LINEA

SUSPENDED CEILING AND WALL CLADDING

INTERIOR

LAUDESCHER

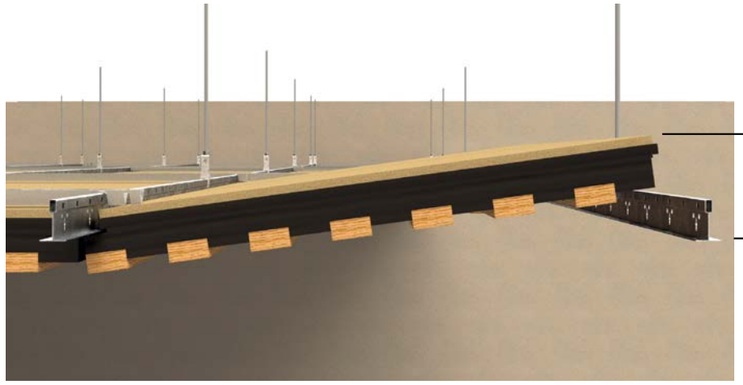
5

Installation

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

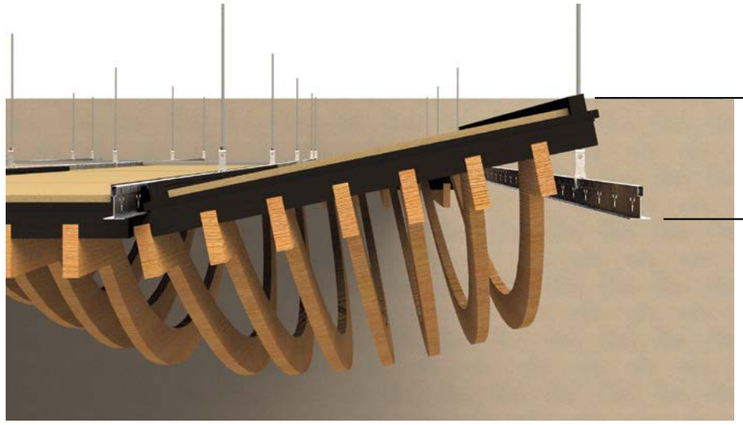
Installation suspended ceiling

Requirements for installation



Minimum plenum to mount and dismount panels

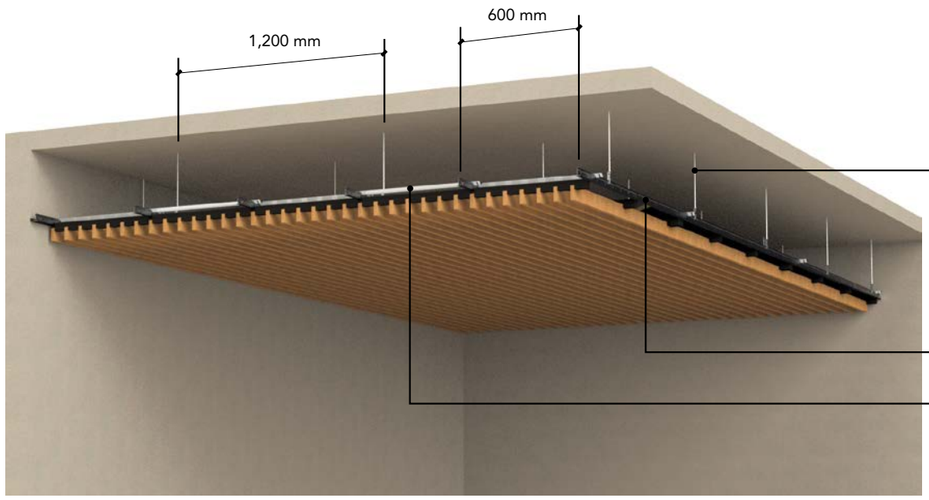
Minimum plenum
100 mm



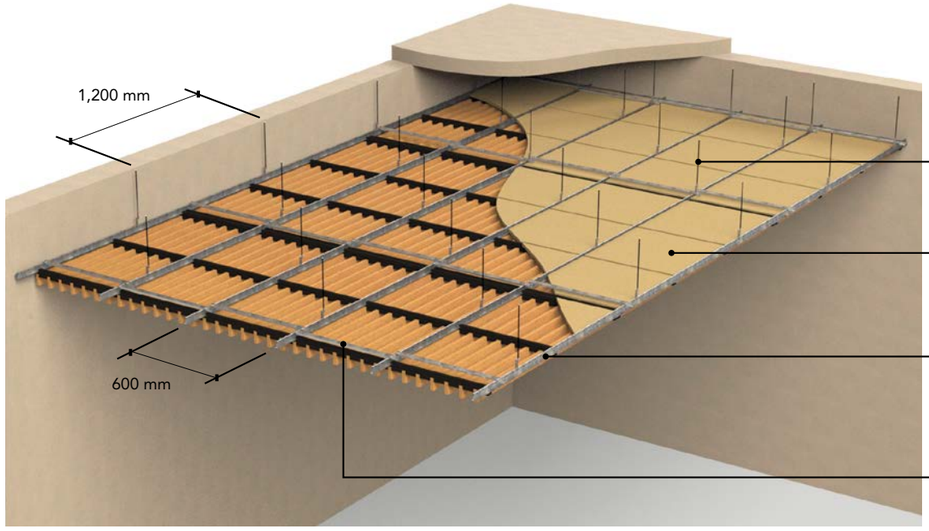
Special case of LINEA SHAPE

Minimum plenum
150 mm

General views



Bottom view



Top view

Installation suspended 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.

For installation by mechanical fixing by screwing on framework, please contact us.

* The entire framework and suspension system must be designed for use and application in moist and/or corrosive environments.

DESCRIPTION

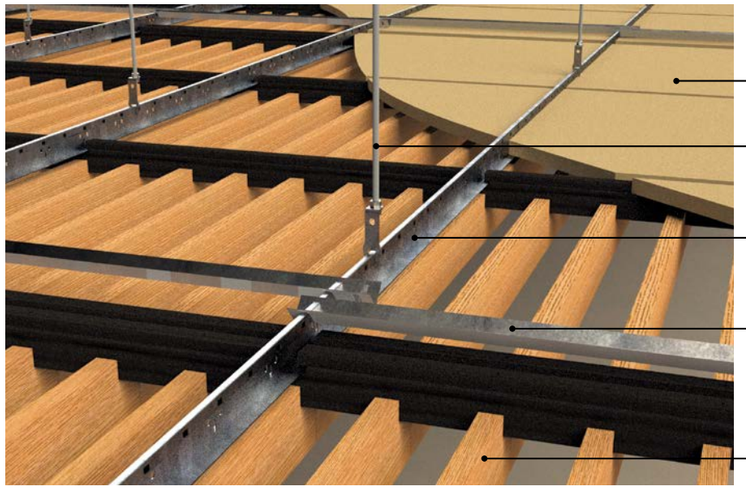
T24 main runners	Centre distance 600 mm
Hangers	Quick-adjusting threaded rods or hangers
Distance between hangers	Maximum 1,200 mm Maximum 150 mm from the edge
Spacing	Minimum 1 spacer bar per panel Spacer bars 200 mm from edge
Finish	Perimeter trim with wall angle trim profile with black capping (peripheral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

FRAME COVERAGE

	Frame 1880 x 600 mm
Rail	1.67 lm/m²
Spacer bar	0.54 lm/m²
Profile	Based on length of edge
Hanger	1.40 p/m²

