

4.2.1

Wall cladding

Lauder
INEA

LAUDESCHER

General performance

Wall cladding conformity

The products in the Lauder LINEA Wall range are compliant with standard EN 14915 Solid wood panelling and cladding, mandatory since 2008.

This standards define the specifications of the products that can or are required to appear on labelling and documentation.

Industrialised manufacturing process

Rebated using halved joint assembly guaranteeing perfect hold of the panel.

Solid wood

All of our solid wood is rigorously selected to guarantee the quality of our finished products (dry wood 10 to 12%, 1st choice).

It is PEFC/FSC certified.

Our production unit is also PEFC/FSC certified, guaranteeing use of wood harvested from sustainably managed forests in our Laudescher product ranges. (Plant certification no. BV/CdC/6004780 for PEFC and no. BV-COC-004780 for FSC).

The wood used to manufacture Lauder LINEA Pine, Douglas Fir, Oak products is durability class 3 as defined in standard EN 335-2.

Environment - Health

Laudescher Bois panels produce little waste and are recyclable. They allow excellent air circulation for improved ventilation and a healthier environment.

Lauder LINEA panels have been issued with an Environmental and Health Declaration Datasheet validated by the AIMCC and compliant with standard NF P01-010. An EPD (Environmental Product Declaration) is in the process of being created as defined in standard EN 15804.

Maintenance

Keep free of dust. Lauder LINEA panels must not be cleaned with detergents or water-based products under any circumstances.

Storage

Products in the Lauder LINEA range must be stored flat, in premises with constant indoor humidity sheltered from water and blown air heating.

Products in the Lauder LINEA range must be stabilised in the destination premises for at least 48 hrs prior to installation.

Performance and conformity

Panel reaction to fire

- B-s2,d0 as defined in standard EN 13501-1 report no. 12/RC-13
- D-s1,d0 untreated wood as defined in standard EN 13501-1

PEFC

PEFC certification no. BV
/CdC/6004780

Formaldehyde release

E1 as defined in standard EN 717-2

Indoor air quality

VOC
A+ and A as defined in ISO 16000-3,
6, 9 and 11 French, German, Belgian
regulations;
Blue Angel, LEED, Breeam, etc. labels
(*Report on request*)

Humidity resistance

For high indoor humidity buildings,
use of class 3 wood. Risk classes
as defined in standard EN 335-2.
However, it is important
to differentiate between high
indoor humidity buildings and those
with corrosive environments.
A different finish will be required
depending on the application.
The Lauder LINEA range
can be installed outside, in areas
sheltered from water, using class
3 wood.

Wall cladding installation

The panel design of the wall cladding makes it easy to mount and adaptable to each application. The cladding is mechanically fixed directly onto a separate framework, in accordance with the manufacturer's recommendations and French building regulation installation guidelines and good practice rules in each country (DTU 36-2 France).



Acoustic performance

Sound absorption is measured
as defined in standard ISO 354.
Acoustic data is calculated
as defined in standard ISO 11654.
Acoustic performance class B
Performance obtained
with insertion of 120 Kg / m³ rigid
mineral or stone wool acoustic
tiles with black fleece facing
(600 x 600 mm format; 20 or 22 mm
thick)

Technical specifications of Lauder LINEA product reference 4.2.1

Product references		4.2.1
Slat section	Facing side	42 mm
	Thickness	20 mm
Spacing between slats		18 mm
Slat distance		60 mm
Total thickness		55 mm
Average void area		30%
Sound absorption data α_w^* / absorption class		0.85 / B
Reaction to fire		B-s1, d0 / B-s2,d0 / D-s1, d0
Installation system		Direct mechanical fixing

*Test report, panel
with insertion of mineral or stone
wool tiles with black fleece facing

Edging system:



Weight in Kg/m²	4.2.1
Pine	11.40
Douglas Fir	11.20
Oak	14.60

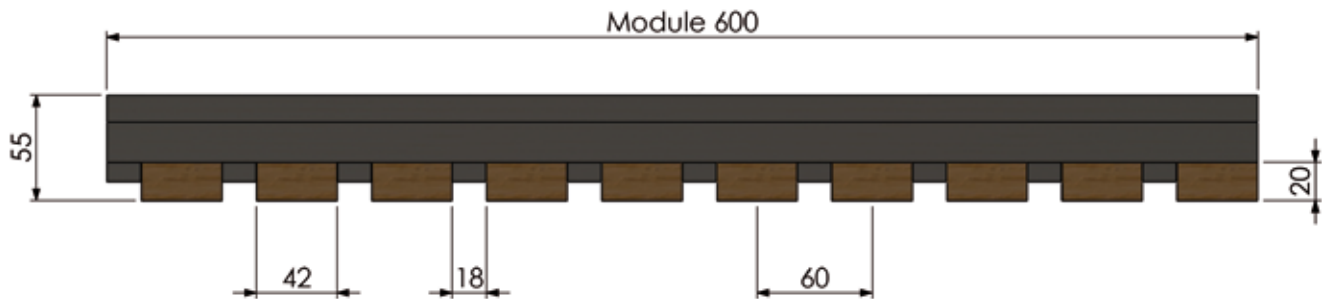
Lauder LINEA 4.2.1



Description

Form: linear	Finishing	Rear side: 120 Kg / m3 rigid mineral or stone wool acoustic tiles with black fleece facing (600 x 600 mm format; 20 or 20mm thick)
Panel depth: 55 mm	• Clear varnish (B-s2,d0)	<i>Not supplied by Laudescher</i>
Wood section: 42 x 20 mm	• Clear varnish (D-s1,d0)	
Black rear wooden counter-slats: 34 x 45 mm	• Wax Color (B-s2,d0)	
Spacing between slats: 18 mm	• Wax Color (D-s1,d0)	
Average void area: 30%	• Wax Color MC (B-s2,d0)	
	• Wax Color MC (D-s1,d0)	
	*choice of finish: cf. building classification table	

