



TECTOPANEL (B)

- Acoustical panels for screw-fixing
- Suitable as lining for walls and ceilings
- Installed on wood or steel (CD2 or P45-S25)
- Only filling of screw holes required

CONDITIONS OF USE

- For internal fitout of buildings
- To be installed in a closed-off building

STORAGE

The products must be:

- stored indoors clean and dry
- positioned on a level base
- protected from direct moisture
- stored at humidities of less than 70% RH and temperatures of less than 50°C
- protected from impact and shock
- stacked max. 2 pallets on top of each other

Before installation, please ensure that fixtures to primary construction can withstand the load of the ceiling.
Best Practice: Use of clean cotton gloves when handling product tiles will ensure a good result and a ceiling without fingermarks.

RECOMMENDED ACCESSORIES FOR JOINTING AND FIXING




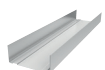

Below accessories are tested and approved for use in connection with Tectopanel.

	PRODUCT NAME	SAP NO.	SIZE	Consumption per m ²	
Accessories for jointing and fixing		Screw SN3.5x30	3503	3.5 x 30 mm	20 pcs.
		Joint Filler - Easy Filler Light	235309		0.35 kg
		Uniflott Finish	129801	8 kg	≤ 0.1 kg
		Filling knife	73962		

INSTALLATION GUIDE TECTOPANEL

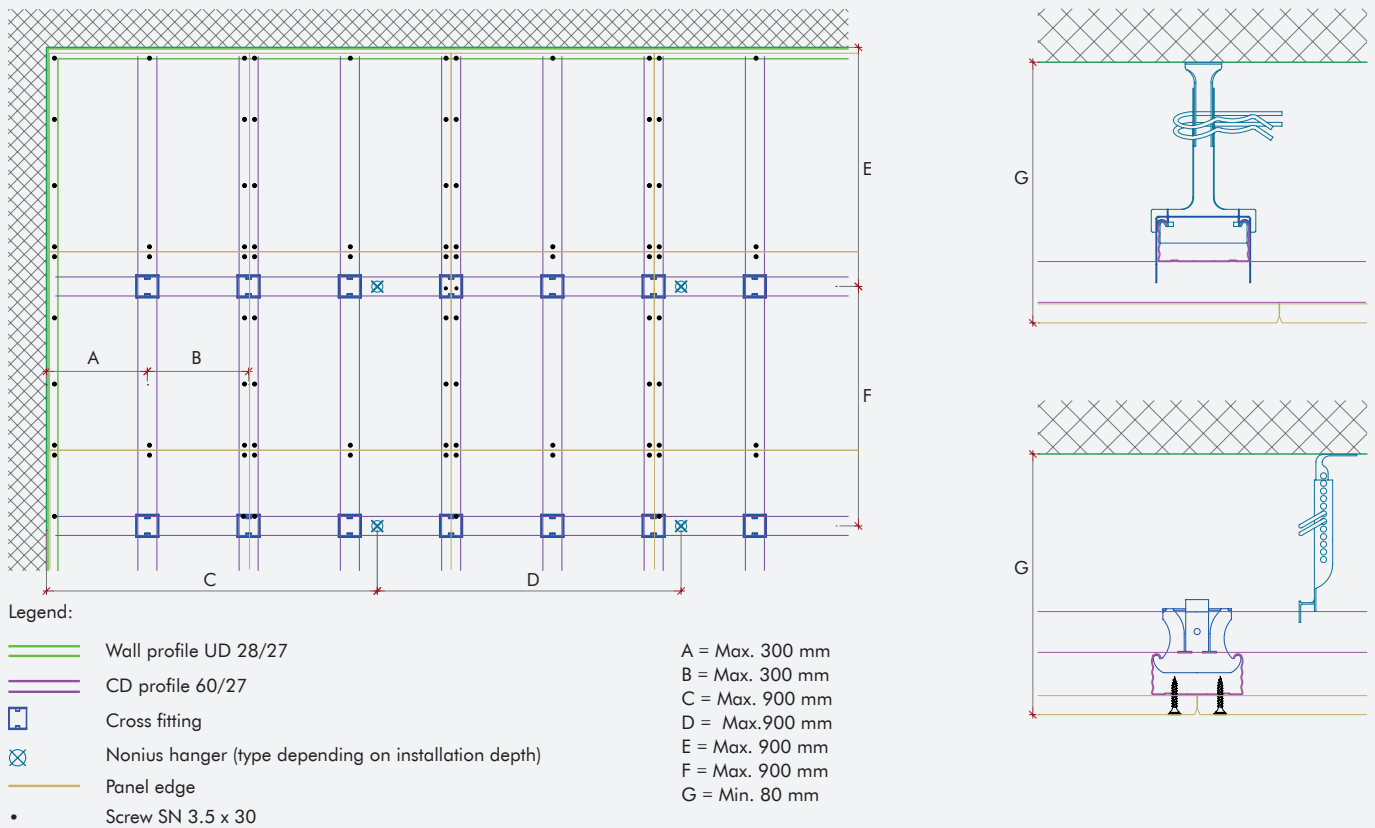
RECOMMENDED ACCESSORIES FOR STEEL FURRING SYSTEMS

