 35 mm with Fine Thread.

Mark the fixing points on the edges of the ELEGANZA Panels as shown in the screwing diagrams.

RAPID'FIX®



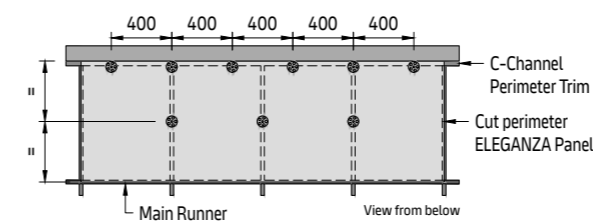
Knauf CD-Profile



When installing ELEGANZA Panels, the ELEGANZA Fixing Rings and drywall screw heads should be flush with the face of the ELEGANZA Panel (i.e., not proud or screwed in too far).

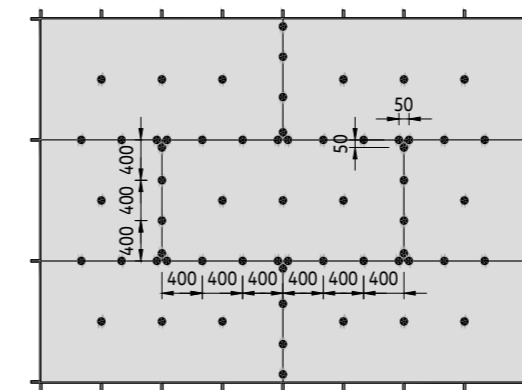
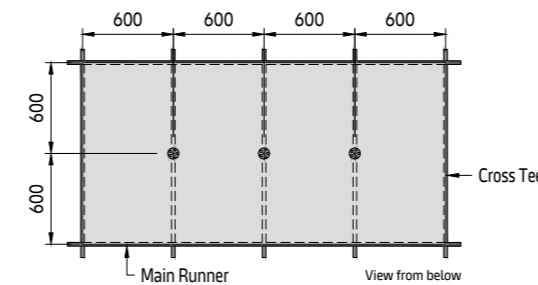
Screwing Diagrams

Cut perimeter panel row with RAPID'FIX®



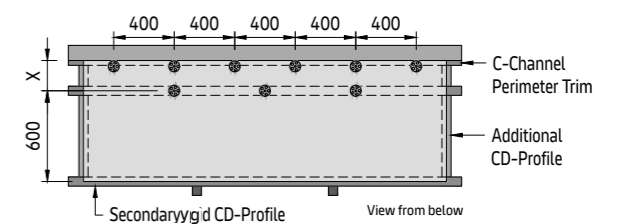
Manually lift the cut perimeter ELEGANZA Panels into position and with fixing ring to the central Cross Tees. Also fix to the C-Channel Perimeter Trim at 400 mm centres.

Full panel row with RAPID'FIX®



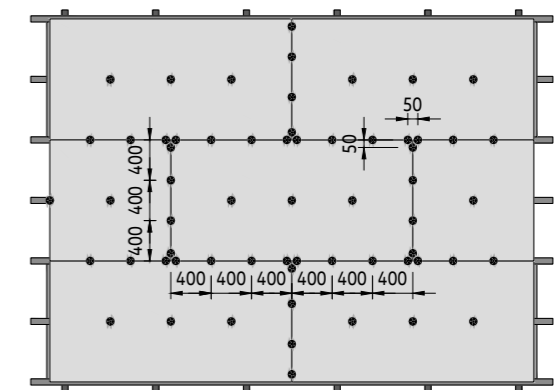
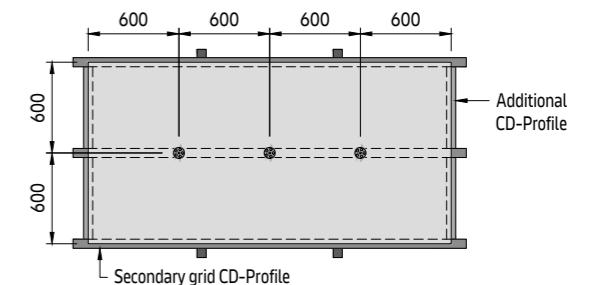
Initially, fix the ELEGANZA Panels to the central Cross Tees with ELEGANZA Fixing Rings. Once adjacent ELEGANZA Panels have been installed, fix both panels with ELEGANZA Fixing Rings at 400 mm centres to the Main Runners and Cross Tees. For full ELEGANZA Panels, a panel lift should be used.

Cut perimeter panel row with Knauf CD-Profile



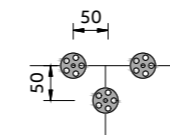
Manually lift the cut perimeter ELEGANZA Panels into position and with fixing ring to the central Knauf CD-Profiles. Also fix to the C-Channel Perimeter Trim at 400 mm centres.

Full panel row with Knauf CD-Profile



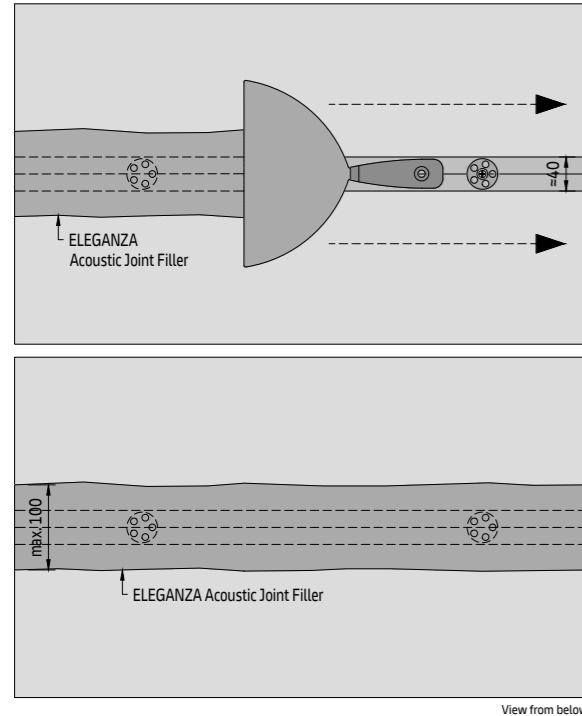
Initially, fix the ELEGANZA Panels to the central secondary grid Knauf CD-Profile with ELEGANZA Fixing Rings. Once adjacent ELEGANZA Panels have been installed, fix both panels with ELEGANZA Fixing Rings at 400 mm centres to the Knauf CD-Profiles.