Modular dimensions: 1880 x 600 mm and 1265 x 600 mm

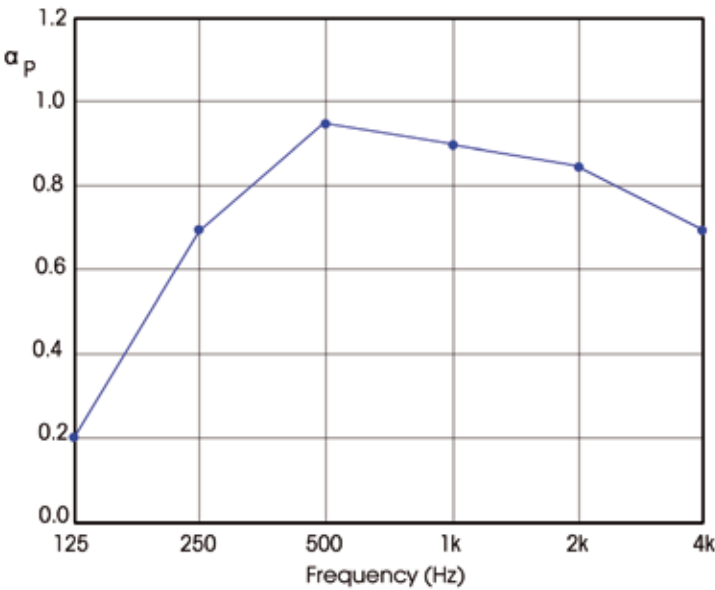


Acoustic results

Sound absorption
has been measured as defined
in standard ISO 354. Data related
to sound absorption
(α_p , α_w , absorption class)
has been calculated in compliance
with standard ISO 11654
(Lauder LINEA + addition of acoustic
materials).

Lauder LINEA wall 4.2.1
+ 20 mm MW or SW
on E50 mm plenum

F(Hz)	α_p
125	0.20
250	0.70
500	0.95
1000	0.90
2000	0.85
4000	0.70



Weighted index:

$$\alpha_w = 0.85$$

Absorption class:

Class B

According to ASTM C423:

$$\text{NRC} = 0.85$$

Wood species and colour chart

Solid wood

Wood is a natural material, and depending on the species, may have greater or lesser variations in tone, colour and grain pattern, or imperfections such as knots, checks and shakes, etc. These features are inherent to the material and never represent a defect in quality. Each panel is unique and may have surface irregularities which guarantee that real wood, a natural and living material, has been used.

Pine

Homogeneous, knot-free pale wood, clearly visible grain patterning, straight fine to medium grain



Pine

Douglas Fir

Excellent quality wood, moderately heterogeneous, brown-beige to brown-pink, straight medium grain



Douglas Fir

Oak

Hardwood, moderately heterogeneous, light brown to varying shades of dark brown, with a very specific straight medium grain



Oak

Wax Color finish on Pine

Care for and enhance the material through factory application of the Wax Color process. A wide range of wood tone colours for a durable, impressive, natural and environmentally-friendly finish.

Wax Color MC finish on Pine

The Wax Color process specially developed to meet the demands of applications in moist and corrosive environments.



