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LINEA
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**SOLID TIMBER ACOUSTIC
SUSPENDED CEILING
AND WALL CLADDING**

INTERIOR



LAUDESCHER

6

Installation

A PATENTED FLEXIBLE INSTALLATION SYSTEM THAT ADAPTS TO STANDARD SYSTEMS ON THE MARKET

These recommendations are purely indicative suggestions. For more detailed advice, please refer to the railing manufacturers' guidelines, and to the current corresponding norms, that prevail in case of conflicting information. If in doubt on fitting instructions, the professional must seek the necessary clarifications and assistance before installing. Laudescher will not be held accountable for a defective installation.

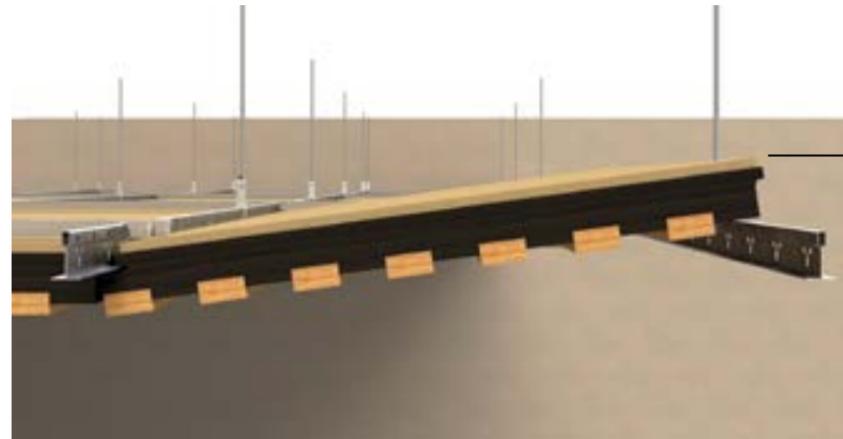
Wearing PPE (Personal Protective Equipment) is necessary for cutting panels (goggles for chip projections, FFP3 mask for inhaling sawdust and gloves for splinters).



Installation dismountable ceiling

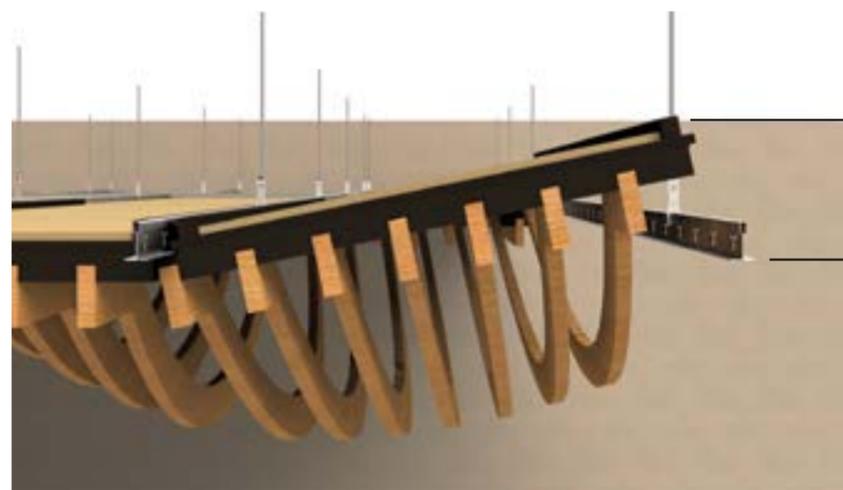
Requirements for installation

Minimum plenum to mount and
dismount panels



Minimum plenum
100 mm

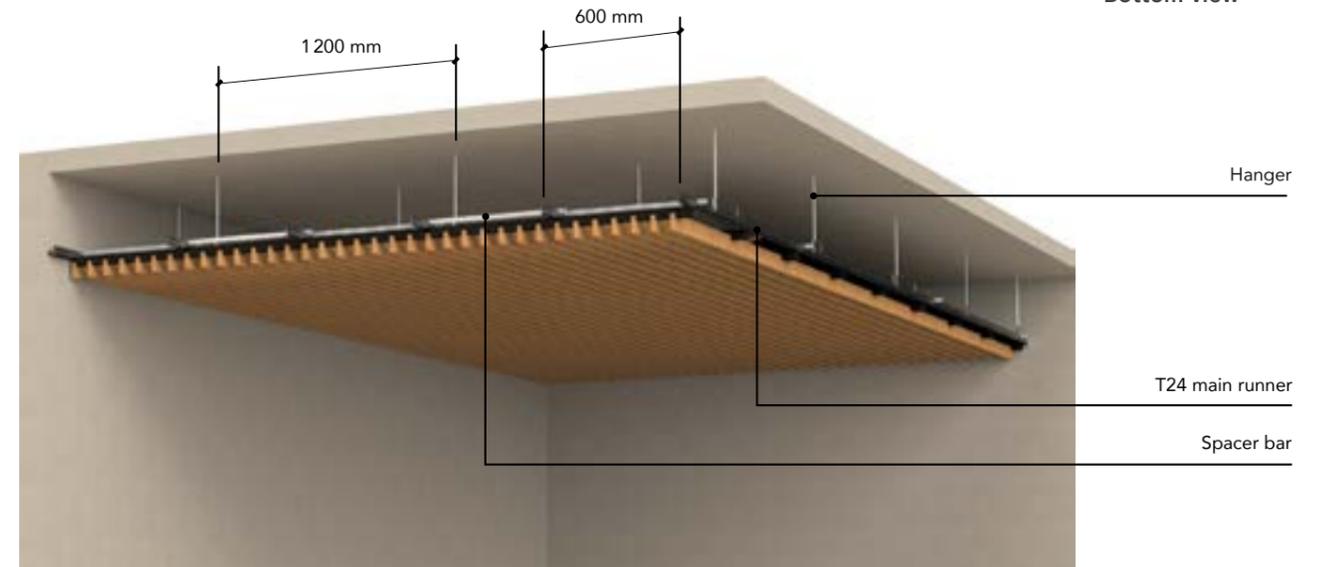
Special case of LINEA SHAPE



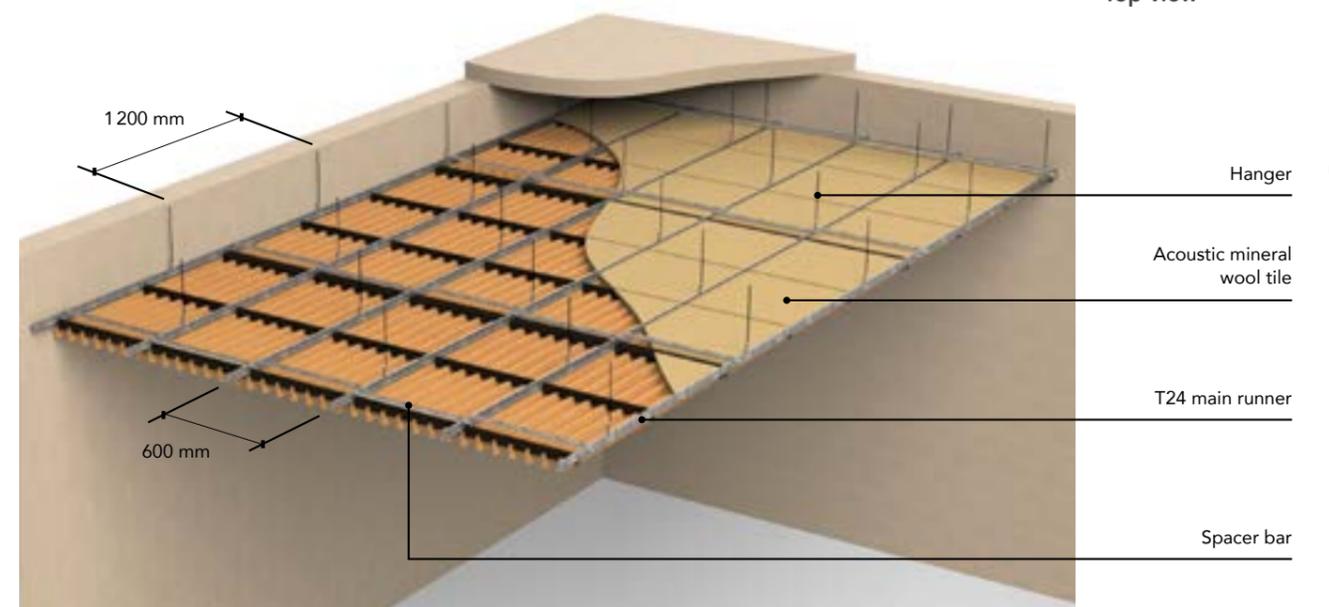
Minimum plenum
150 mm

Overview drawings

Bottom view



Top view



INSTALLATION

Installation dismountable ceiling

Frame

Installed on standard T24 grid system* with black capping, concealed using a patented system, according to current standards and best practice rules in each country (French standards NF P 68203-1 and -2 and DTU 58-1, 2008 edition France).

Laudescher does not supply all structural elements.

* The entire framework and suspension system must be designed when applying in moist and/or corrosive environments.