Below accessories are tested and approved for use in connection with Tectopanel.

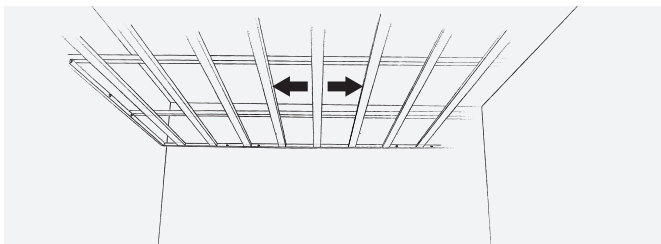
	PRODUCT NAME	SAP NO.	SIZE	Consumption per m ²		
Accessories for CD system - for installation on ceiling		Primary / secondary CD 60/27-profile	3294	60 x 4000 x 27	4.6 m	
		Wall angle UD 28/27	181589	28 x 3000 x 27		
		Length connector CD 60/27	181080	59 x 80 x 28	1.1 pcs.	
		Cross-fitting	3446		3.3 pcs.	
		Split pin for hanger	198907		2.6 pcs.	
		Nonius hanger lower	198904		1.3 pcs.	
		Nonius hanger upper 85mm Nonius hanger upper 135mm Nonius hanger upper 235mm Nonius hanger upper 340mm Nonius hanger upper 440mm Nonius hanger upper 540mm Nonius hanger upper 640mm Nonius hanger upper 740mm Nonius hanger upper 840mm Nonius hanger upper 940mm	198905 198906 198923 198924 198925 198926 198927 198928 198929 198930	125 - 185 135 - 235 235 - 340 340 - 440 440 - 540 540 - 640 640 - 740 740 - 840 840 - 940 940 - 1040	1.3 pcs.	
	Accessories for P45-S25 system - for installation on ceiling		MSK 70 Perimeter profile	181029 181030	2500 3600	1.0 m*
			P45 Primary profile	181684	3600	0.85 m
			S25/85 Secondary profile	181685	3800	3.6 m
		F/F13 Screw	2017	13	8 pcs.	
For installation on walls		Z-profile	199089	30 x 45 x 45 x 2300		

INSTALLATION GUIDE TECTOPANEL AS CEILING LINING

CEILING LAYOUT FOR CD2 SYSTEM

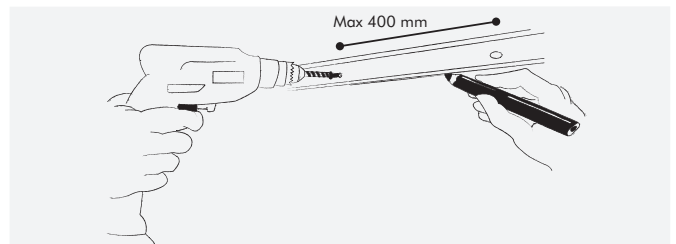


INSTALLATION OF CD2 SYSTEM



CEILING LAYOUT

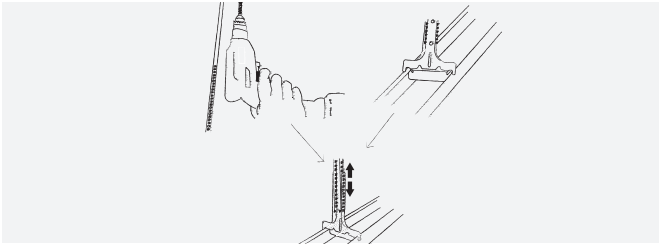
- Divide the ceiling surface from the centre of the room or in accordance with the existing ceiling plans.