Honey



Oak



White



Wenge



Cherry



Chocolate



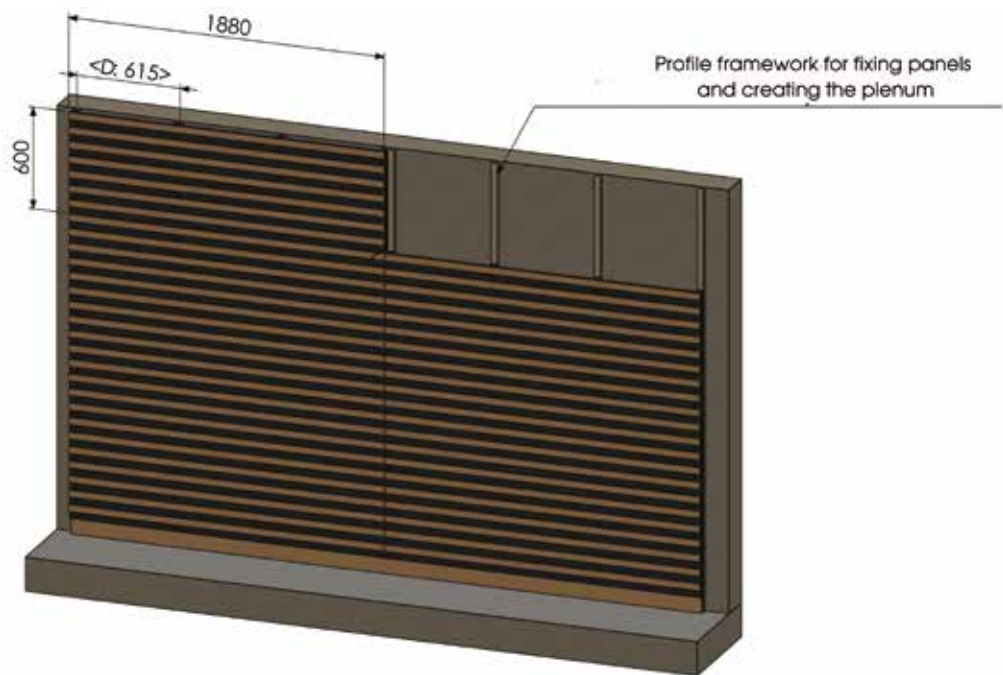
Mahogany



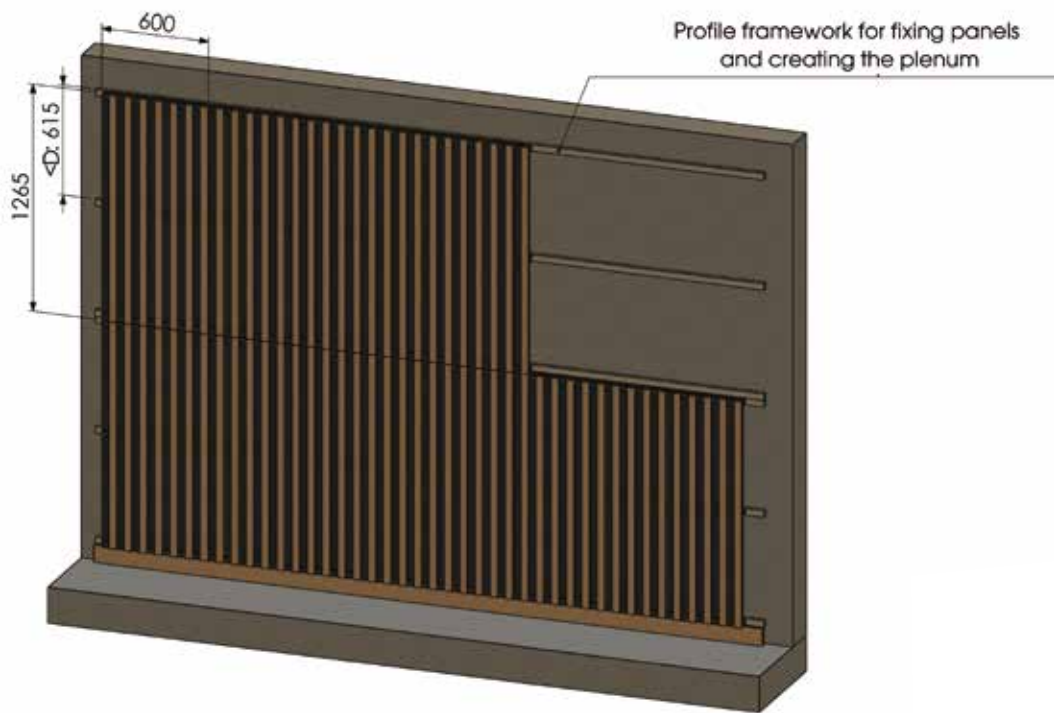
Grey

Installation general view

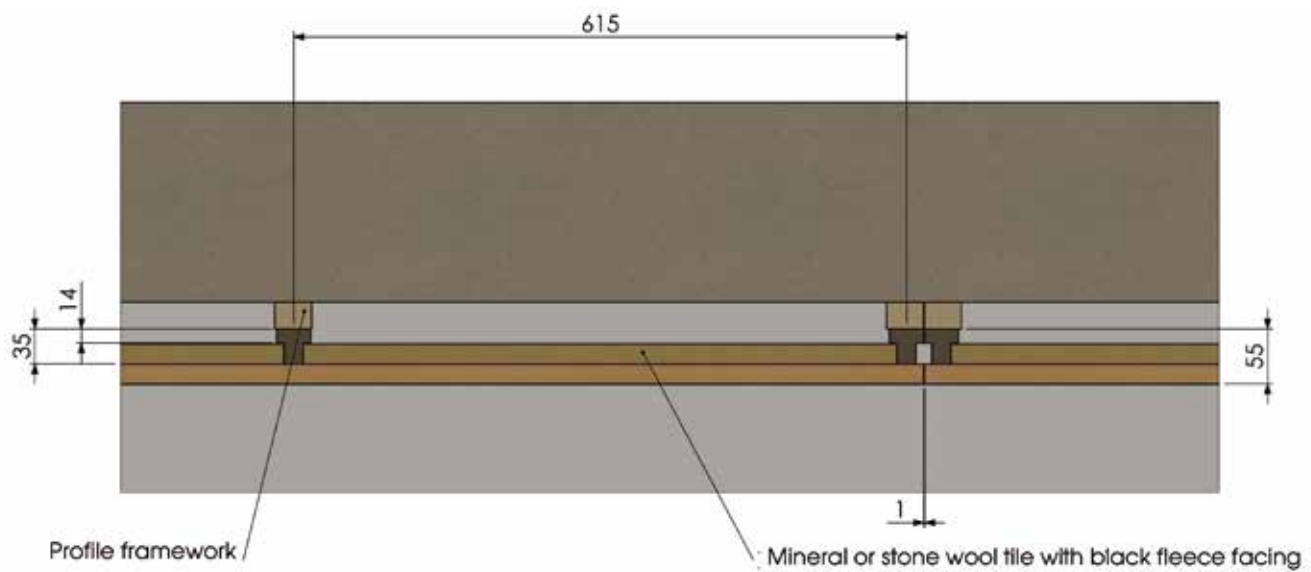