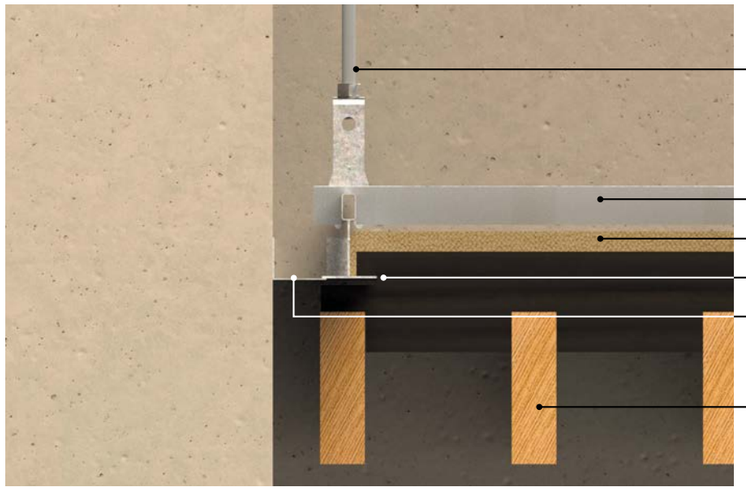
Maximum load: 22 kg/m² evenly distributed

General views



Fitting principle

Acoustic mineral wool tile
Hanger
T24 main runner
Spacer bar
LINEA panel



Detail of transverse edge

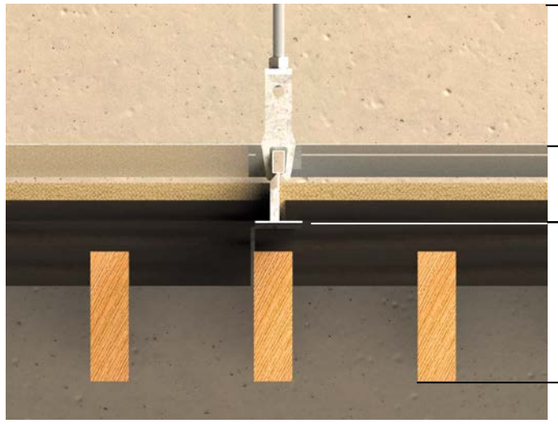
Hanger
Spacer bar
Acoustic mineral wool tile
T24 main runner
Wall angle trim
LINEA panel

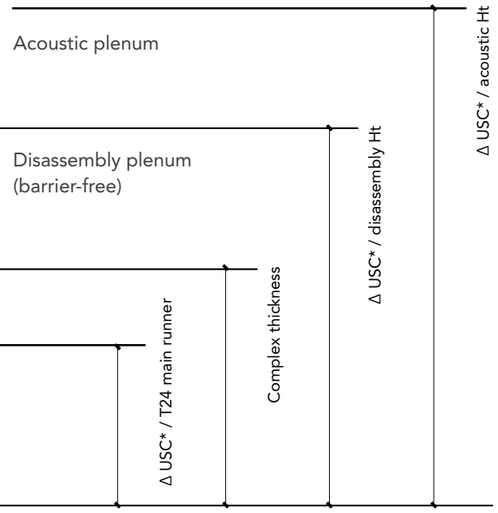
Detail of longitudinal edge

Hanger
Spacer bar
T24 main runner
Wall angle trim
LINEA panel

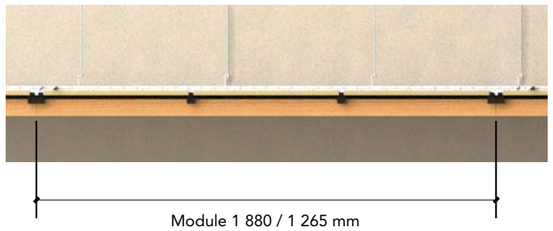
Installation suspended ceiling

Details

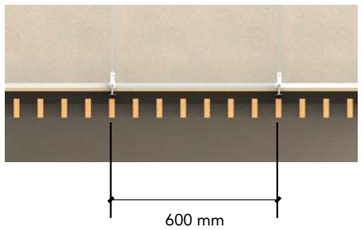




Longitudinal view



Transverse view



System dimensions

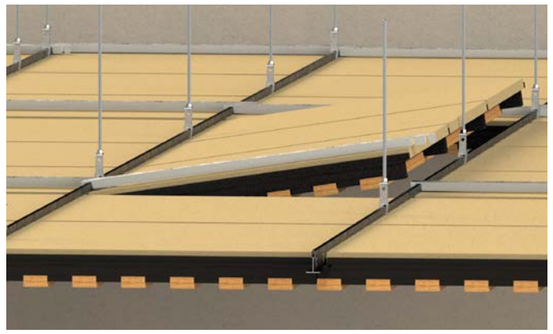
CEILING

Model	Δ USC* / T24	Complex thickness	Δ USC* / disassembly Ht	Δ USC* / Acoustic Ht
4.2	43 mm	84 mm	144 mm	314 mm
9.2	43 mm	84 mm	144 mm	314 mm
2.4	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
3D SCALE	55 mm	96 mm	156 mm	326 mm
3D PIX	55 mm	96 mm	156 mm	326 mm
3D EDGE	63 mm	104 mm	164 mm	334 mm
3D BAMBOO	55 mm	96 mm	156 mm	326 mm
3D BAMBOO WAVE	79 mm	120 mm	180 mm	350 mm