DESCRIPTION

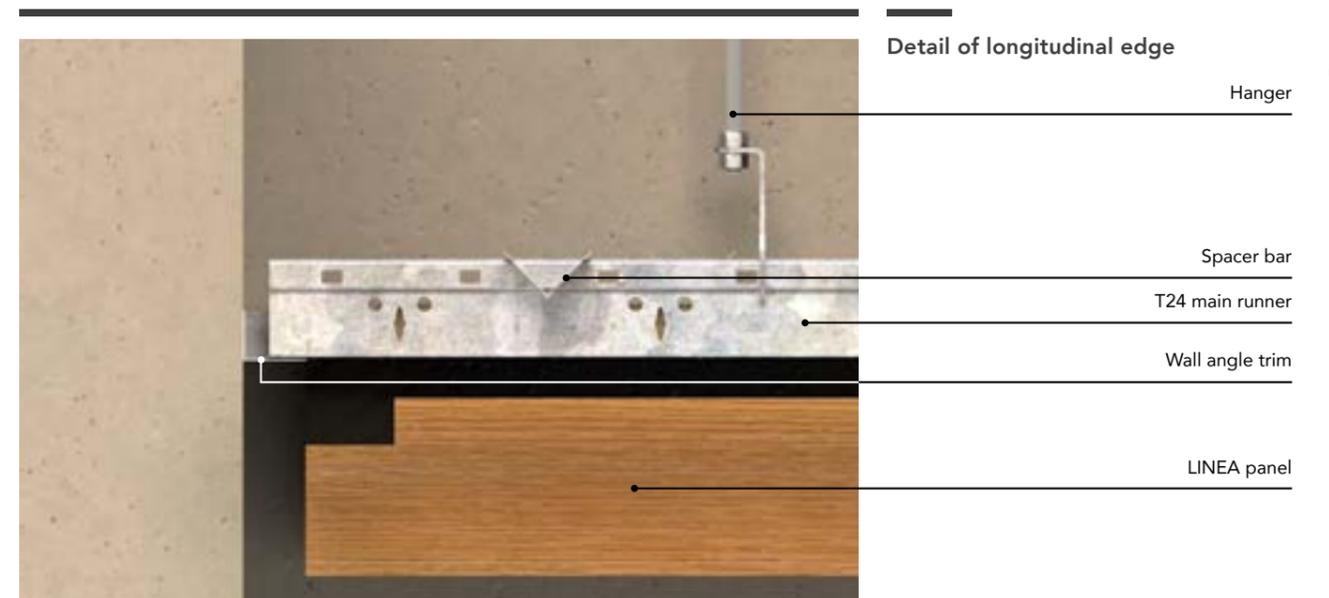
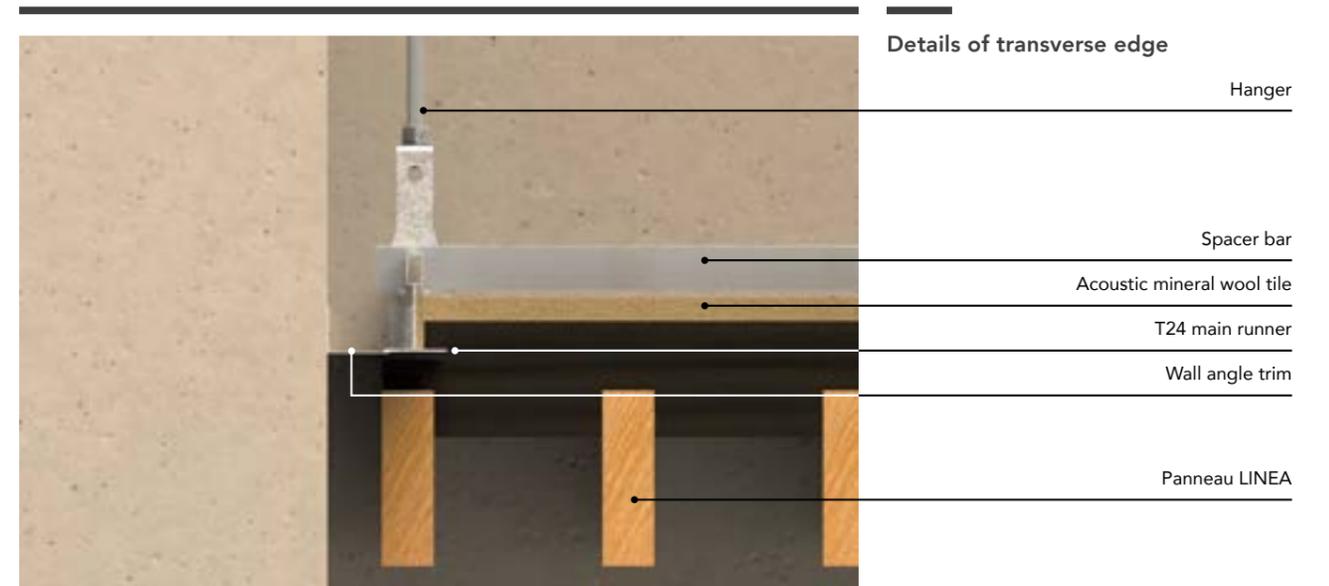
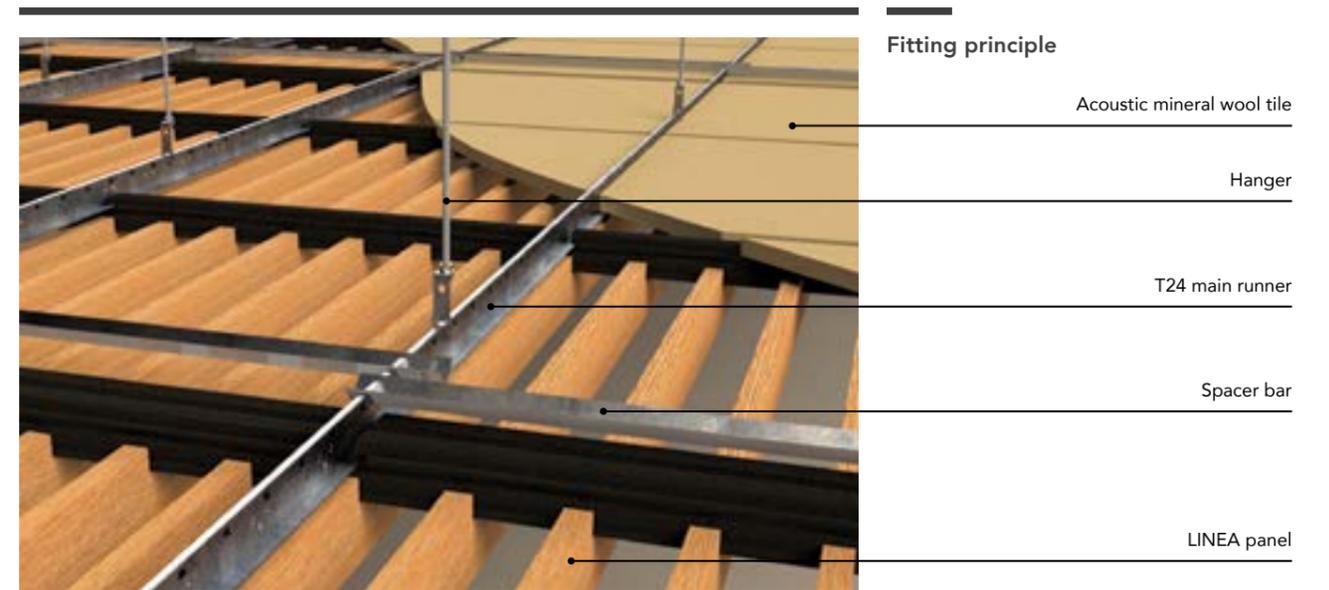
T24 main runners	Centre distance 600 mm
Hangers	Quick-adjusting threaded rods or hangers
Distance between hangers	Maximum 1200 mm Maximum 150 mm from edge
Spacing	Minimum 1 spacer bar per panel Spacer bars 200mm from edge
Finish	Perimeter trim with wall angle trim profile with black capping (peripheral shadow gap)

FRAME COVERAGE

	Frame 1880 x 600 mm
Rail	1,67 ml/m ²
Spacer bar	0,54 ml/m ²
Profile	Based on length of edge
Hanger	1,40 p/m ²

Maximum load : 22 kg/m² evenly distributed

General views

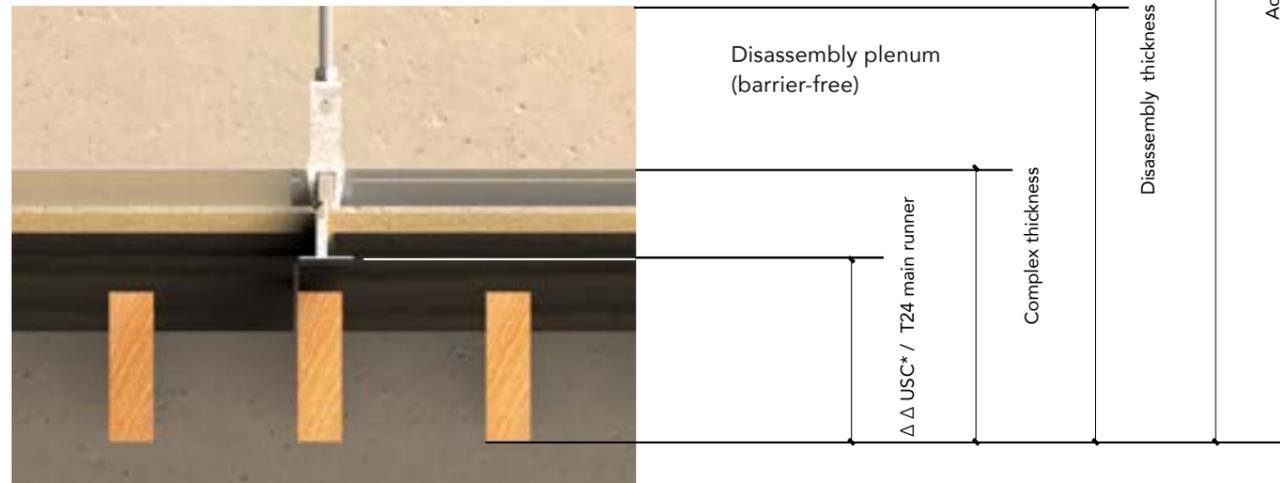


Installation dismountable ceiling

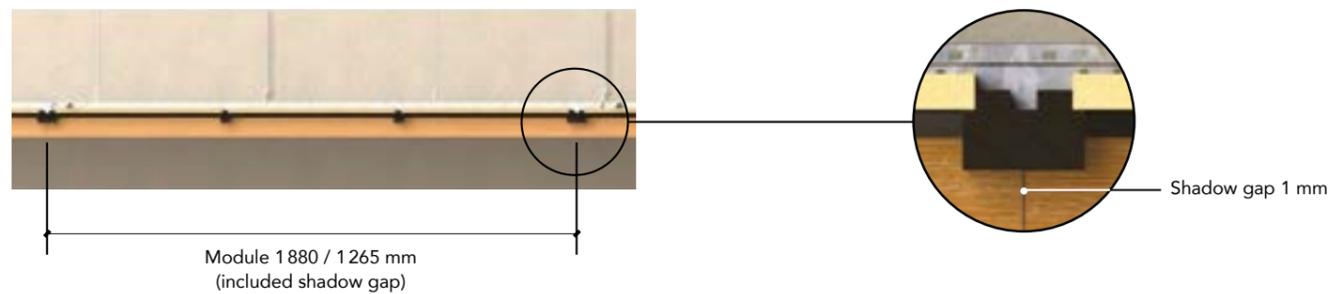
System dimensions

Dismounting

Details



Longitudinal view

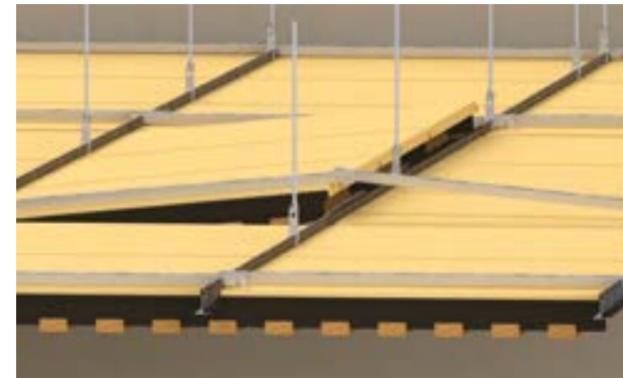


CEILING

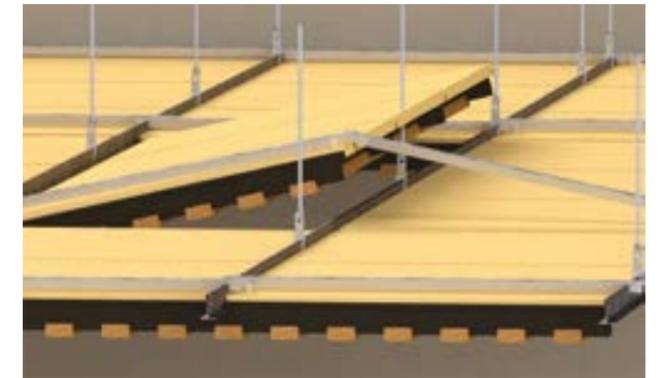
Model	Δ USC* / T24	Complex thickness	Disassembly thickness	Acoustic thickness
4.2 / 4.2 LITE	43 mm	84 mm	144 mm	314 mm
9.2.1 / 422 AL	48 mm	89 mm	149 mm	319 mm
9.2.3 / 9.2.6	43 mm	84 mm	144 mm	314 mm
2.4 / 2.4 LITE / 42 AL	57 mm	98 mm	158 mm	328 mm
2.6	83 mm	124 mm	184 mm	354 mm
2.9	105 mm	146 mm	206 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 *USC: Under Suspended Ceiling