Crossing point fixing



Move each screw 50 mm inwards from the crossing point. Ensure that each edge of the ELEGANZA Panel is screwed down individually at each joint, as shown in the drawing on the left.

3a - First ELEGANZA Acoustic Joint Filler application



Mix ELEGANZA Acoustic Joint Filler with water using a mixer tool as per packaging instructions.

Apply a first coat of the ELEGANZA Acoustic Joint Filler in a total width of max. 100 mm along all panel joints.

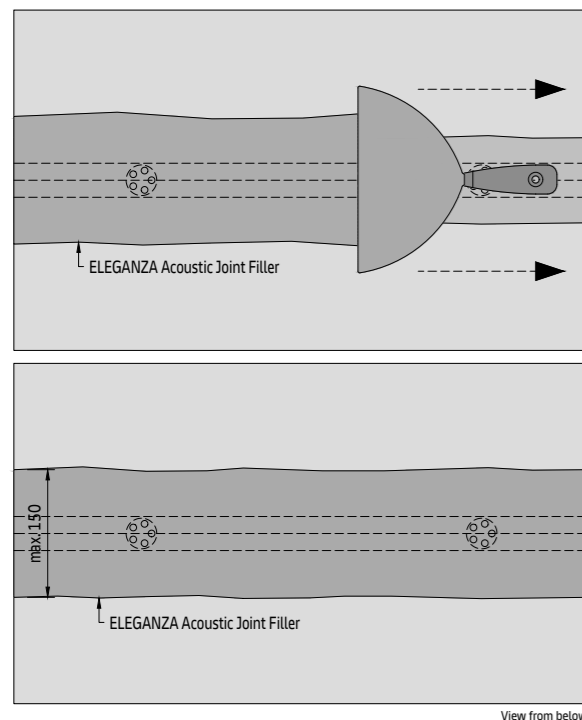
During application, continuously check the flatness of the ELEGANZA Acoustic Joint Filler.

Apply a first coat of ELEGANZA Acoustic Joint Filler at the fixing points.

The ELEGANZA Acoustic Joint Filler should always be flush with the fleece surface of the ELEGANZA Panel.

Let the ELEGANZA Acoustic Joint Filler dry for at least 6 hours or as long as necessary depending on the environmental conditions (see general information chapter).

3b - Second ELEGANZA Acoustic Joint Filler application



Before starting the second application of ELEGANZA Acoustic Joint Filler, the first layer must be checked to ensure that it is fully dry (using moisture meter reading, less than 10%) and that it is flush with the face of the ELEGANZA Panel.

Any unevenness in the first layer of ELEGANZA Acoustic Joint Filler can be scraped off, or sanded (120 g paper) or using the drywall filler trowel.

Apply a second layer of ELEGANZA Acoustic Joint Filler in a total width of max. 150 mm along all panel joints and fixing points.

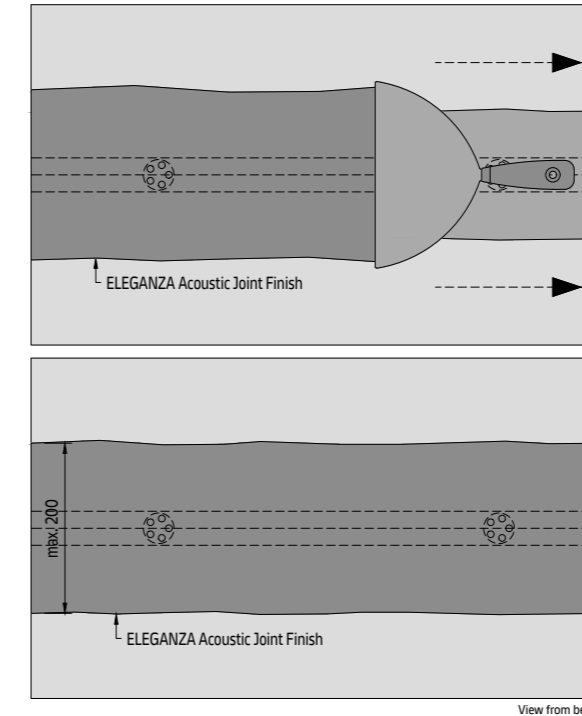
During application, continuously check the flatness of the ELEGANZA Acoustic Joint Filler. It should be flush with the face of the ELEGANZA Panel.

Let the ELEGANZA Acoustic Joint Filler dry for at least 6 hours or as long as necessary depending on the environmental conditions (see general information chapter).

Before starting the application of ELEGANZA Acoustic Joint Finish, the second layer of ELEGANZA Acoustic Joint Filler must be checked to ensure that it is fully dry (using moisture meter reading, less than 10%) and that it is flush with the face of the ELEGANZA Panel.

Any unevenness in the second layer of ELEGANZA Acoustic Joint Filler can be scraped off, using the drywall filler trowel or sanded using 120 g sandpaper.