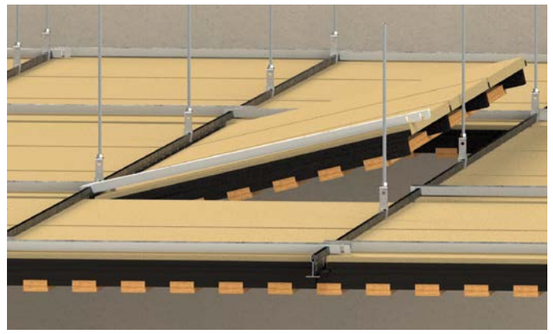
Δ *USC: Under Suspended Ceiling

Dismounting

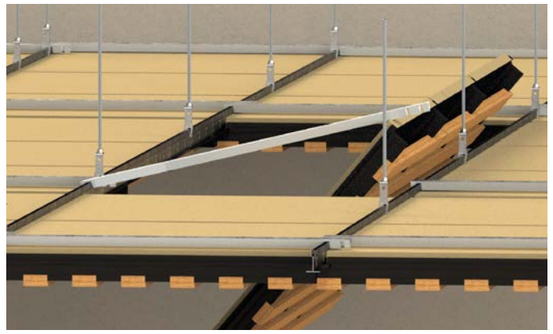
Step 1: Lift the panel



Step 2: Slide the panel

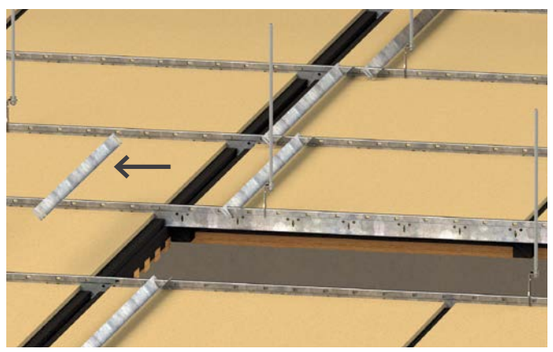


Step 3: Remove the panel



Step 4: The spacer bar is unclipped

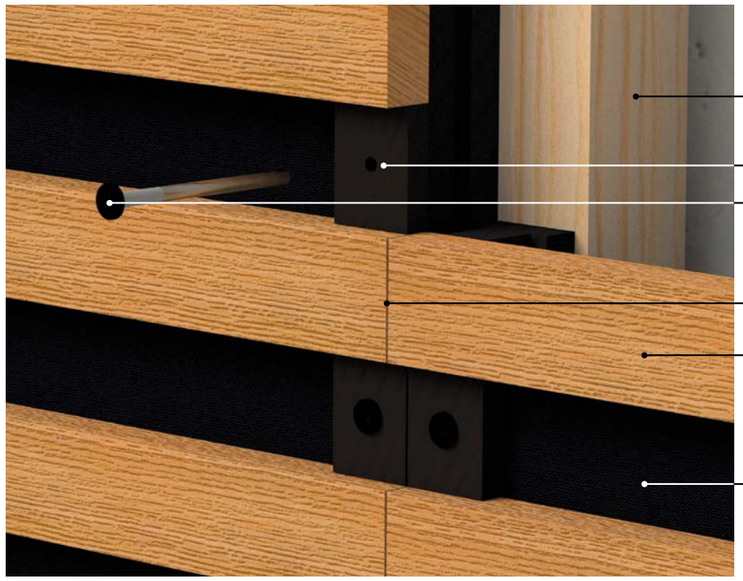
Step 5: Shift the spacer bar to the next panel



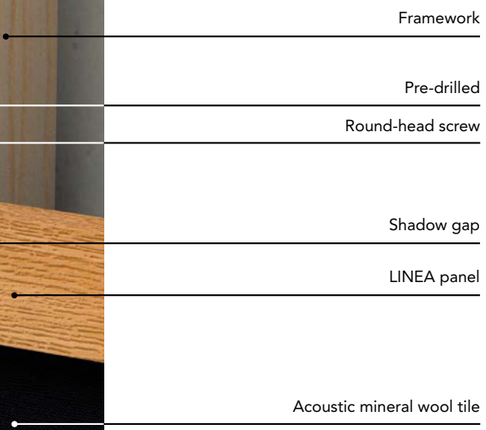
Step 6: Check system lock

Installation wall

General views



Fitting principle

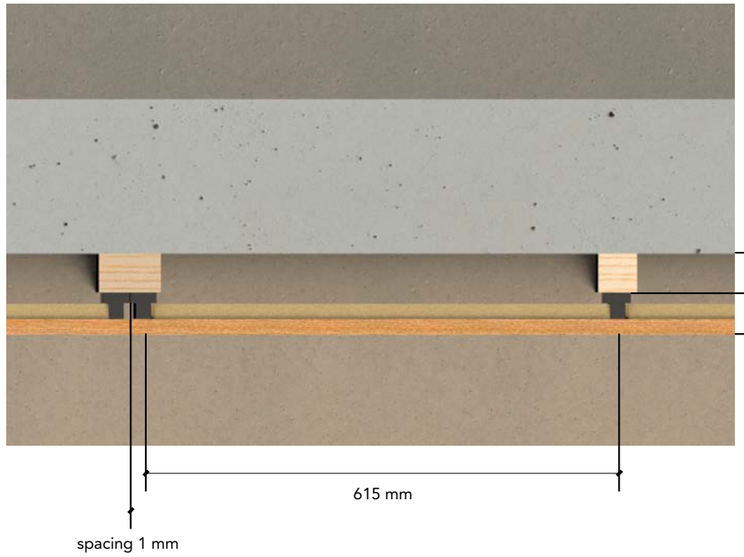


Frame

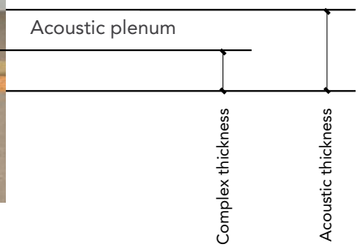
Fitted by screwing onto framework through the black counter-slats (2 black-lacquered round-head screws per batten) as per DTU 36.2 and EN 14915.

* The entire framework and suspension system must be designed for use and application in damp and/or corrosive environments.

System dimensions



Details



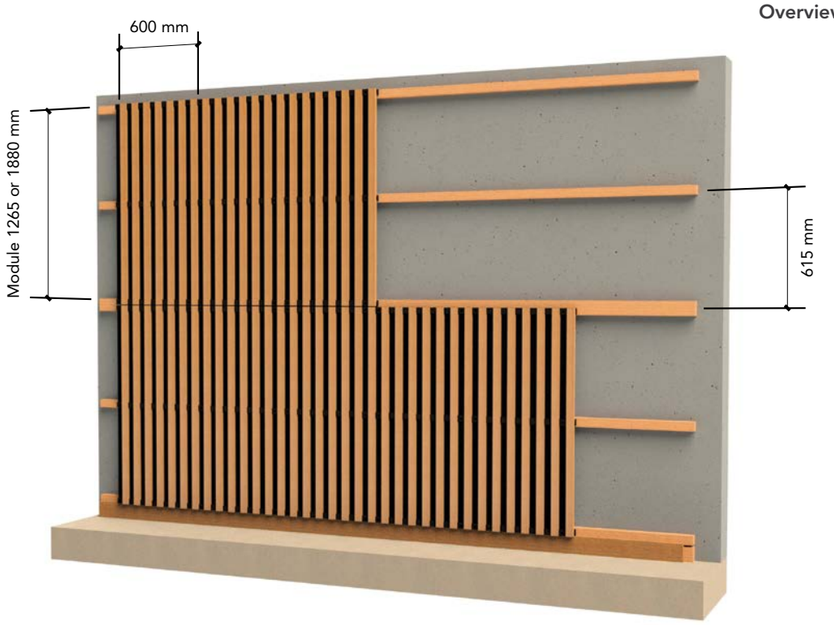
WALL

Model	Complex thickness	Acoustic thickness
4.2	55 mm	91 mm
9.2	55 mm	91 mm
2.4	69 mm	113 mm
2.6	95 mm	139 mm
2.9	117 mm	161 mm
3D SCALE	67 mm	111 mm
3D PIX	67 mm	111 mm
3D EDGE	75 mm	111 mm
3D BAMBOO	75 mm	111 mm
3D BAMBOO WAVE	91 mm	127 mm

