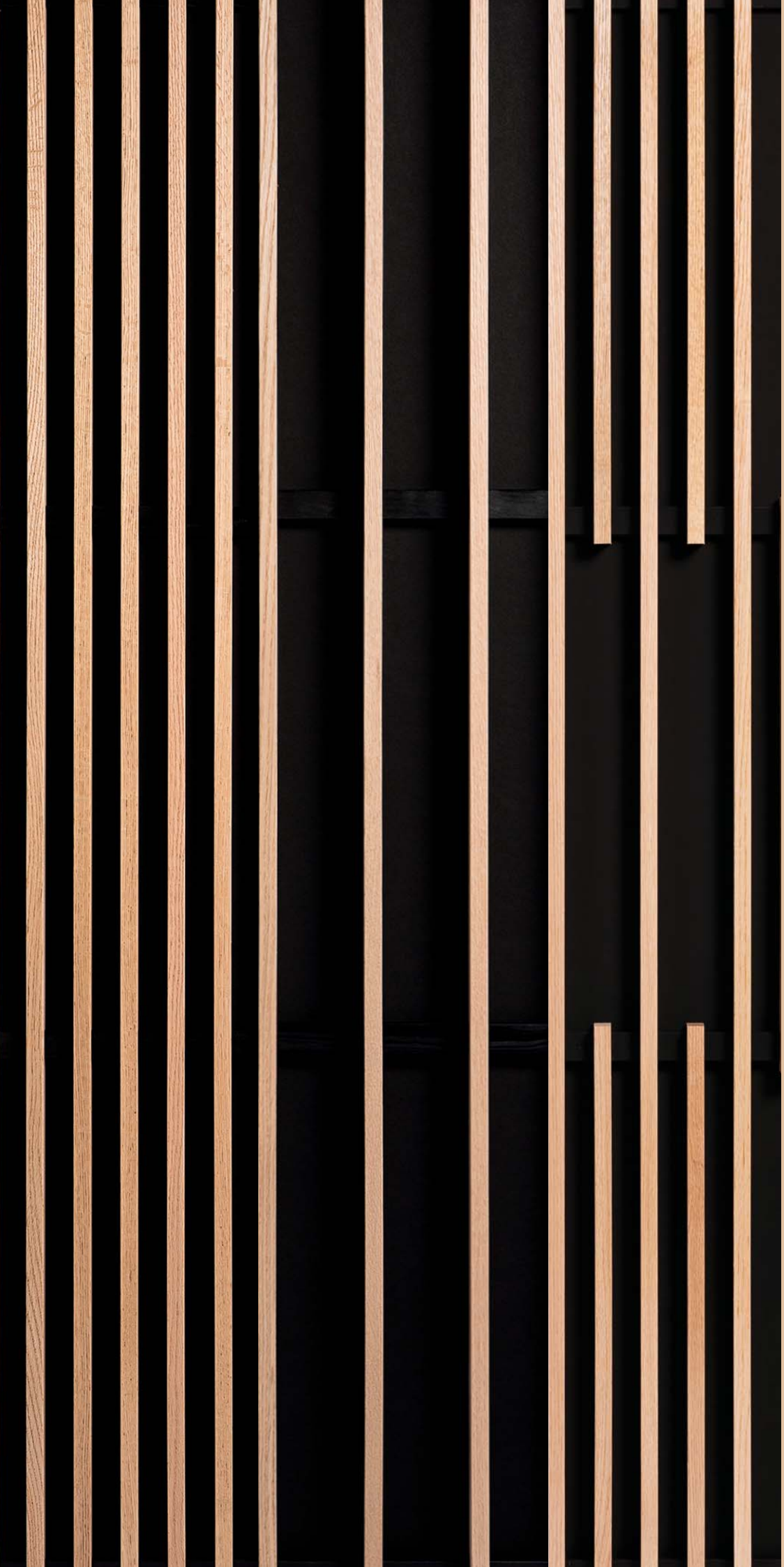
INSTALLATION

Linea

ACOUSTIC WOOD SUSPENDED CEILINGS
AND WALL CLADDINGS

LAUDESCHER



Linea installation

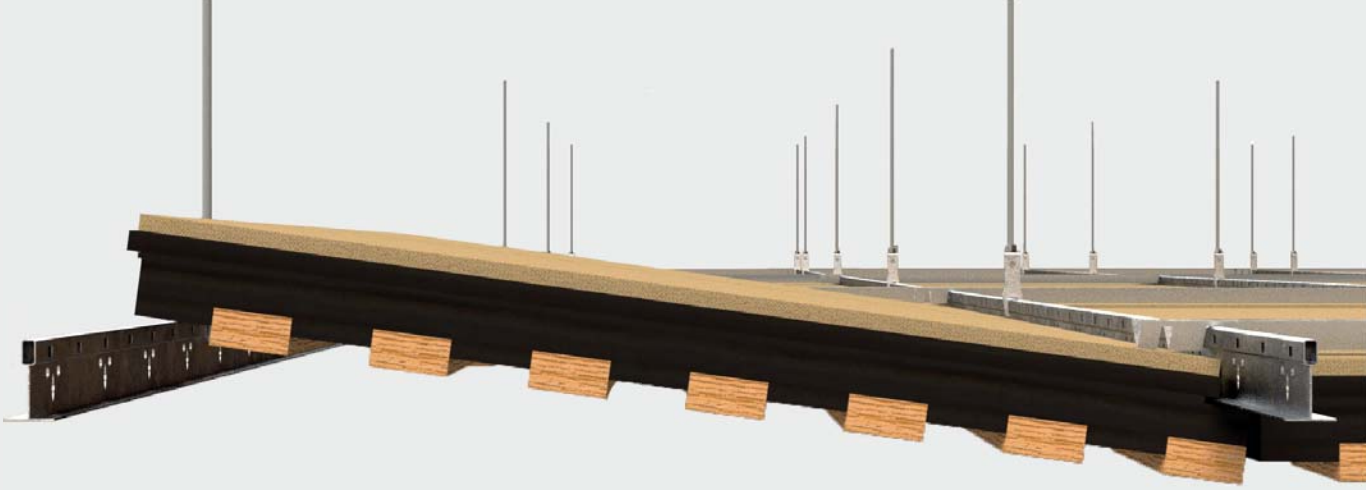
THIS IS A PATENTED INSTALLATION SYSTEM
THAT IS FLEXIBLE AND CAN BE ADAPTED TO
STANDARD SYSTEMS ON THE MARKET.

These recommendations are for guidance only.
For more details, please refer to the installation instructions provided by the frame manufacturers, as well as the relevant current standards, which take precedence in the event of any contradiction.
If there is any doubt about the installation method, the installer must seek clarification or recommendations first.
Laudescher cannot be held responsible for the incorrect installation of products.

TABLE OF CONTENTS

Installation of removable suspended ceiling

for surface-mounted panel



FRAME

Installation will be carried out on frame T24 (black)*, hidden by a patented system, in compliance with the current standards and best practice rules in each country (DTU 58-1).
Not all the structural elements are supplied by Laudescher.

* The entire frame and fitting system must be suitable for use in humid and/or corrosive environments.

DESCRIPTION

T24 ceiling grids	Centre distance 600 mm
Hangers	Threaded rods or quick-adjust hangers
Distance between hangers	1,200 mm maximum 150 mm from the edge maximum
Spacing	At least 1 spacer bar per panel Spacer bars 200 mm from the edge
Finish	Edge finish provided by a matt black angle section (peripheral recessed joint)

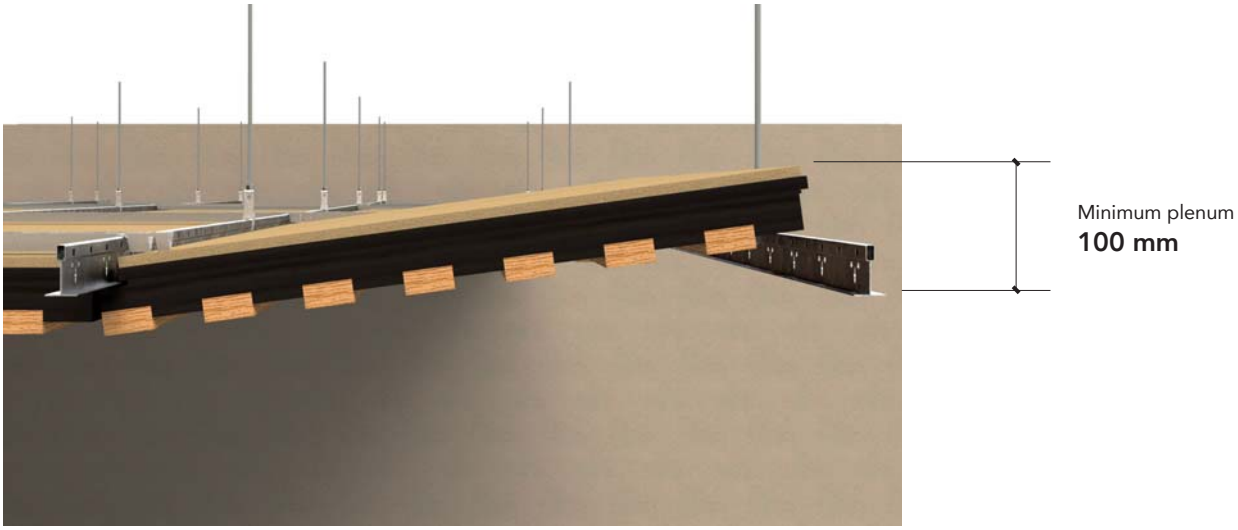
FRAME QUANTITY OF ITEMS

	Frame 1,880 x 600 mm
Ceiling grid	1.67 ml/m²
Spacer bar	0.54 ml/m²
Angle section	Depends on edges
Hanger	1.40 p/m²

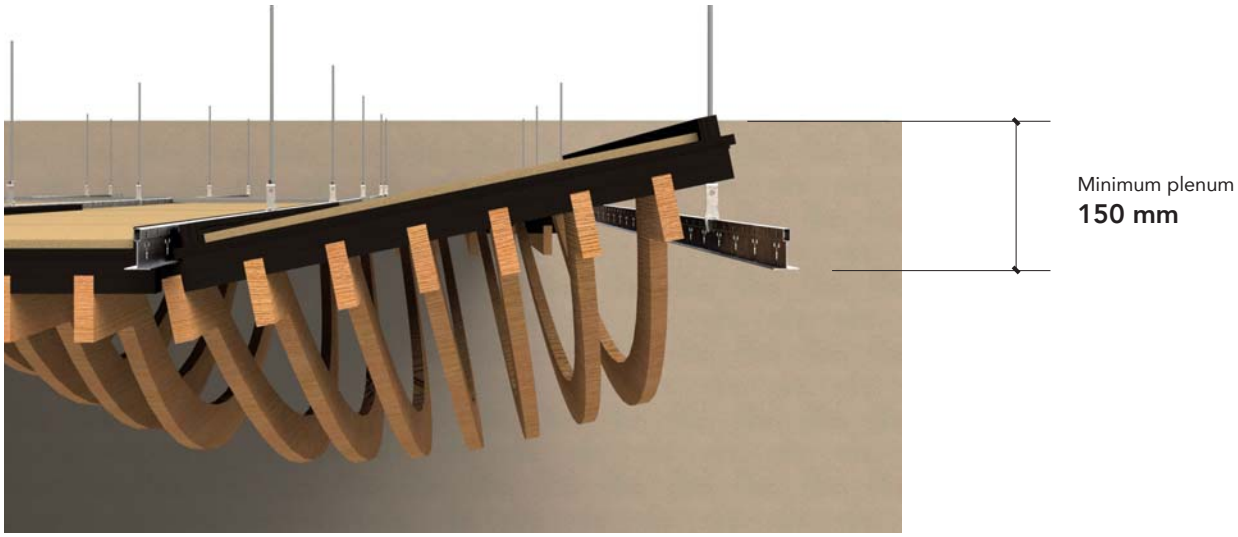
Maximum load: 22 kg/m² uniformly distributed