3c - ELEGANZA Acoustic Joint Finish application

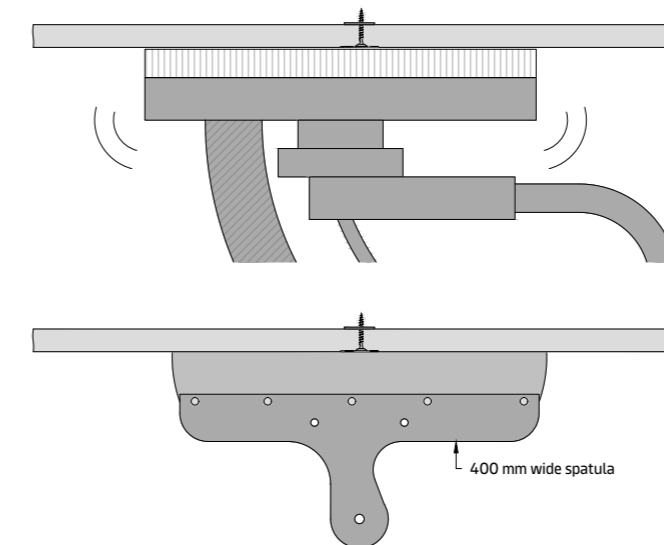


Apply a first layer of ELEGANZA Acoustic Joint Finish in a total width of max. 200 mm along all panel joints and fixing points.

During application, continuously check the flatness of the ELEGANZA Acoustic Joint Finish. It should be flush with the face of the ELEGANZA Panel.

Let the ELEGANZA Acoustic Joint Finish dry for at least 8 hours or as long as necessary depending on the environmental conditions (see general information chapter).

3d - Sanding of filled panel joints / fixing points



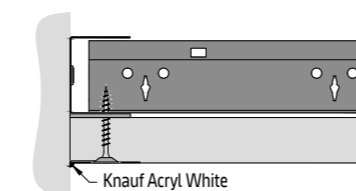
Sand the filled panel joints and fixing points using 120 g sandpaper so that they are smooth and flat.

Lightly sand the ELEGANZA Panel surface using 120 g sandpaper.

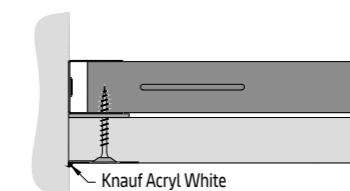
After sanding check the flatness of the panel joints and fixing points using a 400 mm wide spatula and a 0.7 mm thick plastic card (ELEGANZA quality check #3).

Seal the connection between the ceiling and the wall with Knauf Acryl White.

RAPID'FIX®



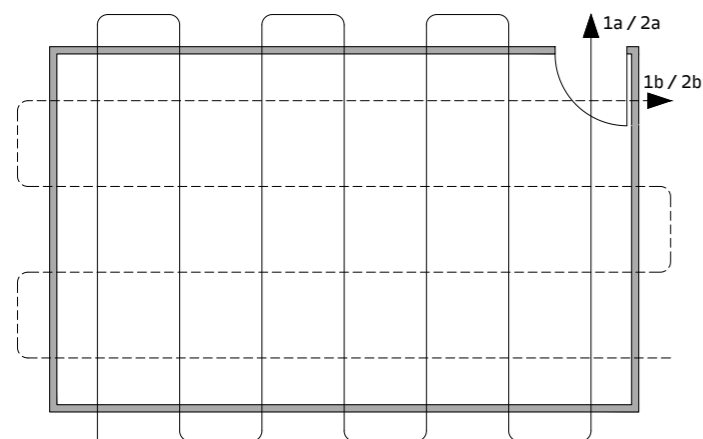
Knauf CD-Profile



4 - ELEGANZA Silent Plaster acoustic finish application

ELEGANZA Seamless Acoustics requires suitable spray equipment. Further information can be found in the “ELEGANZA Airless Spray Equipment” document.

Spraying method



Before the ELEGANZA Silent Plaster is applied, service integrations such as access hatches, light fitting frames, etc. must be installed. This also includes any reinforcements or suspensions. ELEGANZA Silent Plaster should be applied using a smooth movement in overlapping layers following the method shown in the diagram on the left. Spraying must begin and end outside the ceiling to be sprayed. The drying time between the layers 1a and 1b should be between 10 minutes and 30 minutes.

An interim acceptance should be agreed with the client before applying the spray plaster.

ELEGANZA Silent Plaster application

Use protective sheeting to cover all non-ELEGANZA surfaces, as well as installations, cut-outs, edge profiles, etc.

Add 300 - 400 ml water to one bucket of ELEGANZA Silent Plaster and briefly stir it with a plaster stirrer.

Fill the ELEGANZA Silent Plaster Spray Applicator with the ELEGANZA Silent Plaster. Check the settings and run a test on a sample surface. The operating pressure of the machine should be 160 - 180 bar.

Apply the first layers 1a + 1b of ELEGANZA Silent Plaster following the diagram above to give a fine and even coverage. The drying time between layers 1a + 1b should be min. 10 minutes and max. 30 minutes. The layers together should provide ≈50% of the visual coverage.

Let the first two ELEGANZA Silent Plaster layers dry for at least 8 hours (using moisture meter reading, less than 10%) or as long as necessary depending on the environmental conditions.

Before applying the second both layers 2a + 2b of ELEGANZA Silent Plaster, check that the first layers are fully dry (using moisture meter reading, less than 10%). Apply the second both layers of ELEGANZA Silent Plaster to add the final 50% of the visual coverage ensuring a fine and even finish. The drying time between layers 2a + 2b should min. 10 minutes and max. 30 minutes.

It is recommended to remove protective sheeting as soon as possible after spraying. When doing so, make sure not to have any contact with the freshly sprayed surface.

Allow the second two layers of ELEGANZA Silent Plaster to dry for 24 hours or as long as necessary depending on the environmental conditions. If possible, use mechanical ventilation. Only after this time can technical surface elements be installed.

When taking breaks, remove the nozzle (dries up very quickly), rinse it thoroughly with water and remove the ELEGANZA Silent Plaster from the nozzle.