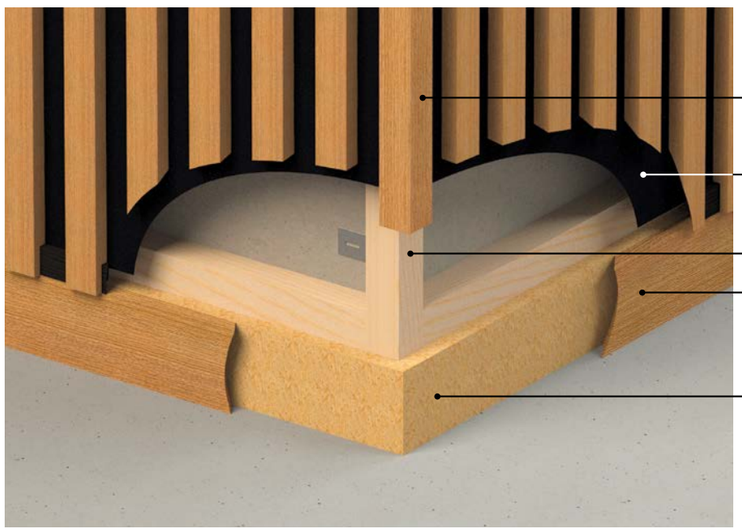
Installation wall

Vertical fitting

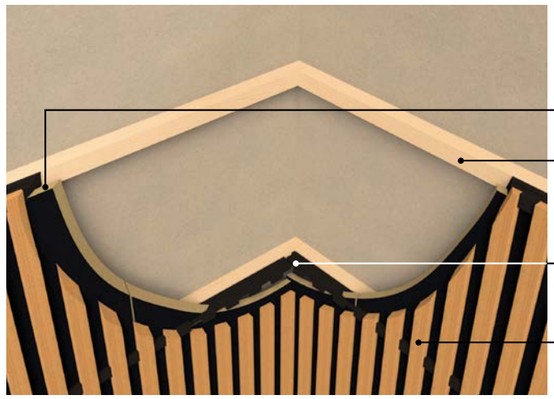
Overview

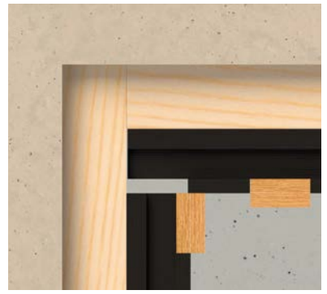


Baseboard detail (suggestion)

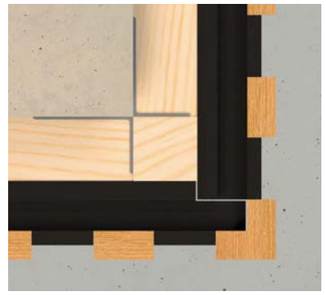


Internal corner (suggestion)





External corner (suggestion)

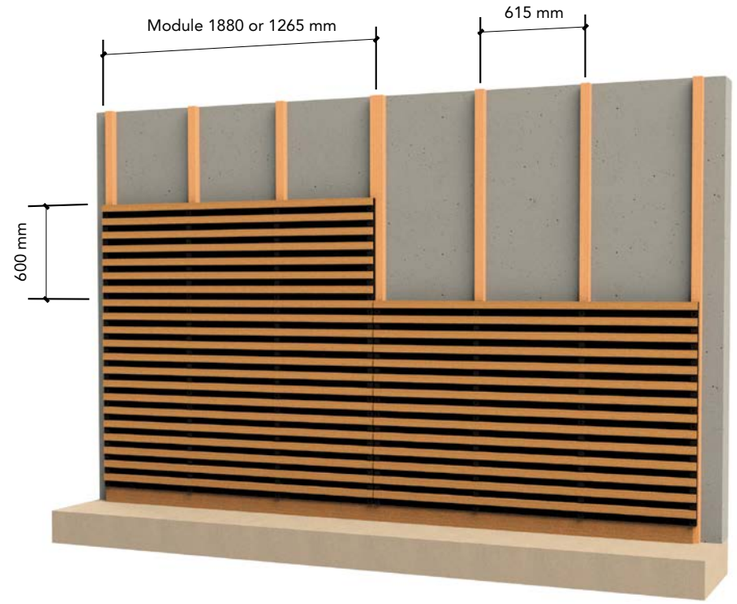


Opening surroung (suggestion)

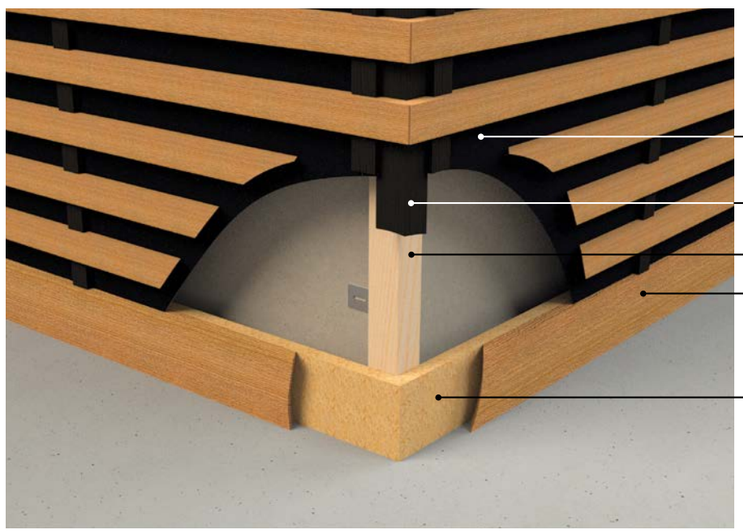
Installation wall

Horizontal fitting

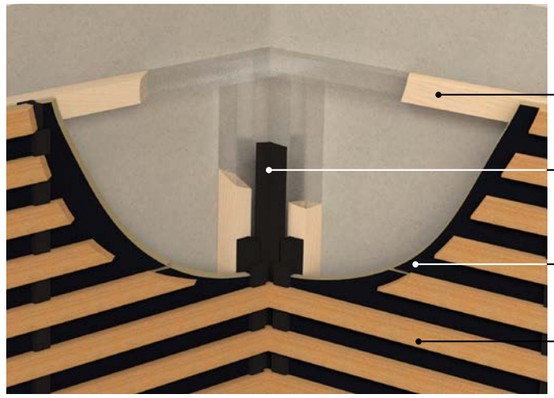
Overview

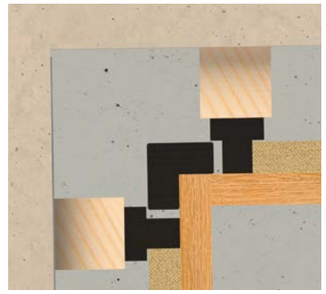


Baseboard detail (suggestion)

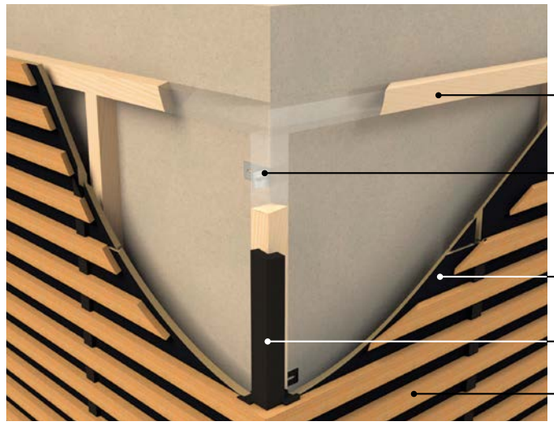


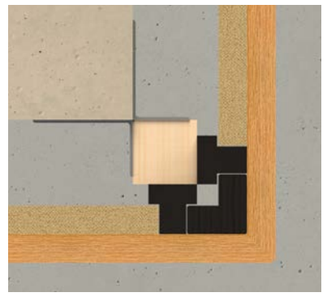
Internal corner (suggestion)





External corner (suggestion)