Installation requirements

Minimum plenum for assembling
and disassembling the panels

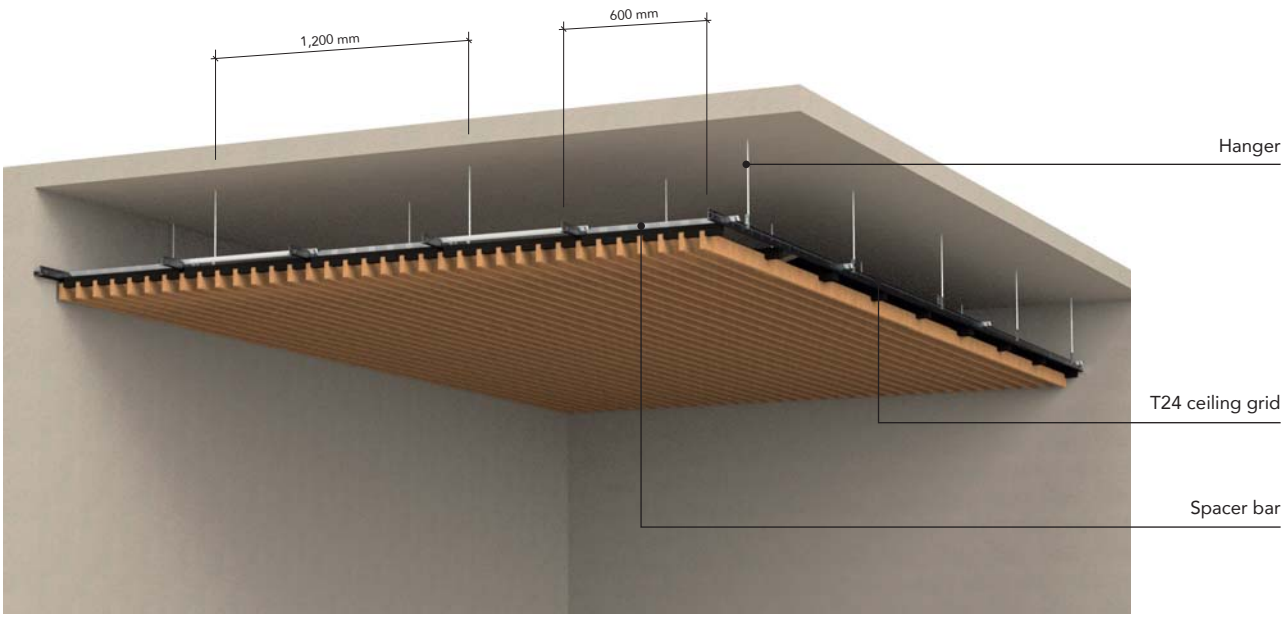


Linea Shape

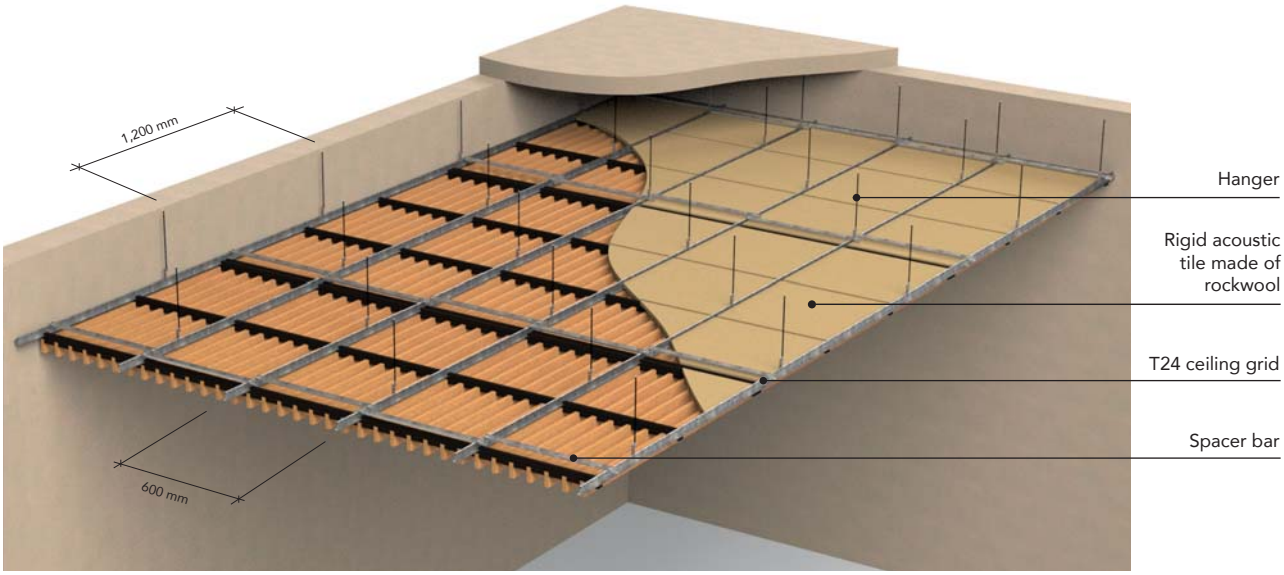


Overviews

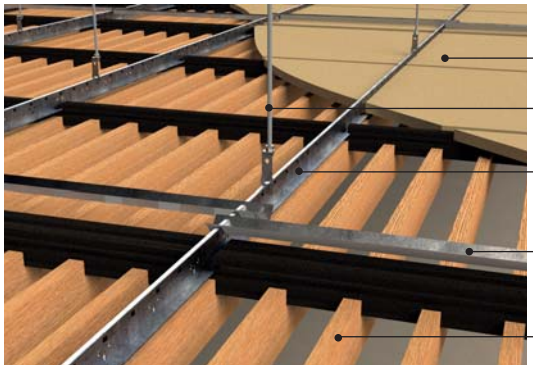
Bottom view



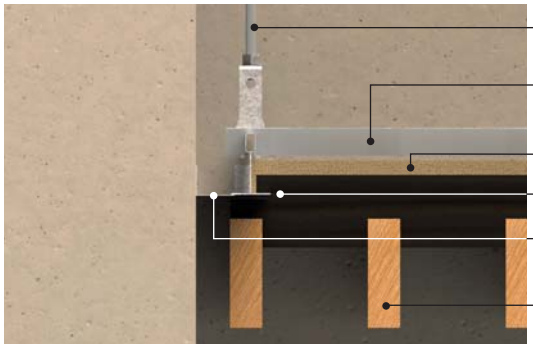
Top view



Installation



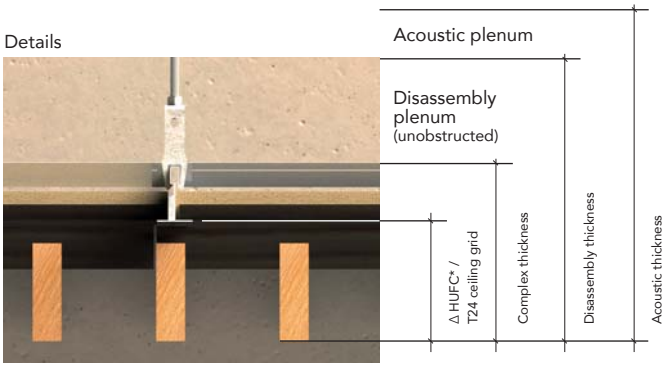
Details of transverse edge



Details of longitudinal edge

System dimensions

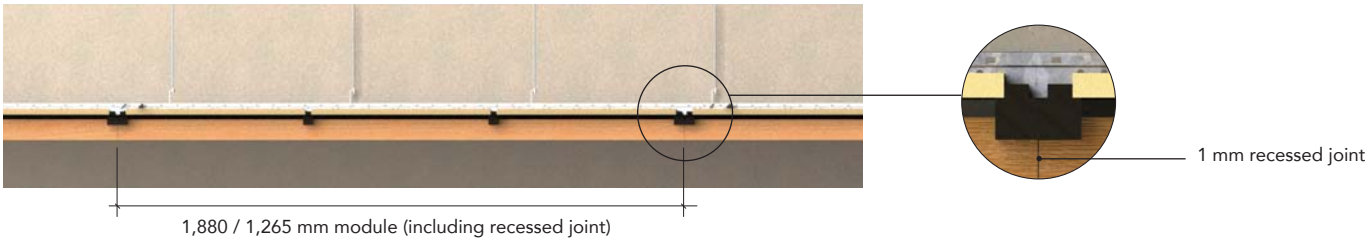
Details



Model	Δ HUFC* / T24	Complex thickness	Disassembly thickness	Acoustic thickness
4.2 / 4.2 Lite	43 mm	84 mm	144 mm	314 mm
9.2.1 / 422 AL	48 mm	89 mm	149 mm	319 mm
9.2.3 / 9.2.6	43 mm	84 mm	144 mm	314 mm
2.4 / 2.4 Lite / 42 AL	57 mm	98 mm	158 mm	328 mm
2.6	83 mm	124 mm	184 mm	354 mm
2.9	105 mm	146 mm	206 mm	376 mm
Scale / Pix / Bamboo	55 mm	96 mm	156 mm	326 mm
Edge	63 mm	104 mm	164 mm	334 mm
Bamboo Wave	79 mm	120 mm	180 mm	350 mm
Jungle	64 mm	105 mm	165 mm	335 mm