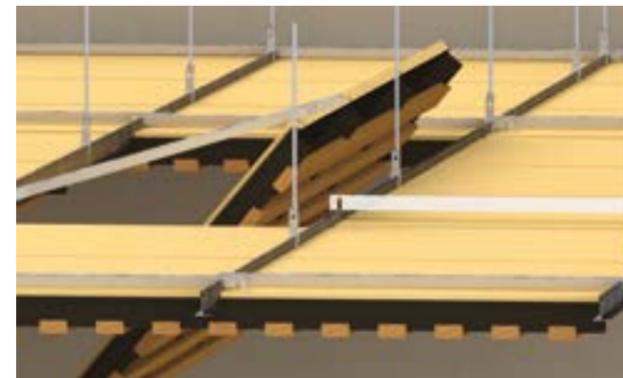
Step 1 : Lift the panel



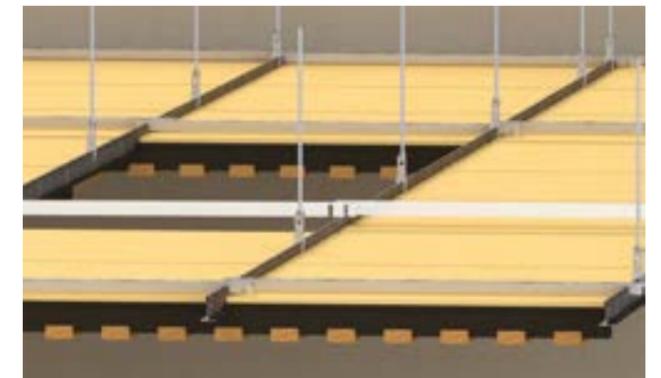
Step 2 : Slide the panel



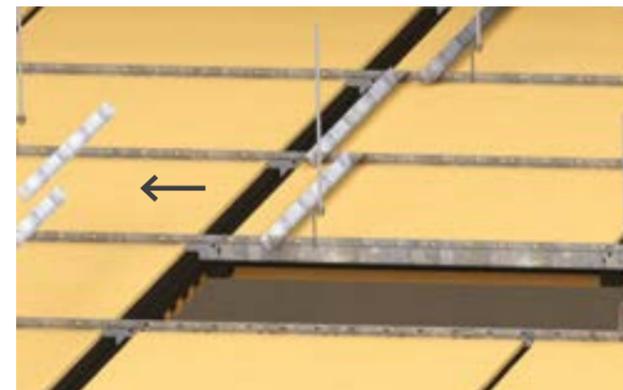
Step 3 : Remove the panel



Step 4 : The spacer bars are unclipped



Step 5 : Shift the spacer bars to the next panel



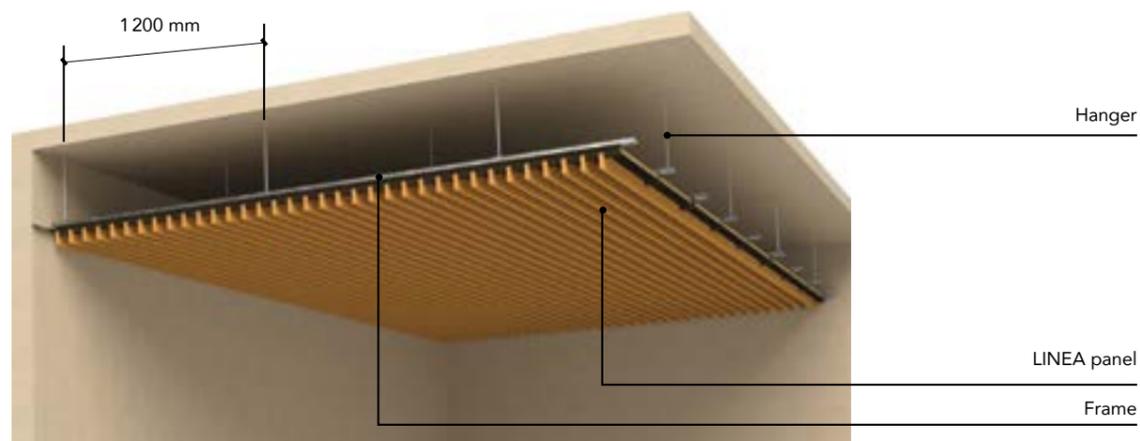
Step 6 : Check system lock



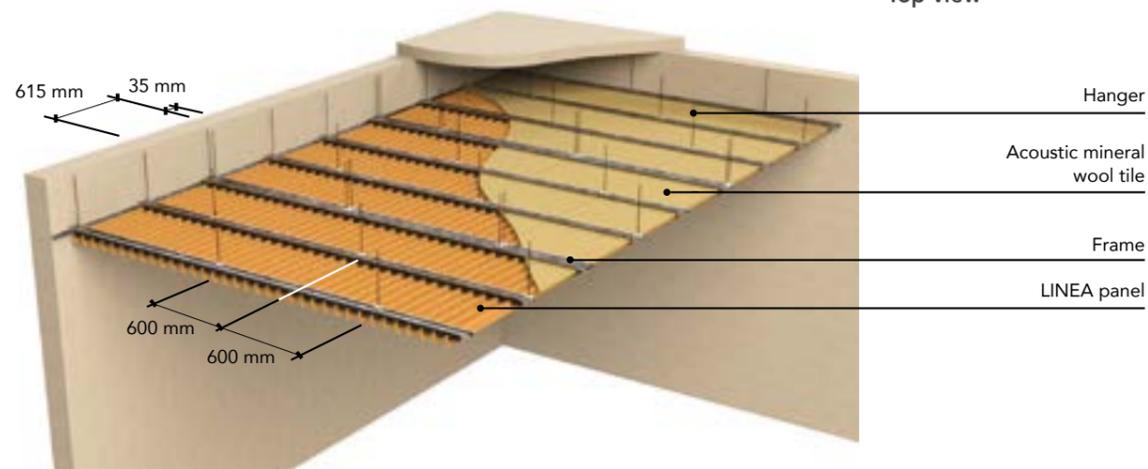
Installation screwed ceiling

Overview drawings

Bottom view



Top view



Frame

Fitted by screwing onto framework* through the black counter-slats (2 black-lacquered round-head screws per counter-slat), as per NF EN 13964 and DTU 58-1. None of the structural elements are supplied by Laudescher.

*The entire framework and suspension system must be designed when applying in moist and/or corrosive environments.

DESCRIPTION

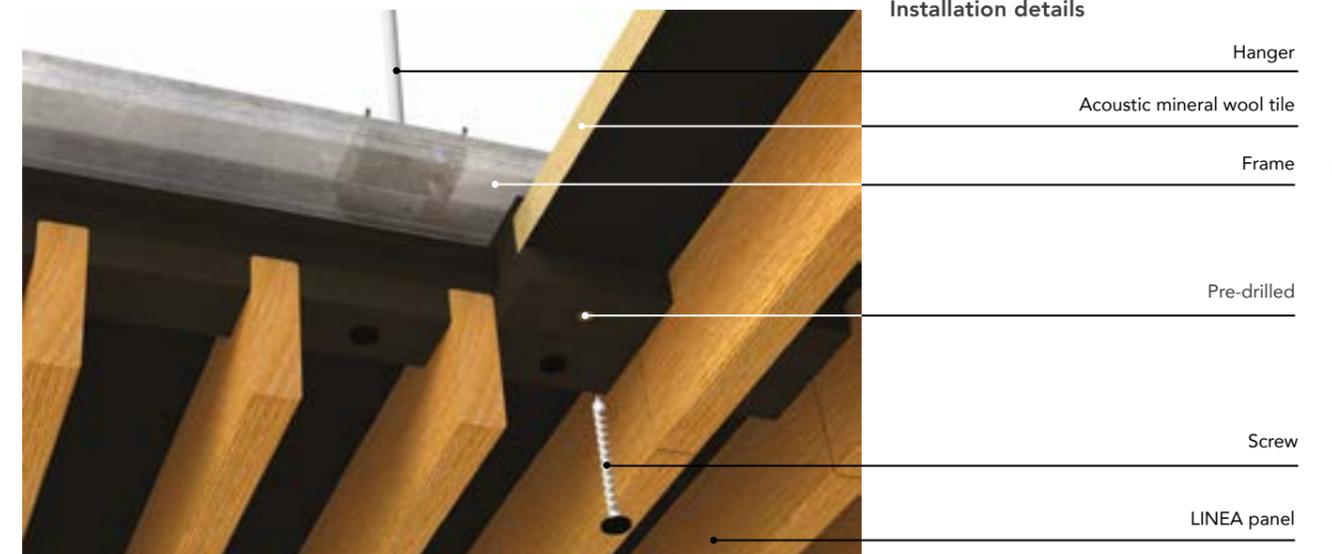
Frame	Metal or wooden structure aligned with counter-slats Minimum 2 screws per counter-slats
Hangers	Compatible with the choice of structure and supporting materials
Spacing between hangers	Maximum 1200 mm Maximum 100 mm from the edge
Finish	Perimeter trim with wall angle trim profile

FRAME COVERAGE

	Frame 1880 x 600 mm
Rail	2,1 ml/m ²
Hanger	1,8 pc/m ²
Profile	Based on length of edge

Maximum load : 30 kg/m² evenly distributed

Installation details



INSTALLATION

Installation screwed ceiling



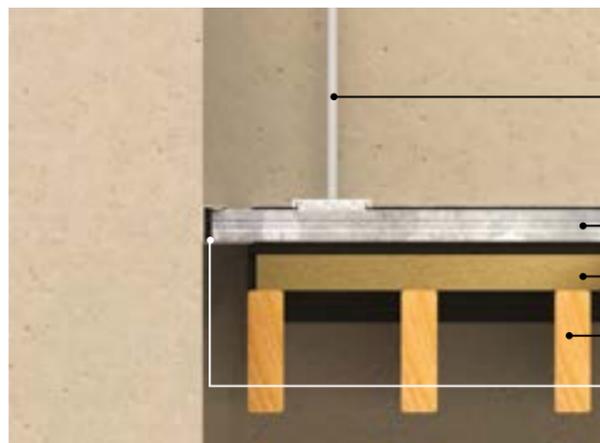
Fitting principle

- Hanger
- Acoustic mineral wool tile
- LINEA panel
- Frame



Detail of transverse edge

- Hanger
- Frame
- Acoustic mineral wool tile
- LINEA panel
- Perimeter trim

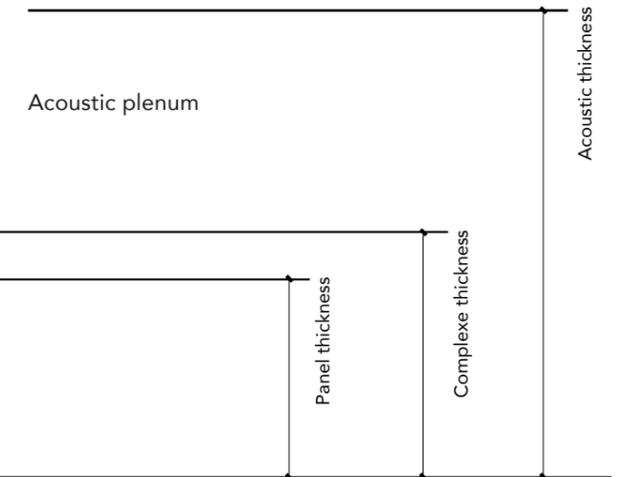
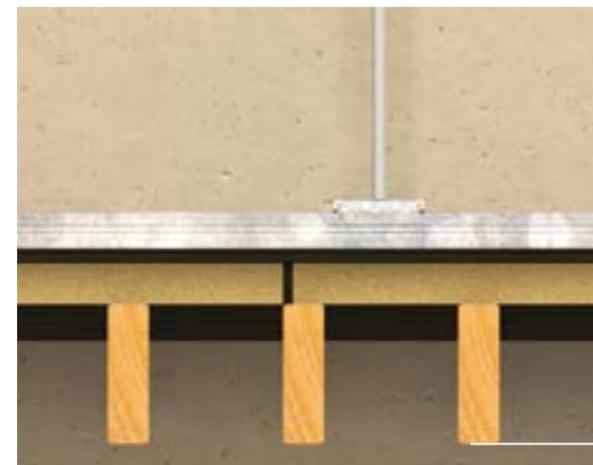


Detail of longitudinal edge

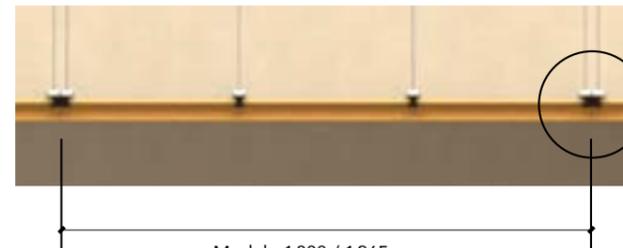
- Hanger
- Frame
- Acoustic mineral wool tile
- LINEA panel
- Perimeter trim