Installation general horizontal view



Installation general vertical view

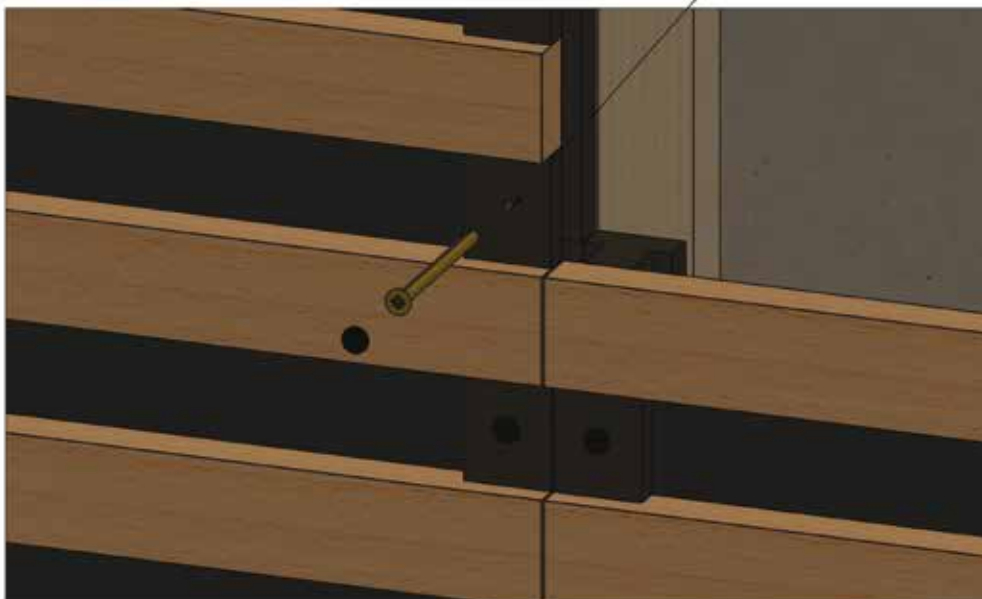


Sectional view

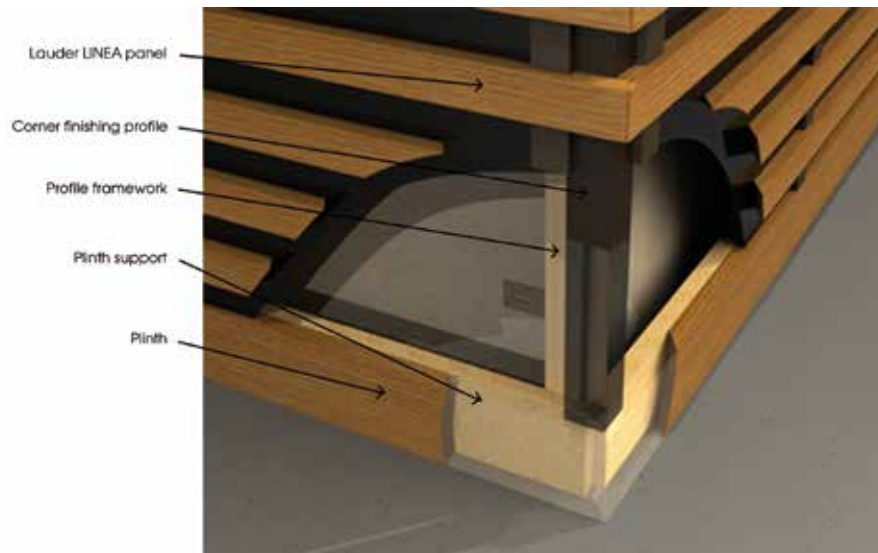


Mounting detail with screw + black screw cover

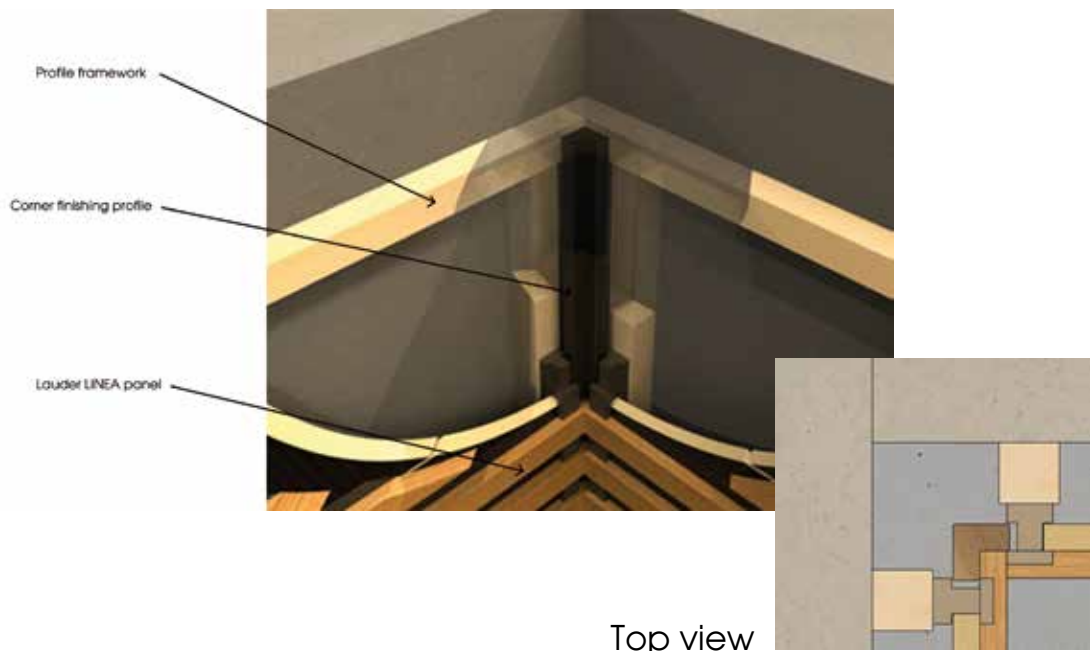