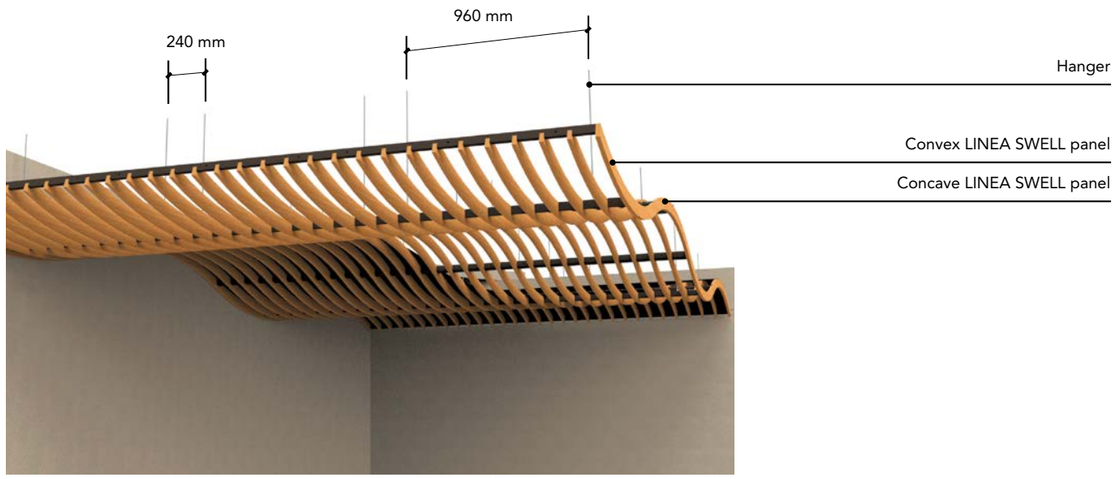


Opening surround (suggestion)

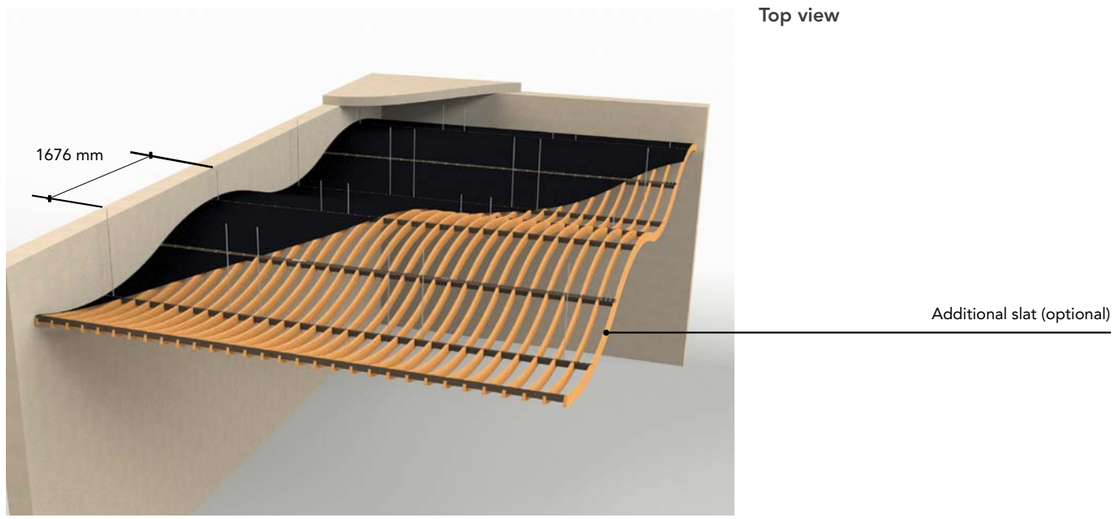
Installation
LINEA SWELL

General views

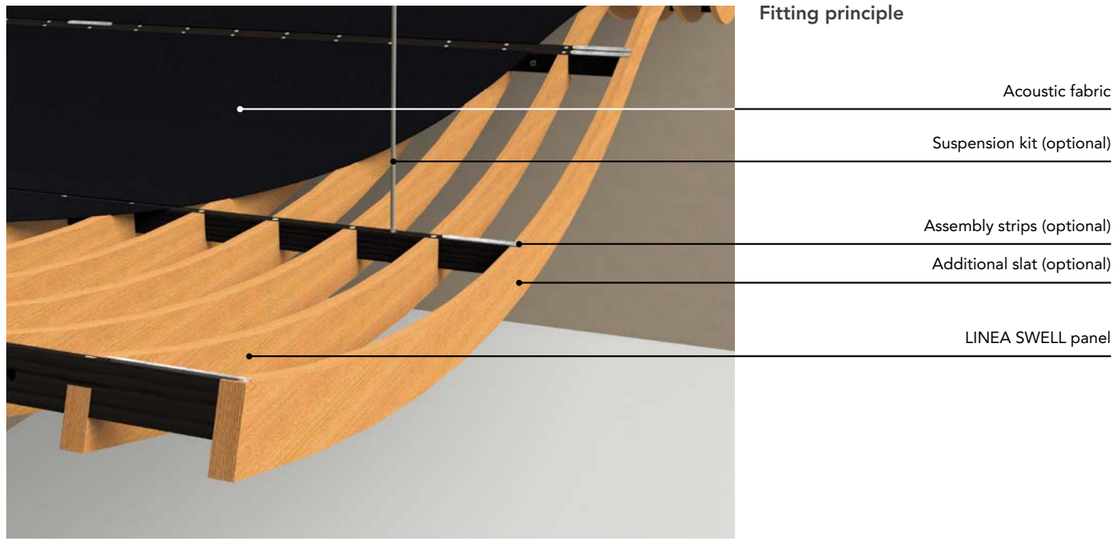
Bottom view



Top view



Fitting principle



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

Frame

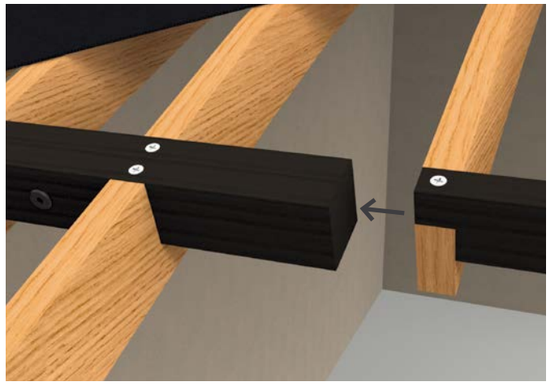
Installed by suspension to threaded rods* according to current standards and best practice rules in each country (French standards NF P 68203-1 and DTU 58-1, 2008 edition France).

* The entire frame and suspension system must be designed for use and application in damp and/or corrosive environments.

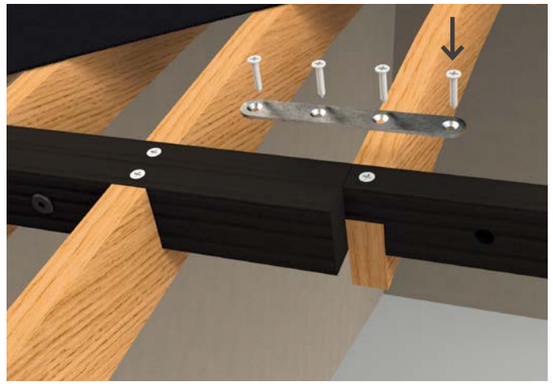
Installation
LINEA SWELL

Installation details

Step 1: Position the panel to be fixed



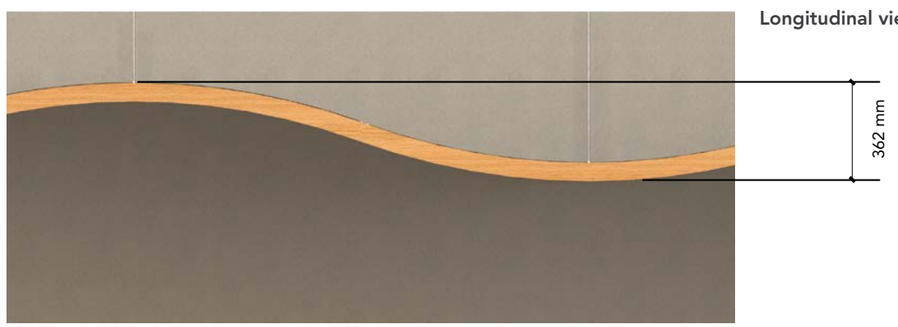
Step 2: Assemble the panels using the assembly strips and 4 screws