Standard components

- 7777M4 ELEGANZA Panel 2400 x 1200 x 25 mm
- EZ7016 ELEGANZA Airtight Tape
- EZ7017 ELEGANZA Fixing Ring
- EZ7019 ELEGANZA Acoustic Joint Filler
- EZ7020 ELEGANZA Acoustic Joint Finish
- EZ7021 ELEGANZA Silent Plaster
- — Drywall Screw TN 3.5 x 35 mm with Fine Thread (by Knauf)

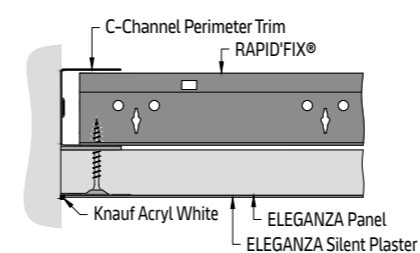
Optional components

- — 25 mm edge protection profile
- — Edge protection profile Dallas 90°
- — Knauf POWER-ELAST High Performance Hybrid Sealant
- — Knauf Acryl White

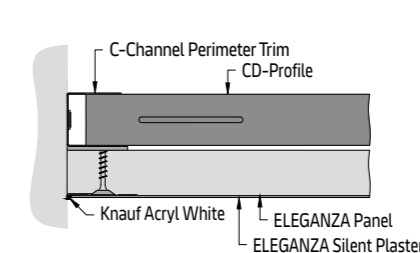
Application details

Perimeter detail

RAPID'FIX®



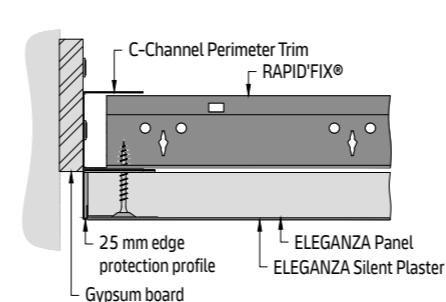
Knauf CD-Profile



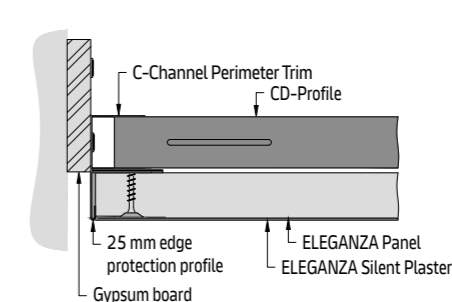
Sufficient air passage must be provided to equalise pressure between the room and plenum (e.g., shadowline perimeter or floating perimeter along at least one edge).*

Shadowline perimeter detail

RAPID'FIX®



Knauf CD-Profile

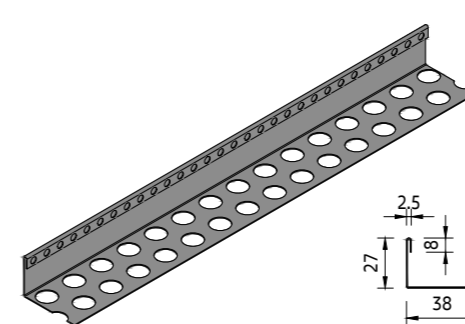


Allow sufficient air passage by using individual pieces of plasterboard (approx. 80 x 50 mm) to equalise pressure between the room and the plenum rather than a continuous plasterboard strip.*

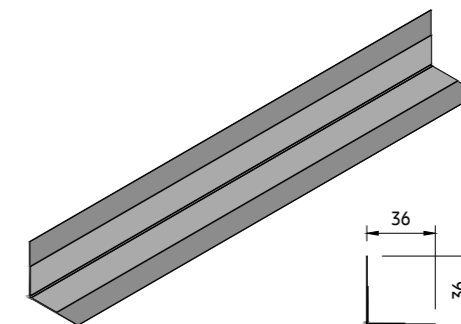
Fix the 25 mm edge protection profile to the ELEGANZA Panel with Knauf POWER-ELAST.

* Min. 0.5% of the ceiling area must remain open.

