



LINEA

SUSPENDED CEILING
AND WALL CLADDING

INTERIOR



LAUDESCHER

LINEA

SUSPENDED CEILING
AND WALL CLADDING

INTERIOR



LAUDESCHER

THE COMPANY

PROJECTS

LINEA PRODUCTS

LINEA 3D PRODUCTS

INSTALLATION

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1

The company

FOR GENERATIONS, LAUESCHER HAS
FOCUSED ON PEOPLE AND INNOVATION TO
ENHANCE THE USE OF WOOD

A committed and certified company

Generations of passion and innovation

Combining boldness and pragmatism, Marcel Laudescher began his industrial adventure 50 years ago. He quickly abandoned normal joinery production and continued to innovate by developing his half-lap jointing technique, making Laudescher the French leader in screen walls. In 2002, Jean-Marc Laudescher, his elder son, bought 100% of the company and became the owner-manager. Stéphane, the younger son, manages production alongside his brother, developing this pioneering and innovative spirit, the DNA of this family with wood in its genes.



A certified company

Laudescher is committed to a quality strategy certified by independent organisations every year.

ISO 9001 (quality commitment)

FSC® LABEL – no. FSC-C125874

PEFC™ LABEL – PEFC no. /10-31-2391 (sustainable forest management)

CE marking



Sustainable approach

Responsible actions

Improving the company's carbon footprint throughout the life cycle of its products, from sourcing to recycling, is a priority objective at all levels of the company and a continuous improvement process.



Waste recycling

Waste is sorted and recycled through different industries.



Respect for resources

Our wood comes from sustainably managed forests (with FSC® or PEFC™ labels).



Energy savings

All energy consumption is scrutinised to identify possible efficiency savings. For example, the factory is heated using energy produced by recycling our wood chips, which is also the main energy supply for the drying ovens for finishing products. Recovering energy from compressors reduces electricity consumption.



Air quality

The raw materials selected by Laudescher, combined with the manufacturing process, offer optimum air quality.



New technologies facilitating design

A top-level technological and industrial facility

Located in Carentan-Les-Marais, in Cotentin, Normandy, the 7,500 m² plant built on a 20,000 m² industrial site houses highly efficient machinery, including a fully automatic cutting/3D-planing/length cutting line, 4-computer-digital-controlled machining centres, including 1 with 5 axes.



Design to imagine the shapes of the future

From a very early stage, Laudescher understood the importance of design in developing its product ranges, firstly by following trends to attract architects, project owners and customers, and secondly by being well designed, easier to produce and install. Laudescher has always driven partnerships with designers, or even acoustic engineers, to lead the company into new areas and help it build an essential vision of the future. For example, Laudescher recently called upon Woodlabo, a designers' collective, to design the LINEA 3D collection. There are still numerous development opportunities.



High performance panels



High acoustic performance

Our panels are specifically engineered to integrate standard acoustic absorbing tiles, increasing their acoustic performances. They can be used to control the sound environment in each type of space, from meeting rooms to auditoriums, based on certified results from laboratory tests.



Perfect finish

Guaranteed using the half-lap assembly technique, providing a flowing and sturdy finish to our solutions.



Optimum fire reaction

Up to Euroclass B-s1,d0 classification as per the EN 13501-1 standard



Solid wood with environmental certifications (FSC® or PEFC™)

All our wood is carefully selected to ensure high quality finished products (dry wood 10% to 12%, 1st grade). The vast majority is FSC® or PEFC™ certified, guaranteeing that the wood and wood-derived products used come from sustainably and responsibly managed forests. Laudescher panels produce little waste and are recyclable.

FSC® LABEL – no. FSC-C125874

PEFC™ LABEL – PEFC no. /10-31-2391



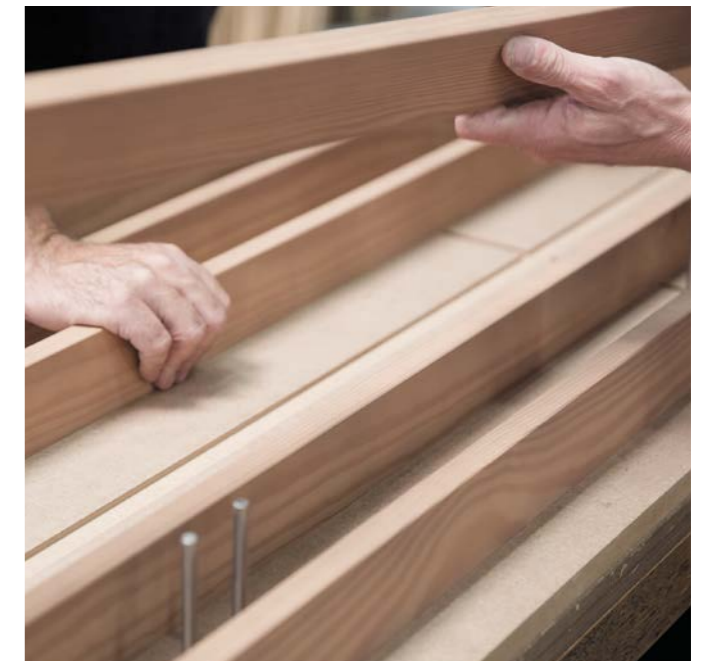
Air quality and respect for the environment

Laudescher panels rated A+ or A offer optimum interior air quality due to their very low VOC emissions (as per ISO 16000-3, -6, -9 and -11 standards). These results mean that Laudescher can contribute to HQE, BREEAM, LEED, Effinergie or Blue Angel accredited projects. The panels have an environmental product declaration (EPD).



Good moisture resistance

Using class 3 wood (risk class as per EN 335-2 and French NF B 50-100 standards) and appropriate finishes means our products can be used in humid environments.



Combinations of species and finishes



Natural species



Pine



Oak



Douglas fir



Spruce

Varnished finishes



Clear varnish



White Wash Soft varnish



White Wash varnish

Wax Color finishes (varnish option available)



White



Honey



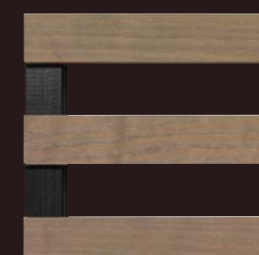
Chocolate



Cherry



Mahogany



Grey



Wenge



Oak

2

Projects

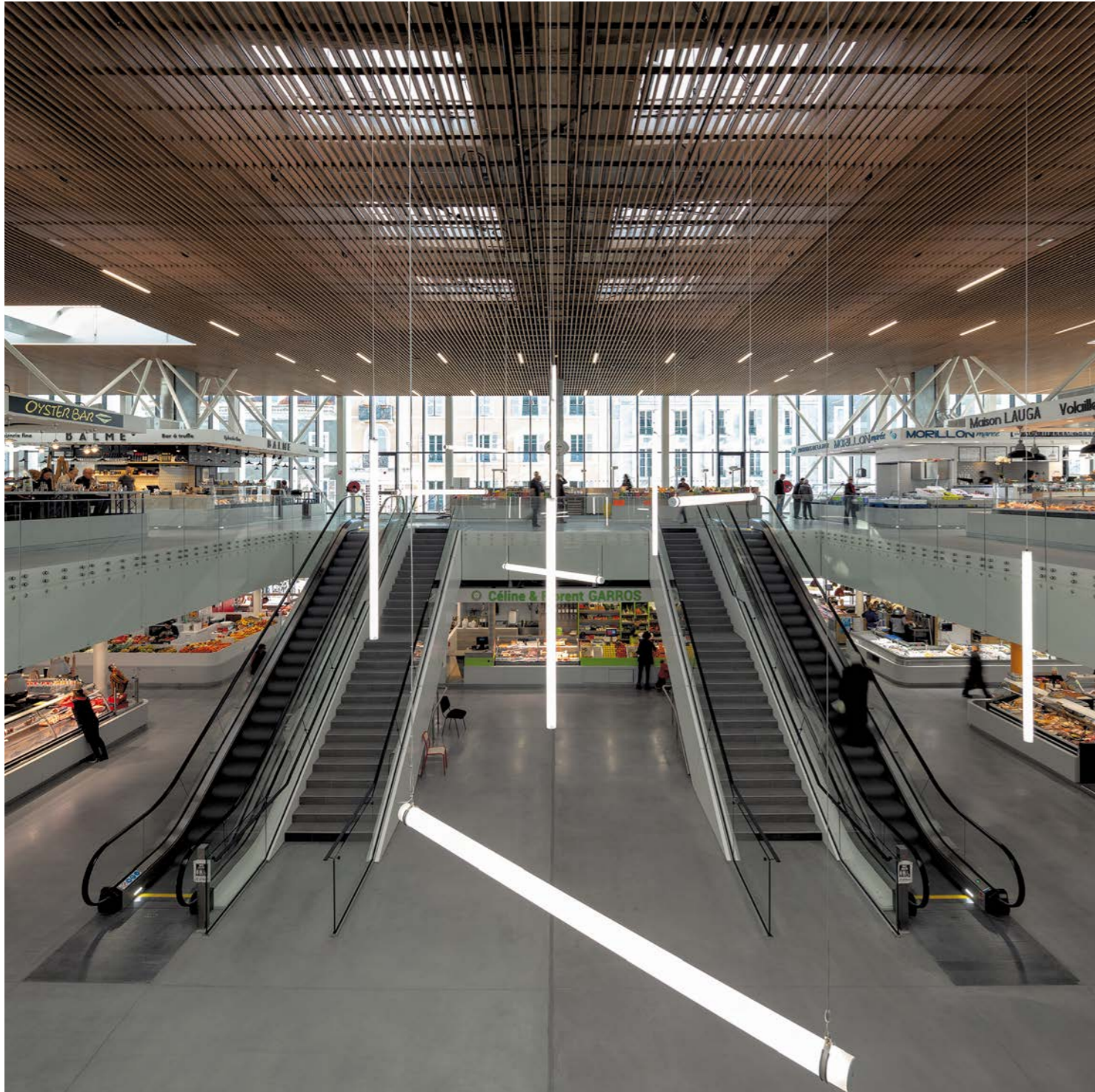
EACH YEAR, LAUESCHER TAKES PART IN MORE THAN 500 MAJOR PROJECTS IN ALL BUSINESS SECTORS, IN FRANCE AND INTERNATIONALLY.