INSTALLING THE WALL PROFILE

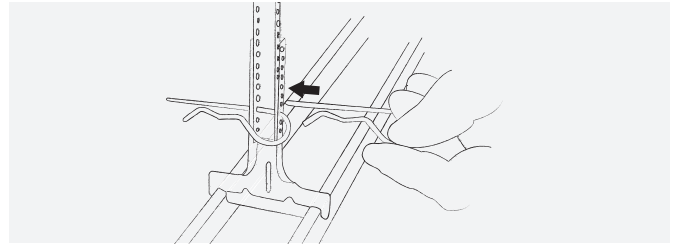
- Mark out.
- Install the wall profile UD 28/27. Choose the method of fixing in accordance with the substrate.

INSTALLATION GUIDE TECTOPANEL AS **CEILING LINING**



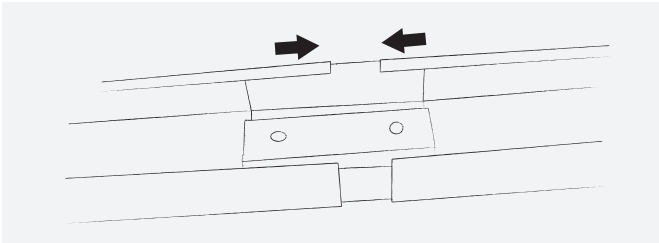
HANGERS

- Secure the upper part to the construction above it at 900 mm c/c. Choose the fixings in accordance with the substrate.
- Secure the lower part to the primary profile.



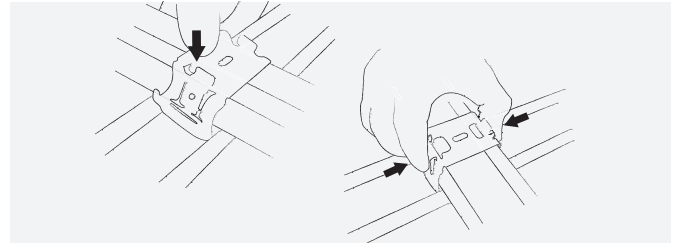
PRIMARY PROFILES

- Connect the two parts of the hangers with two split pins, one immediately above the other.



JOINING CD-PROFILES

- Join the CD profiles with the help of length connectors.

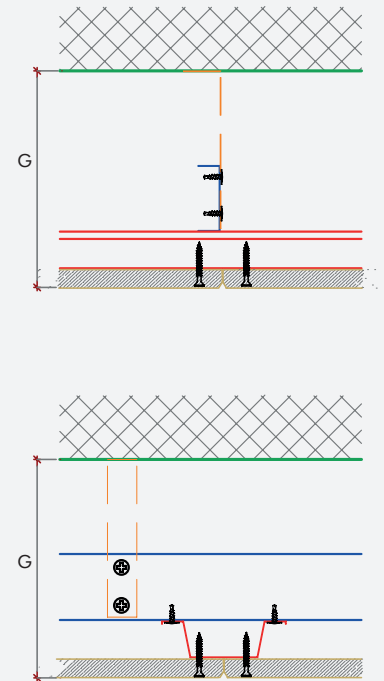
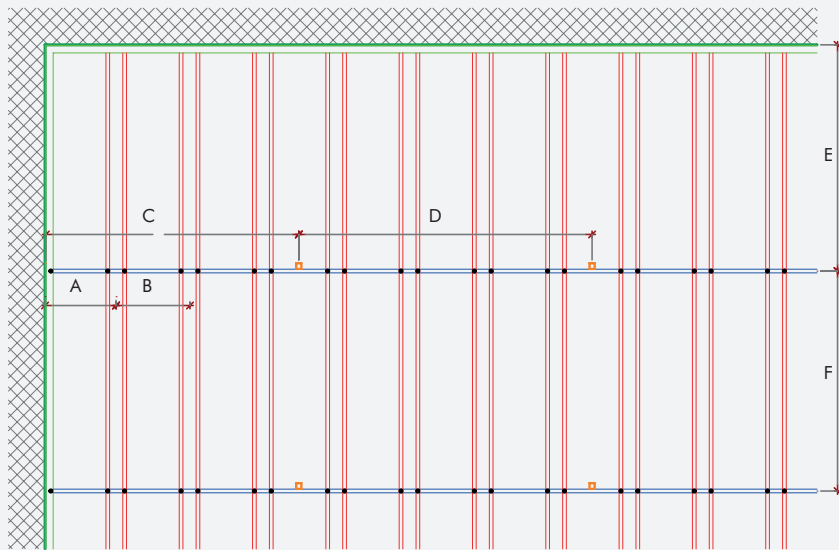