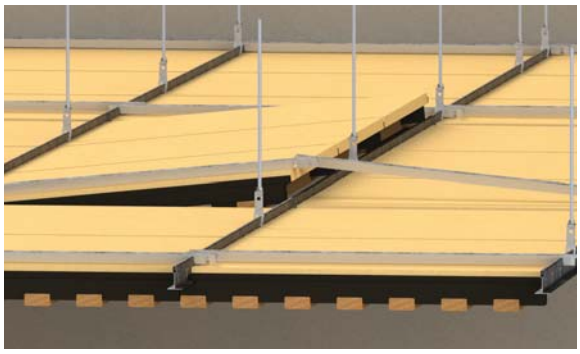
Δ *HUFC: Height under false ceiling

Longitudinal view

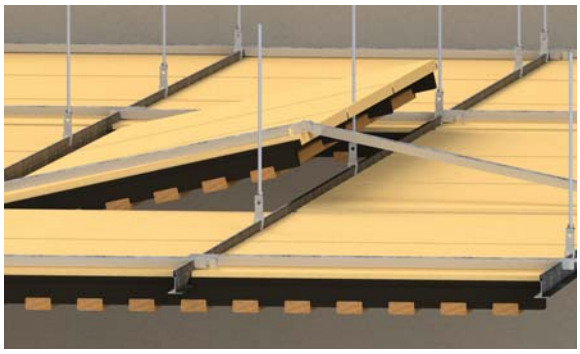


Disassembly

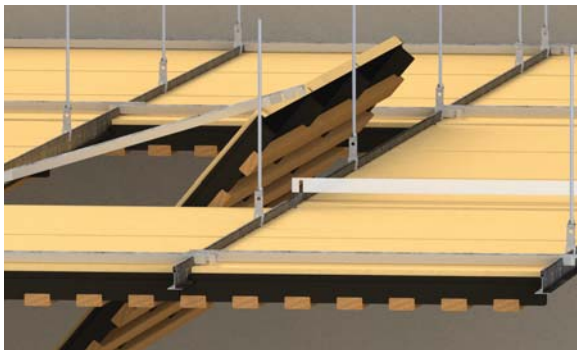
Step 1:
Lift the panel



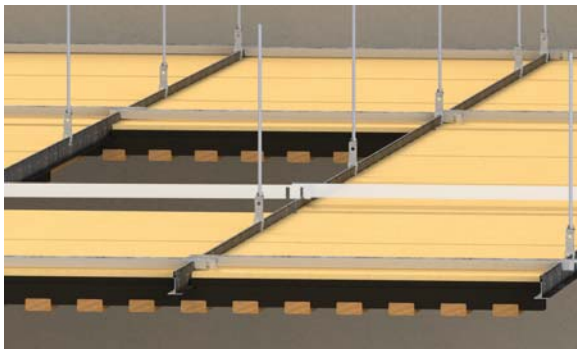
Step 2:
Move the panel.



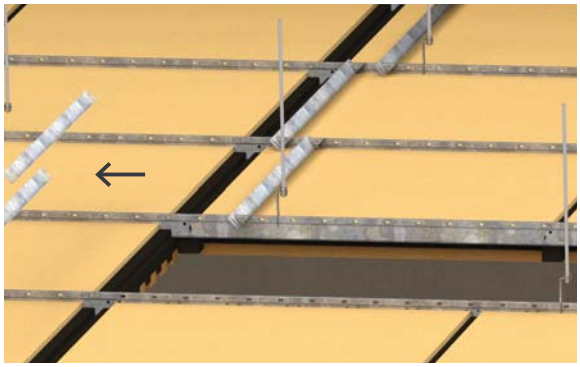
Step 3:
Remove the panel.



Step 4:
The spacer bars are unclipped.



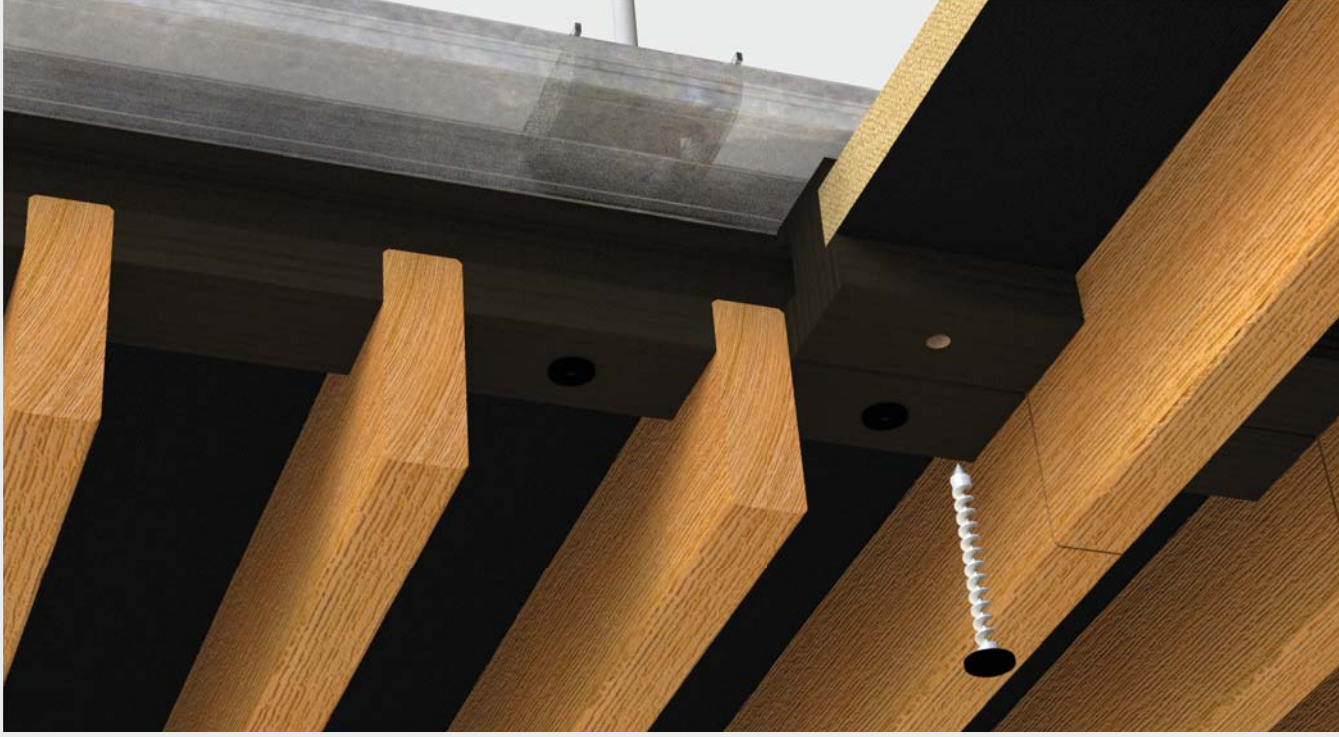
Step 5:
Position the bars on the adjacent panel.



Step 6:
Check that the system is locked.

Installation of suspended ceiling

for screw-mounted panel



FRAME

In accordance with current standards and best practices in each country (NF EN 13964 and DTU 58-1), installation is carried out by screwing perpendicular to the counter-slats (two black screws per counter-slat) on a secondary frame*.

Not all the structural elements are supplied by Laudescher.

* The entire frame and fitting system must be suitable for use in humid and/or corrosive environments.

DESCRIPTION

Frame	Metal or timber frame perpendicular to the counter-slats. Minimum of 2 screws per counter-slat.
Hangers	Adapted to the type of frame or mounting bracket
Distance between hangers	1,200 mm maximum 100 mm from the edge maximum
Finish	Edge finish for each channel or angle section

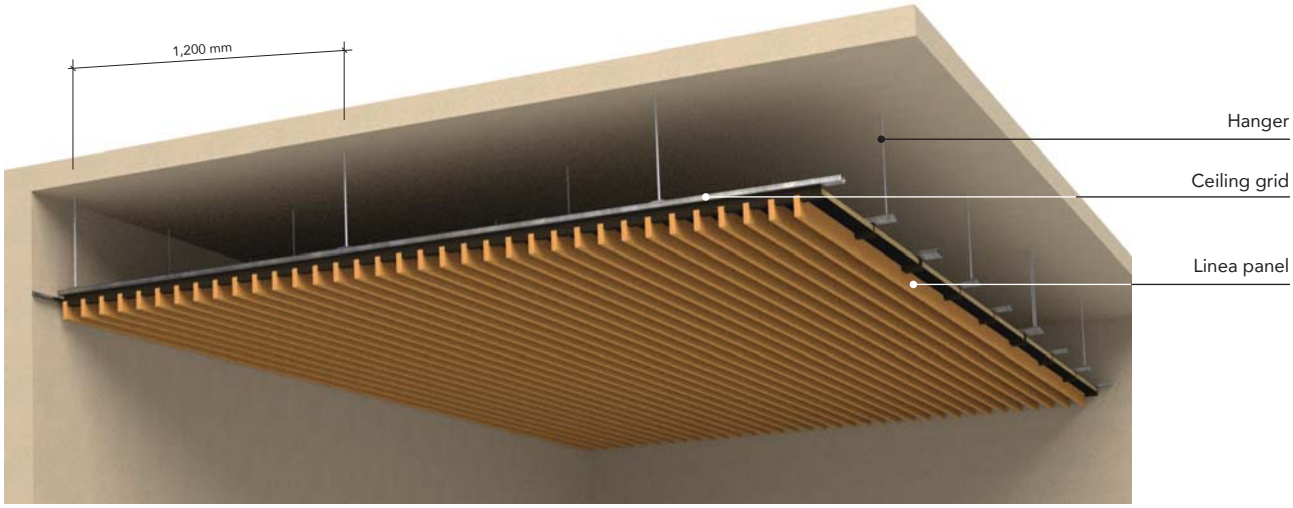
FRAME QUANTITY OF ITEMS

	Frame 1,880 x 600 mm
Ceiling grid	2.1 ml/m²
Hanger	1.8 pc/m²
Angle section	Depends on edges