System dimensions

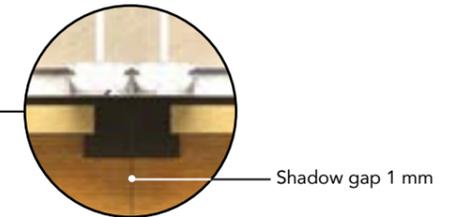
Details



Longitudinal view



Module 1880 / 1265 mm
(including shadow gap)



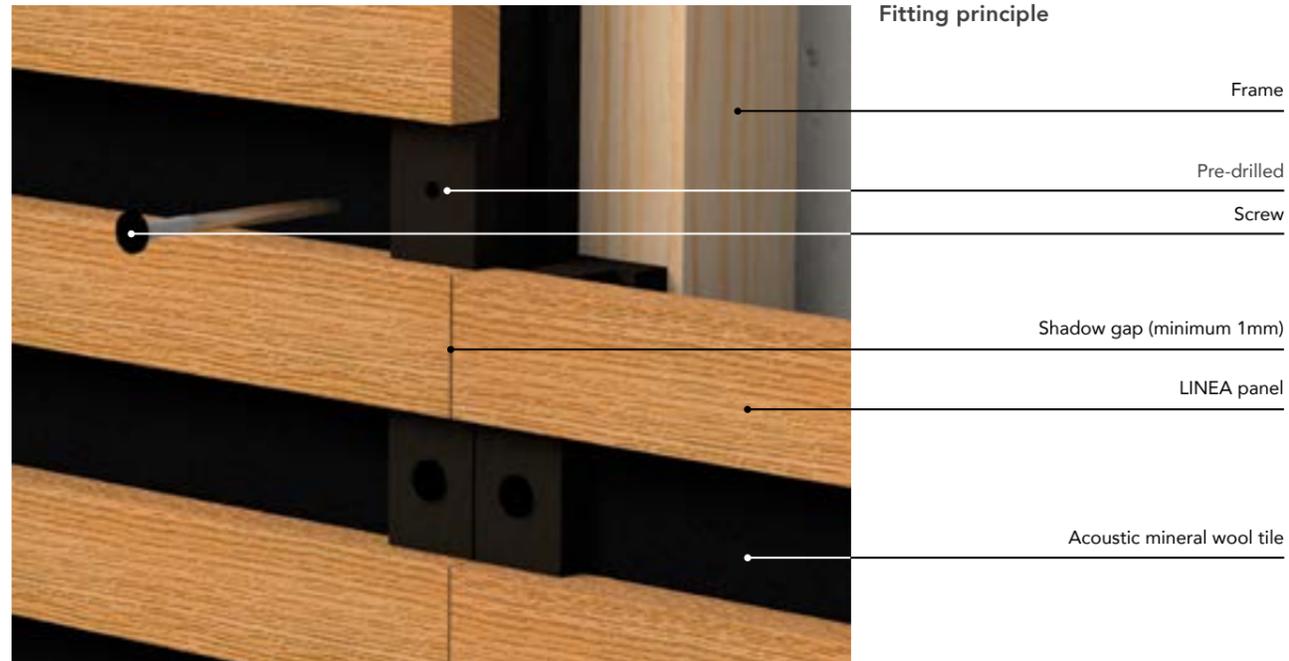
Shadow gap 1 mm

CEILING

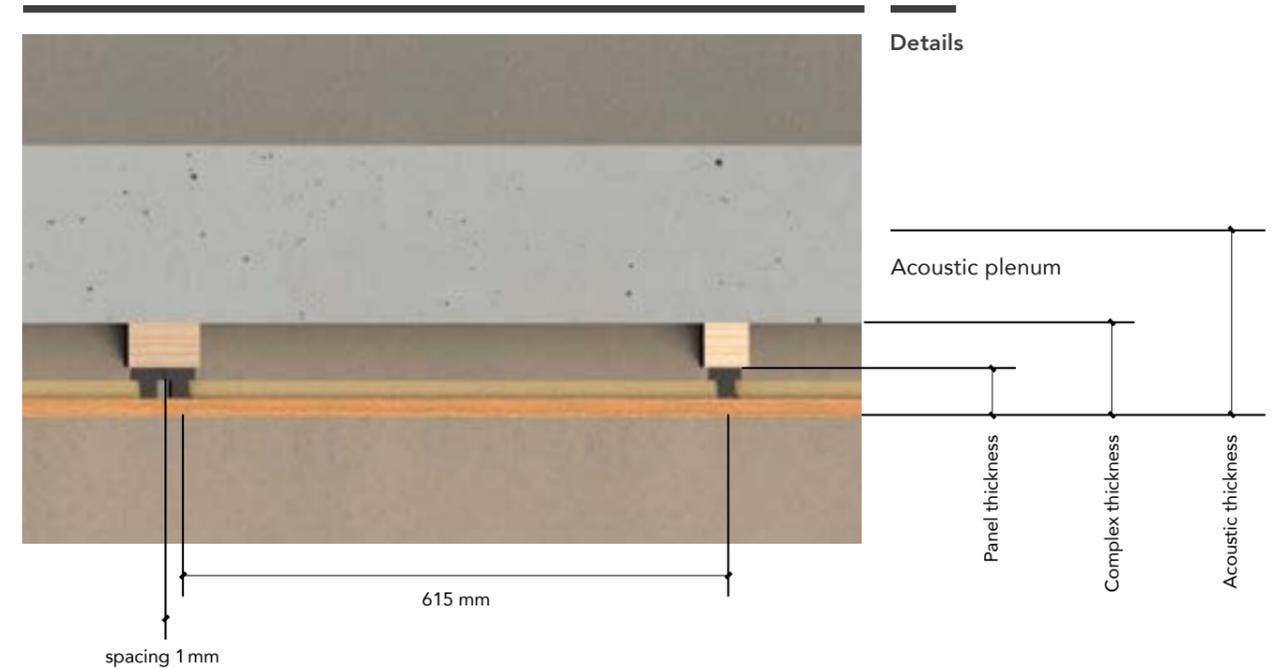
Model	Panel thickness	Complex thickness	Acoustic thickness
4.2.1 / 4.2.1 LITE / 4.2.4 / 4.2.4 LITE	55 mm	55 mm + frame	91 mm
9.2.1 / 422 AL	60 mm	60 mm + frame	96 mm
9.2.3 / 9.2.6	55 mm	55 mm + frame	91 mm
2.4.3 / 2.4.3 LITE / 2.4.5 / 2.4.5 LITE / 42 AL	69 mm	69 mm + frame	113 mm
2.6.5 / 2.6.6 / 2.6.6 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

Installation wall

Overview drawings



System dimensions



Frame

Fitted by screwing onto framework* through the black counter-slats (2 black-laquered round-head screws per batten) as per DTU 36.2 and EN 14915.

* The entire framework and suspension system must be designed when applying in moist and/or corrosive environments.