Screwed into the profile framework through the black wooden counter-slat



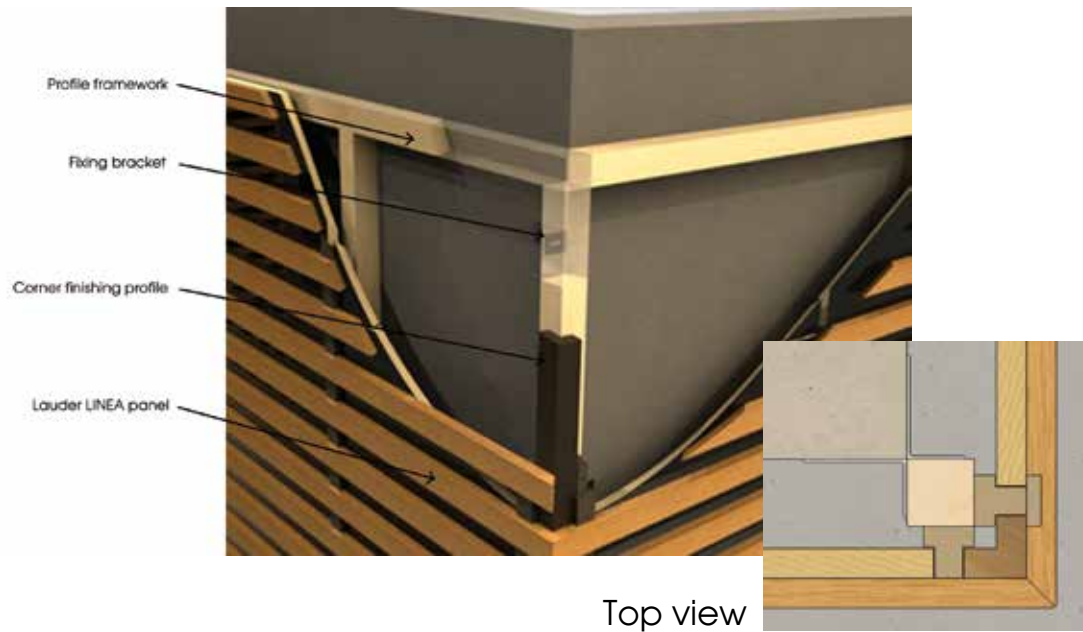
Detail of plinth (horizontal)



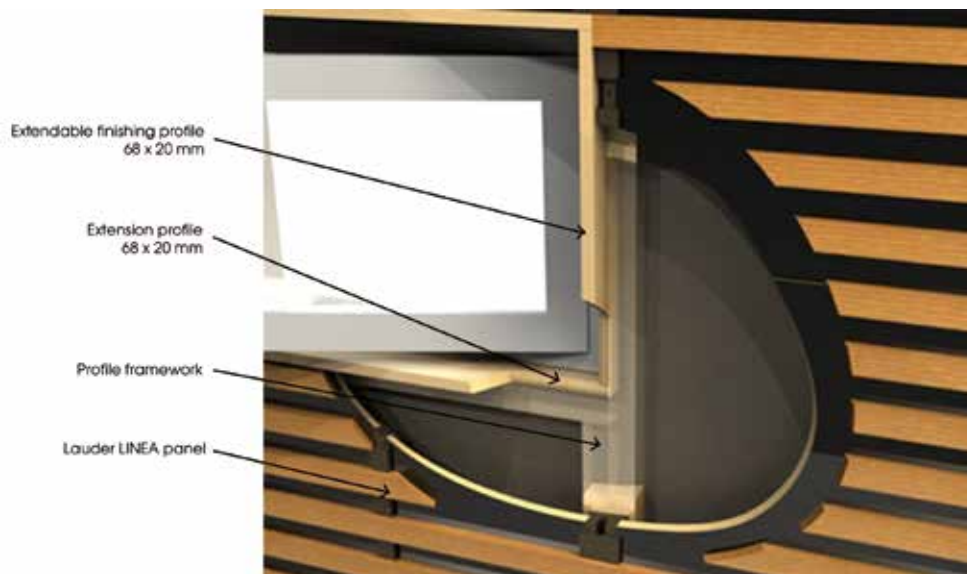
Detail of internal corner (horizontal)