Les Halles, Pau

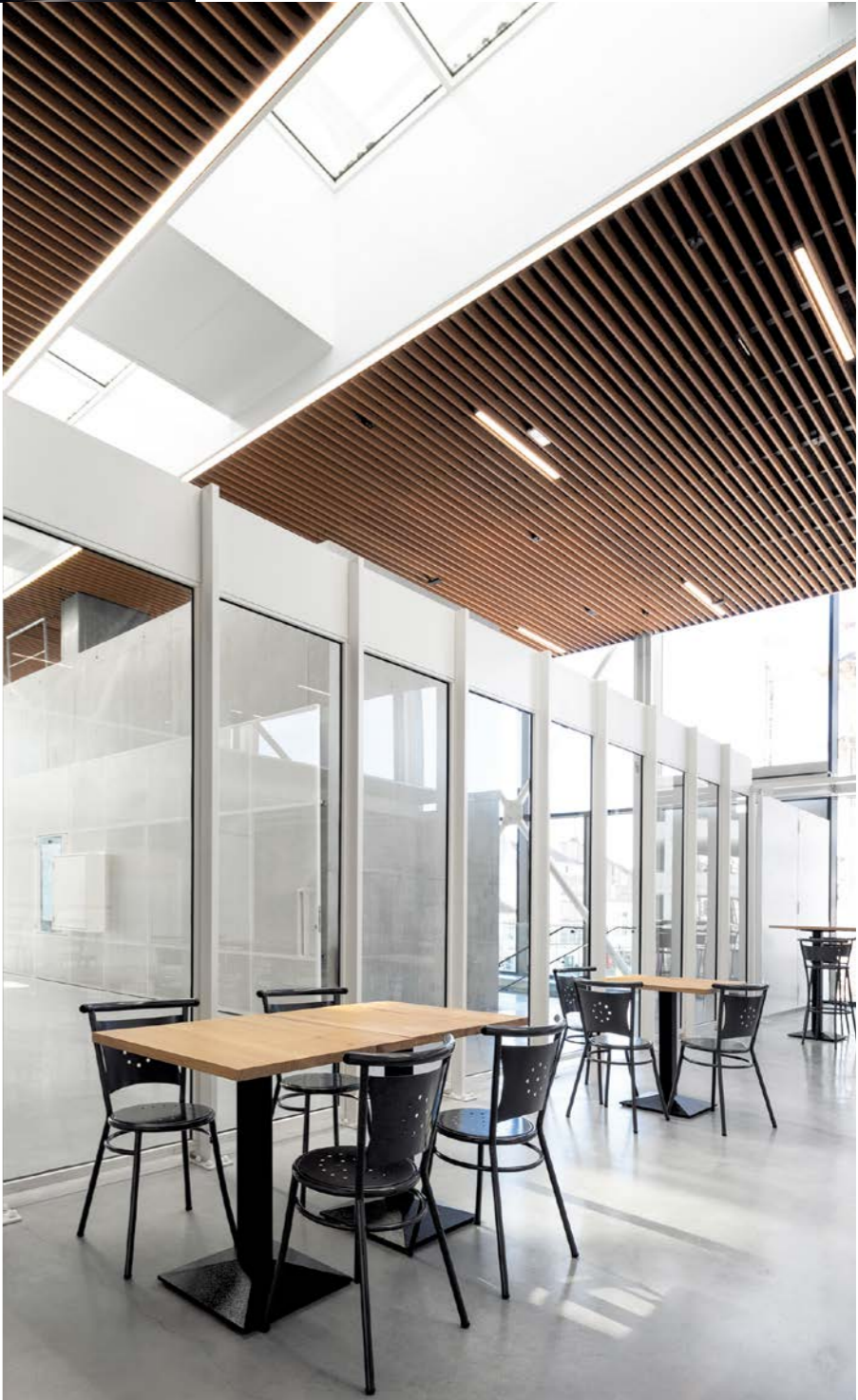


Description

Location: Pau, France
Activity: shopping centre
Project owner: Pau city
Architect: Ameller Dubois
Products: **LINEA 2.6.10** ceiling + **LINEA 2.9.10**
Species: pine
Finish: Wax Color Oak