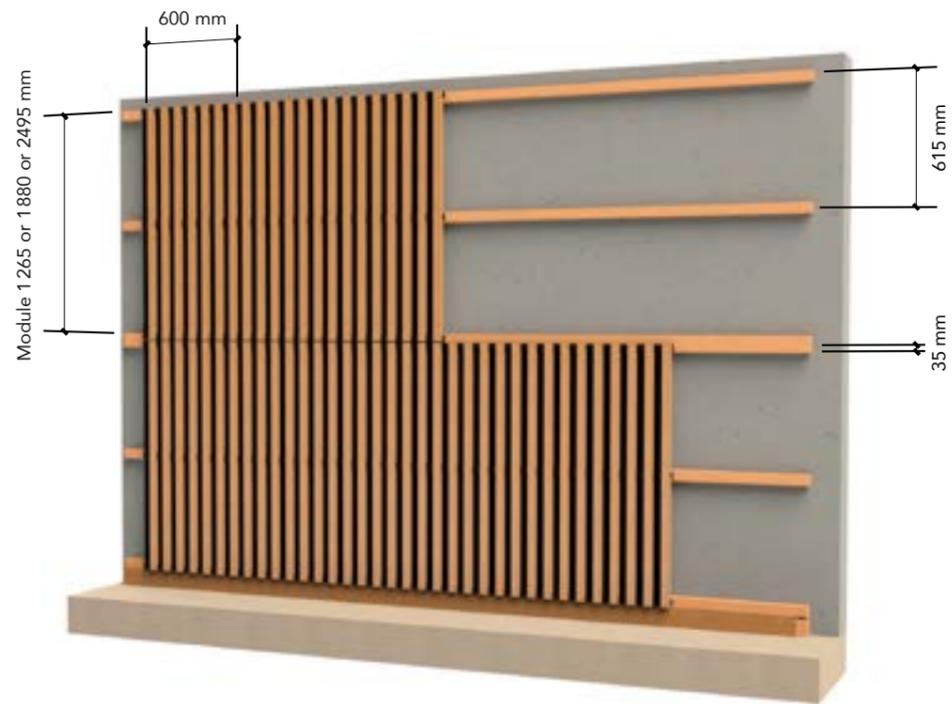
WALL

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

Installation wall

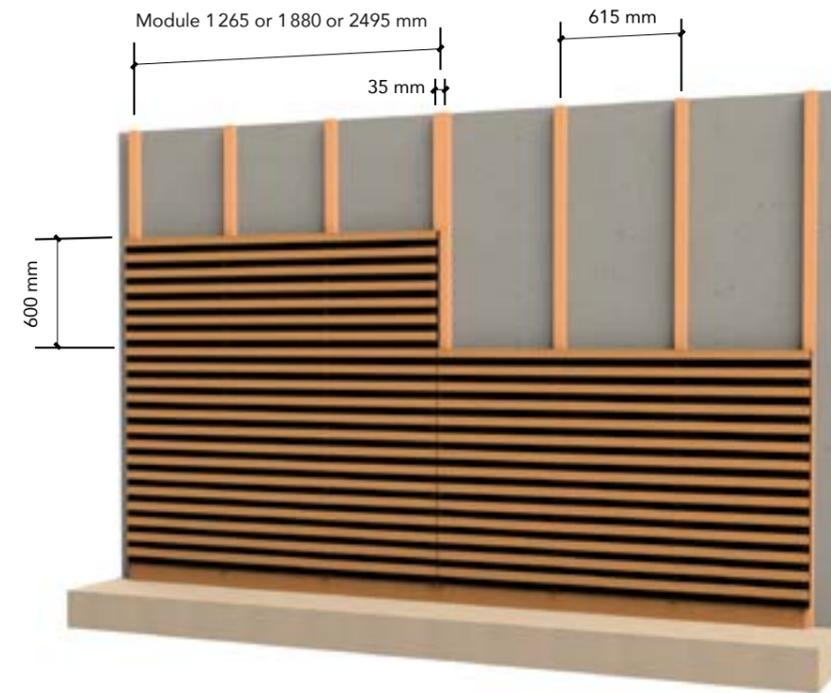
Vertical fitting

Overview



Horizontal fitting

Overview

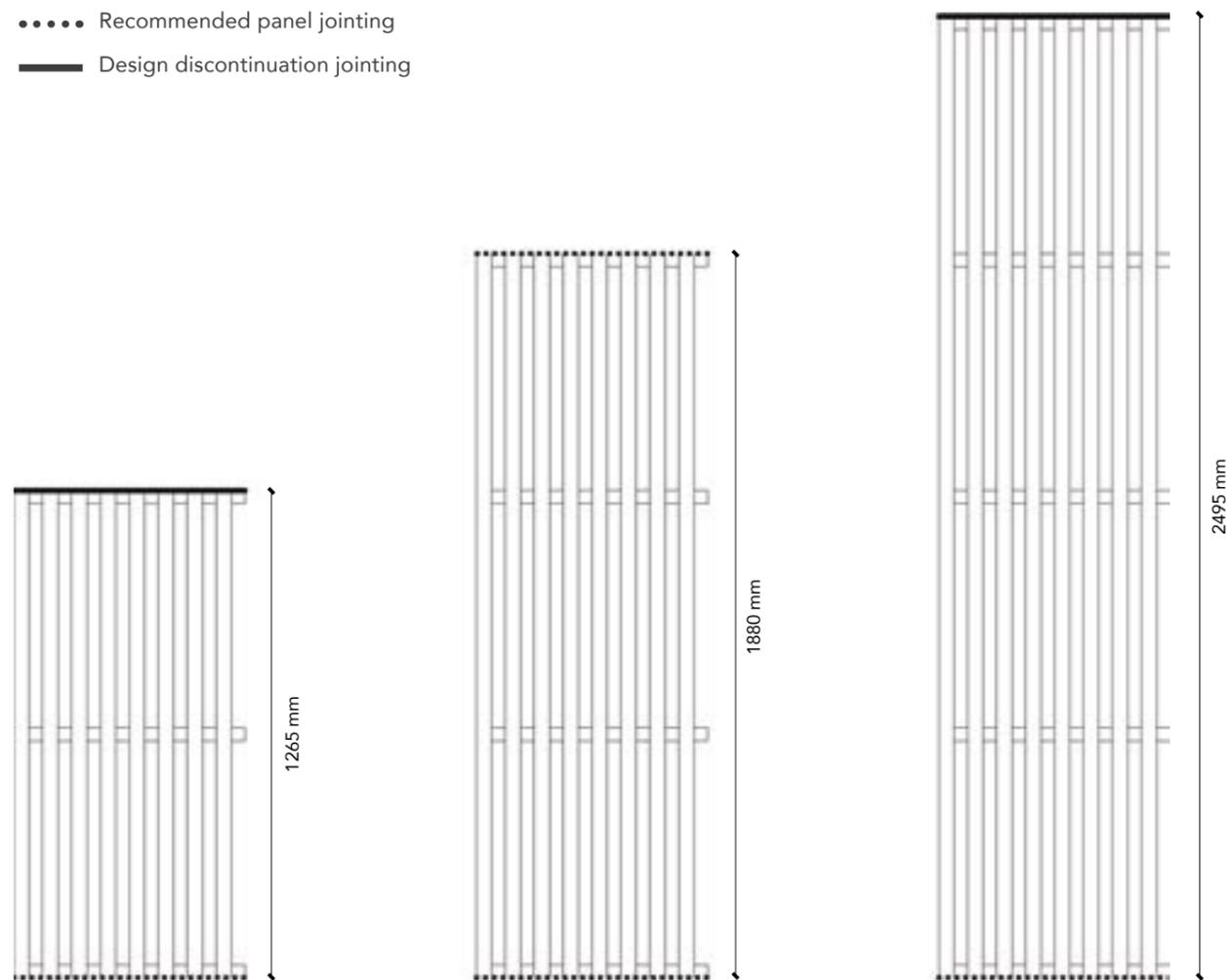


Installation LINEA 3D

Fitting order

To ensure the continuity of our graphic designs, Linea 3D models are to be fitted in a given order.

- Recommended panel jointing
- Design discontinuation jointing

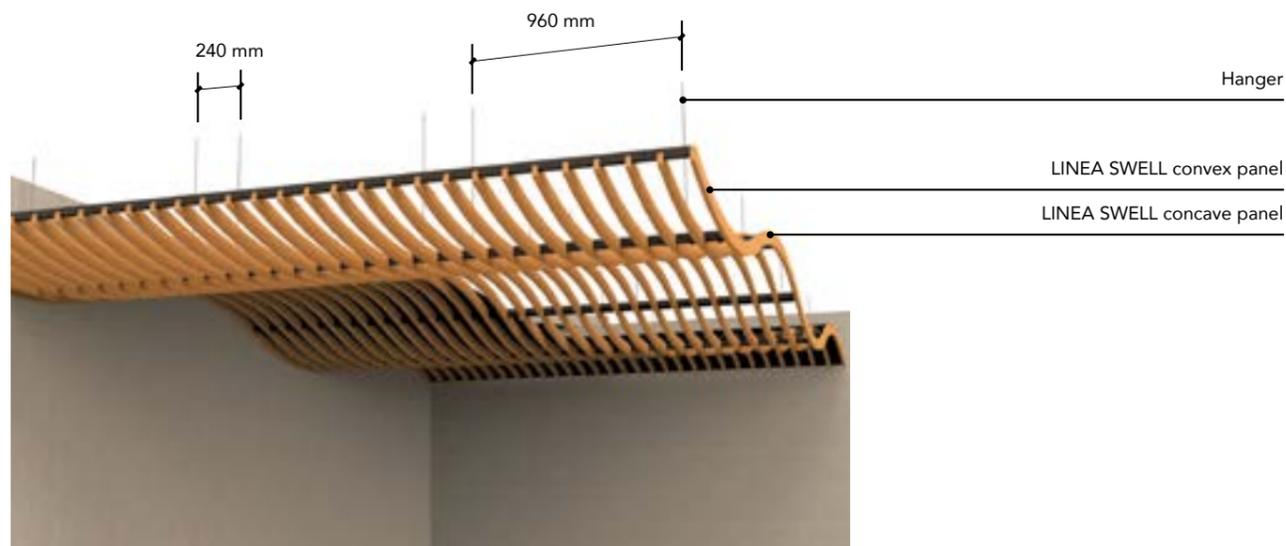


* Overhang counter-slats must always be positioned on the same side.

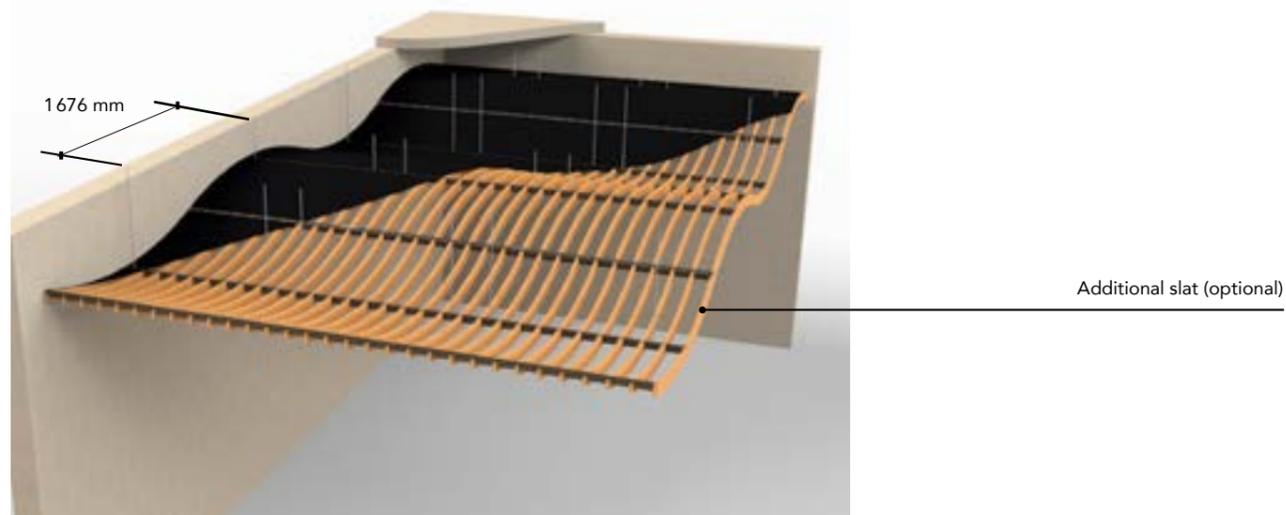
Installation LINEA SWELL

General views

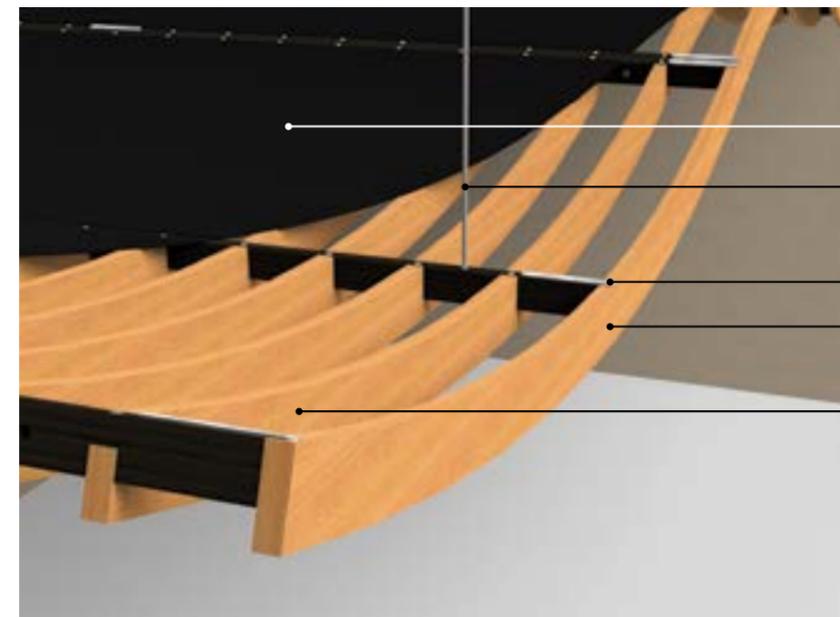
Bottom view



Top view



Fitting principle



Edge finishing by adding an additional slat (option) attached with assembly strips (option).

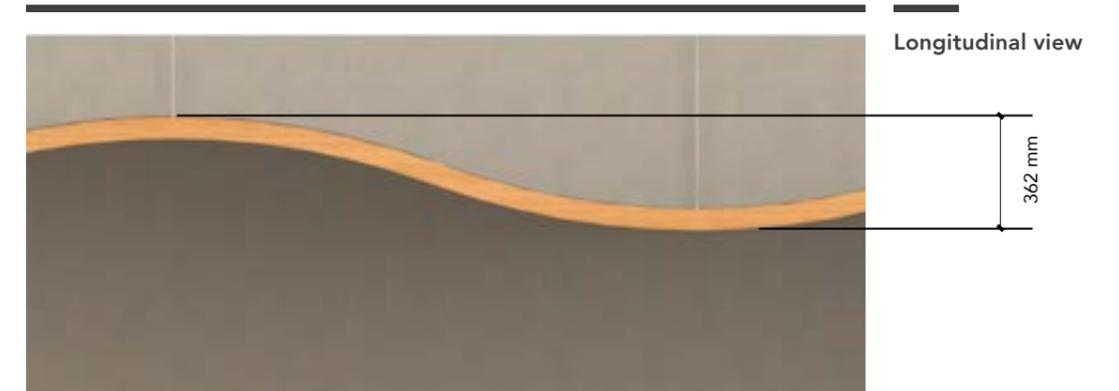
Frame

Installed by suspension to threaded rods* according to current standards and best practice rules in each country (French standards NF P 68203-1 and DTU 58-1 édition 2008 France).

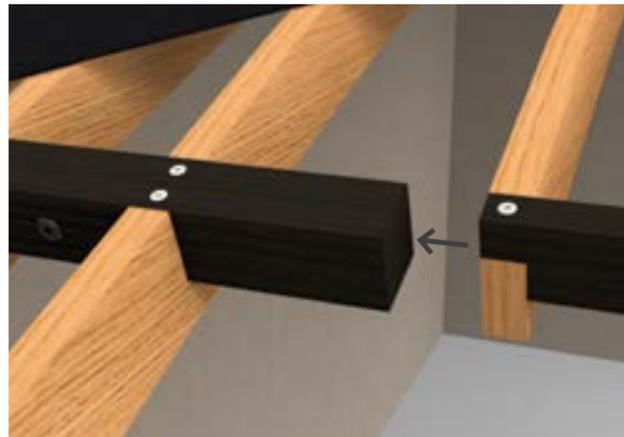
* The entire framework and suspension system must be designed when applying in moist and/or corrosive environments.