25 mm edge protection profile

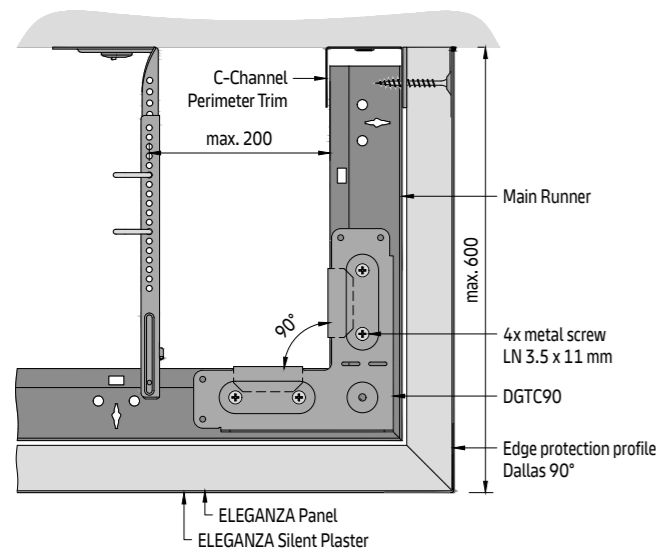


Edge protection profile Dallas 90°

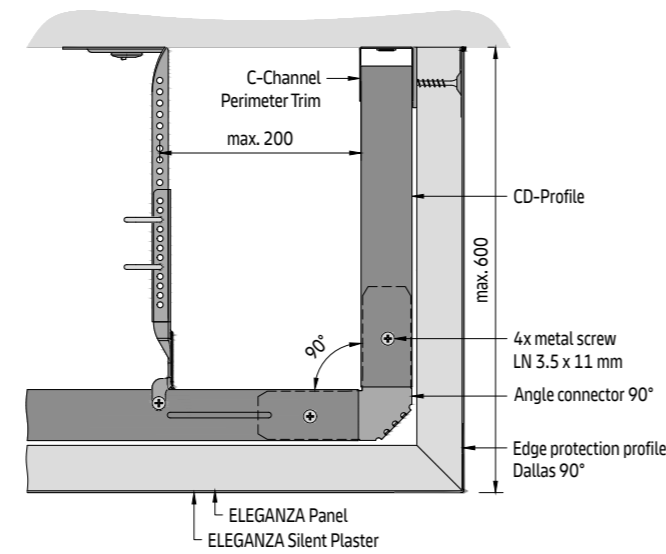


Upstand / bulkhead detail 90°

RAPID'FIX®



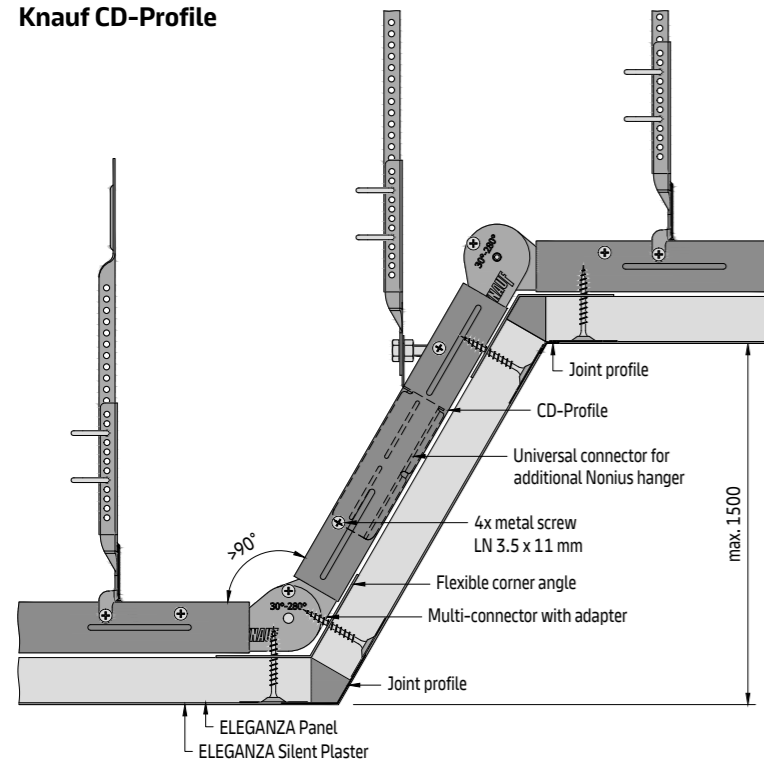
Knauf CD-Profile



For all-round design as upstand or bulkhead detail a sufficient air passage must be provided to equalise pressure between the room and plenum (e.g., shadowline perimeter or floating perimeter along at least one edge).*

Sloped upstand / bulkhead / height offset detail

Knauf CD-Profile

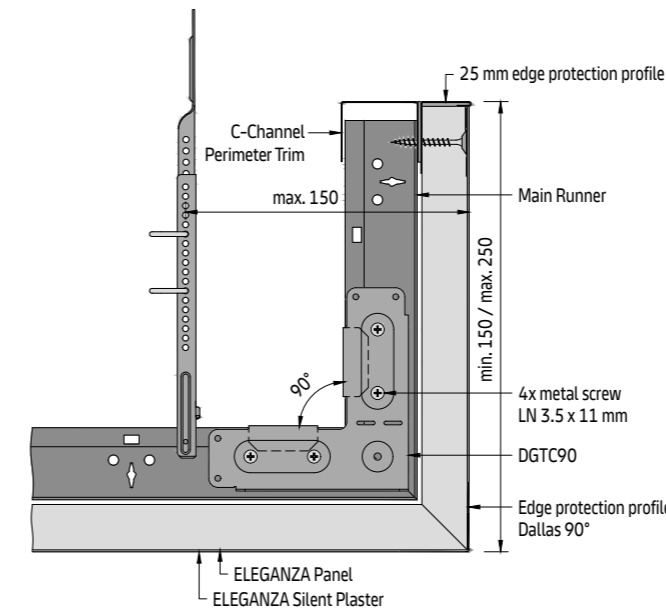


For all-round design as upstand or bulkhead detail a sufficient air passage must be provided to equalise pressure between the room and plenum (e.g., shadowline perimeter or floating perimeter along at least one edge).*

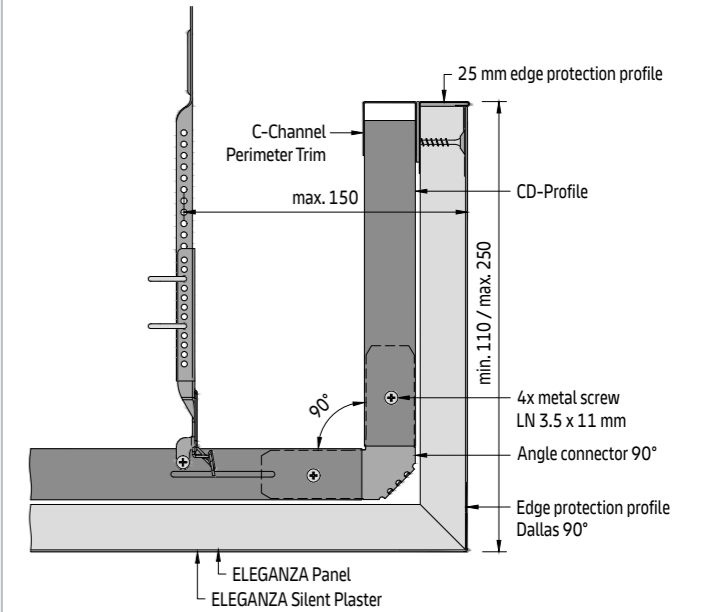
* Min. 0.5% of the ceiling area must remain open.