A redesign of volumes in a refurbished historic site



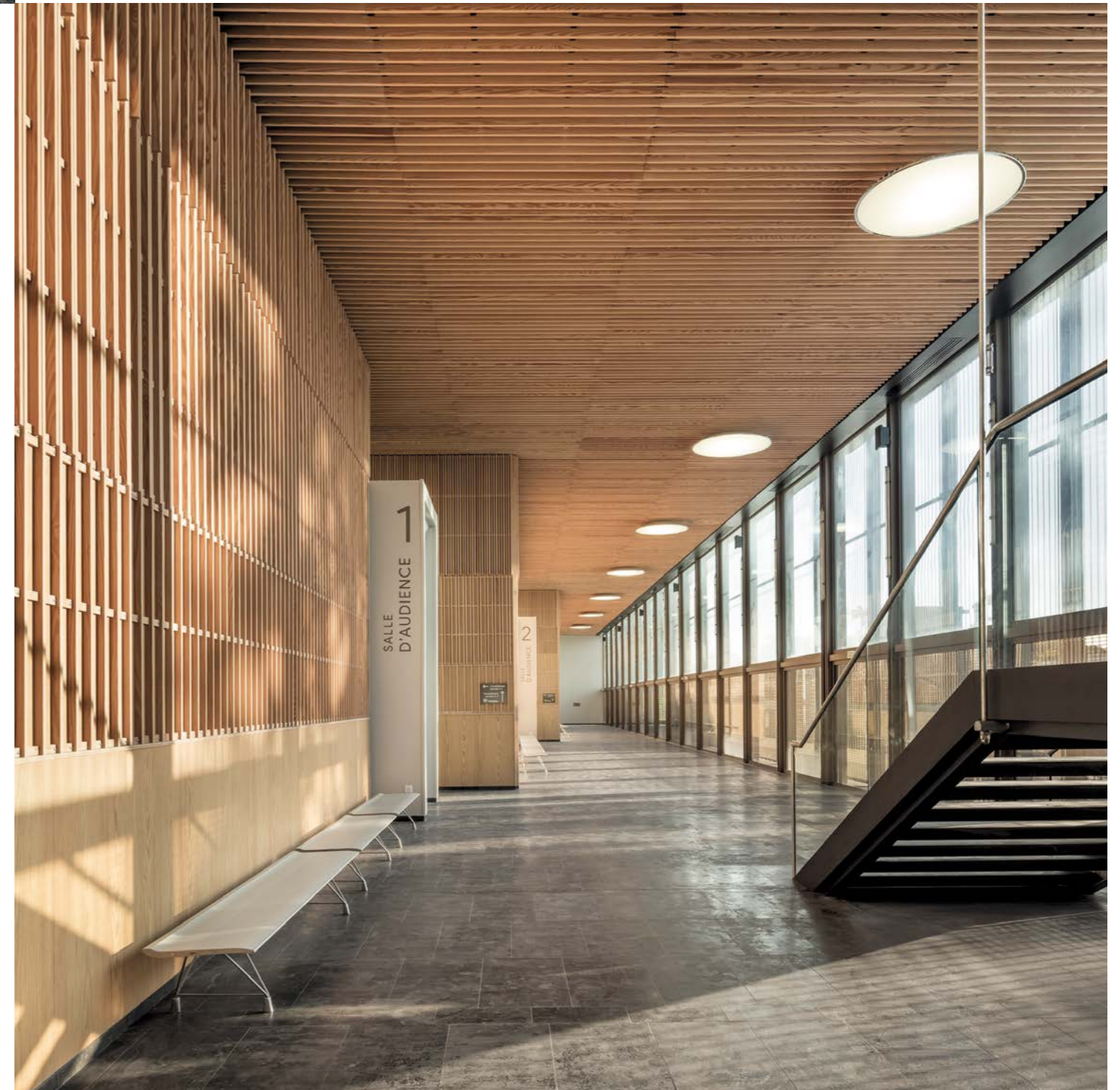
Law Courts, Pointe-à-Pitre



Description

Location: Pointe-à-Pitre, France
Activity: government
Project owner: French Public Agency for Court Buildings
Architect: Ignacio Prego Architecture
Products: bespoke **LINEA 2.6.8** ceiling / wall
LINEA 2.3.10 + LINEA 2.3-4.2-6 + LINEA 2.3-4-6.2
Species: pine
Finish: clear varnish

Shadows and lights



New Scotland Yard, London



Description

Location: London, UK
Activity: government
Project owner: Metropolitan Police Service and Mayor's Office for Policing and Crime
Architect: Allford Hall Monaghan Morris
Products: **LINEA 2.4.3** bespoke ceiling
Species: pine
Finish: Wax Color Oak

A BREEAM-certified project



Financial Conduct Authority, London



Bespoke space for a personalised reception

Description

Location: London, UK
Activity: offices
Project owner: Financial Conduct Authority
Architects: Perkins + Will
Products: **LINEA 4.2.4** bespoke ceiling
Species: pine
Finish: Bespoke Wax Color

Auchan Shopping Centre, Bordeaux-Lac



Description

Location: Bordeaux, France

Activity: shopping centre

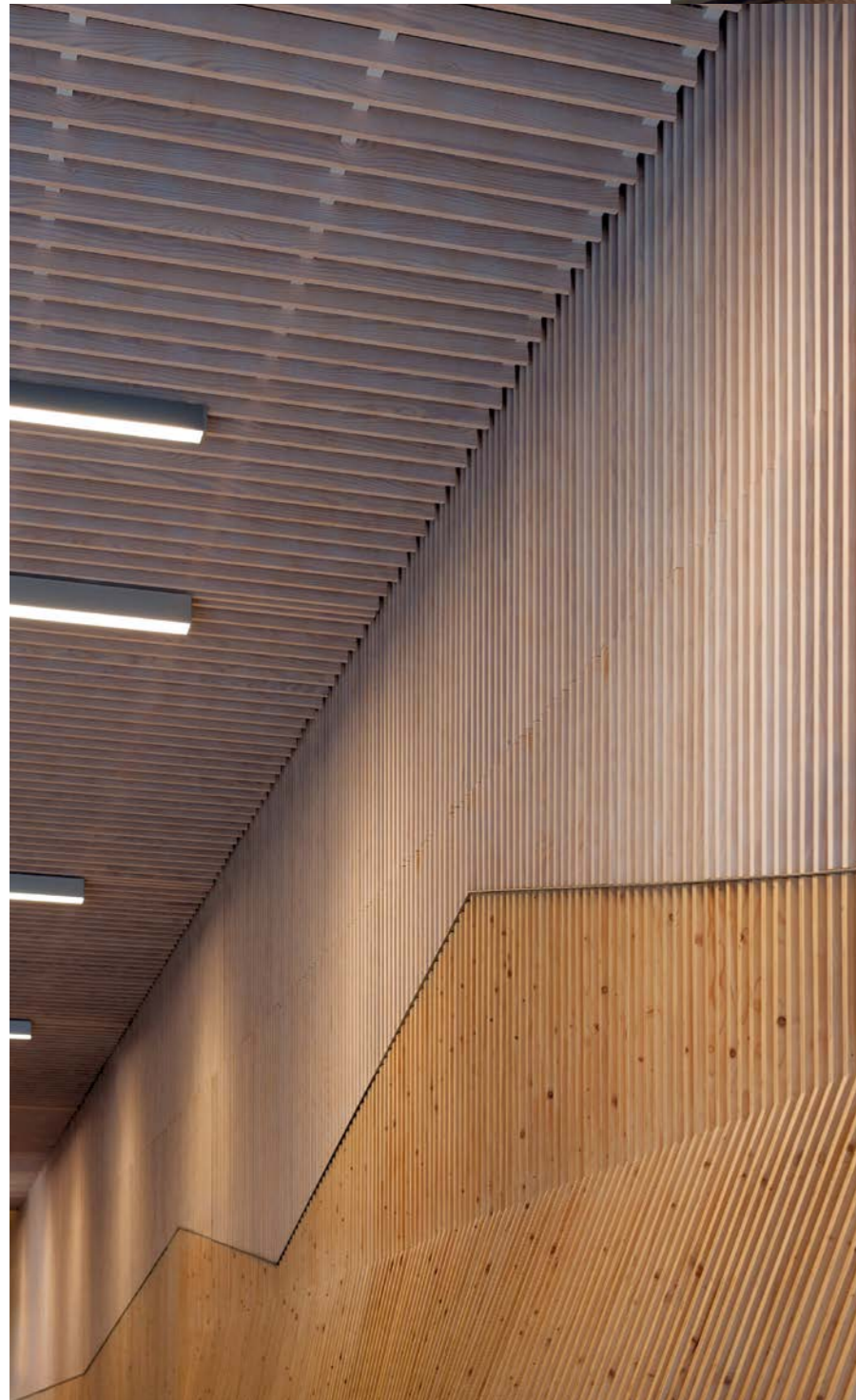
Project owner: Immochan

Architect: BLP & Associates

Products: **LINEA 2.6.4** ceiling and wall + **LINEA 2.6.10**

Species: pine

Finish: White Wash varnish



A warm
welcome



France Bleu Breizh Izel, Quimper

Description

Location: Quimper, France
Activity: offices
Project owner: Radio France
Architects: EA + LLA Architects
Products: **LINEA 2.6.6** + **SHAPE** ceiling
LINEA 2.6.6 wall
Species: pine
Finish: clear varnish