Maximum load: 30 kg/m² uniformly distributed

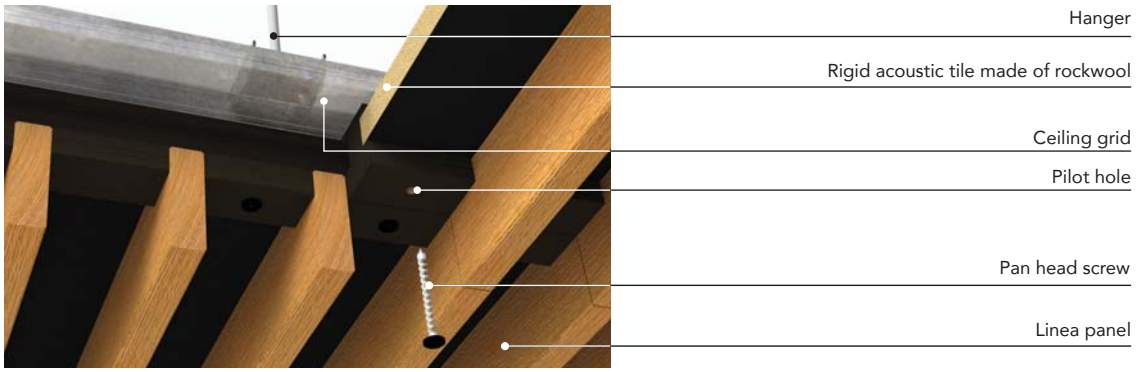
Overviews

Bottom view



Top view

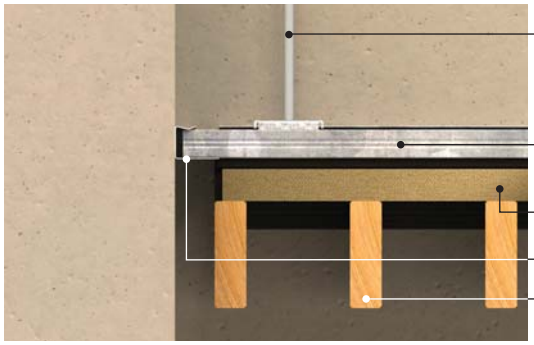
Installation details



Installation

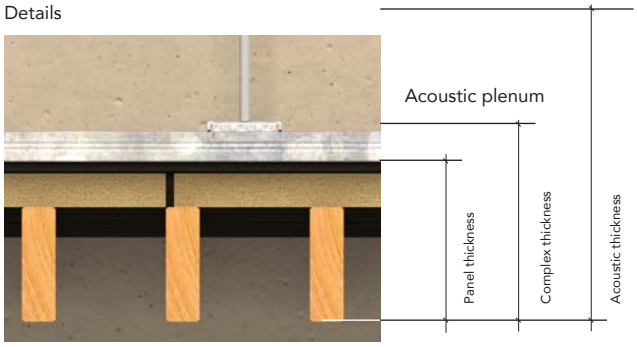
Details of transverse edge

Details of longitudinal edge



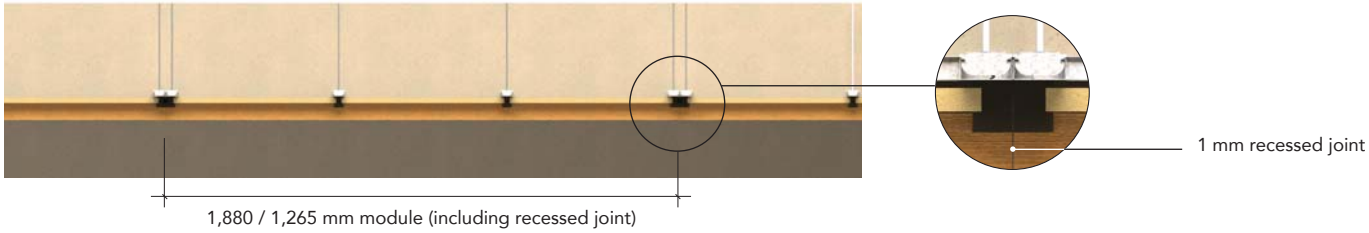
System dimensions

Details



Model	Panel thickness	Complex thickness	Acoustic thickness
4.2.1 / 4.2.1 LITE / 4.2.4 / 4.2.4 Lite	55 mm	55 mm + frame	91 mm
9.2.1 / 422 AL	60 mm	60 mm + frame	96 mm
9.2.3 / 9.2.6	55 mm	55 mm + frame	91 mm
2.4.3 / 2.4.3 Lite / 2.4.5 / 2.4.5 Lite / 42 AL	69 mm	69 mm + frame	113 mm
2.6.5 / 2.6.6 / 2.6.6 Lite / 2.6.8 / 2.6.10	95 mm	95 mm + frame	139 mm
2.9.8 / 2.9.10 / 2.9.13	117 mm	117 mm + frame	161 mm
Pix / Scale	67 mm	67 mm + frame	111 mm
Bamboo / Edge	75 mm	75 mm + frame	119 mm
Bamboo Wave	91 mm	91 mm + frame	127 mm
Jungle	76 mm	76 mm + frame	112 mm

Longitudinal view



Installation of wall frame

for screw-mounted panel

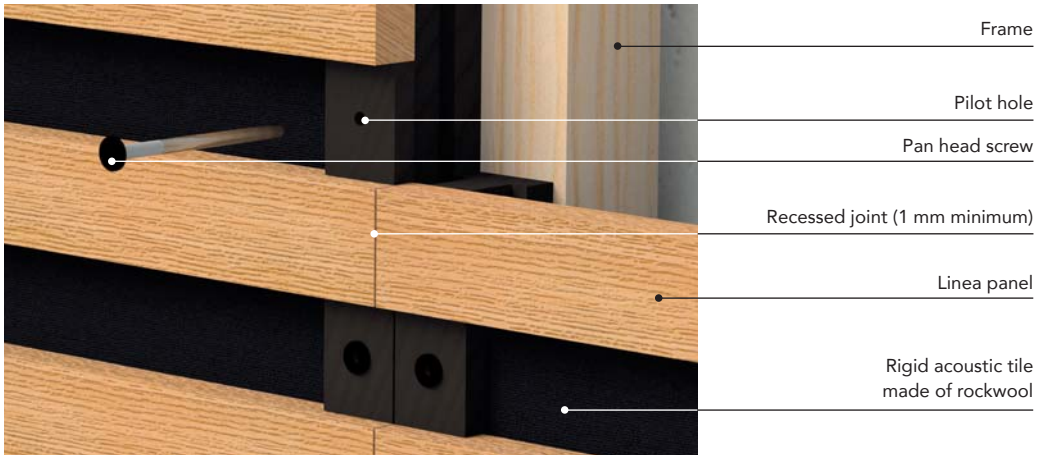
FRAME

Screw-on installation on a secondary frame* perpendicular to the black counter-slats (2 black lacquered pan head screws per counter-slat) in accordance with DTU 36.2 and EN 14915.

* The entire frame and fitting system must be suitable for use in humid and/or corrosive environments.

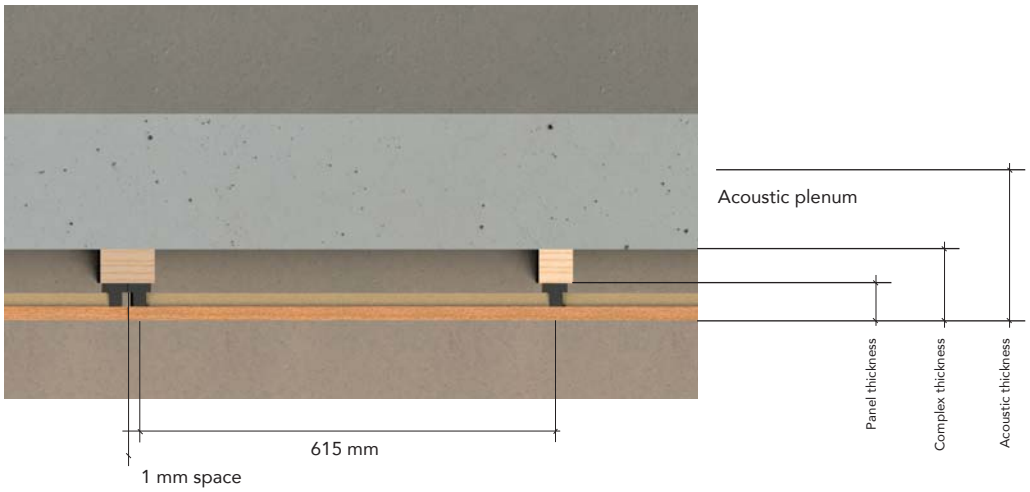
Overviews

Installation



System dimensions

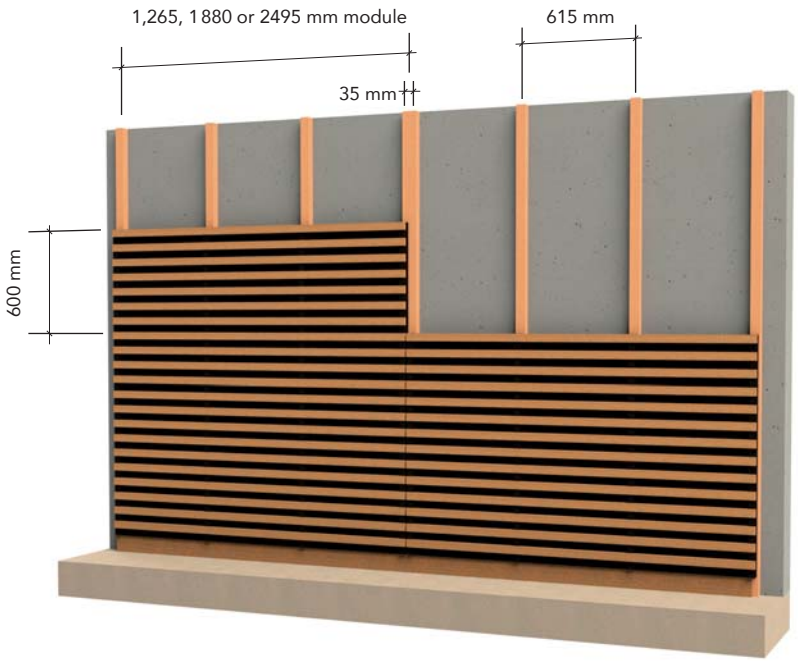
Details



Model	Panel thickness	Complex thickness	Acoustic thickness
4.2.1 / 4.2.1 Lite / 4.2.4 / 4.2.4 Lite	55 mm	55 mm + frame	91 mm
9.2.1 / 422 AL	60 mm	60 mm + frame	96 mm
9.2.3 / 9.2.6	55 mm	55 mm + frame	91 mm
2.4.3 / 2.4.3 Lite / 2.4.5 / 2.4.5 Lite / 42 AL	69 mm	69 mm + frame	113 mm
2.6.5 / 2.6.6 / 2.6.6 Lite / 2.6.8 / 2.6.10	95 mm	95 mm + frame	139 mm
2.9.8 / 2.9.10 / 2.9.13	117 mm	117 mm + frame	161 mm
Pix / Scale	67 mm	67 mm + frame	111 mm
Bamboo / Edge	75 mm	75 mm + frame	119 mm
Bamboo Wave	91 mm	91 mm + frame	127 mm
Jungle	76 mm	76 mm + frame	112 mm