SECONDARY PROFILES






- Place a cross fitting on the primary profile.
- Press the underlying secondary profile into it.
- Adjust the locations of the secondary profiles and lock the cross fitting.

INSTALLATION GUIDE TECTOPANEL AS CEILING LINING

CEILING LAYOUT FOR P45-S25

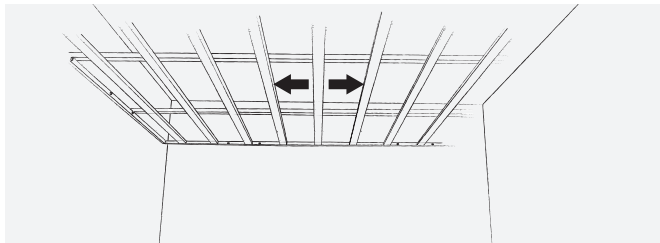


Legend:

-  Primary profile P45
-  Secondary profile S25/85
-  Perimeter profile MSK 70
-  Screw (F/F 13)
-  Hanger (not Knauf Danoline)

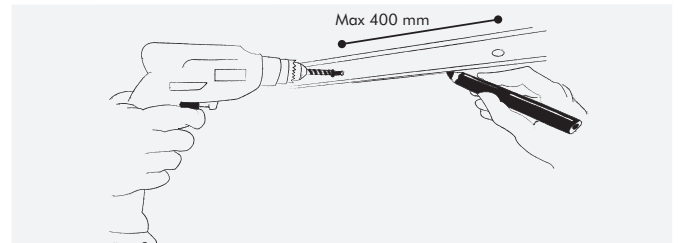
- A = Max. 300 mm
- B = Max. 300 mm
- C = Max. 1200 mm
- D = Max. 1200 mm
- E = Max. 1200 mm
- F = Max. 1200 mm
- G = Min. 80 mm

INSTALLATION OF P45-S25



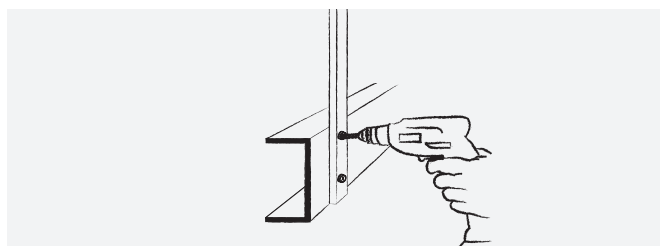
CEILING LAYOUT

- Divide the ceiling surface from the centre of the room or in accordance with the existing ceiling plans.
- Please note that expansion joints must be established on extensive ceiling surfaces at max.intervals of 15 metres in both directions.
- Where conditions indicate an increased risk of movement in a building, this must be taken into account by reducing the distance between expansion joints.



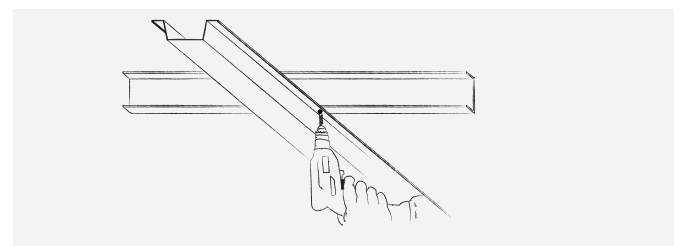
INSTALLING THE WALL PROFILE

- Mark out.
- Install the wall profile MSK70. Choose the method of fixing in accordance with the substrate.



PRIMARY PROFILES/HANGERS

- Install primary profiles every 1200 mm centres (max).
- Using rigid or strap hangers. Connect hangers to primary profile with 2 screws (F/F 13).