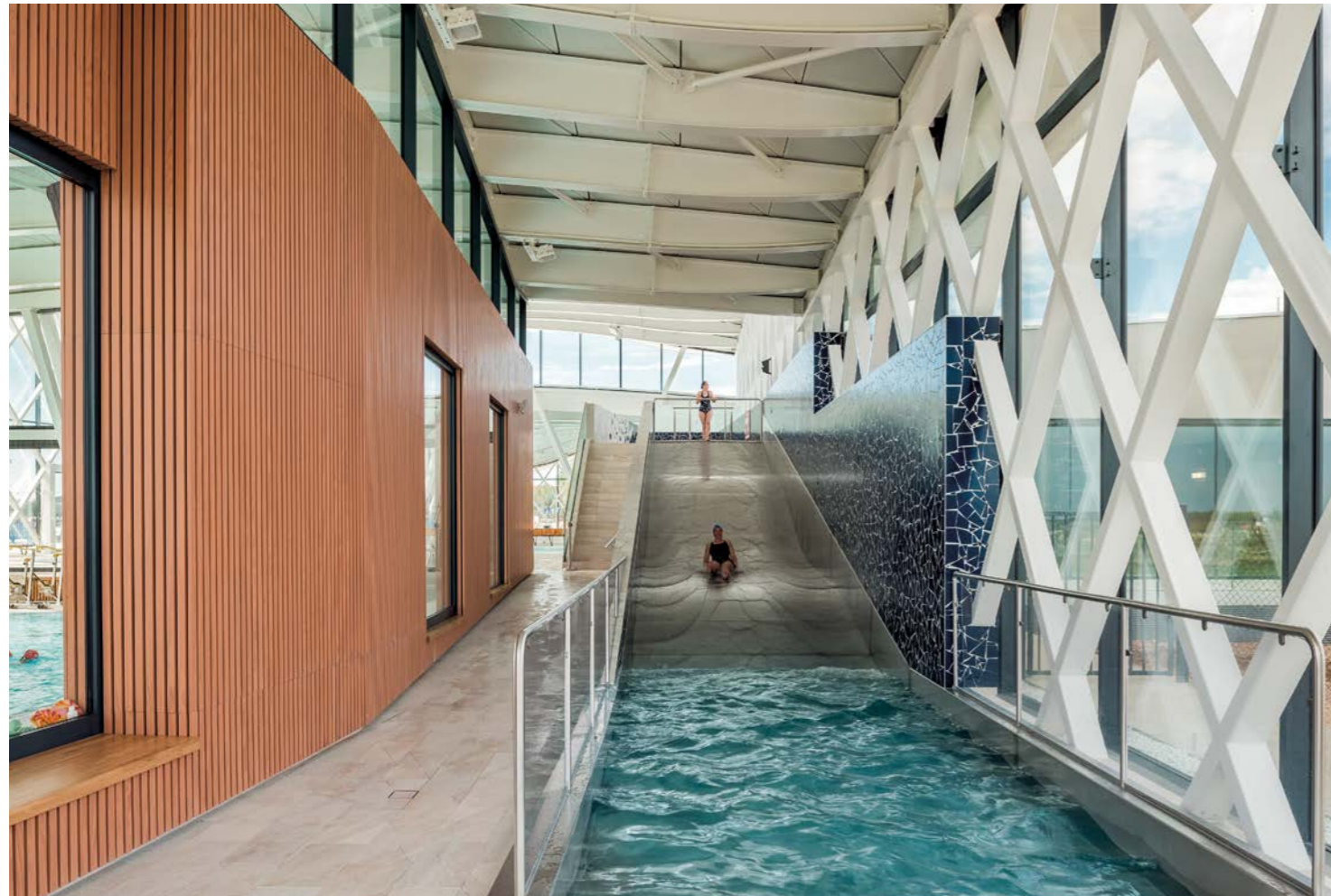
Silence: On Air



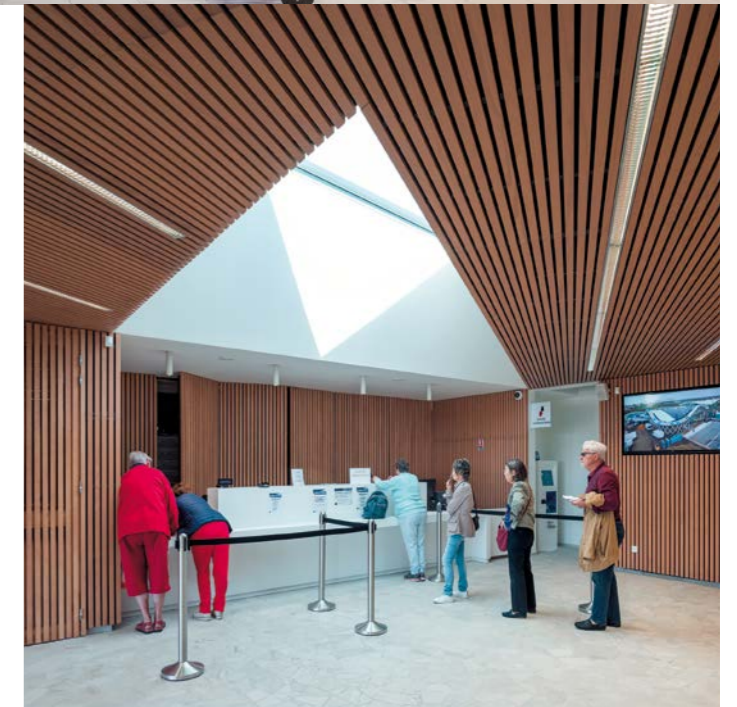
Swimming leisure centre, Saint-Gilles-Croix-de-Vie

Description

Location: Saint-Gilles-Croix-de-Vie, France
Activity: sports facility
Project owner: Pays-de-Saint-Gilles-Croix-de-Vie community council
Architect: BLP & Associates
Products: **LINEA 4.2.1** ceiling and wall
Species: pine
Finish: Wax Color Oak + varnish



Wood under all conditions



Icade Pulse, Saint-Denis



Warmer mixed
common spaces

Description

Location: Saint-Denis, France

Activity: offices

Project owner: Icade

Architect: BFV Architects

Products: **LINEA 2.6.6** ceiling + **SHAPE** and **LINEA 4.2.1**

Species: pine

Finish: Wax Color Oak

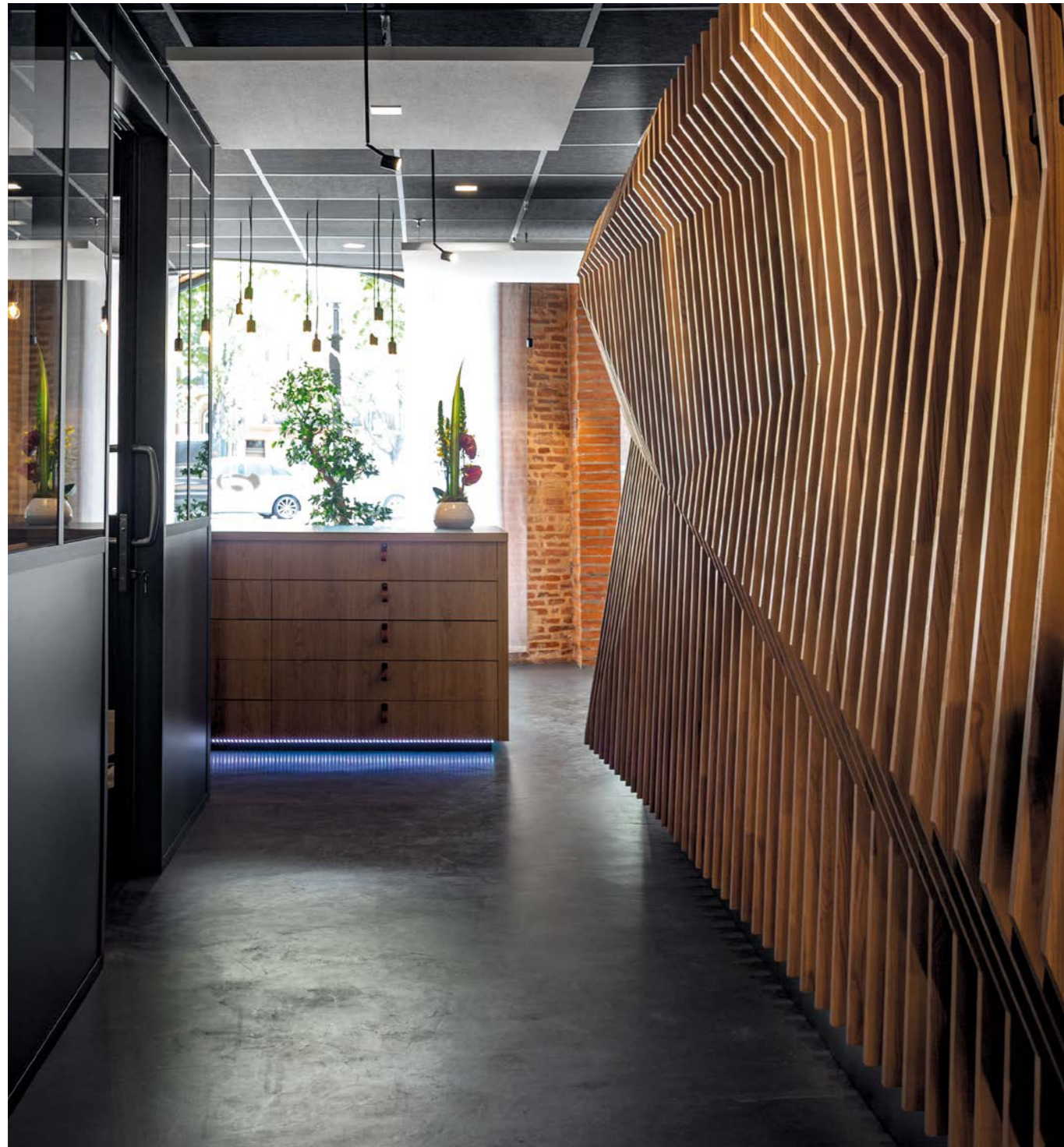


Espace Angelotti, Toulouse

Play on
geometry

Description

Location: Toulouse, France
Activity: showroom
Project owner: Angelotti Promotion
Space design: Noon collective
Product: bespoke **LINEA 2.23.8** wall
Species: pine
Finish: Wax Color Oak + varnish