Vertical installation

Horizontal installation

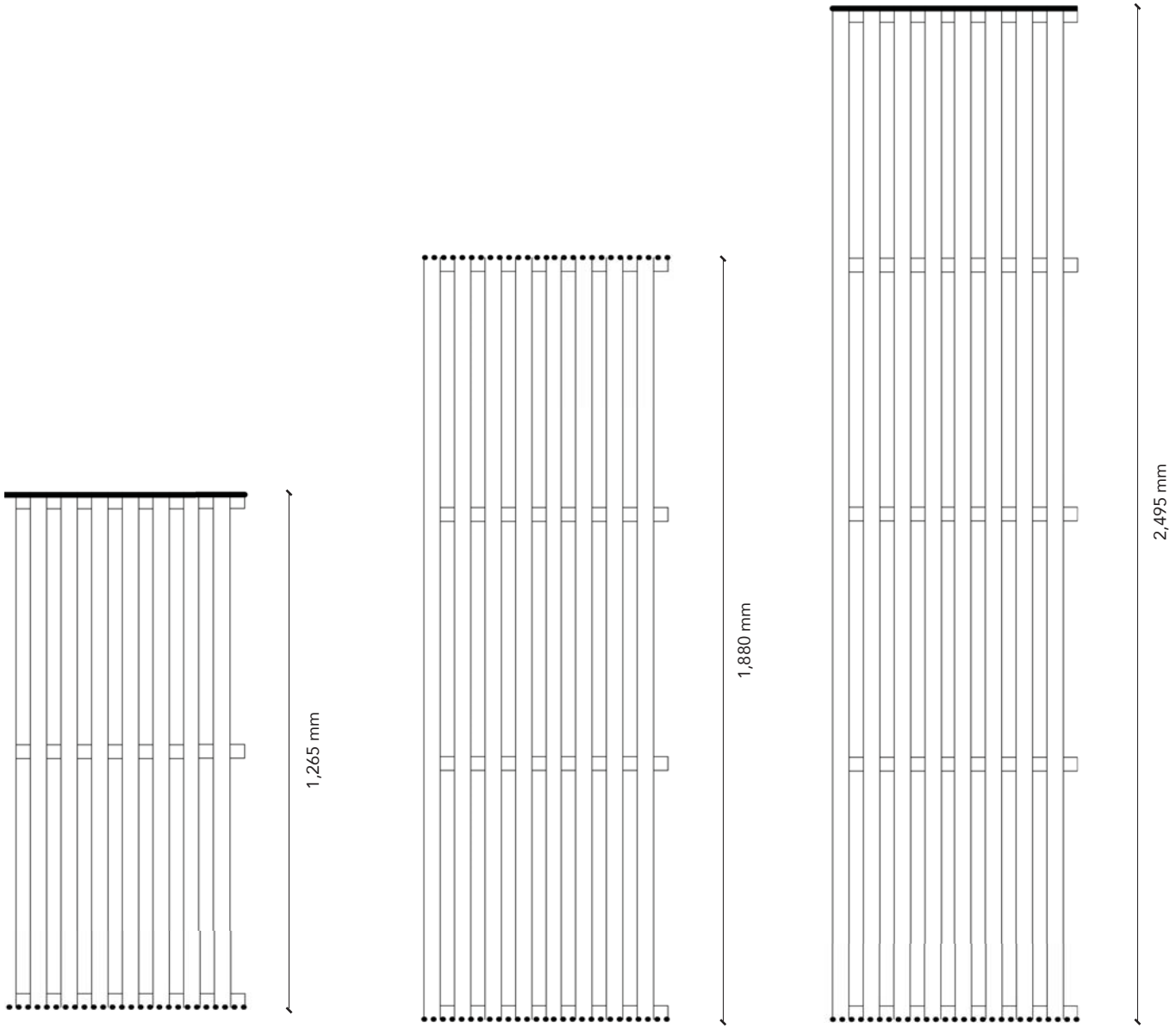


Specific installation requirements for Linea 3D

Direction of installation

To ensure the visual continuity of the panels, LINEA 3D models must be installed in a specific direction*.

*The protruding parts of the counter-slats must always be positioned on the same side.



Finger joint recommended

Finger joint not recommended

Installation
Linea Swell

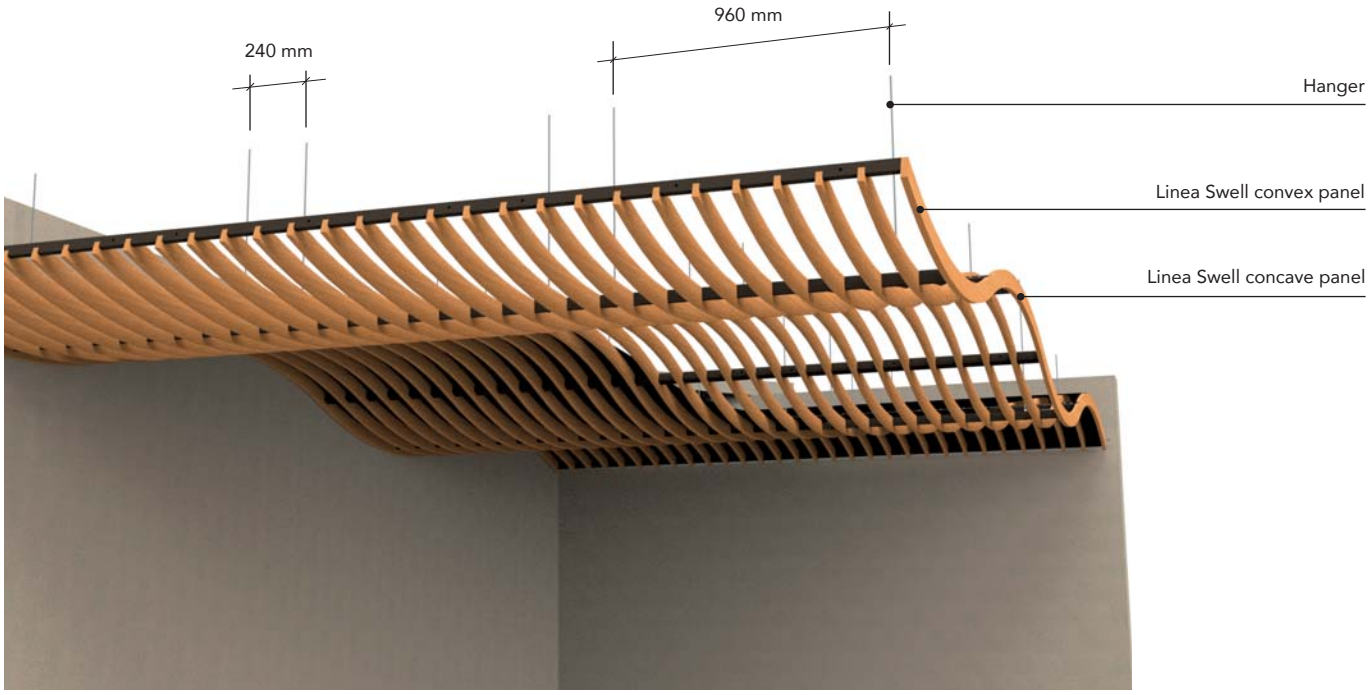
FRAME

Installation is carried out by means of suspension from threaded rods*, in accordance with the current standards and best practices in each country (NF P 68-203-1 and DTU 58-1, 2008 edition in France).

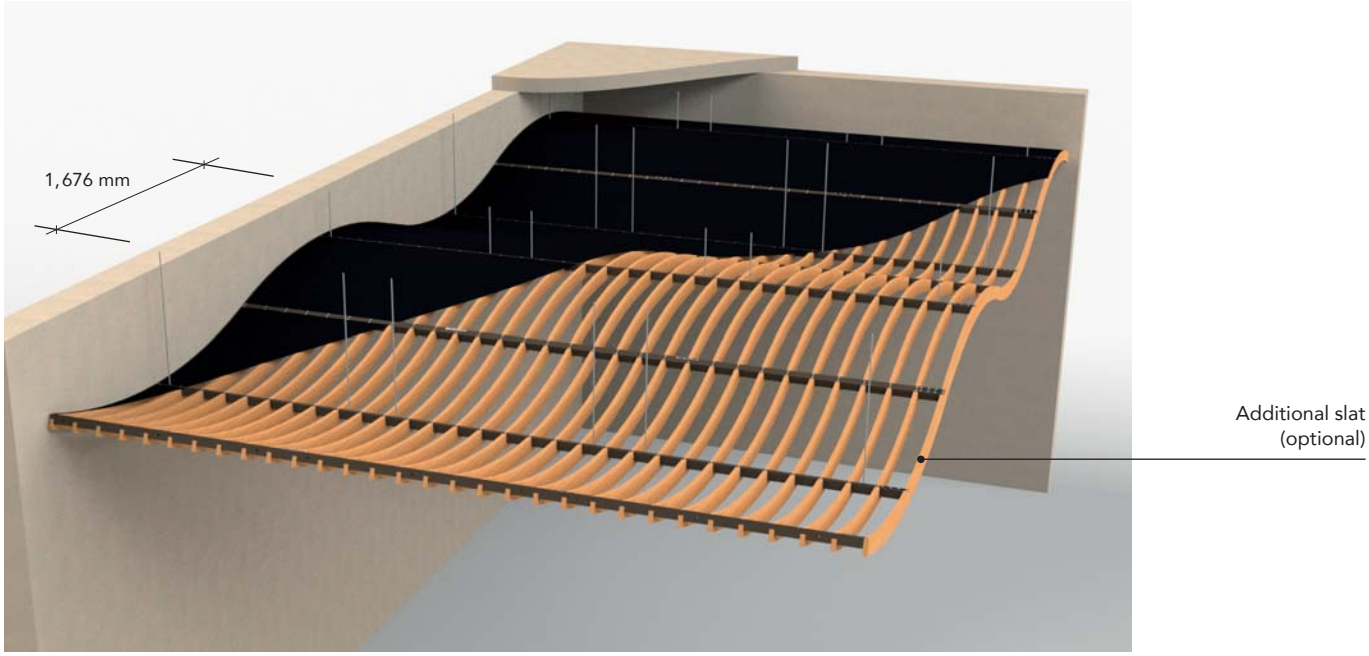
* The whole frame and suspension system must be planned.

Overviews

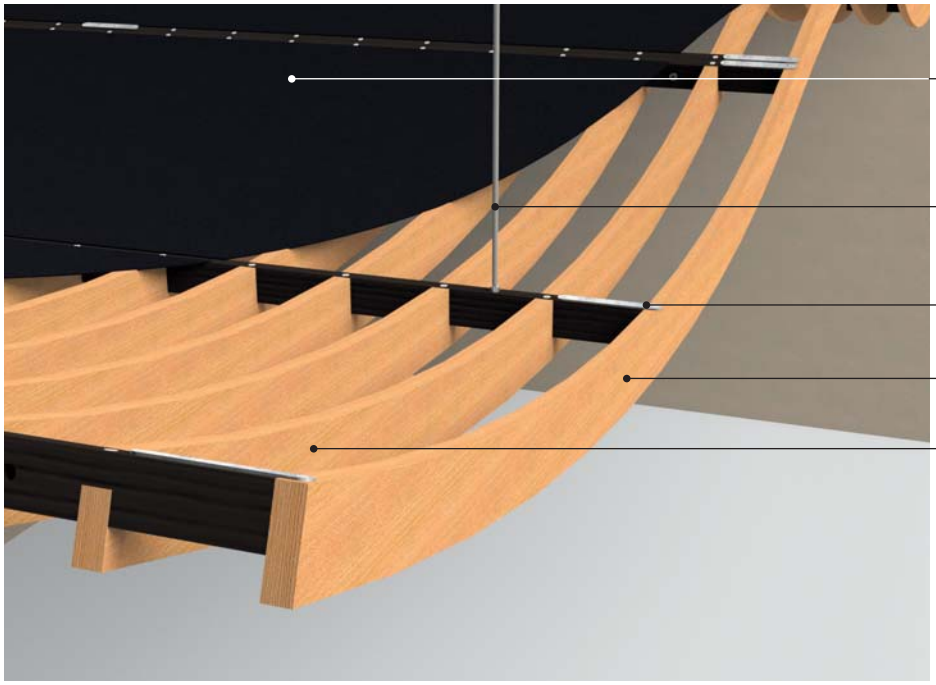
Bottom view



Top view



Installation

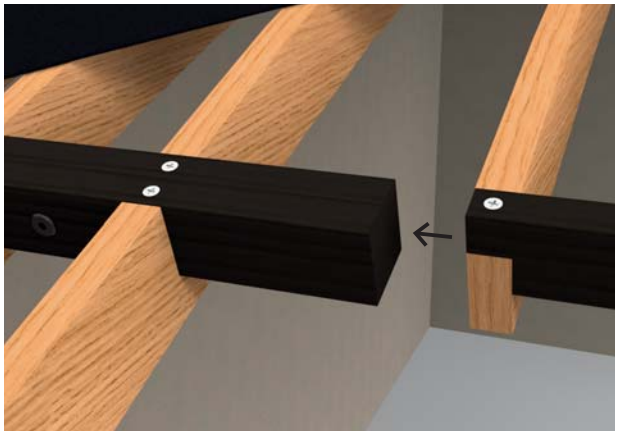


Edge finish by adding an additional slat (optional) fixed with assembly brackets (optional).