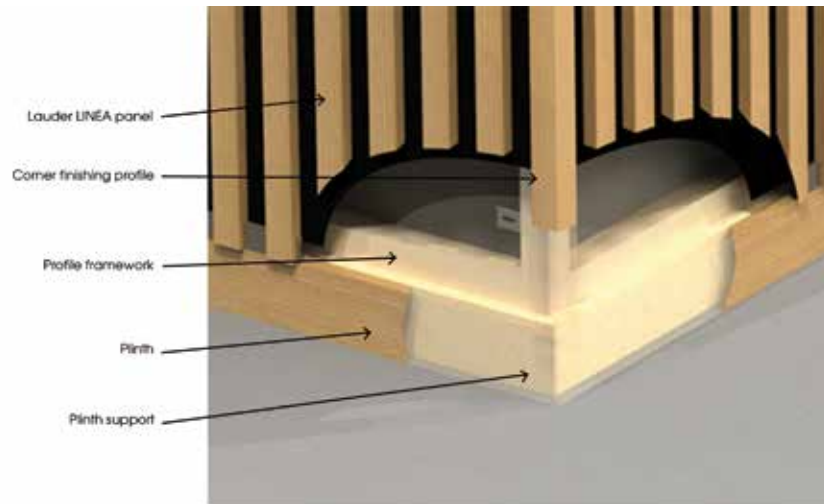
Detail of external corner (horizontal)



Detail of window surround (horizontal)



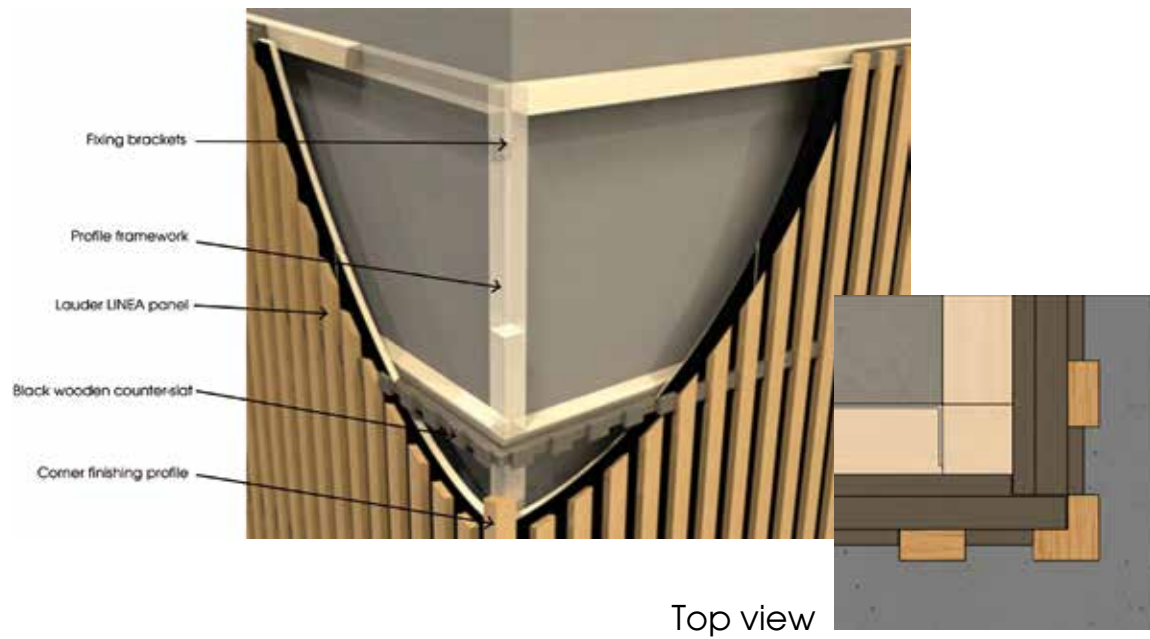
Detail of plinth (vertical)



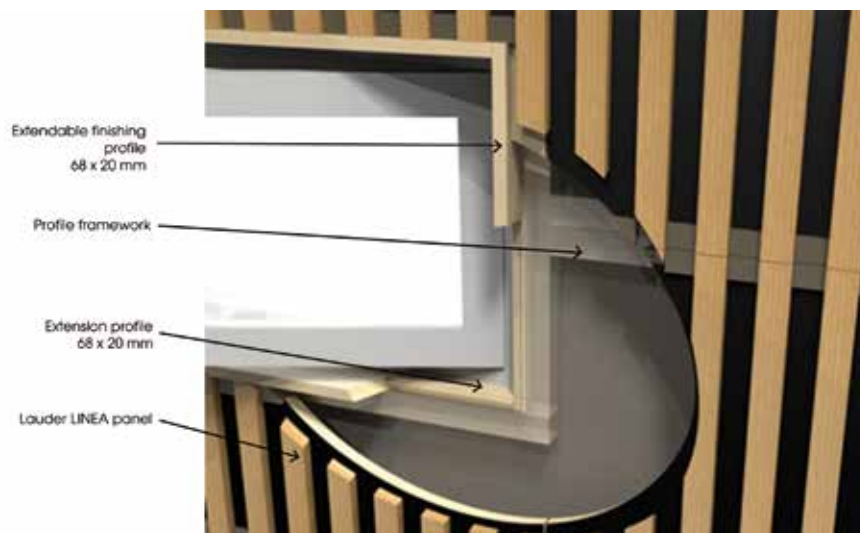
Detail of internal corner (vertical)