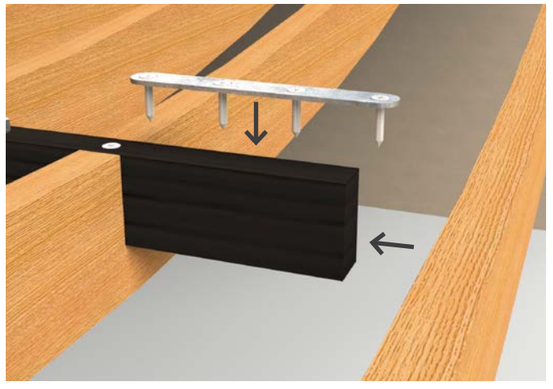
Step 3: Fix the last panel using the joining kit

Step 4: Check system lock

Longitudinal view



Step 1: Position the additional slat to be fixed



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

Detail of edges

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 the outer counter-slats;
– if the cut is visible, use finishing Wax Color and/or varnish (option).

Step 1: Mark the position of the cut

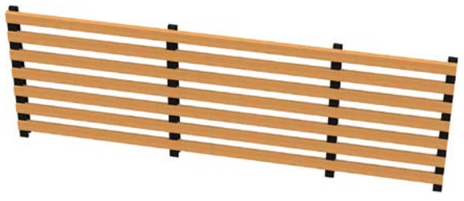
Step 2: Unscrew the counter-slat to be moved

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



Simple cut of a panel across its width (wall)

Step 1: Mark the position of the cut

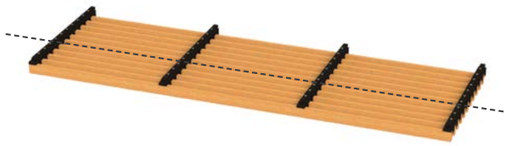
Step 2: Cut the panel following the line of the slats

Step 3: Panel ready to be fitted

Cutting panels

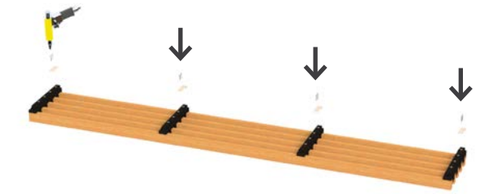
Simple cut of a panel across its width (ceiling)

Step 1: Mark the position and side of the cut

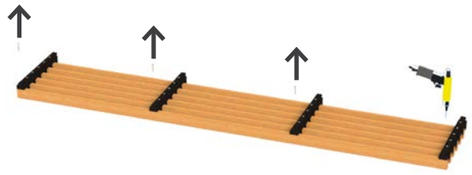


Step 2: Cut the panel

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

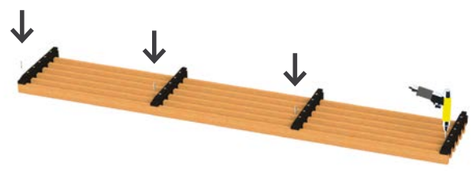


Step 4: Female cut finish – Unscrew the slat-retaining screws

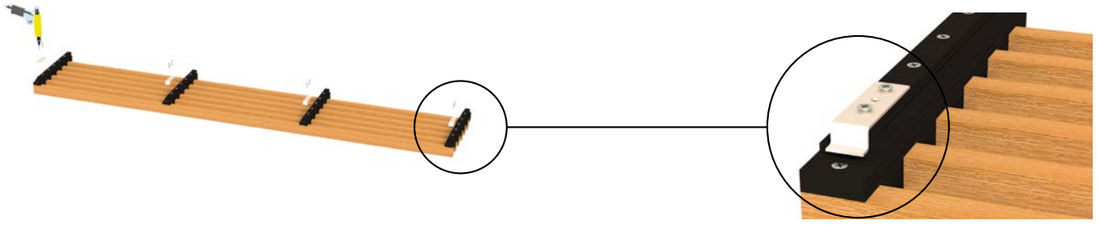


Step 5: Notch the end of the counter-slat

Step 6: Screw the slat-retaining screws back in

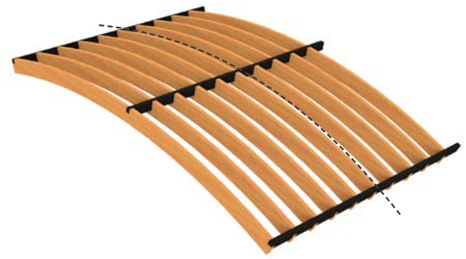


Step 7: Screw on the edging strip (option). Pre-drill Ø 2 mm



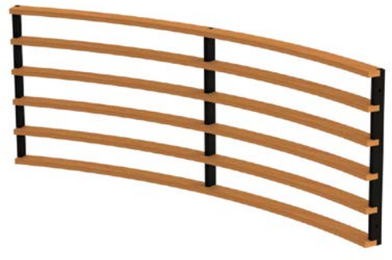
Simple cut of a LINEA SWELL panel across its width