Installation details

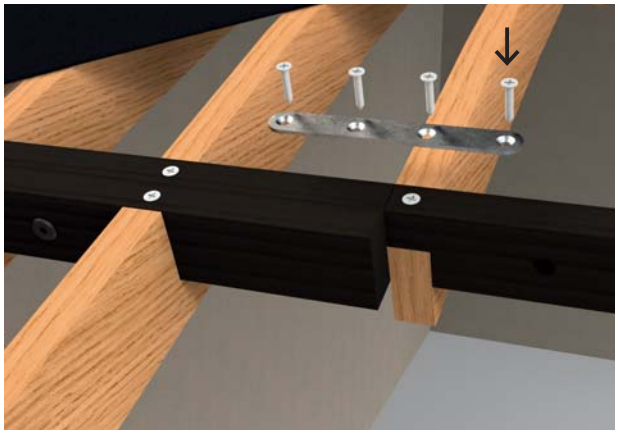
Step 1:

Position the panel to be mounted.



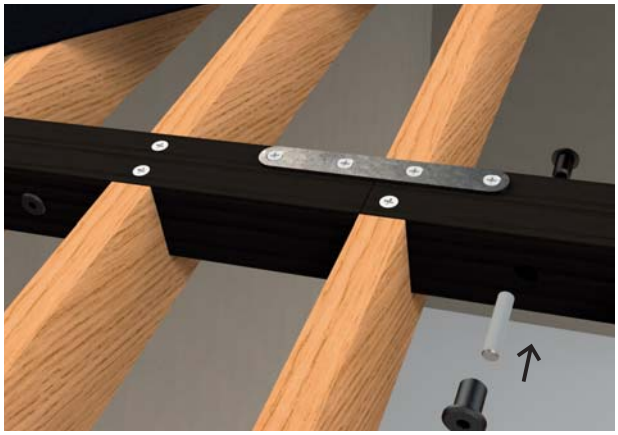
Step 2:

Assemble the panels using the assembly bracket and its 4 screws.



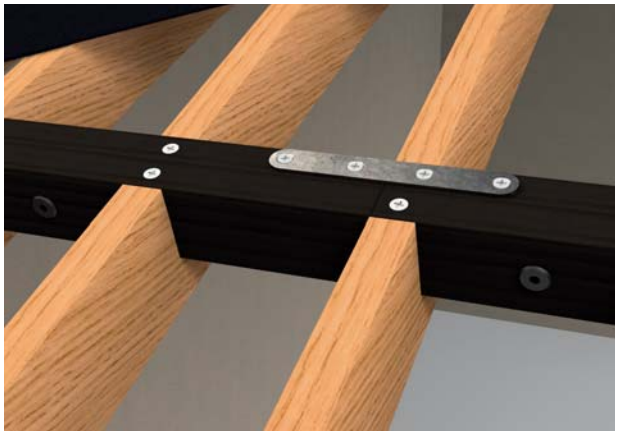
Step 3:

Mount the last panel using the mounting kit.

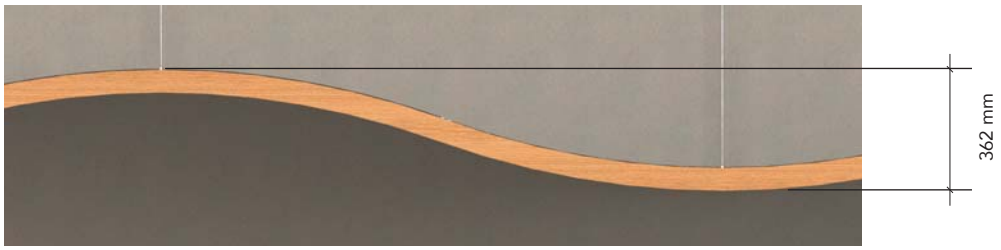


Step 4:

Check that the assembly is secure.



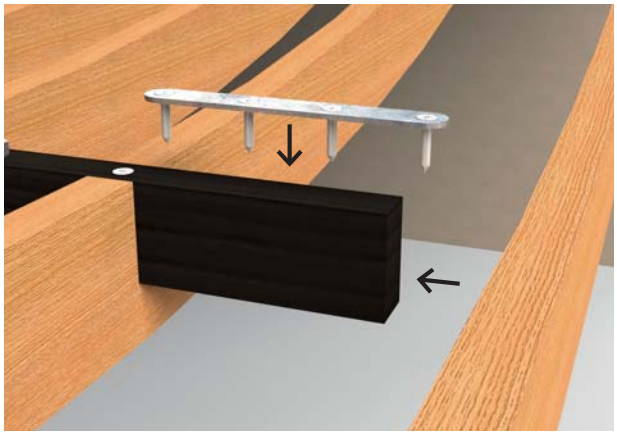
Longitudinal view



Edge details

Step 1:

Position the additional slat to be mounted.



Step 2:

Mount the slat using the assembly bracket and its 4 screws.

Cutting the panels and inserting elements

Prior to cutting:

– the maximum slat overhang should be 150 mm;

– the maximum cutting width will vary depending on the model;

– cutting involving changes to counter-slats is carried out outside the outer counter-slats;

– in the case of visible cutting, provide finishing pots (optional).

Simple cutting of a panel

Straight across its length

1 Define the location of the cutting.

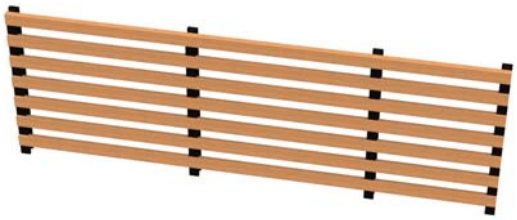
2 Unscrew the counter-slat to be moved.

3 Move the counter-slat.

4 Screw the counter-slat back on.

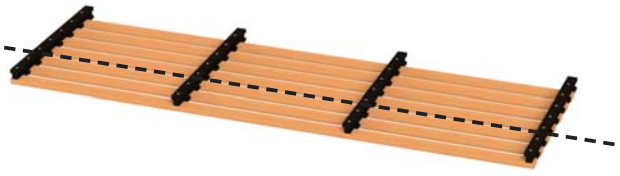
5 Trim the slat overhangs.

6 Panel ready for installation



Straight across its width (screw-on panel)

1 Define the location of the cutting.



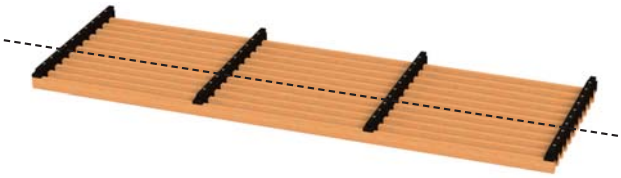
2 Cut the panel according tothe grid pattern.

3 Panel ready for installation

Simple cutting of a panel

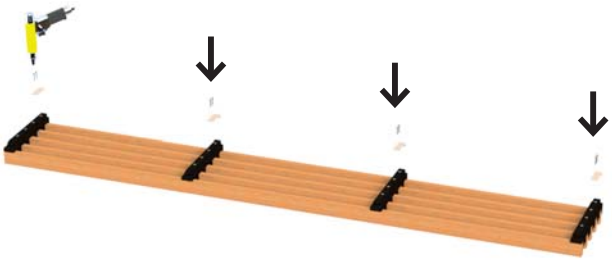
Straight across its width (screw-mounted panel)