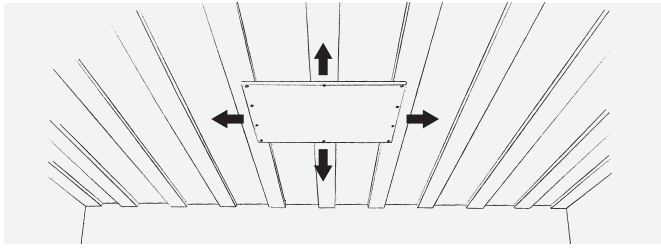


SECONDARY PROFILES

- Fix the secondary profiles to the primary profiles at every 300 mm. Use 2 screws (F/F 13) in each connection.

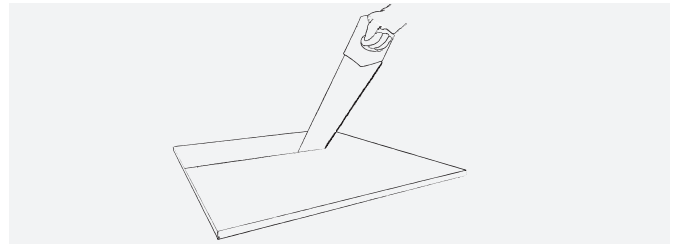
INSTALLATION GUIDE TECTOPANEL AS CEILING LINING

FIXING PANELS AND FILLING



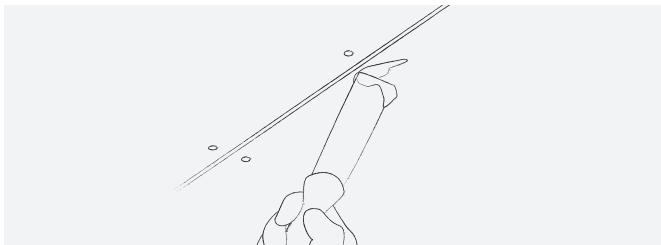
CEILING LAYOUT

- Install the panels beginning in the centre of the room.
- Install the first row with the help of string.



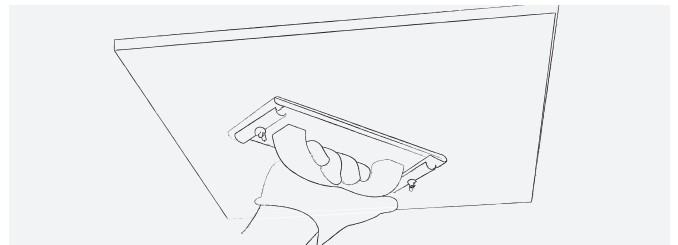
CUTTING

- Cut the elements to size from the front with a fine-toothed saw.



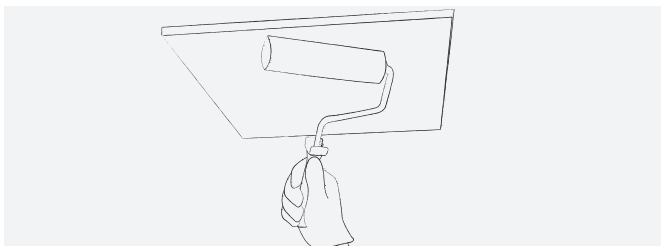
FILLING SCREW HOLES

- Check that the screws have been countersunk.
- Apply filler (Knauf Uniflott Finish or Easy Filler). Overfill slightly.
- We recommend the use of Knauf Danogips „Acoustic filling knife for holes“ in order to avoid filler getting into the perforation holes.



SANDING

- Make sure that the filler is completely dry.
- Sand with fine sandpaper until the surface is completely smooth. Be careful not to damage the cardboard surface.



PAINTING

- Make sure that the filler is completely dry and the surface is free from dust.
- Priming should be carried out in accordance with the paint manufacturer's instructions.
- Use a fine short-haired mohair roller to apply the paint.
- Make sure that the paint is not too thick and avoid applying too much paint at a time so that it does not create a „film“ over the perforation holes.