© Photo: Emmanuel Lattes

Banque Populaire Head Office, Champs-sur-Marne

Wood, central
theme of spaces

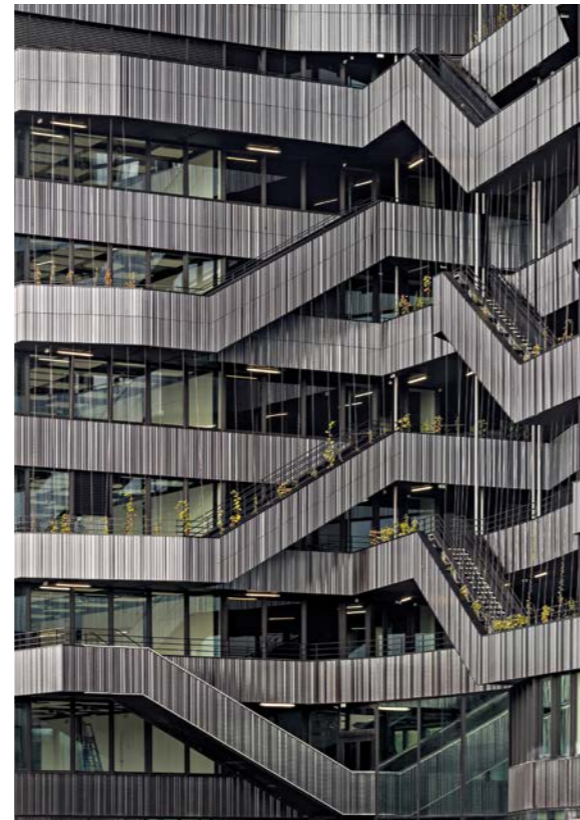


© Photos: Camille Gharbi

Description

Location: Champs-sur-Marne, France
Activity: offices
Project owner: Les Nouveaux Constructeurs
Architect: Cosa Colboc
Sachet Architecture
Product: **LINEA 2.4.3** ceiling and wall
Species: pine
Finish: Wax Color Oak

Java Batignolles 07, Paris



Description

Location: Paris, France

Activity: offices

Project owner: Builders and partners

Architects: Brenac & Gonzalez and associates + Chartier Dalix

Products: ceiling and wall **LINEA 2.4.3** ceiling and wall and

LINEA 2.6.8 ceiling

Species: pine

Finish: Wax Color Honey



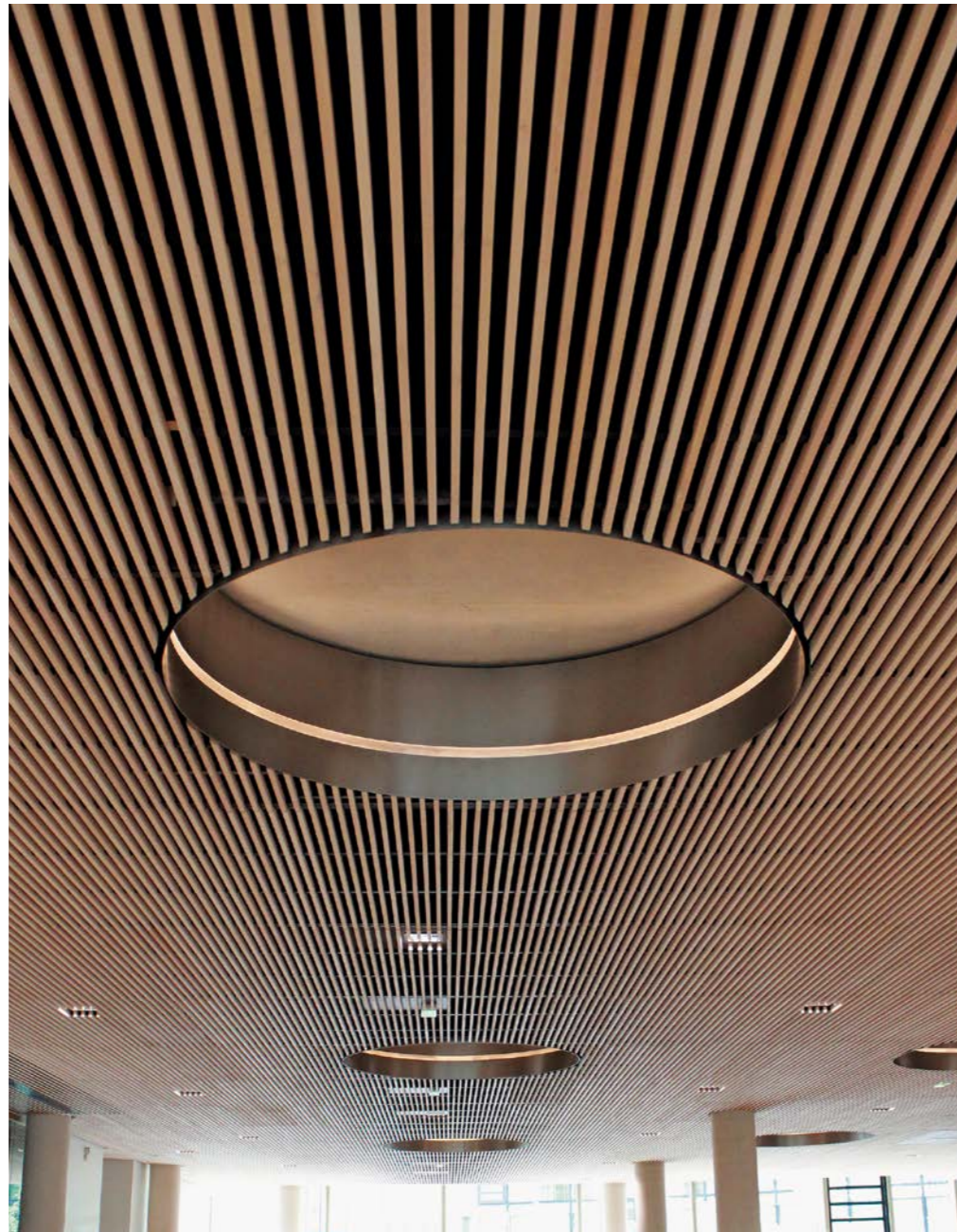
Faceted ceilings



Veolia, Aubervilliers

Description

Location: Aubervilliers, France
Activity: offices
Project owner: Icade
Architect:
Dietmar Feichtinger Architects
Product: ceiling and wall
LINEA 2.4.3
Species: linden
Finish: natural