1 Define the location and side of the cutting.

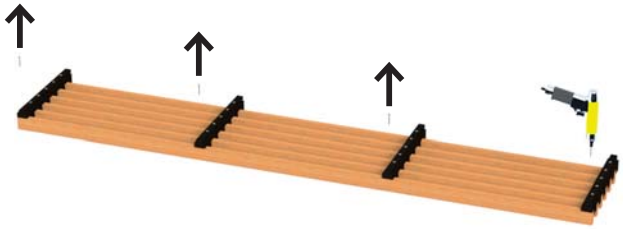


2 Cut the panel.

3 Male cutting finish – Screw on the mounting bracket (optional) Pilot hole, Ø 2 mm

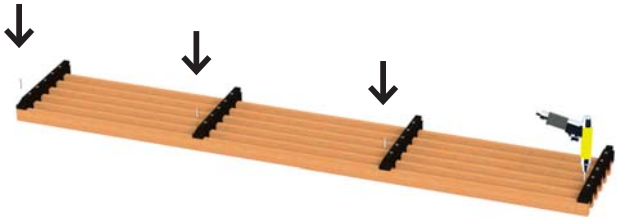


4 Female cutting finish – Unscrew the slat retainer screws.

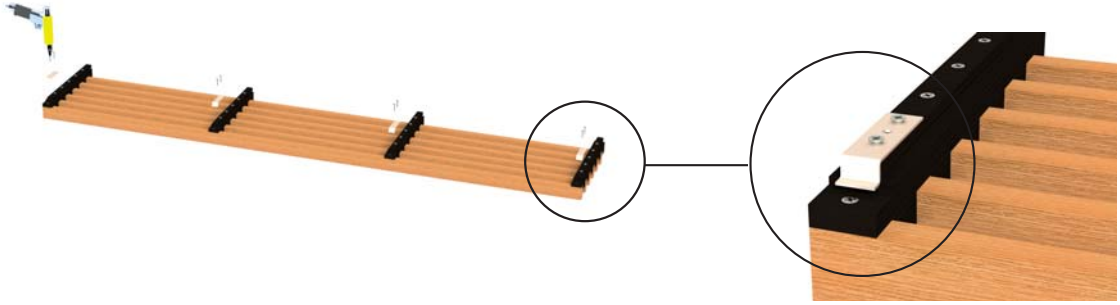


5 Notch the end of the counter-slat.

6 Screw the slat retainer screws back in.

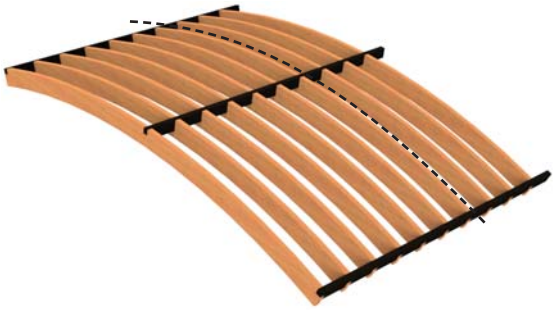


7 Screw on the mounting bracket (optional). Pilot hole Ø 2 mm

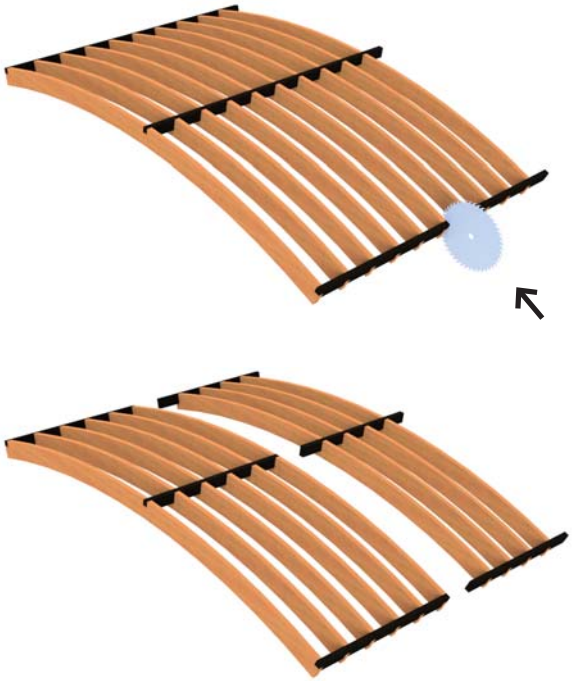


Linea Swell panel across its length

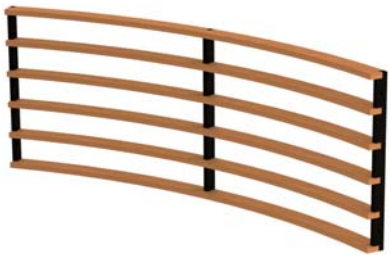
1 Define the location of the cutting.

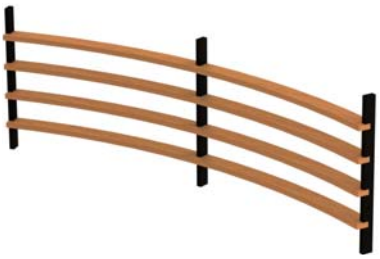


2 Cut the panel.



3 Panel ready for installation, provided that counter-slats are drilled for the hangers (Ø 9 mm)





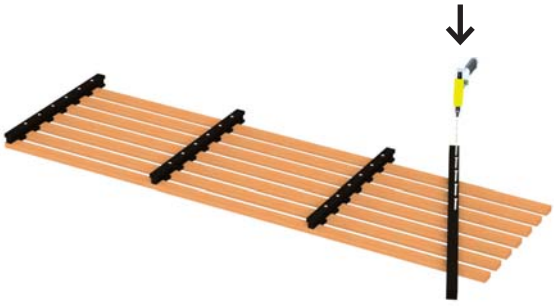
Bias cutting of a panel

Lengthwise bias cutting

1 Define the location of the cutting.

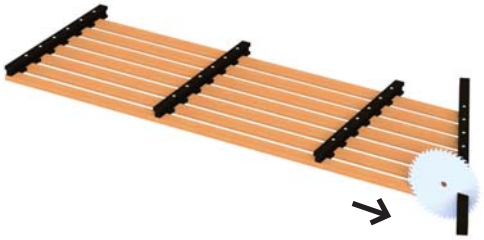
2 Unscrew the counter-slat.

3 Screw the cutting profile into place.

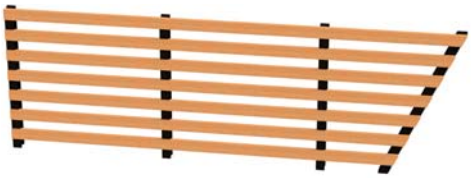


4 Cut the panel along the cutting profile.

5 Trim the cutting profile overhangs.



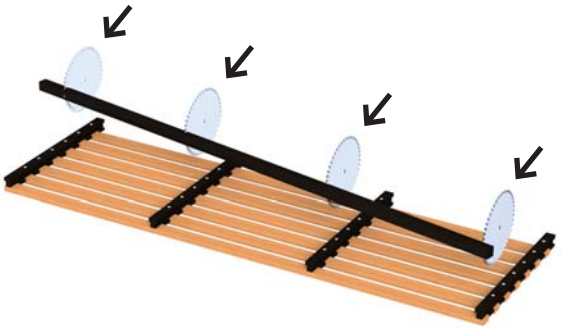
6 Panel ready for installation



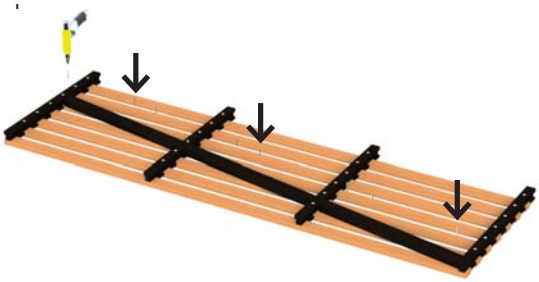
Lengthwise bias cutting

1 Define the location of the cutting.

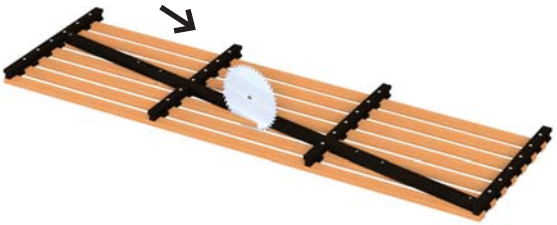
2 Cut the cutting profile.



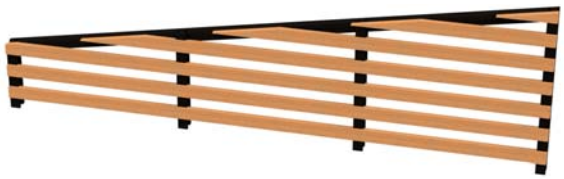
3 Screw in the profile to hold the slats in



4 Cut the panel along the cutting profile.



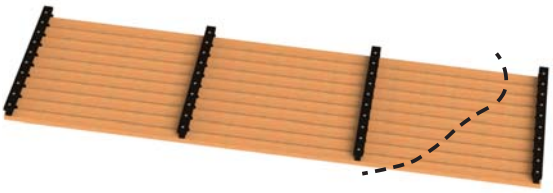
5 Panel ready for installation



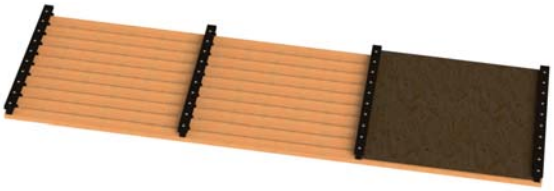
Random cutting of a panel

Lengthwise random cutting

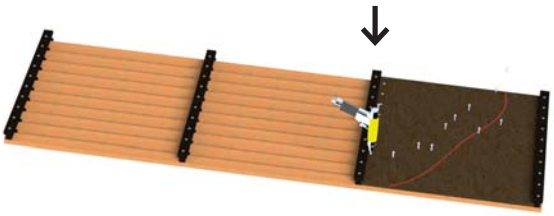
1 Define the location of the cutting.



2 Insert the particle back plate (optional).

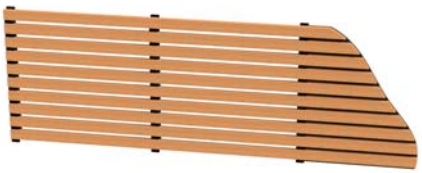


3 Fix the particle back plate into the slats and mark the position.



4 Cut the panel according to the grid pattern.

5 Panel ready for installation

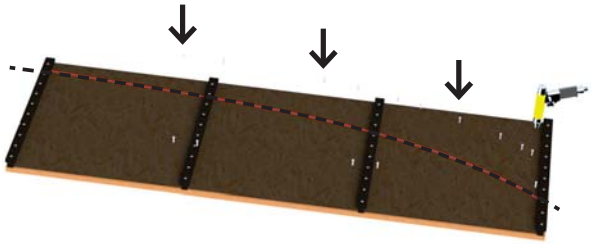


Widthwise random cutting

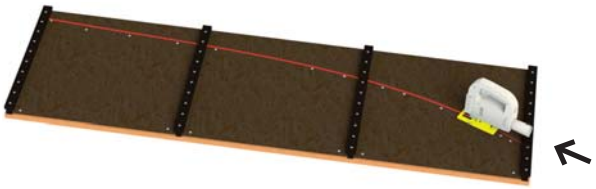
1 Define the location of the cutting.

2 Insert the particle back plates (optional).

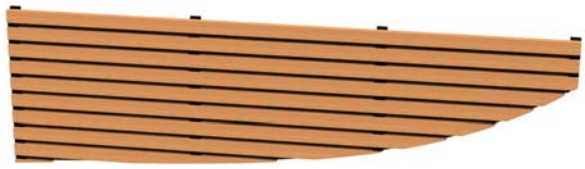
3 Fix the particle back plate into the slats and mark the position.