Installation LINEA SWELL

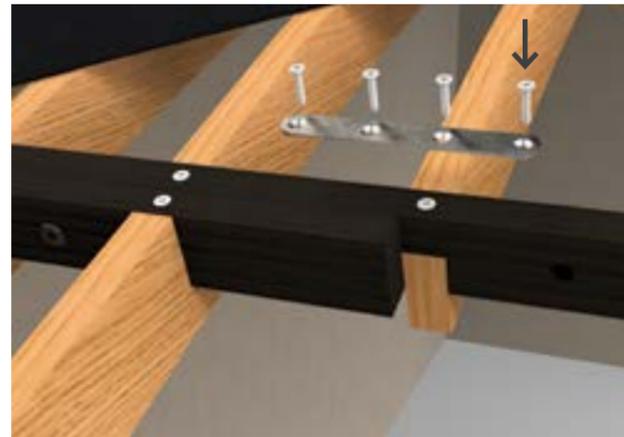
Installation details



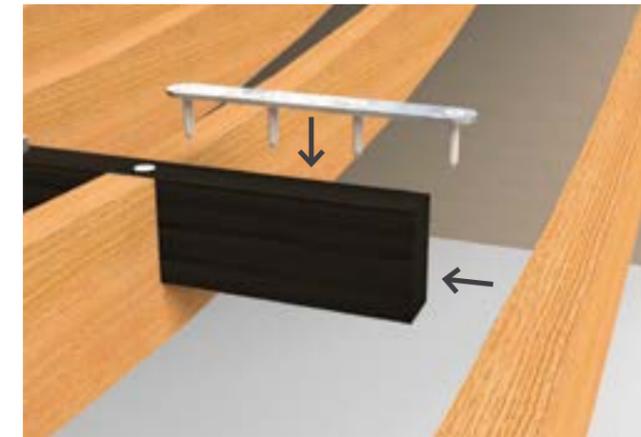
Step 1 : Position the panel to be fixed



Step 2 : Assemble the panels using the assembly strips and 4 screws



Step 1 : Position the additional slat to be fixed



Detail of edges

Step 3 : Fix the last panel using the joining kit



Step 4 : Check system lock



Step 2 : Attach the slat using the assembly strips and 4 screws



Cutting panels

Simple cut of a panel along its length

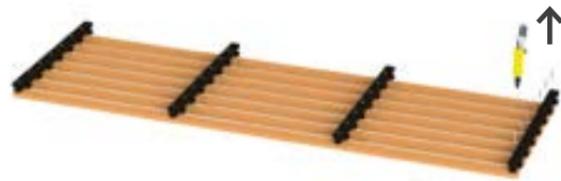
Before making cuts :

- the maximum slat overhang is 150 mm ;
- the maximum cut width varies depending on the model ;
- cuts where the counter-slats are modified are made outside outer counter-slats ;
- if the cut is visible, use finishing Wax Color and/or varnish (option).

Step 1 : Mark the position of the cut



Step 2 : Unscrew the counter-slat to be moved



Step 3 : Move the counter-slat



Step 4 : Screw the counter-slat back on



Step 5 : Cut of the surplus slats



Step 6 : Panel ready to be fitted



Step 1 : Mark the position of the cut



Simple cut of a panel across its width (wall)

Step 2 : Cut the panel following the line of the slats



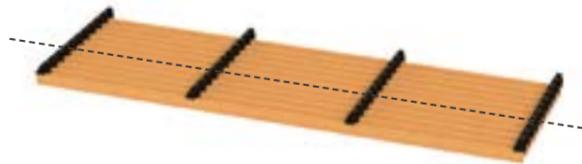
Step 3 : Panel ready to be fitted



Cutting panels

Simple cut of a panel across its width (ceiling)

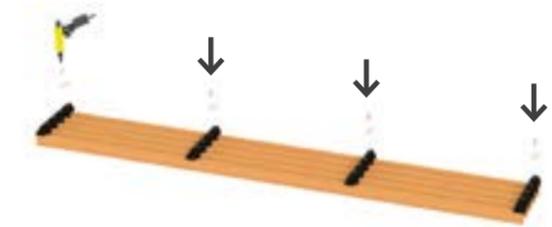
Step 1 : Mark the position and side of the cut



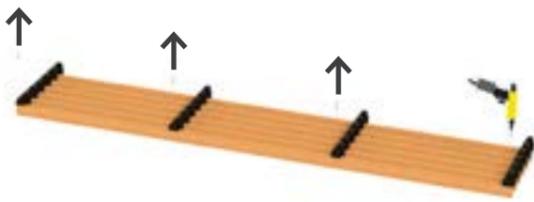
Step 2 : Cut the panel



Step 3 : Male cut finish - Screw on the edging strip (option) - Pre-drill Ø 2 mm



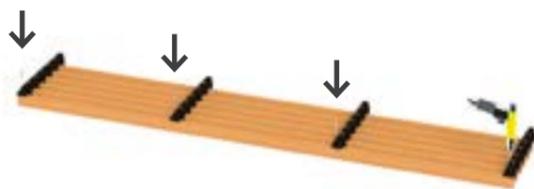
Step 4 : Female cut finish - Unscrew the slat-retaining screws



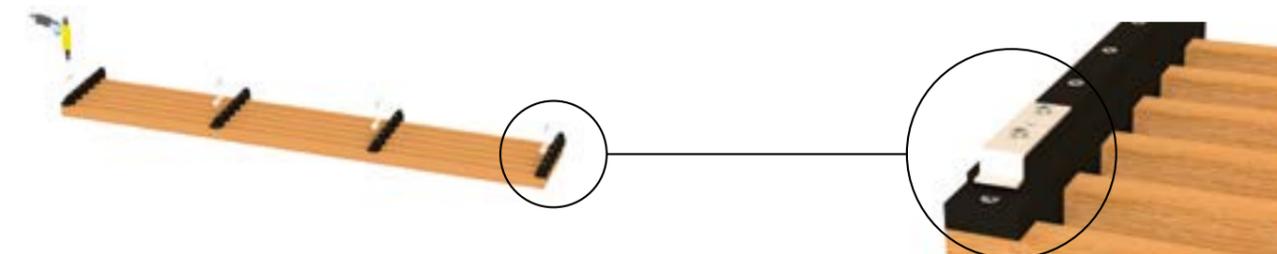
Step 5 : Notch the end of the counter-slat



Step 6 : Screw the slat-retaining screws back in

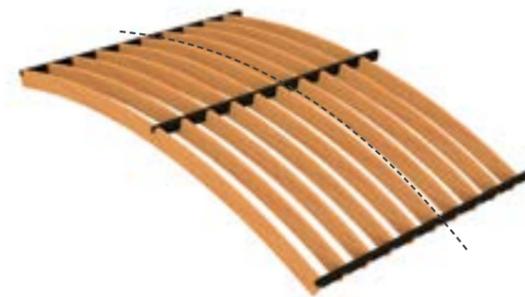


Step 7 : Screw on the edging strip (option). Pre-drill Ø 2 mm

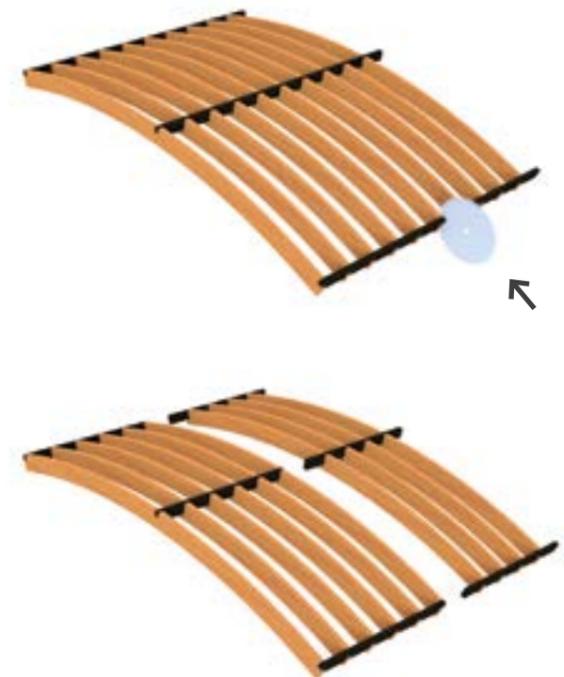


Simple cut of a LINEA SWELL panel across its width

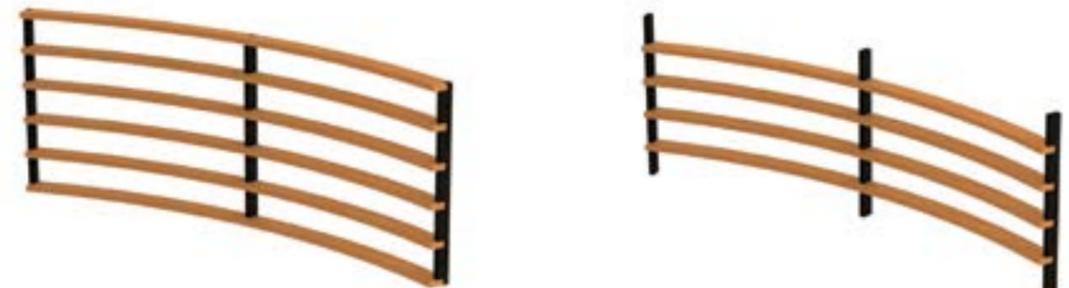
Step 1 : Mark the position of the cut



Step 2 : Cut the panel



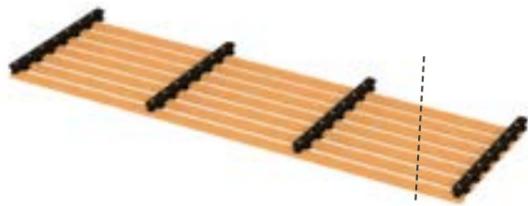
Step 3 : Panel ready to be fitted, after drilling the counter-slats for the hangers (Ø 9 mm)



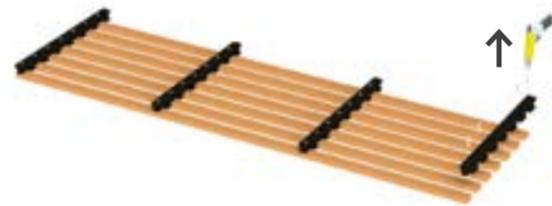
Cutting panels

Angled length cut

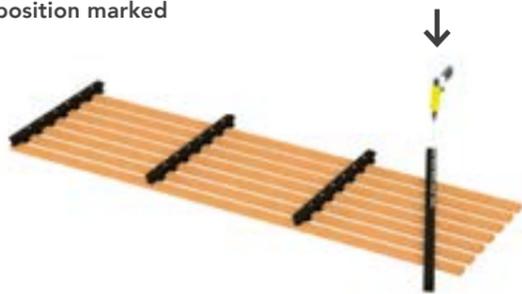
Step 1 : Mark the position of the cut



Step 2 : Unscrew the counter-slat



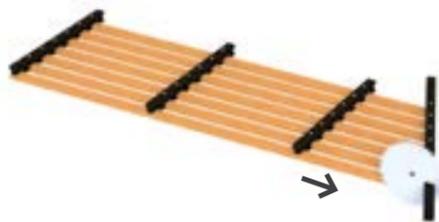
Step 3 : Screw the cutting profile in the position marked



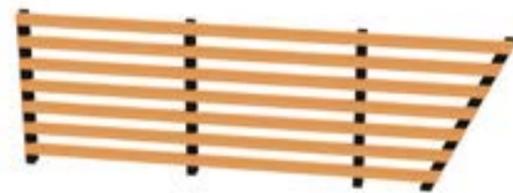
Step 4 : Cut the panel along the cutting profile