© Photos: Laudescher

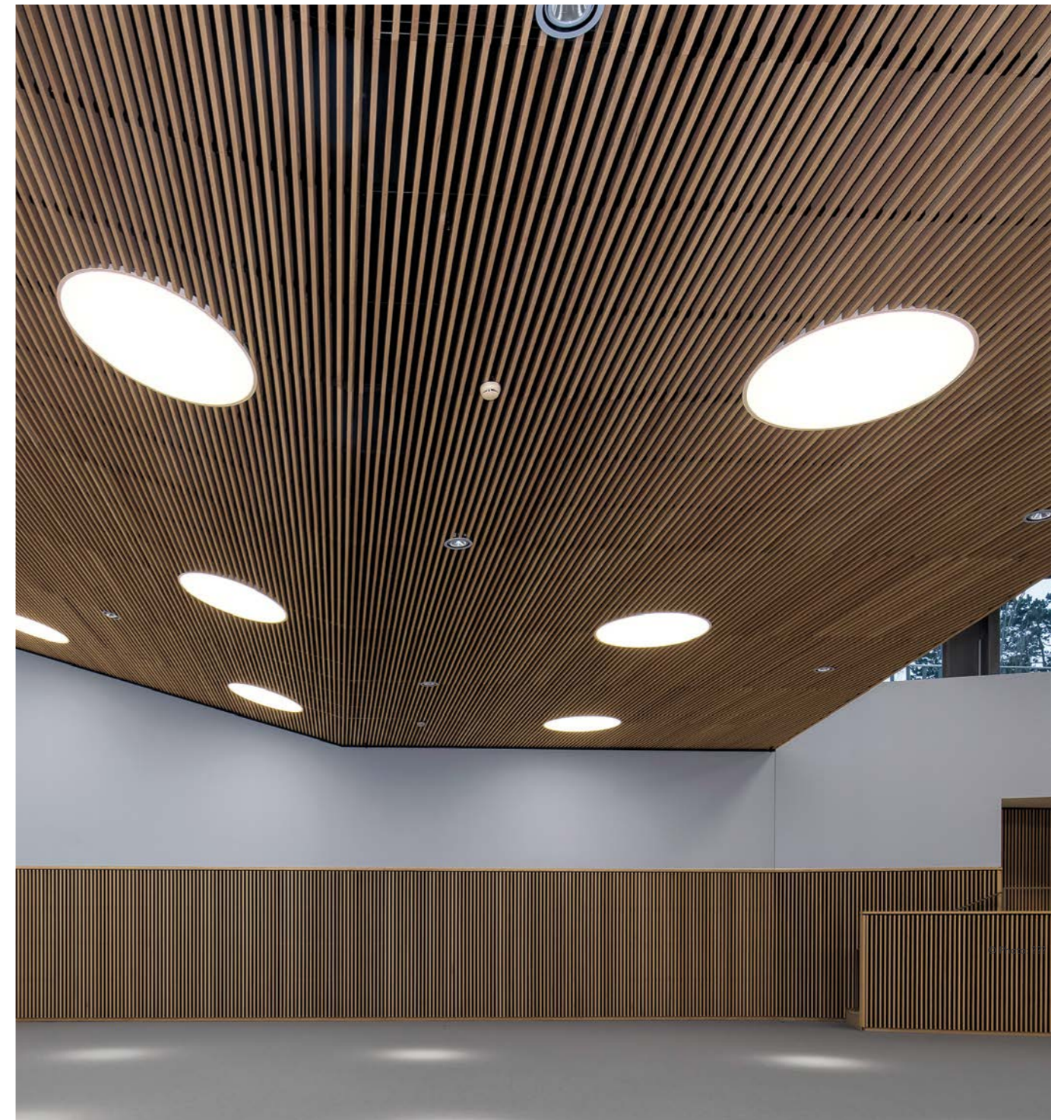
Quintessential
nature

Trèfle Global Health Campus, Geneva

Description

Location: Geneva, France
Activity: offices
Project owner: Crédit Suisse
Anlagestiftung Real
Architect: LRS
Product: **LINEA 2.4.3** ceiling and wall
Species: oak
Finish: clear varnish

Folded,
unfolded effect



© Photo: DMK Photography

Lore Restaurant Ttipia, Bidarray

Description

Location: Bidarray, France
Activity: restaurant
Project owner: Auberge Ostape
Architect: Joppin Architects DPLG & Associés
Product: **LINEA 3D SCALE** wall
Design: Woodlabo
Species: pine
Finish: Wax Color Honey



Classic
revisited



© Photo: Emmanuel Lattes

Auditorium

Description

Product: **LINEA 3D PIX** wall
Design: Woodlabo
Species: pine
Finish: Wax Color Blackr



© Credit: Laudescher

Acoustic
nest

Shop

Description

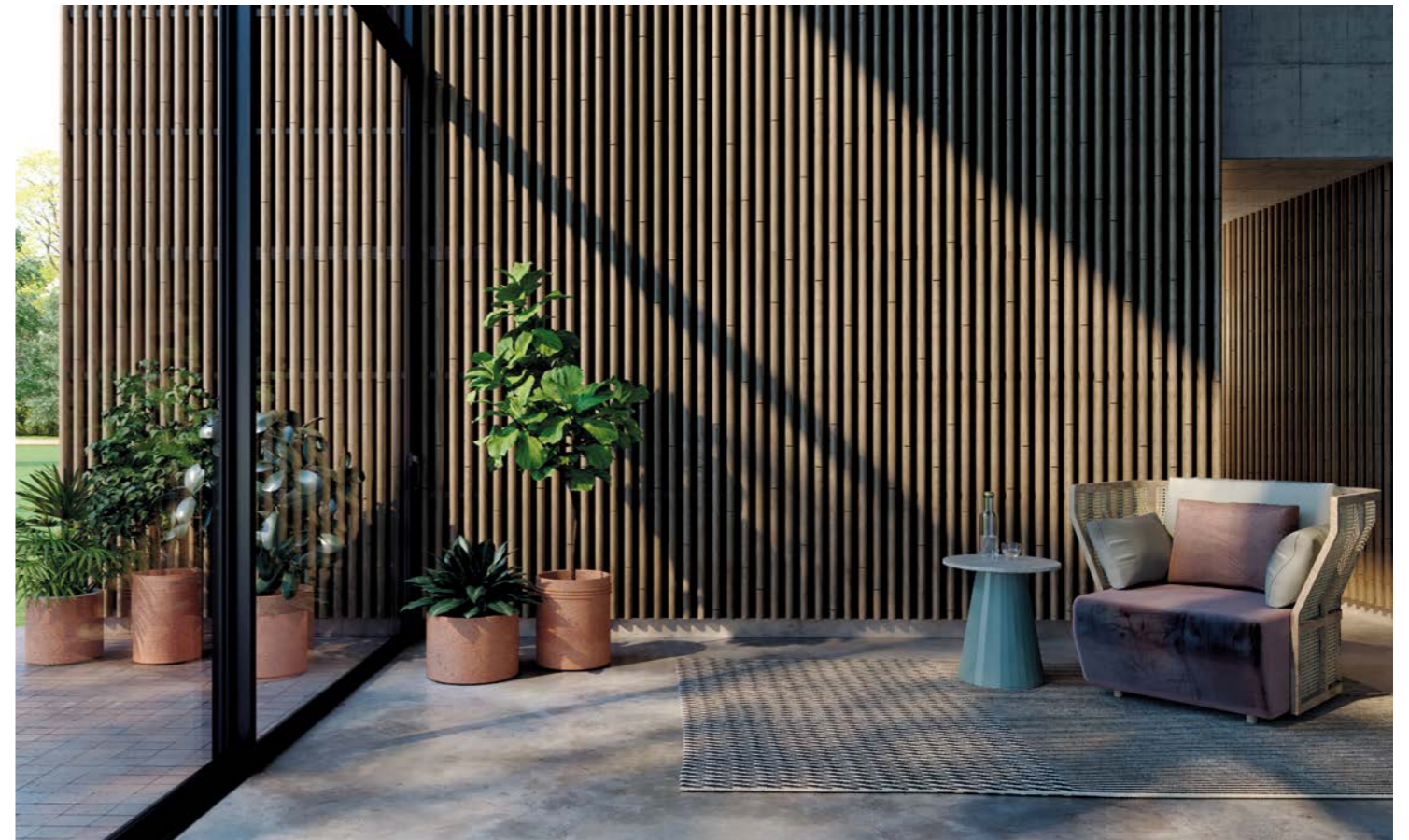
Product: **LINEA 3D EDGE** wall
Design: Woodlabo
Species: pine
Finish: Wax Color Grey

Wooden showcase



Contemporary home

Outdoor extension



Description

Product: **LINEA 3D BAMBOO** wall
Design: Woodlabo
Species: pine
Finish: Wax Color Grey

Offices

Friendlier offices

Description

Product: **LINEA 3D BAMBOO WAVE** wall
Design: Woodlabo
Species: pine
Finish: Wax Color Grey