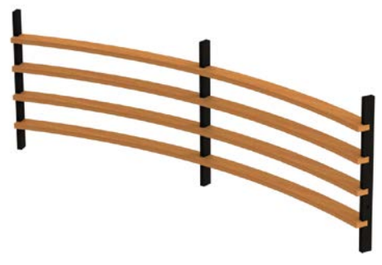
Step 1: Mark the position of the cut



Step 2: Cut the panel

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





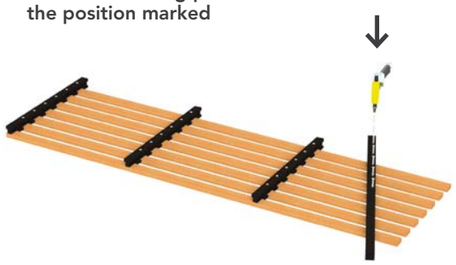
Cutting panels

Angled length cut

Step 1: Mark the position of the cut

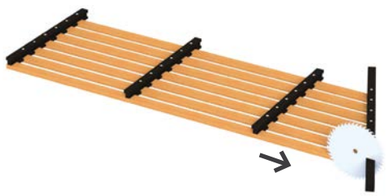
Step 2: Unscrew the counter-slat

Step 3: Screw the cutting profile in the position marked

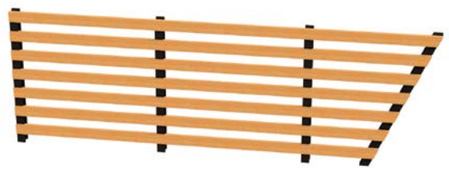


Step 4: Cut the panel along the cutting profile

Step 5: Cut the surplus of the cutting profile



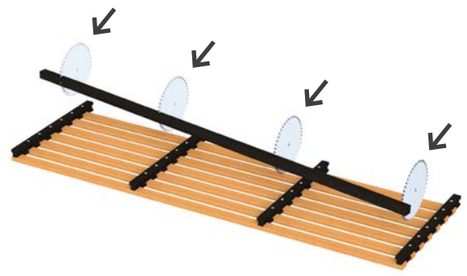
Step 6: Panel ready to be fitted



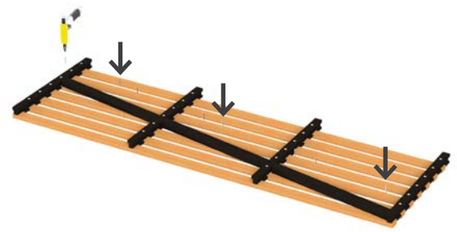
Angled width cut

Step 1: Mark the position of the cut

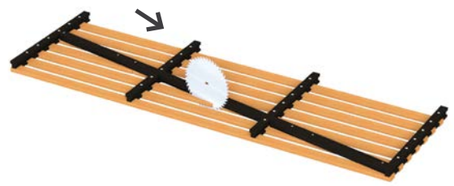
Step 2: Cut the cutting profile



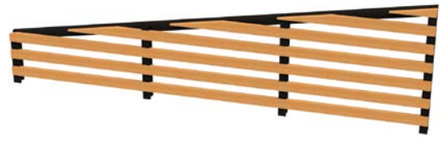
Step 3: Screw on the profile to hold the slats



Step 4: Cut the panel along the cutting profile



Step 5: Panel ready to be fitted



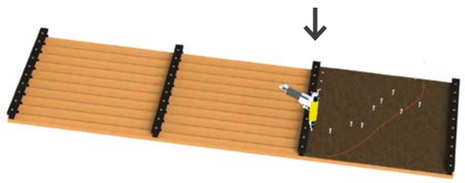
Cutting panels

Random length cut

Step 1: Mark the position of the cut

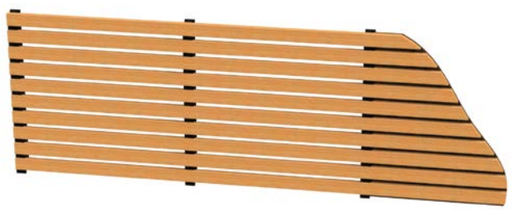
Step 2: Insert the particle plate (option)

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

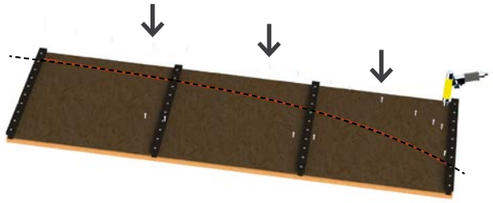


Random width cut

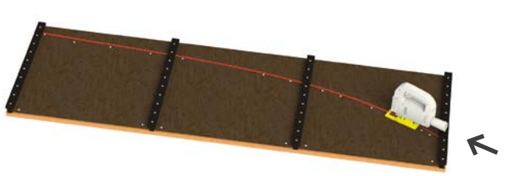
Step 1: Mark the position of the cut

Step 2: Insert the particle plate (option)

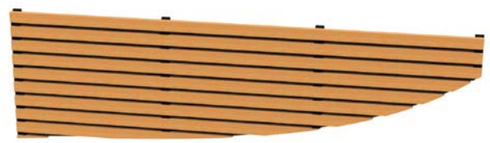
Step 3: Fix the particle plate on the slats and draw the outline



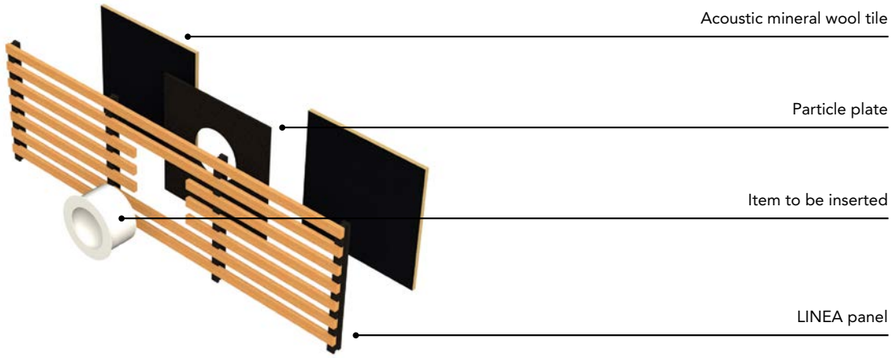
Step 4: Cut the panel following the outline

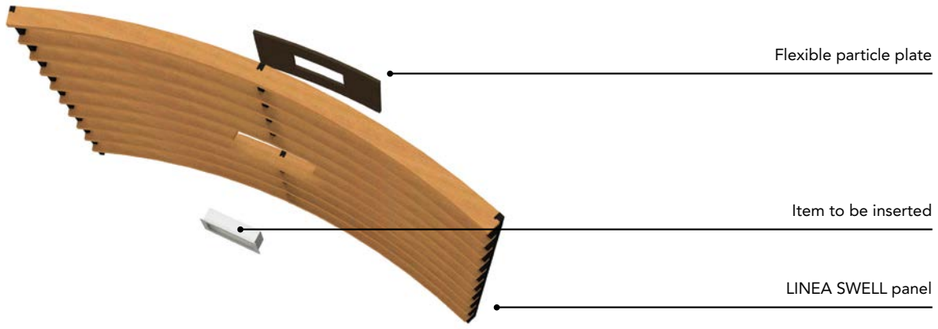


Step 5: Panel ready to be fitted



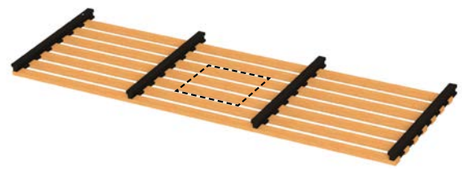
Inserting an item





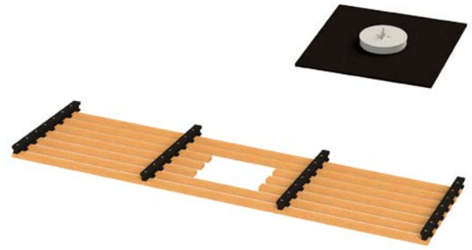
Insertion between two counter-slats

Step 1: Mark the insertion position

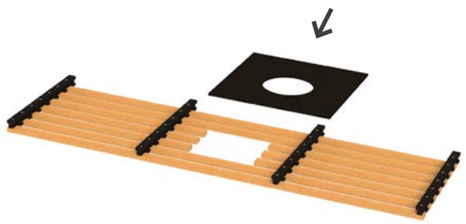


Step 2: Cut the panel at the position marked

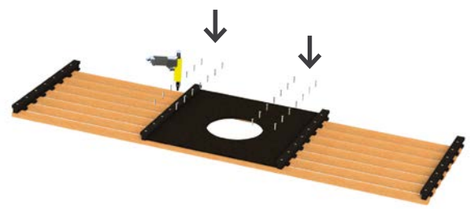
Step 3: Cut the particle plate at the position marked



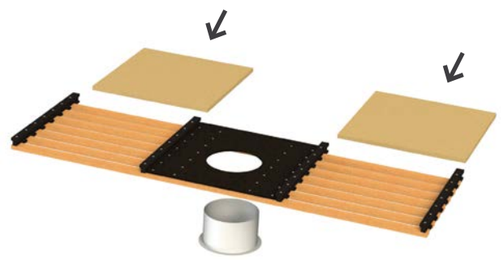
Step 4: Insert the particle plate on the panel