Step 5 : Cut the surplus of the cutting profile

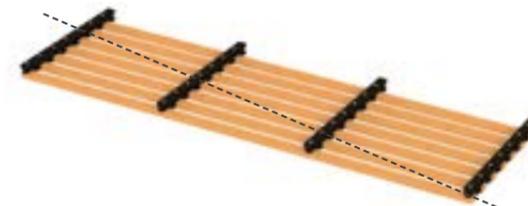


Step 6 : Panel ready to be fitted

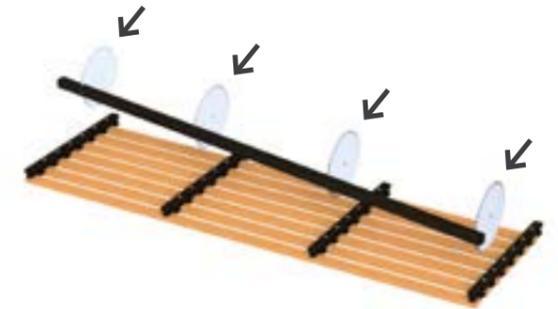


Angled width cut

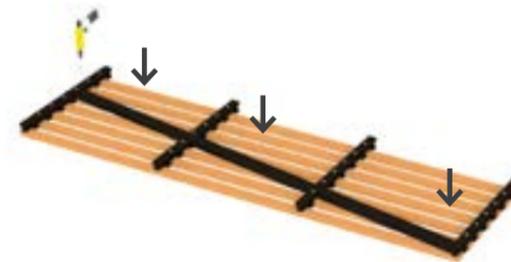
Step 1 : Mark the position of the cut



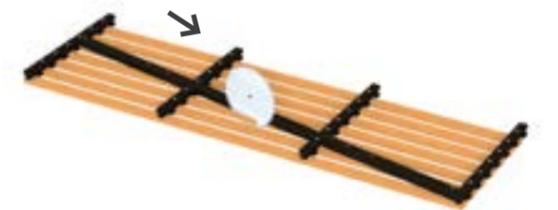
Step 2 : Cut the cutting profile



Step 3 : Screw on the profile to hold the slats



Step 4 : Cut the panel along the cutting profile



Step 5 : Panel ready to be fitted



Cutting panels

Random length cut

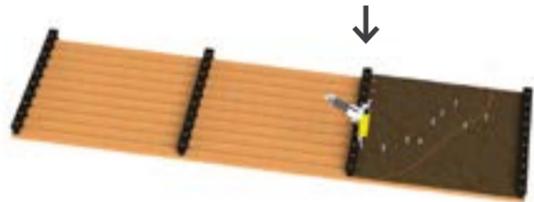
Step 1 : Mark the position of the cut



Step 2 : Insert the particle plate (option)



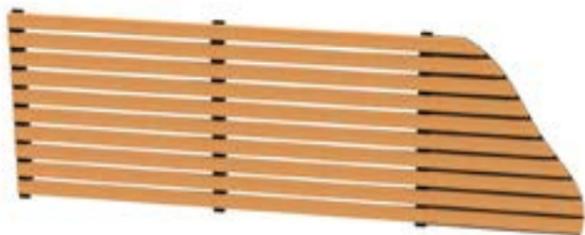
Step 3 : Fix the particle plate on the slats and draw the outline



Step 4 : Cut the panel following the outline

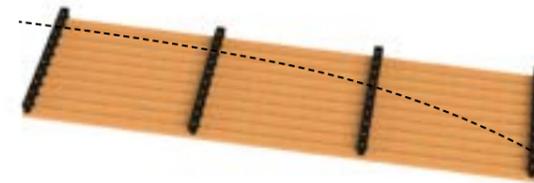


Step 5 : Panel ready to be fitted



Random width cut

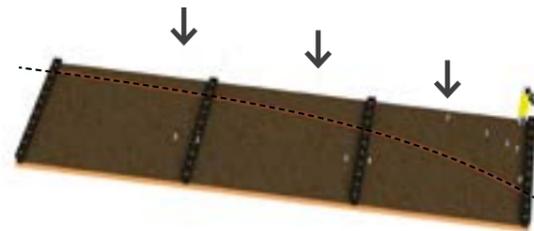
Step 1 : Mark the position of the cut



Step 2 : Insert the particle plate (option)



Step 3 : Fix the particle plate on the slats and draw the outline



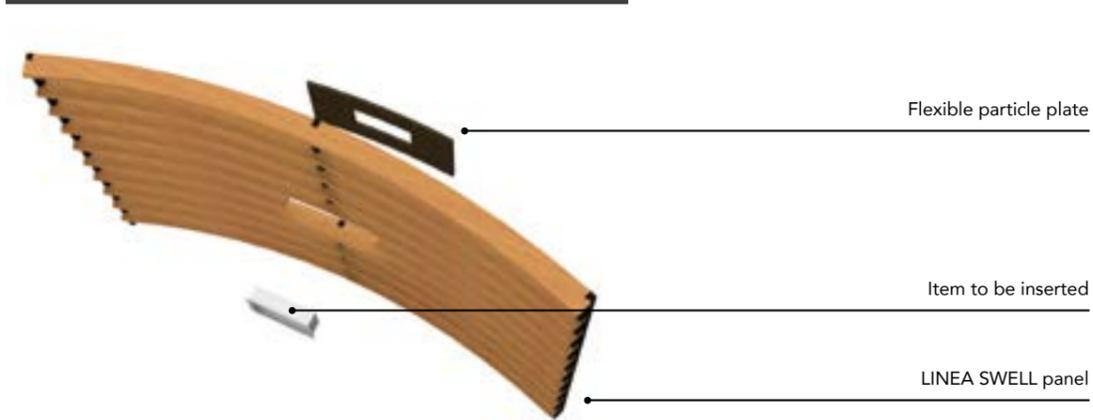
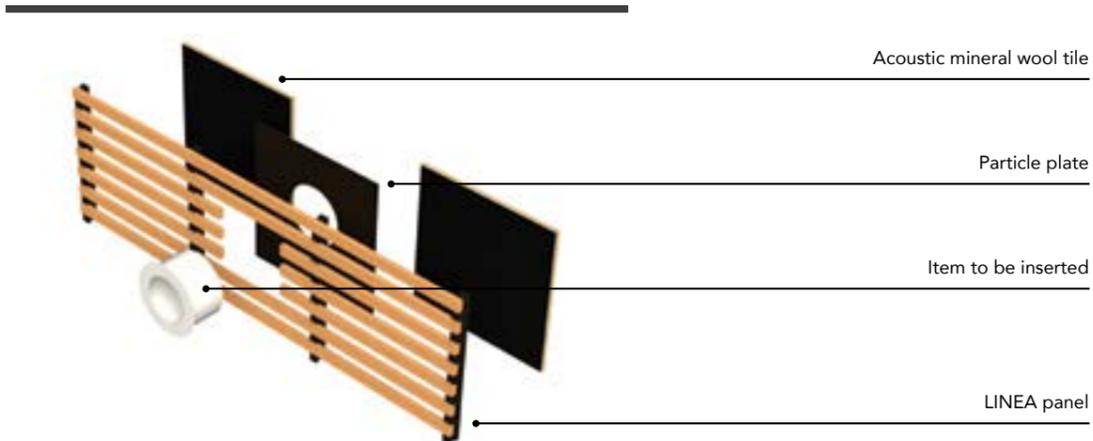
Step 4 : Cut the panel following the outline



Step 5 : Panel ready to be fitted

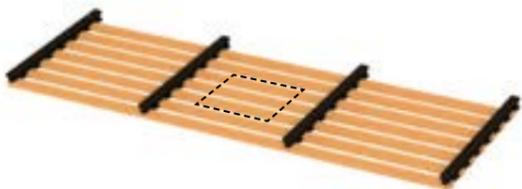


Inserting an item



Insertion between two counter-slats

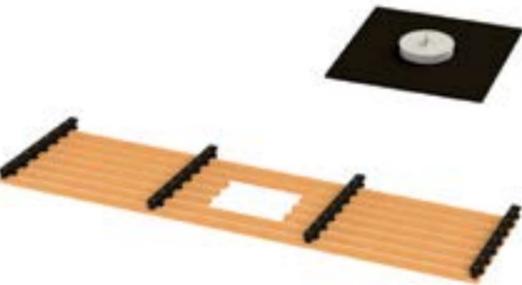
Step 1 : Mark the insertion position



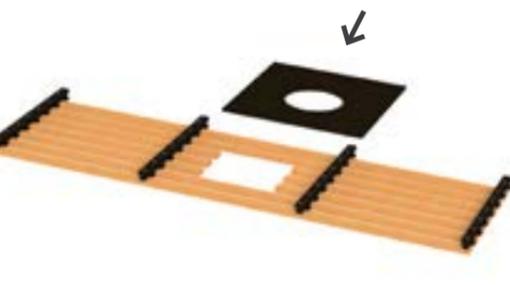
Step 2 : Cut the panel at the position marked



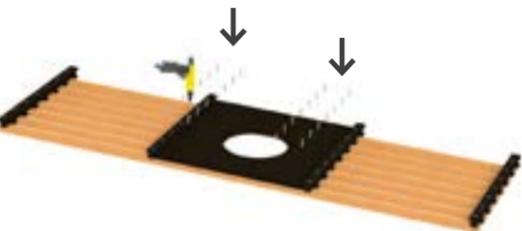
Step 3 : Cut the particle plate at the position marked



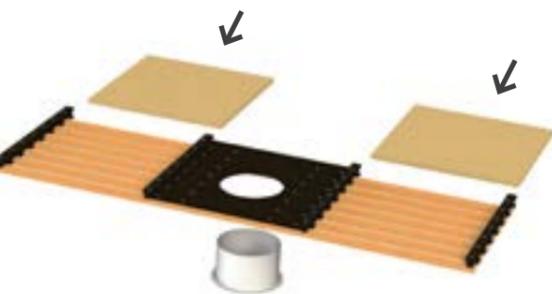
Step 4 : Insert the particle plate on the panel



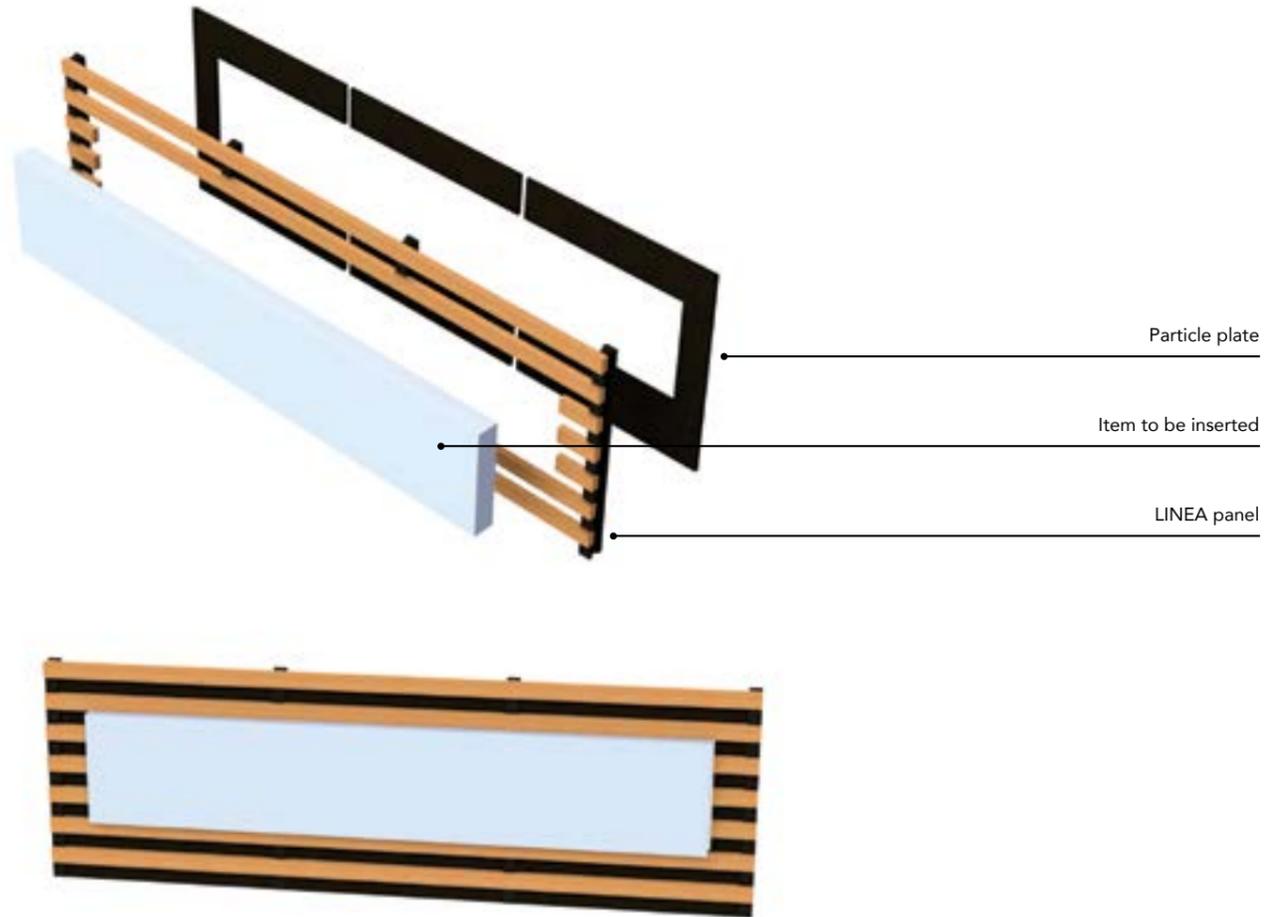
Step 5 : Fix the particle plate on the slats