Floating upstand detail

RAPID'FIX®



Knauf CD-Profile

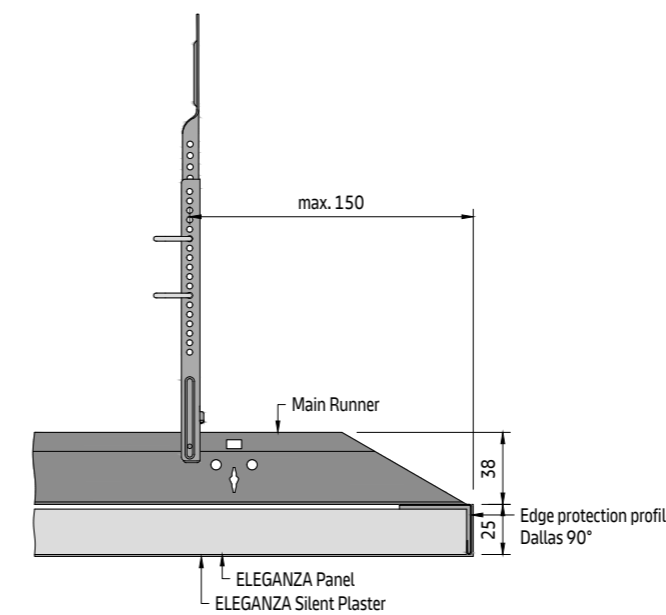


For installations unattached to any walls, an appropriate lateral bracing may be required.

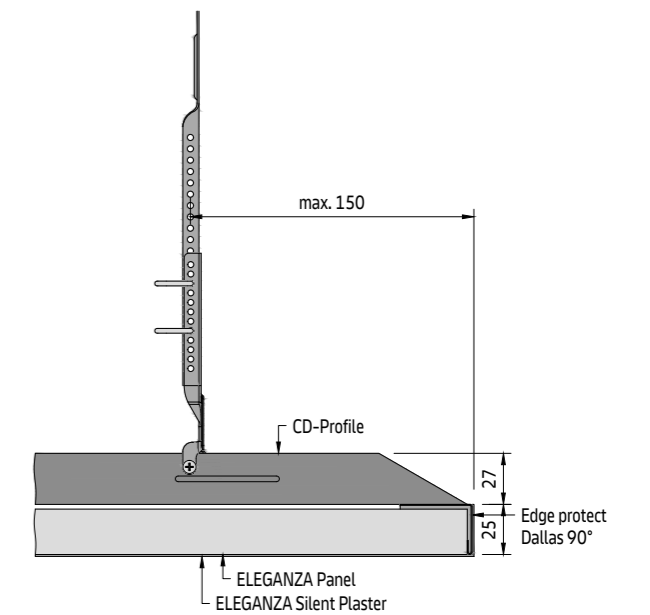
Fix the 25 mm edge protection profile to the ELEGANZA Panel with Knauf POWER-ELAST.

Slim floating edge detail

RAPID'FIX®



Knauf CD-Profile



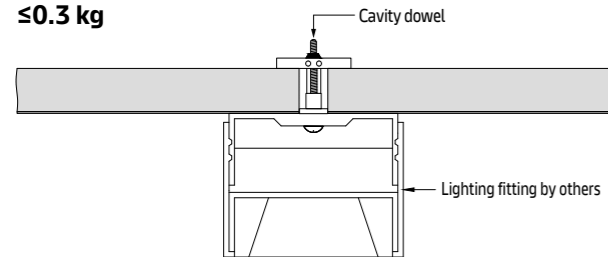
For installations unattached to any walls, an appropriate lateral bracing may be required.

Fix the 25 mm edge protection profile to the ELEGANZA Panel with Knauf POWER-ELAST.

Integration of service elements

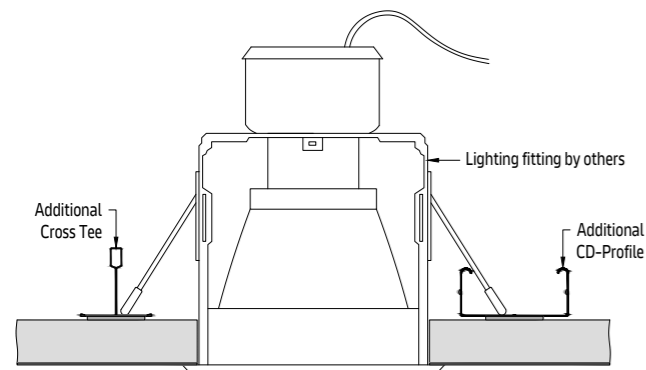
One of the unique features of the ELEGANZA Seamless Acoustics is the 25 mm system thickness which allows many standard accessories for 25 mm (2 x 12.5 mm) plasterboard ceilings to be used.

Lighting / service fitting
≤0.3 kg



Standard lightweight ceiling integration (≤0.3 kg) can be installed in a ceiling with a cavity dowel without the need for additional reinforcement.

≤2.5 kg/m²



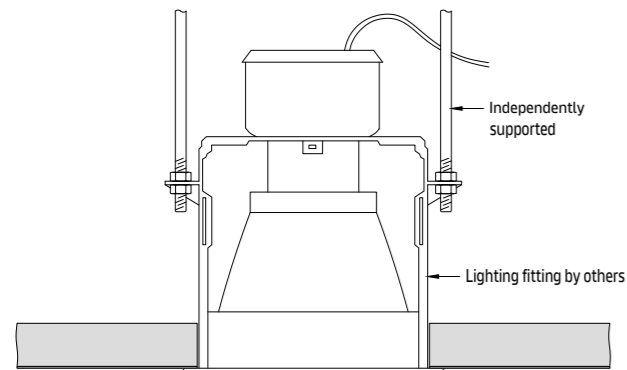
For heavy installations, a reinforcement must be used. This must distribute the load directly to the grid system.