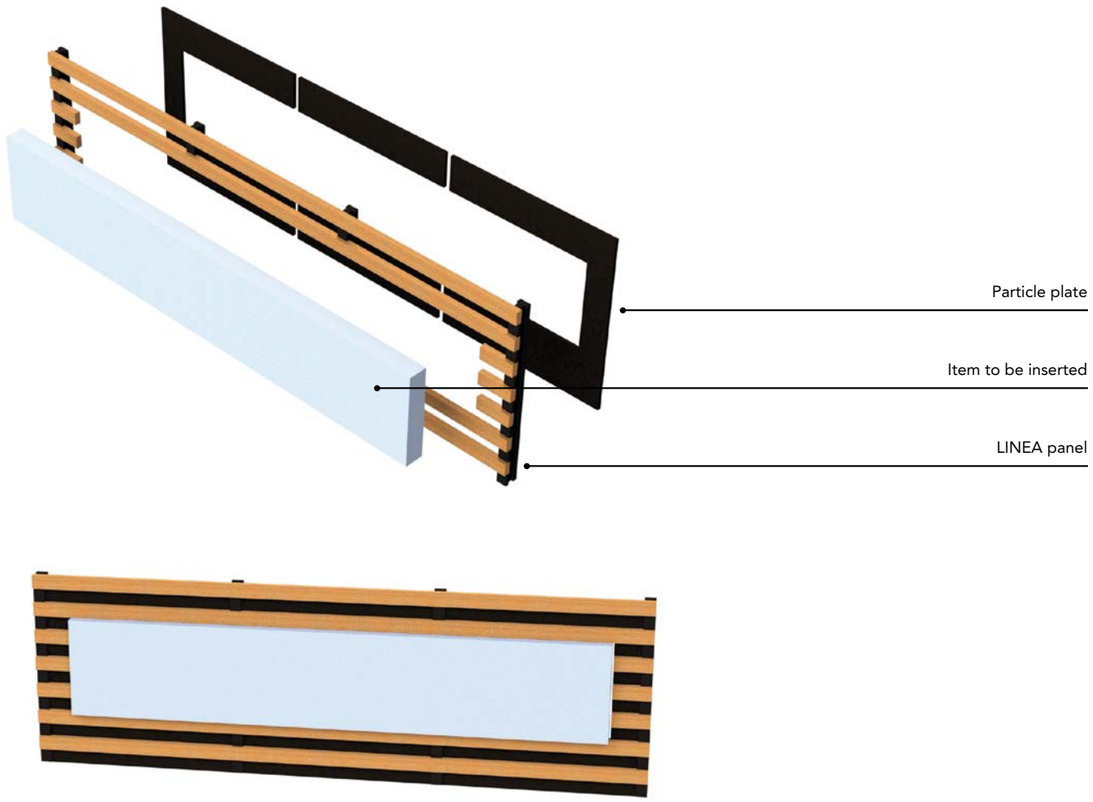
Step 5: Fix the particle plate on the slats



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

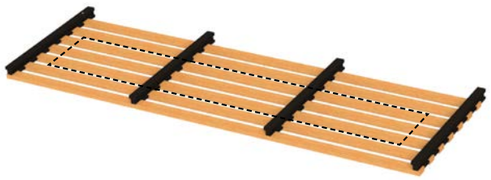


Inserting an item



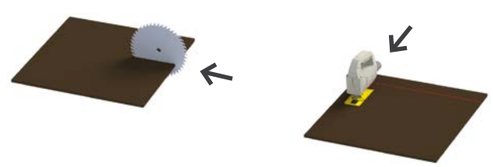
Insertion by modifying counter-slats

Step 1: Mark the insertion position

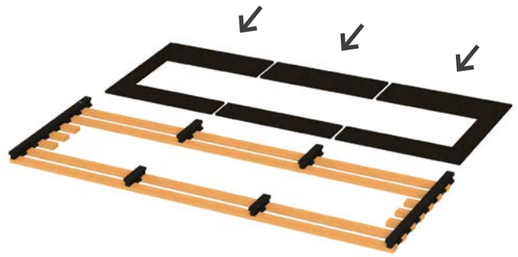


Step 2: Cut the panel at the position marked

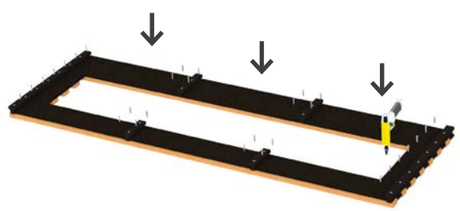
Step 3: Cut the particle plates to fit



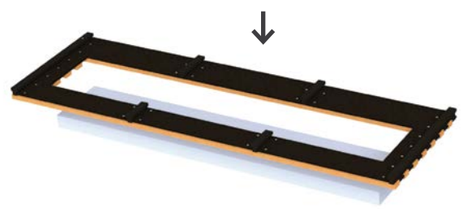
Step 4: Insert the particle plates on the panel



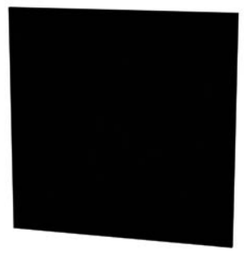
Step 5: Fix the particle plates on the slats



Step 6: Panel ready to be fitted



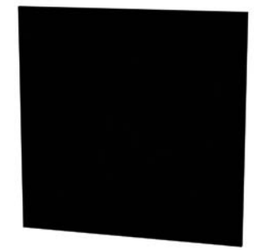
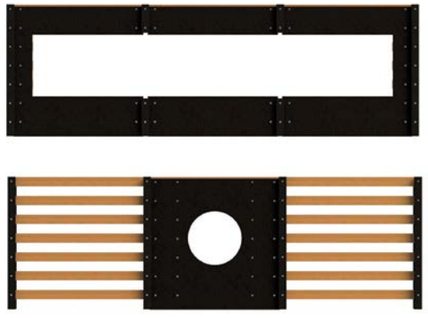
Options & Accessories ceiling

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 or 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	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)	
Hanging kit*	Hanging kit (2 x 1 m threaded rods, 2 locknuts and 2 Combifix)	
Joining kit*	Kit of 10 joining assemblies (20 Combifix, 10 threaded rods Ø 6 x 30 mm)	
Assembly strips*	Kit of 10 assembly strips + 40 screws 3.5 x 20 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)	
Finishing option	Finishing can for slats or counter-slats	Varnish, Wax Color In a 1 litre can

*Moist and/or corrosive environment: contact us

Visual comparison
LINEA range

LINEA 4.2.1

LINEA 4.2.4

LINEA 9.2.1

LINEA 2.6.5

LINEA 2.6.6

LINEA 2.6.8

LINEA 9.2.3

LINEA 9.2.6

LINEA 2.4.3

LINEA 2.4.5

LINEA 2.6.10

LINEA 2.9.8

LINEA 2.9.10

LINEA 2.9.13

Visual comparison
LINEA 3D range

LINEA 3D EDGE

LINEA 3D PIX

LINEA 3D SCALE

LINEA 3D BAMBOO

LINEA 3D BAMBOO WAVE

LINEA SHAPE and
LINEA SWELL models

LINEA SHAPE – module 1

LINEA SHAPE – module 2

LINEA SHAPE – module 3

LINEA SWELL – convex (or concave) module

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