Step 6 : Add the mineral wool tiles, the panel is ready to be fitted

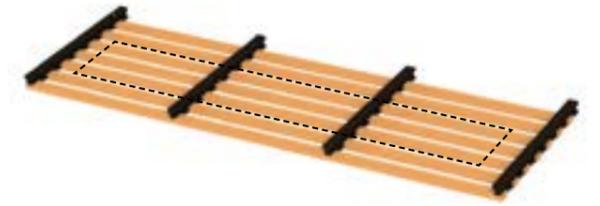


Inserting an item



Insertion by modifying counter-slats

Step 1 : Mark the insertion position



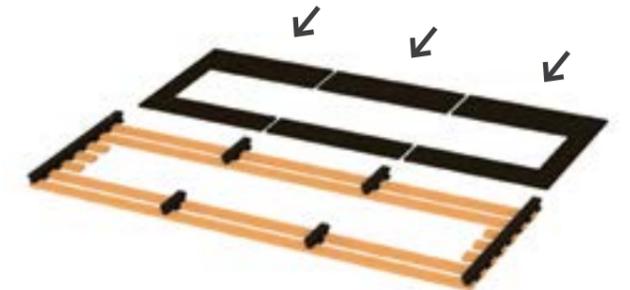
Step 2 : Cut the panel at the position marked



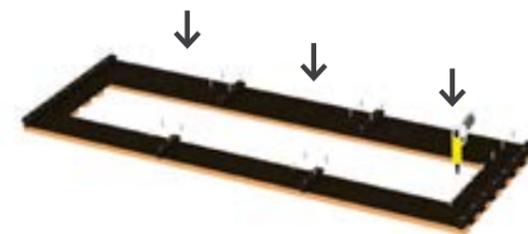
Step 3 : Cut the particles plates to fit



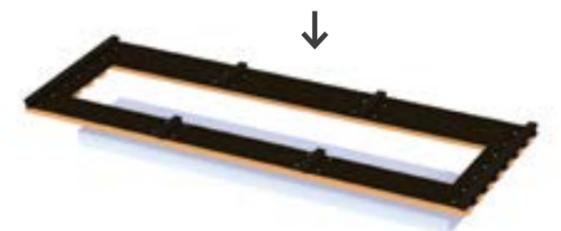
Step 4 : Insert the particles plates on the panel



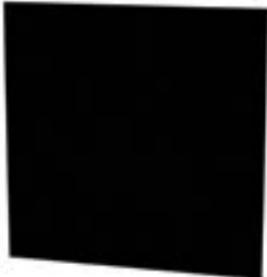
Step 5 : Fix the particles plates on the slats

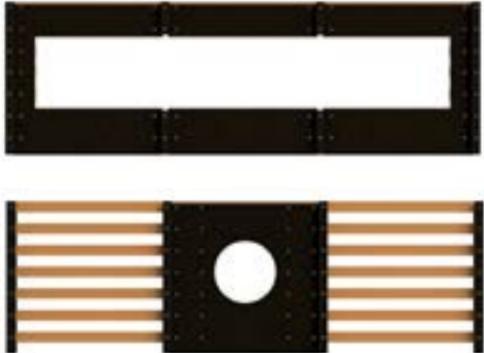


Step 6 : Panel ready to be fitted



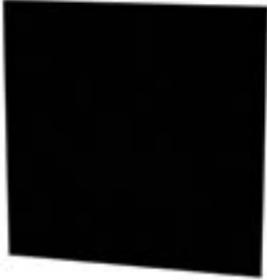
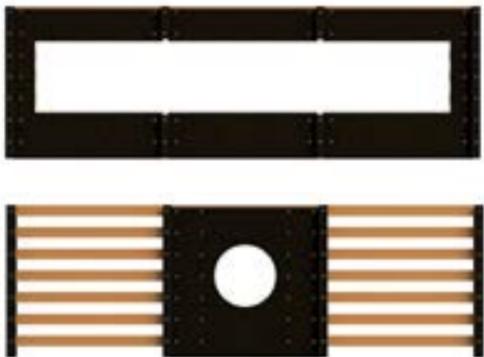
Options & accessories Ceiling

Additional counter-slat	The additional counter-slat allows greater flexibility when cutting panels, remaking and reusing panel offcuts	
Additional slat	The additional slat lets you complete the work using wall angle trims identical to the panels for a neat finish	
Angled cutting profile	The profile gives you greater flexibility when cutting panels, for a perfect fit to the outline of the structure	
Edging strip	The edging strip recreates the edge system on ceiling panels. Material : 316L stainless steel	
Particle black plate	The particle black plate allows you to insert different items and make random cuts, or can be used to close off the plenum while still transmitting sound (reverberation)	

Particle plate machining option	Contact us	
Panel machining option with insertion of particle plates	Contact us	
Finishing option	Finishing can for slats of counter-slats	Varnish, Wax Color In a 1 litre can

Options & accessories Wall

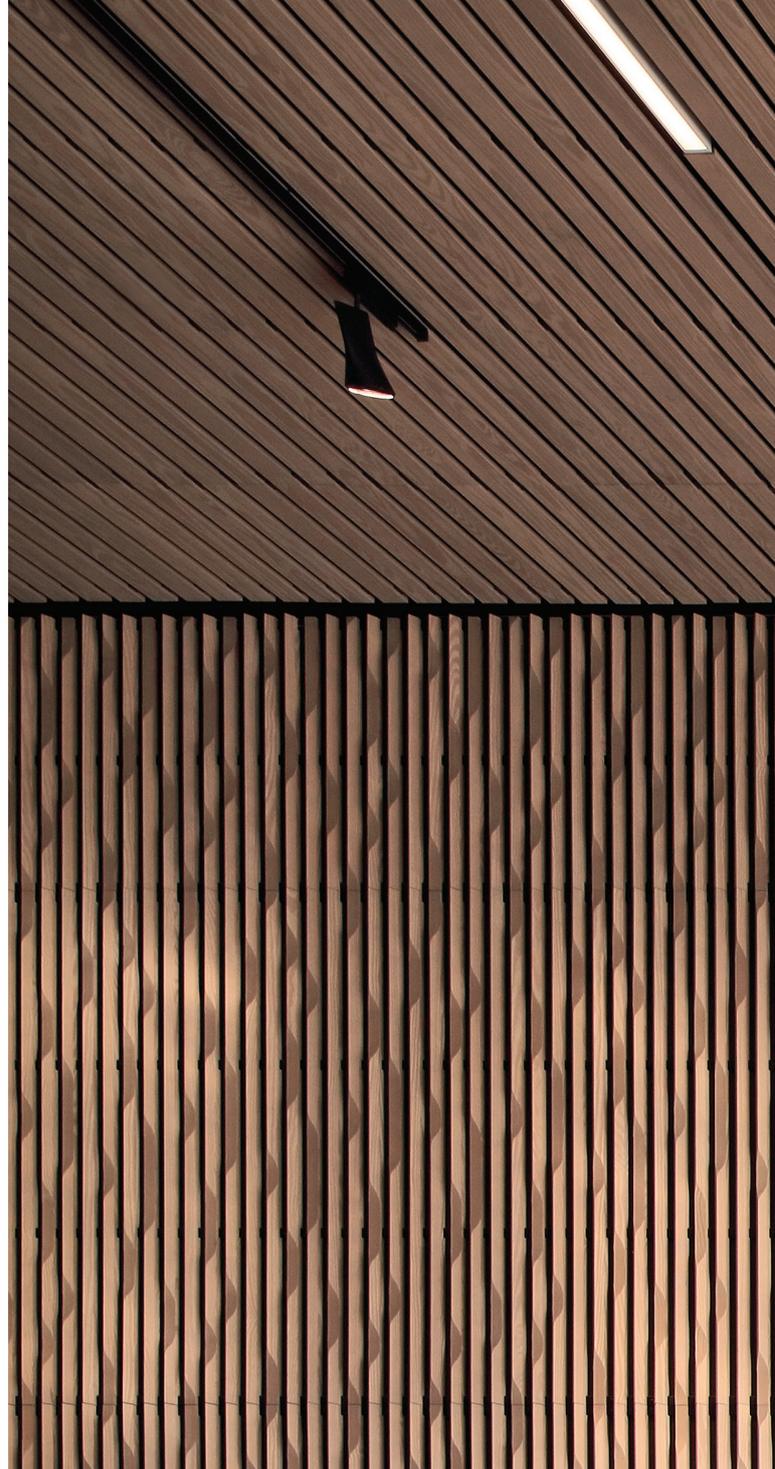
Additional counter-slat	The additional counter-slat allows greater flexibility when cutting panels, remaking and reusing panel offcuts	
Additional slat	The additional slat lets you complete the work using wall angle trims identical to the panels for a neat finish	
Angled cutting profile	The profile gives you greater flexibility when cutting panels, for a perfect fit to the outline of the structure	
Internal / external corner profile	This profile is used to finish wall corners	
Extension finishing profile	This accessory is used to finish returns (openings, etc.)	
	20 x 68 mm	
	20 x 40 mm 20 x 66 mm	

Particle black plate	The particle black plate allows you to insert different items and make random cuts, or can be used to close off the plenum while still transmitting sound (reverberation)	
Particle plate machining option	Contact us	
Panel machining option with insertion of particle plates	Contact us	
Finishing option	Finishing can for slats or counter-slats	Varnish, Wax Color In a 1 litre can

Options & accessories

LINEA SWELL

Additional slat	<p>The additional slat lets you complete the work using wall angle trims identical to the panels for a neat finish (1 slat, 3 mounting brackets + 12 screws 3.5 x 20 mm)</p>	
Hanging kit*	<p>Hanging kit (2 x 1m threaded rods, 2 locknuts and 2 Combifix)</p>	
Joining kit*	<p>Kit of 10 joining assemblies (20 Combifix, 10 threaded rods Ø 6 x 30 mm)</p>	
Assembly strips*	<p>Kit of 10 assembly strips + 40 screws 3.5 x 20 mm</p>	
Particle blacke plate	<p>The particle blacke plate allows you to insert different items and make random cuts, or can be used to close off the plenum while still transmitting sound (reverberation)</p>	
Finishing option	<p>Finishing can for slats or counter-slats</p>	<p>Varnish, Wax Color In a 1 litre can</p>



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wood in genes