RAPID'FIX®
Additional Cross Tee with ELEGANZA Airtight Tape, as shown in the RAPID'FIX® pages.

Knauf CD-Profile
Additional Knauf CD-Profile with ELEGANZA Airtight Tape, as shown in the Knauf CD-Profile pages.

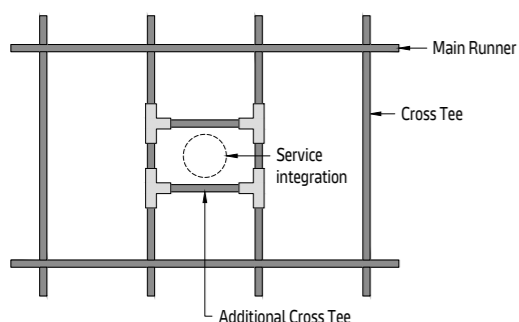
This assumes the fulfilment of the requirements of the load table.

>2.5 kg/m²

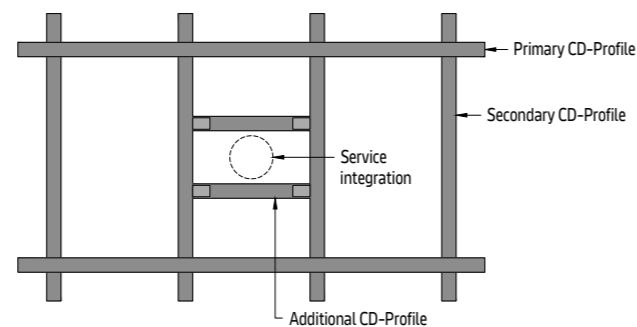


Depending on the weight of the lighting and the reinforcement, additional suspension may be required.

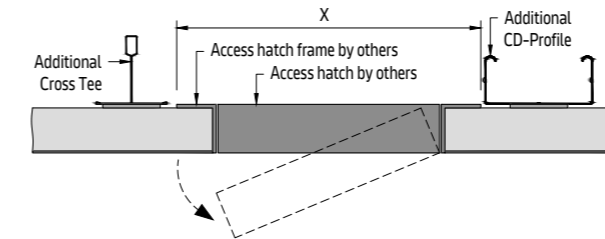
RAPID'FIX®



Knauf CD-Profile



Access hatches

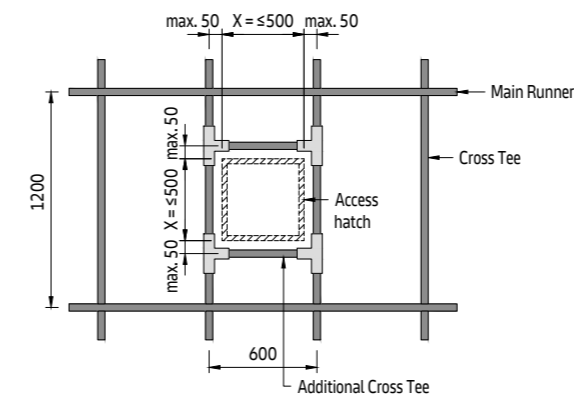


For locations where access to the plenum is needed, a standard inspection hatch designed for 25 mm plasterboard may be used. Always refer to the guidelines of the inspection hatch manufacturer.

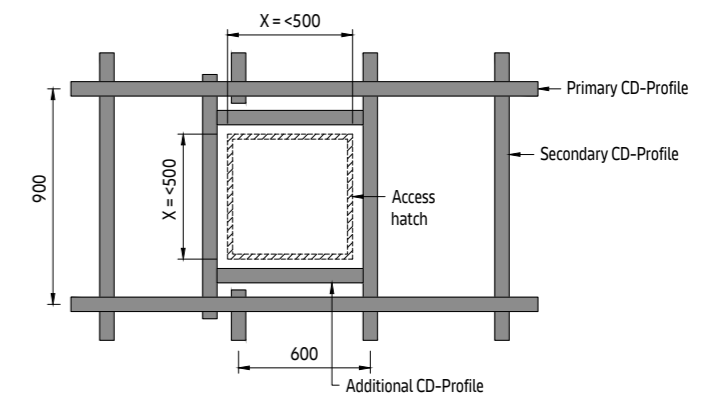
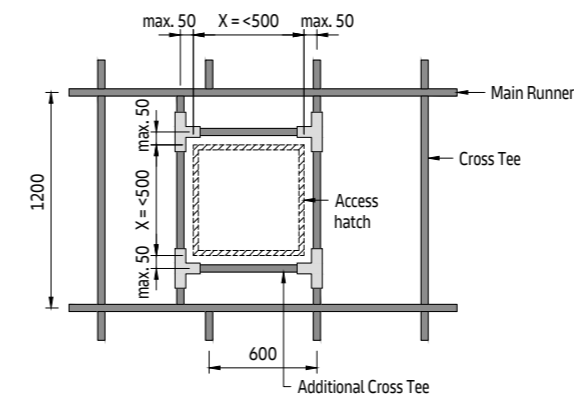
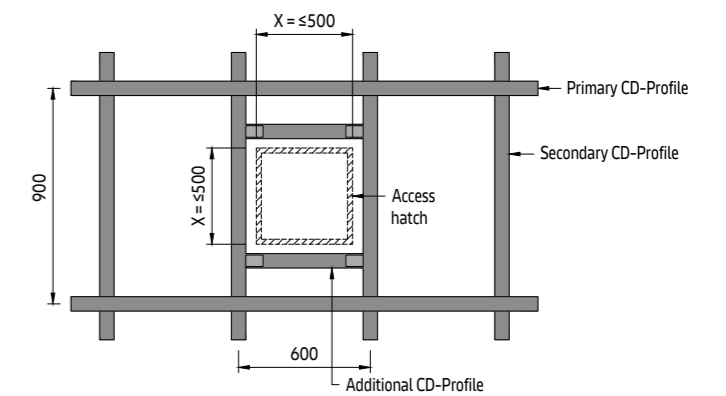
To create additional support, additional RAPID'FIX® Cross Tees or Knauf CD-Profiles can be used to create a frame for access hatches. General load conditions apply as for service elements.