4 Cut the panel according to the grid pattern.

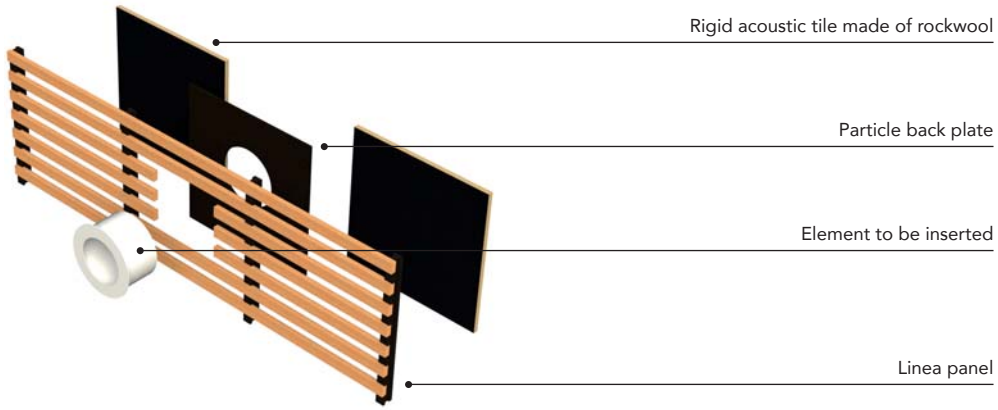


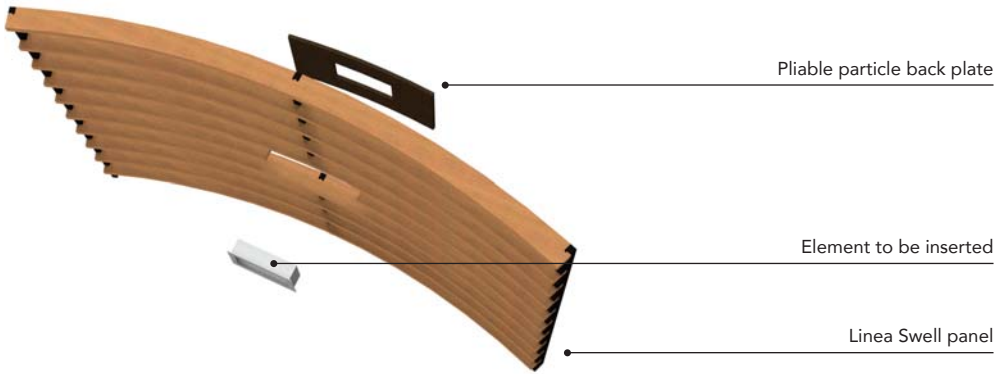
5 Panel ready for installation



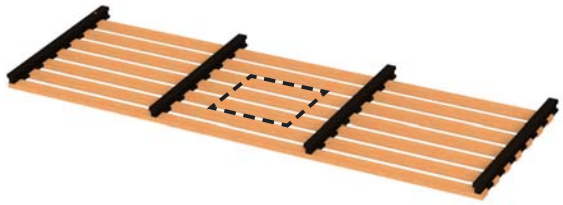
Inserting an element

Between two counter-slats



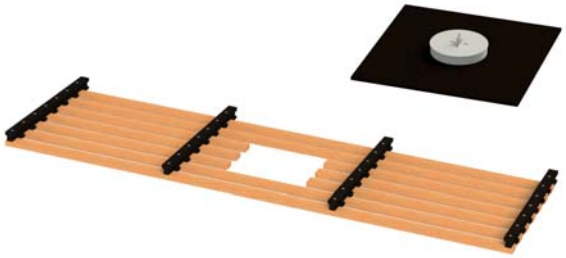


1 Define the location of the insertion.

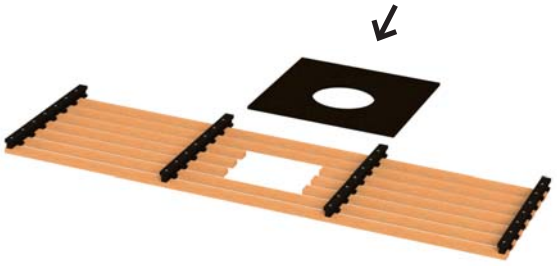


2 Cut the panel in the defined location.

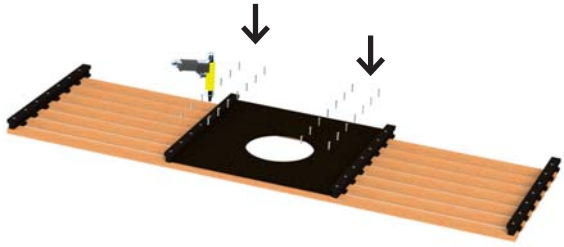
3 Cut the particle back plate according to the defined location.



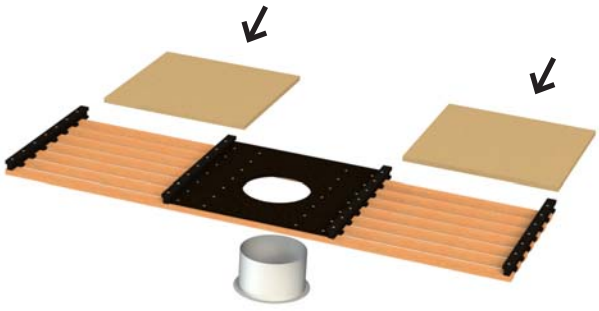
4 Insert the particle back plate into the panel.



5 Fix the particle back plate into the slats.

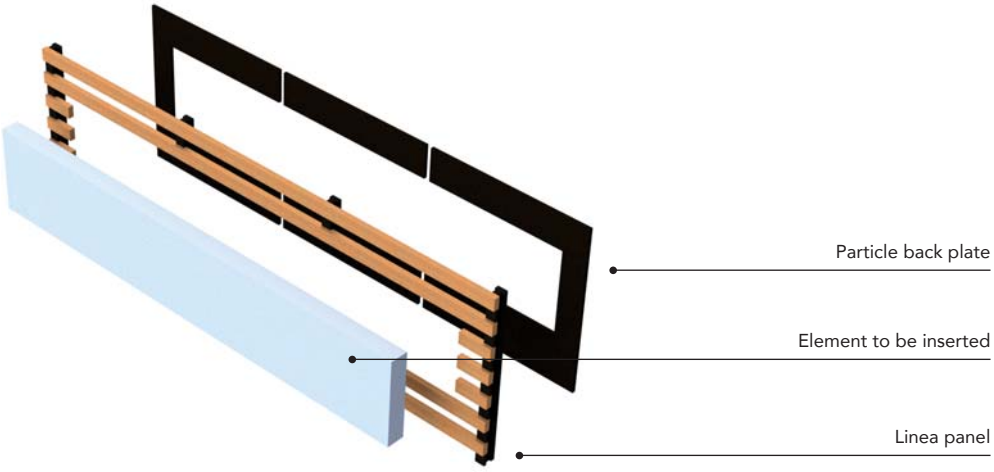


6 Add the rockwool tiles. The panel is ready to install.

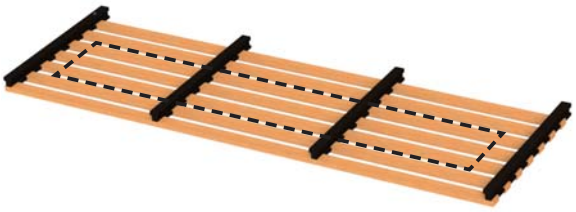


Inserting an element

With changes to the counter-slats

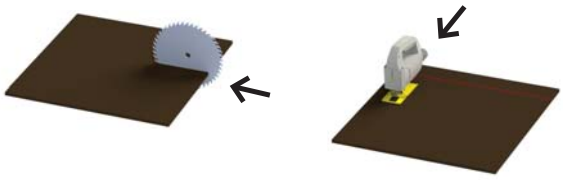


1 Define the location of the insertion.

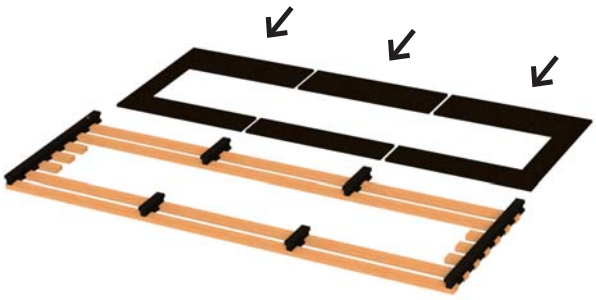


2 Cut the panel in the defined location.

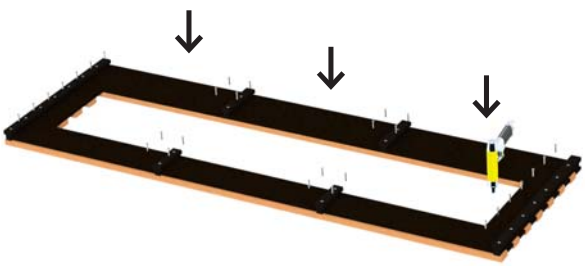
3 Position the particle back plates.



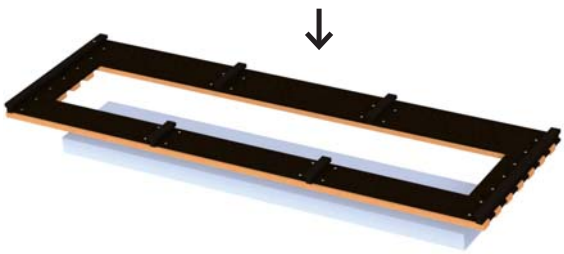
4 Insert the particle back plates into the panel.



5 Fix the particle back plates into the slats.

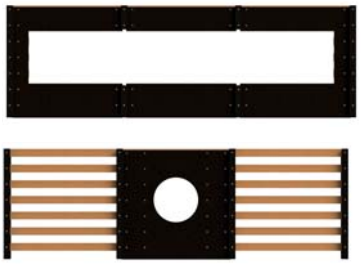


6 Panel ready for installation

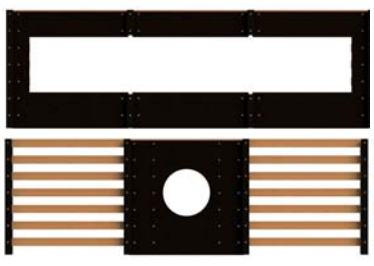


Options and parts

Options
and ceiling parts

Additional counter-slat	The additional counter-slat provides greater flexibility when cutting panels, allowing you to reconstruct and reuse panel offcuts.	
Additional slat	The additional slat allows you to finish the job with profiles identical to the panels, ensuring a neat finish.	
Bias cutting profile	The profile allows for greater flexibility when cutting panels to perfectly adapt to the project's constraints.	
Edge bracket	The mounting bracket allows you to recreate the edge system on the ceiling panels. Material: 316L stainless steel.	
Particle back plate	The particle back plate allows you to make various insertions and perform random cutting, or can be used to seal the plenum while diffusing sound (reverberation).	
Machining option with particle back plate	Ask us!	
Machining option with panel including particle back plate insertion	Ask us!	
Finishing option	Finishing pot for touching up slats or counter-slats.	Varnish, wax colour In 1 litre pot

Options and wall parts

Additional counter-slat	The additional counter-slat provides greater flexibility when cutting panels, allowing you to reconstruct and reuse panel offcuts, 600 mm long.	
Additional slat	The additional slat allows you to finish the job with profiles identical to the panels, ensuring a neat finish.	
Bias cutting profile en biais	The profile allows for greater flexibility when cutting panels to perfectly adapt to project constraints, 2,000 mm long.	
Internal/external angle profile rentrant/sortant	This profile allows you to manage the finish of wall corners, length 1,879 mm.	
Extension finish profile d'extension	This part allows you to finish returns (openings, etc.), length 1,879 mm. 20 x 68 mm 	
	20 x 40 mm  20 x 66 mm 	
Particle back plate	The particle back plate allows you to make various insertions and perform random cutting, or can be used to seal the plenum while diffusing sound (reverberation).	
Machining option with particle back plate	Ask us!	
Machining option with panel including particle back plate insertion	Ask us!	
Finishing option	Finishing pot for touching up slats or counter-slats.	Varnish, wax colour In 1 litre pot

Options &
Linea Swell parts

Additional slat	The additional slat allows you to finish the job with profiles identical to the panels, ensuring a neat finish. (1 slat, 3 assembly brackets + 12 screws, 3.5 x 20 mm).	
Suspension kit*	Suspension kit (2 threaded rods, 1 m, 2 lock nuts and 2 Combifix parts).	
Connection kit*	Kit of 10 connection sets (20 Combifix parts, 10 threaded rods, diameter 6 x 30 mm).	
Assembly bracket*	Kit of 10 assembly brackets + 40 screws measuring 3.5 x 20 mm.	
Particle back plate	The particle back plate allows you to make various insertions and perform random cutting, or can be used to seal the plenum while diffusing sound (reverberation).	
Finishing option	Finishing pot for touching up slats or counter-slats.	Varnish, wax colour In 1 litre pot

*Humid and/or corrosive environment: ask us.

Design and production
Agence Sens Design

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