ACOUSTICS

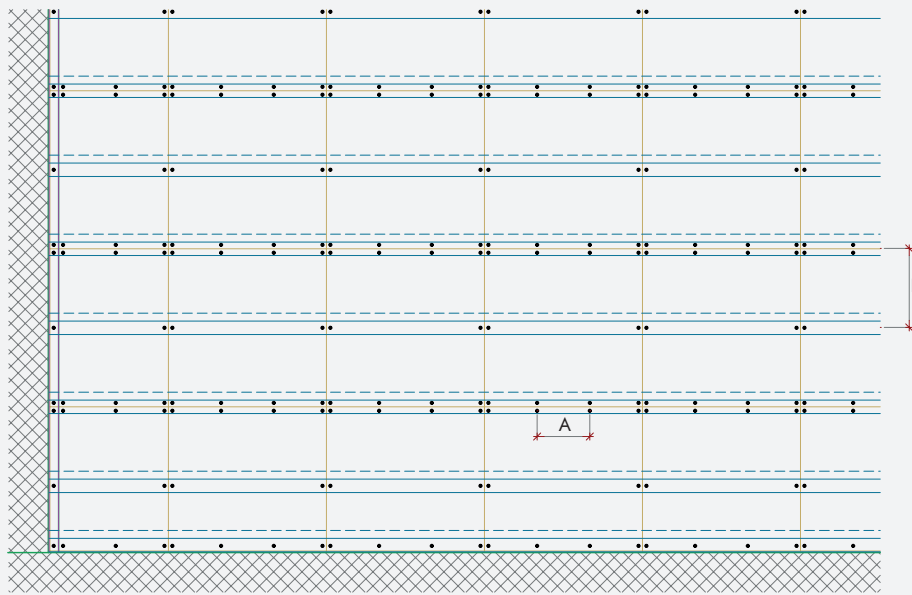
- A perforated gypsum panel will lose its acoustic function if the perforations are blocked (this applies to the front and back of the panel).
- Where applicable, a vapour barrier should therefore always be placed between the rafter and furrings so that it does not come into contact with the back of the perforated panel.
- When installing Tectopanel beneath a fixed ceiling it may be necessary to insert mineral wool (Knauf Danoline can offer mineral wool packed in plastic) into the cavity between the back of the panel and the fixed ceiling. This is primarily to ensure low frequency sound absorption.

FIRE

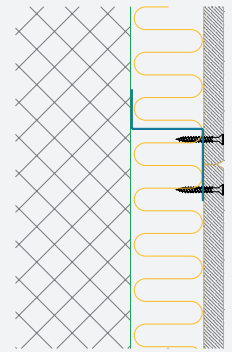
- If there is a requirement for BD30, follow the instructions for this construction.

INSTALLATION GUIDE TECTOPANEL AS WALL LINING

WALL LAYOUT



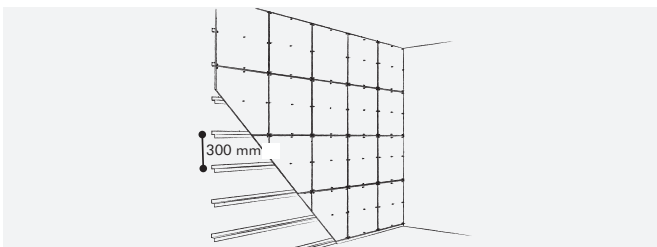
A = Max. 300 mm B = Max. 300 mm



Legend:

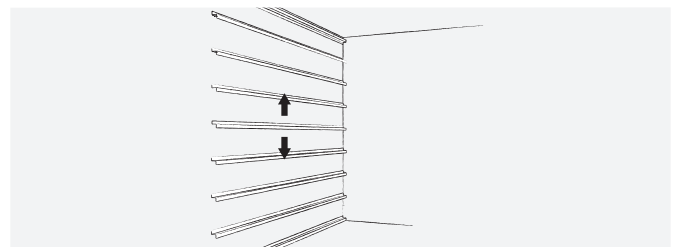
- 45 mm Z-profile
- 45 mm U-profile
- Screw SN 3.5 x 30
- Panel edge

INSTALLATION OF PANELS



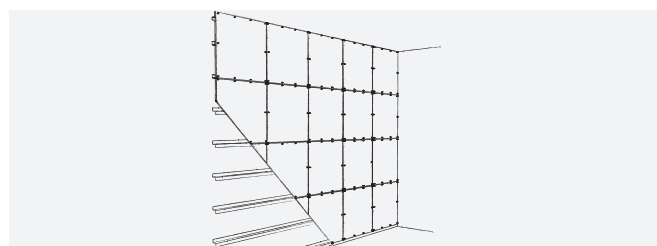
FURRING

- Tectopanel on walls can be installed on wood or steel furrings depending on current fire regulations.
- Furrings can be installed vertically or horizontally.
- Furrings should be at least 45 mm in width.
- Also see the section "Acoustics" on the next page.