Advance planning of access hatch locations is required when defining the layout of the grid. The surface of the inspection hatch may also be sprayed with ELEGANZA Silent Plaster to create a homogeneous appearance.

RAPID'FIX®



Knauf CD-Profile



Expansion joints

Where expansion joints are necessary, the appropriate stock expansion joint profiles for 25 mm plasterboard can be used. Please take national regulations and standards into account. Furthermore, you can find more information in the TBA guideline for "Seamless Acoustic Ceilings". This information is available upon request from Knauf Ceiling Solutions.

Attention:

A suspended ceiling construction is basically only intended to support its own weight. This applies not only to seamless acoustic ceilings, but also for suspended plasterboard ceilings and system ceilings. Additional loads must be known in advance and, if necessary, appropriate constructive action must be taken. As soon as third parties start to apply extra loads to this ceiling (lamps, ventilation boxes, etc.), they will have to investigate whether the ceiling is suitable for this, or a reinforced construction or direct attachment to the upper storey floor will have to be made. The party that realises the extra load on the ceiling is legally responsible.

Material consumption**Material required per m² (no waste included)**

Components		RAPID'FIX®	Knauf CD-Profile
ELEGANZA Panel	[pcs/m ²]	0.35	0.35
ELEGANZA Airtight Tape	[m/m ²]	3.40	2.08
ELEGANZA Fixing Ring	[pcs/m ²]	6.00	6.00
Knauf Drywall Screw TN 3.5 x 35 mm with Fine Thread	[pcs/m ²]	6.00	6.00
ELEGANZA Acoustic Joint Filler	[kg/m ²]	0.20	0.20
ELEGANZA Acoustic Joint Finish	[kg/m ²]	0.10	0.10
ELEGANZA Silent Plaster	[kg/m ²]	1.40	1.40
Knauf Acryl White	[tube/m ²]	0.10	0.10
RAPID'FIX® Main Runner	[m/m ²]	0.84	-
RAPID'FIX® Cross Tee 1200 mm	[m/m ²]	1.67	-
C-Channel Perimeter Trim	[m/m ²]	≈0.6	-
Knauf CD-Profile	[m/m ²]	-	3.19
Cross connector	[pcs/m ²]	-	1.85
Splice connector	[pcs/m ²]	-	variable*
Universal connector	[pcs/m ²]	-	1.39
Metal screw LN 3.5 x 11 mm	[pcs/m ²]	-	3.19
Suspension points	[pcs/m ²]	0.70	0.90
UD-Runner	[m/m ²]	-	≈0.6

The shown quantities are theoretical and based on an ideal layout, without considering the actual room layout. The ideal layout is based on a calculation of 10 x 10 m (100 m²). This calculation does not allow any damage, spare nor wastage. The final quantities and type of suspension have to be checked before ordering. Soffit and wall fixings by others.

* depending on the length of the Knauf CD-Profiles

ELEGANZA Maintenance & Cleaning**Cleaning**

For general cleaning of the ELEGANZA Seamless Acoustics system use a clean, soft brush or vacuum cleaner in low vacuum mode. The use of water, soap or chemical cleaners is not recommended as this may cause marking / damage to the ceiling.

Respraying

The ELEGANZA Seamless Acoustics system can be resprayed with a thin layer of ELEGANZA Silent Plaster to freshen it up or to cover up natural discolouration. Before respraying, all minor damaged areas and air leaks must be corrected. It must be ensured that the ELEGANZA ceiling is completely dry. Prior to the application of the Silent Plaster, the existing surface must be lightly sanded with sandpaper (80 g paper) to obtain an even final coat.

The application of an additional layer of ELEGANZA Silent Plaster, paint or other coating will affect the technical performance of ELEGANZA. These include sound absorption, building material classification, light reflection and others.

Minor damage

1. Sand the affected area with sandpaper (80 g paper): Ensure that the residual grain of the ELEGANZA Silent Plaster is removed. The area must be smooth.
2. Re-fill the area with ELEGANZA Joint Filler and ELEGANZA Joint Finish. Please note the drying times.
3. Respray the area. Therefore, a hopper gun can be used.

Large-scale damage

1. Cut the ELEGANZA Panel or piece of panel out of the ceiling.
2. Check that the substructure and aluminum foil on the back are still intact. If necessary, reapply ELEGANZA Airtight Tape.
3. Sand the edges: Ensure that the residual grain of the ELEGANZA Silent Plaster is removed. The area must be smooth.
4. Install the new ELEGANZA Panel / piece of panel:
 - a) For smaller pieces of panel, it is sufficient to glue them along the edges.
 - b) For larger panel pieces, it may be necessary to secure them to an additional grid including ELEGANZA Airtight Tape. Glue and screw the ELEGANZA Panel to the edges at the joints.
5. Repeat the jointing process: Apply two layers of ELEGANZA Acoustic Joint Filler and one layer of ELEGANZA Acoustic Joint Finish, observing the appropriate drying times for each.
6. Depending on the size, respray the surface using either a hopper gun or appropriate spray equipment that was previously used for the ceiling installation.

Ceilings which have naturally discoloured may require complete respraying of the surface to prevent visible colour differences. See spraying instructions. Local repairs and replacement will increase the risk of visible joints under grazing light conditions.

Maintenance and repair of an ELEGANZA Seamless Acoustics system should only be performed by a certified ELEGANZA installer.

Build on us.

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VAT No. pursuant to § 27a of the German VAT Act
(Umsatzsteuergesetz): DE317846056

Board of Directors: Lars Klodwig, Karl Wenig,
Daniel Wolf

EN - 08/2025