Detail of external corner (vertical)

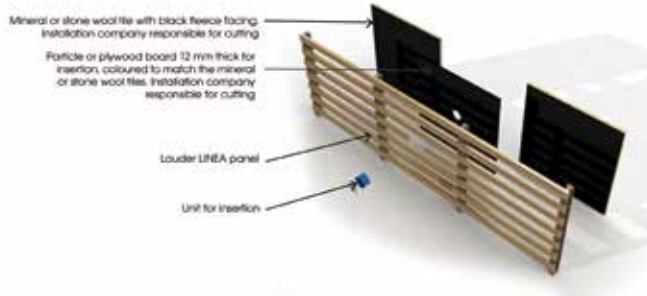


Detail of window surround (vertical)



Inserting a small unit

Maximum size of a unit
for insertion in a panel



1 Insertion in a standard panel



2 Remove the mineral or stone wool tiles



3 Cut the panel at the insertion location



4 Insertion window completed



5 Cut hole to size



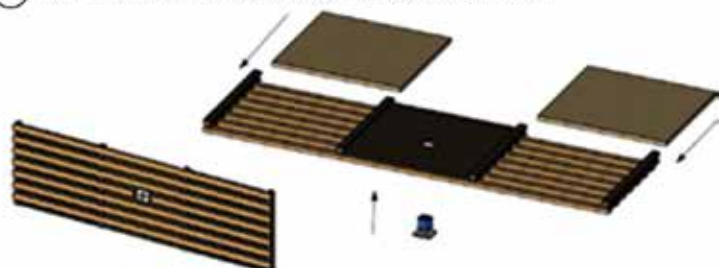
6 Put the particle black plate in place



7 Screw the particle black plate and slats in place

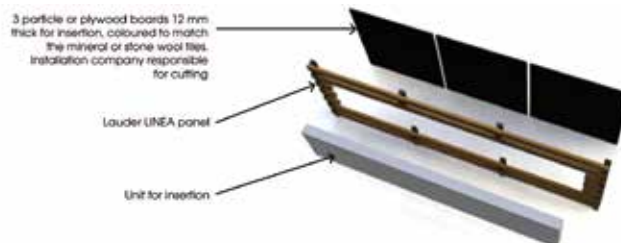
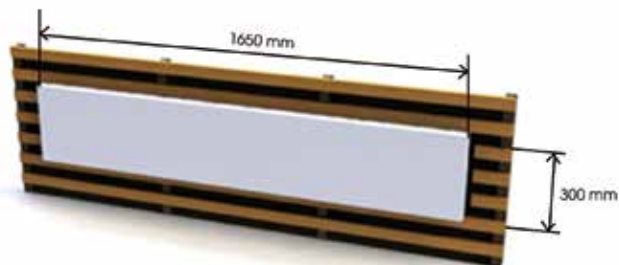


8 Lay the mineral or stone wool tiles and insert the unit



Inserting a long unit

Maximum size of a unit
for insertion in a panel



① Insertion in a standard panel



② Remove the mineral or stone wool tiles



③ Cut the panel at the insertion location



④ Insertion window completed



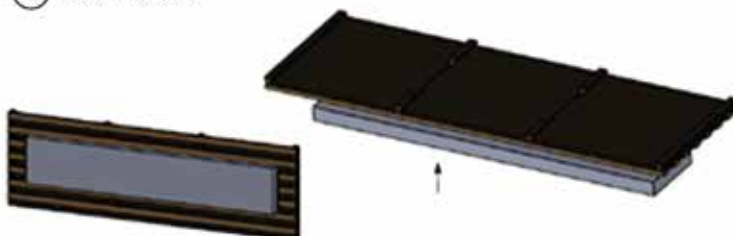
⑤ Put the particle black plates in place



⑥ Screw the particle black plates and slats in place



⑦ Insert the unit



Cutting a panel to length

- ① Determine the cutting location



- ② Unscrew the black wooden counter-slat to be moved



- ③ Move the counter-slat



- ④ Refix the counter-slat



- ⑤ Cut slats to length



- ⑥ Panel ready for installation



Wall : cutting a panel to width

① Determine the cutting location



② Cut the panel following the line of the framework



③ Cutting completed



④ Panels ready for installation



Cutting to length at an angle

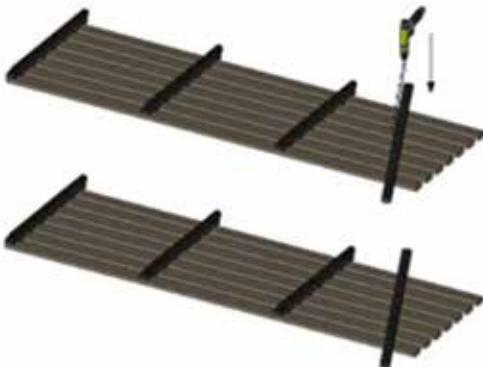
- ① Cutting a Lauder LINEA panel to length at an angle