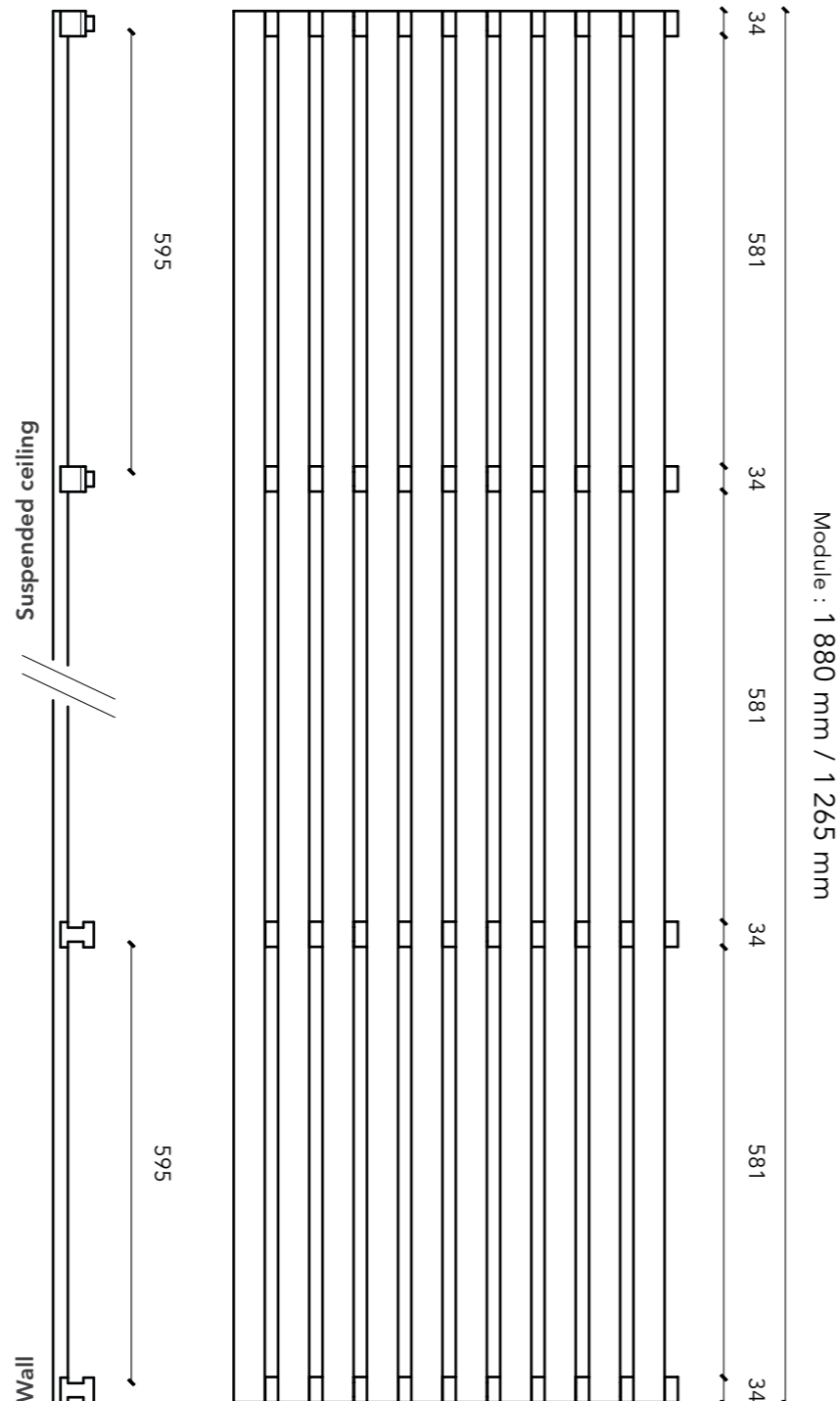
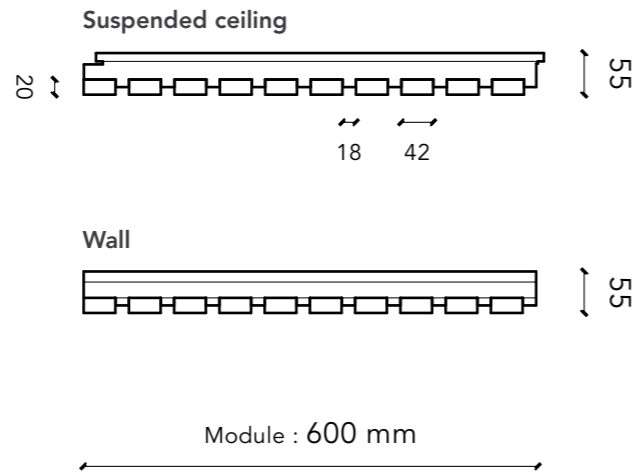
3

Products
LINEA

INTERIOR
SUSPENDED CEILING & WALL CLADDING

LINEA 4.2.1

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	42 mm (face) x 20 mm (height)
Spacing between slats	18 mm
Centre distance of slats	60 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	55 mm
Wood species	Pine, Oak, Douglas fir
Surface mass (pine)	11.4 kg/m ²
Surface mass (oak)	14.6 kg/m ²
Surface mass (douglas fir)	11.2 kg/m ²
Openness percentage	30%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

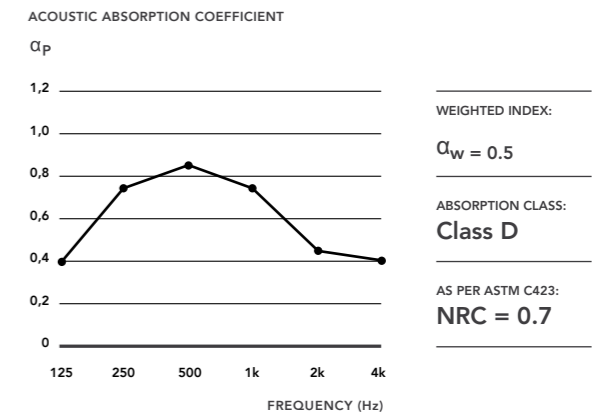
FINISH / REACTION TO FIRE (AS PER EN 13501-1)

Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

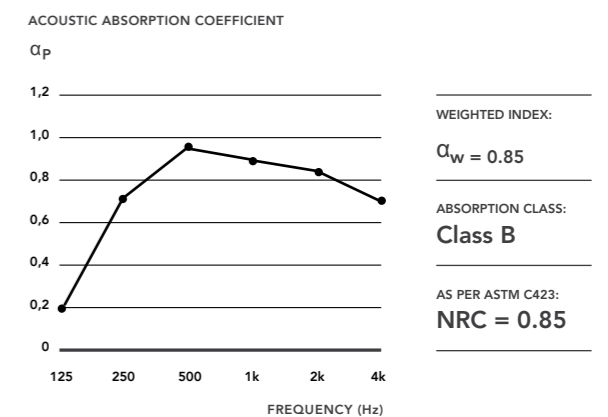
ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 4.2.1 CEILING + LR 20mm on E250 mm plenum