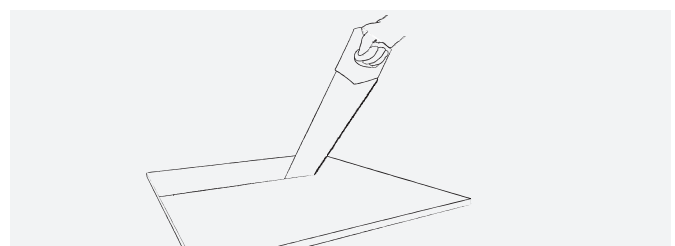
LAYOUT

- Perforated wall panels are normally installed on the upper section of a wall in accordance with acoustic requirements and the shape of the room in question.
- However, perforated panels can also be used to surface an entire wall depending on the degree of physical impact.
- Follow any available drawings or divide the surface of the wall so that the perforated modules are positioned symmetrically in the room.



INSTALLATION

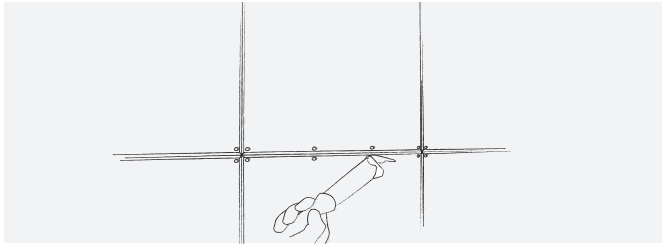
- Install the panels.
- Install the first row with the help of string.
- The panels must be flush in their own rows and at right angles to the adjacent panels.



CUTTING

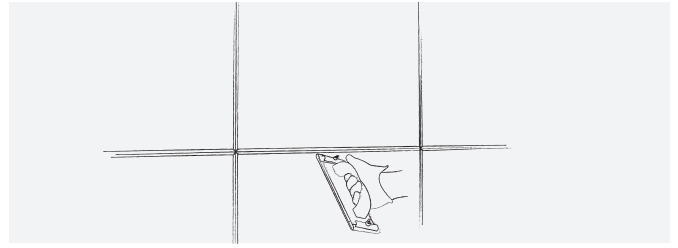
- Cut the elements to size from the front with a fine-toothed saw.

INSTALLATION GUIDE TECTOPANEL AS WALL LINING



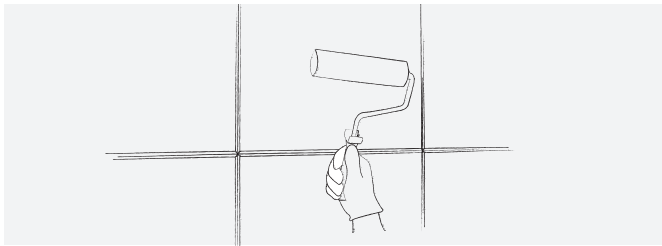
FILLING SCREW HOLES

- Check that the screws have been countersunk.
- Apply the first layer of filler (Knauf Uniflott Finish).
- Allow the filler to dry.
- Apply the second layer of filler (Knauf Uniflott Finish), overfill slightly.
- Allow the filler to dry.



SANDING

- Make sure that the filler is completely dry.
- Sand with fine sandpaper until the surface is completely smooth. Be careful not to damage the cardboard surface.



PAINTING

- Make sure that the filler is completely dry and the surface is free from dust.
- Priming should be carried out in accordance with the paint manufacturer's instructions.
- Apply the paint with a fine mohair roller.
- Make sure that the paint is not too thick and avoid applying too much paint at a time so that the acoustic felt on the perforated panels is not sealed.
- Spraying cannot be recommended as this could influence the acoustic properties of the panels.

ACOUSTICS

- A perforated gypsum panel will lose its acoustic function if the perforations are blocked (this applies to the front and back of the panel).
- Where applicable, a vapour barrier should therefore always be placed behind the furrings so that it does not come into contact with the back of the perforated panel.
- When installing Tectopanel on a fixed surface we recommend filling the cavity between the back of the panel and the furring with mineral wool. This is primarily to ensure low frequency sound absorption.