- ② Remove the black wooden counter-slat



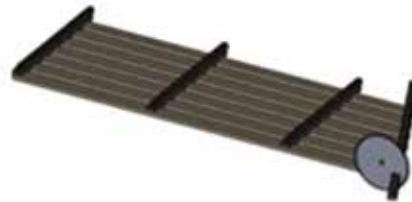
- ③ Position the profile for cutting and screw down



- ④ Cut the slats to length



- ⑤ Cut the profile to length



- ⑥ Resized panel ready for installation



Cutting to width at an angle

- ① Cutting a Lauder LINEA panel to width at an angle



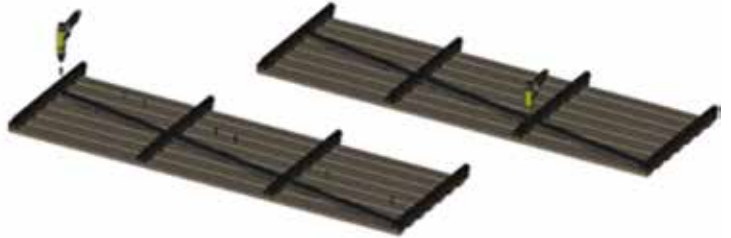
- ② Cut the profile for cutting to length



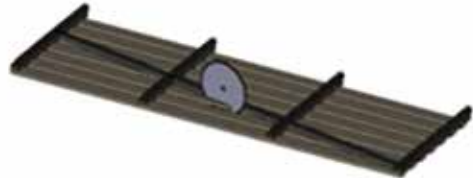
- ③ Position the profile for cutting



- ④ Screw down the profile to hold the slats in place



- ⑤ Cut the slats to length



- ⑥ Resized panel ready for installation



Irregular cutting to length

- ① Determine the location of the irregular cut



- ② Insert the panel for cutting (option)

Coloured particle or plywood board 12 mm thick



- ③ Fix and mark the cut

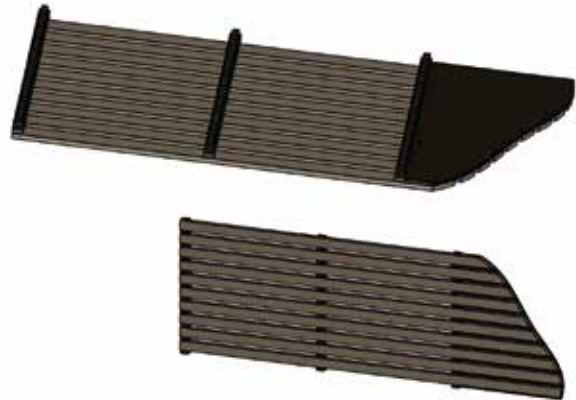


Screws fixed into the slats

- ④ Cut following the marking with a jigsaw



- ⑤ Panel ready for installation



Irregular cutting to width

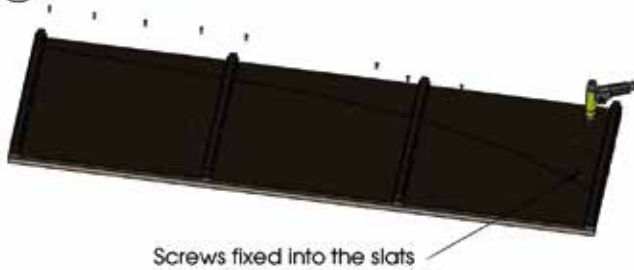
- ① Determine the location of the irregular cut



- ② Insert the panel for cutting (option)
Coloured particle or plywood board 12 mm thick



- ③ Fix and mark the cut








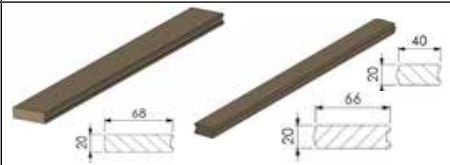
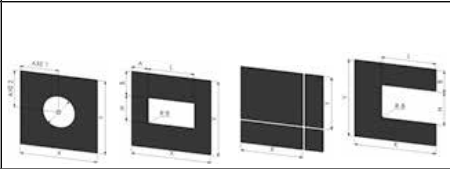
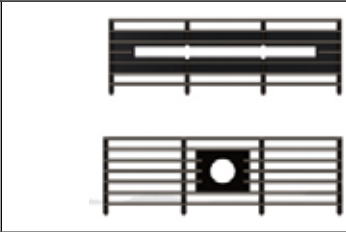
- ④ Cut following the marking with a jigsaw



- ⑤ Panel ready for installation



Wall options and accessories

Additional black wooden counter-slat	The additional counter-slat gives greater flexibility for panel cutting, adapting to opening frames and reconstituting or reusing panel offcuts	
Additional slot	The additional slot can be used to complete a project with profiles identical to the panels for a good finish	
Profile for angled cutting	The profile provides greater panel cutting flexibility for perfect adaptation to the constraints of the site	
Particle black plate	The particle black plate can be used to create various insertions and irregularly cut shapes or can be used to close off the void and diffuse sound (reverberation)	
Internal/external corner profile	This profile is used to finish wall corners	
Extension finishing profile	This accessory is used to finish returns (openings, etc.)	
Particle black plate machining option	Contact us	
Panel machining option with insertion of particle black plate	Contact us	
Finishing option	Finishing tin for touching up cut slats and black wooden counter-slats	Varnish, Wax Color, Wax Color MC, 1 litre tin







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