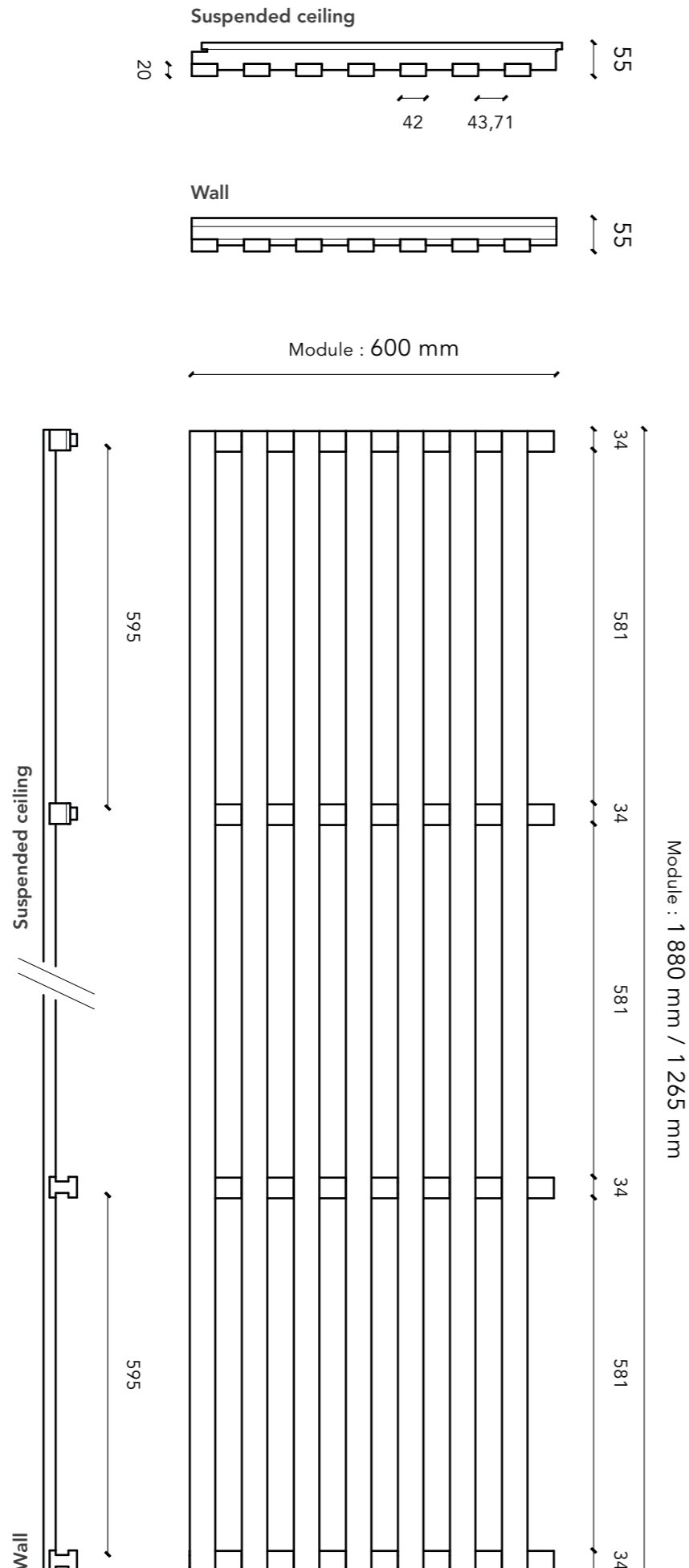


LINEA 4.2.1 WALL + LR 20mm on E50 mm plenum



LINEA 4.2.4

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	42 mm (face) x 20 mm (height)
Spacing between slats	43.71 mm
Centre distance of slats	85.71 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	55 mm
Wood species	Pine, Oak, Douglas fir
Surface mass (pine)	8.75 kg/m ² (wall)
Surface mass (oak)	11 kg/m ² (wall)
Surface mass (douglas fir)	8.6 kg/m ² (wall)
Openness percentage	51%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

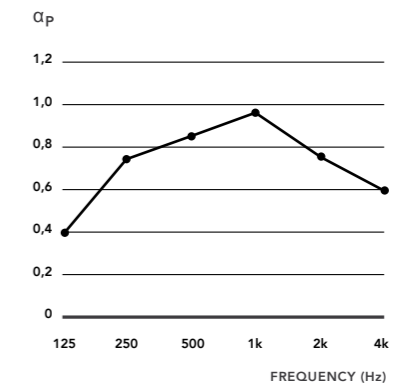
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 4.2.4 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.75$

ABSORPTION CLASS:

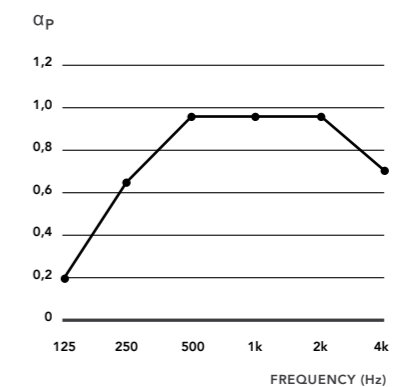
Class C

AS PER ASTM C423:

NRC = 0.85

LINEA 4.2.4 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:

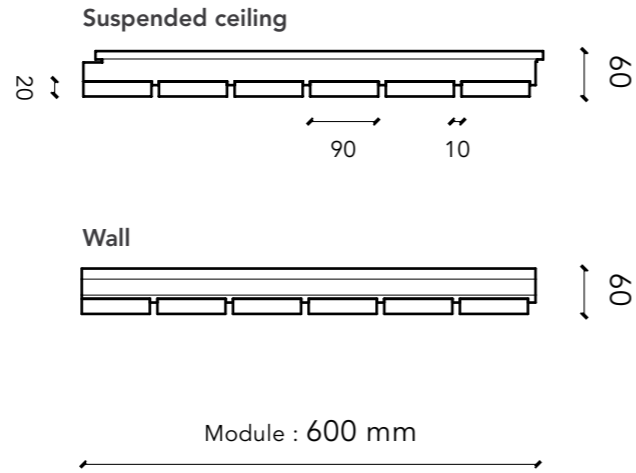
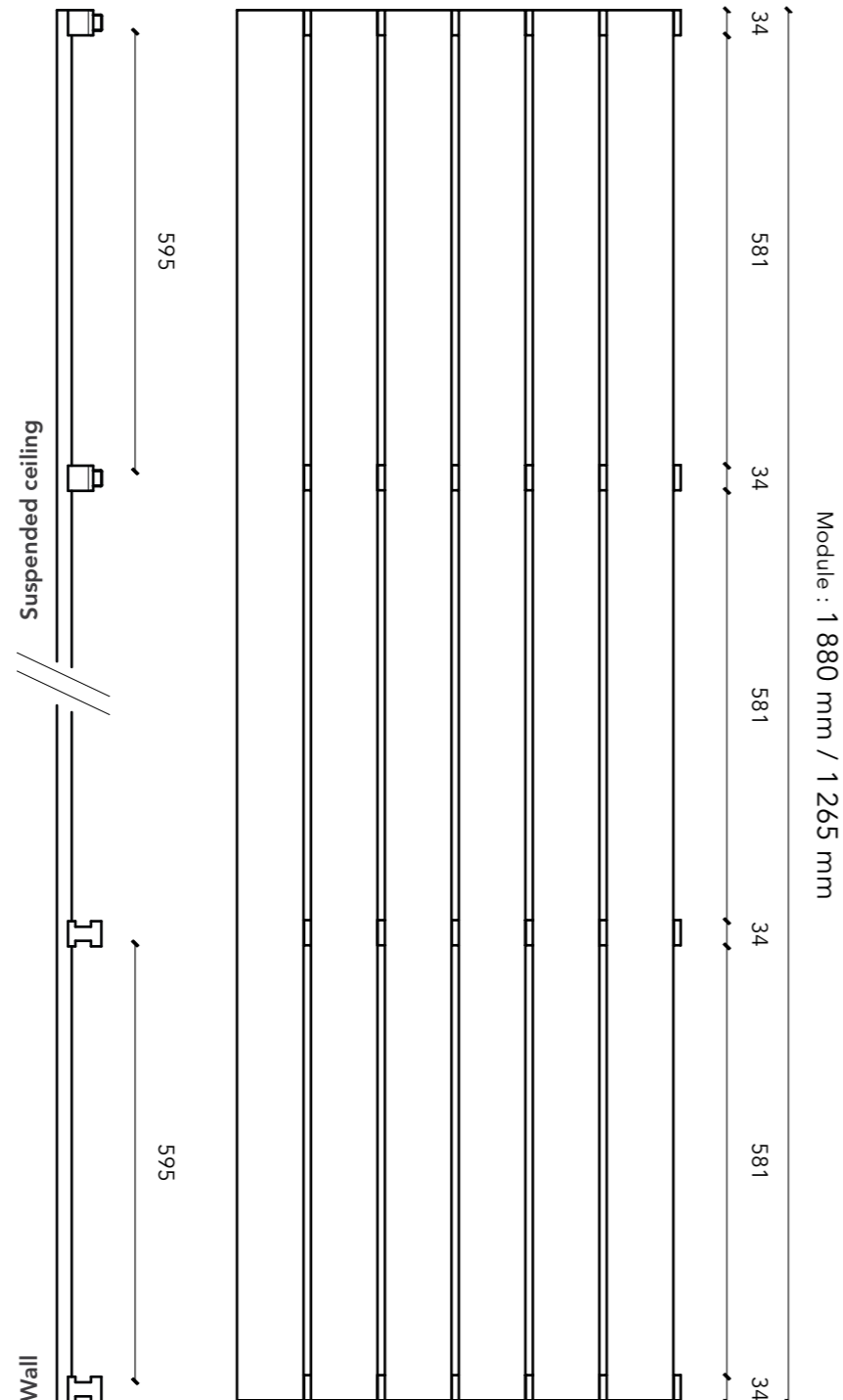
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 9.2.1

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	90 mm (face) x 20 mm (height)
Spacing between slats	10 mm
Centre distance of slats	100 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	55 mm
Wood species	Pine, Oak, Douglas fir, Spruce
Surface mass (pine)	15.3 kg/m ²
Surface mass (oak)	19.4 kg/m ²
Surface mass (douglas fir)	15.1 kg/m ²
Surface mass (spruce)	13.1 kg/m ²
Openness percentage	10%

Rear surface: rigid acoustic rock wool tiles 120 kg/m³ surfaced with a black gauze (format : 600 x 600 mm; 20 mm or 22 mm thick)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- As per DTU 58-1
- As per EN 13964

Wall cladding

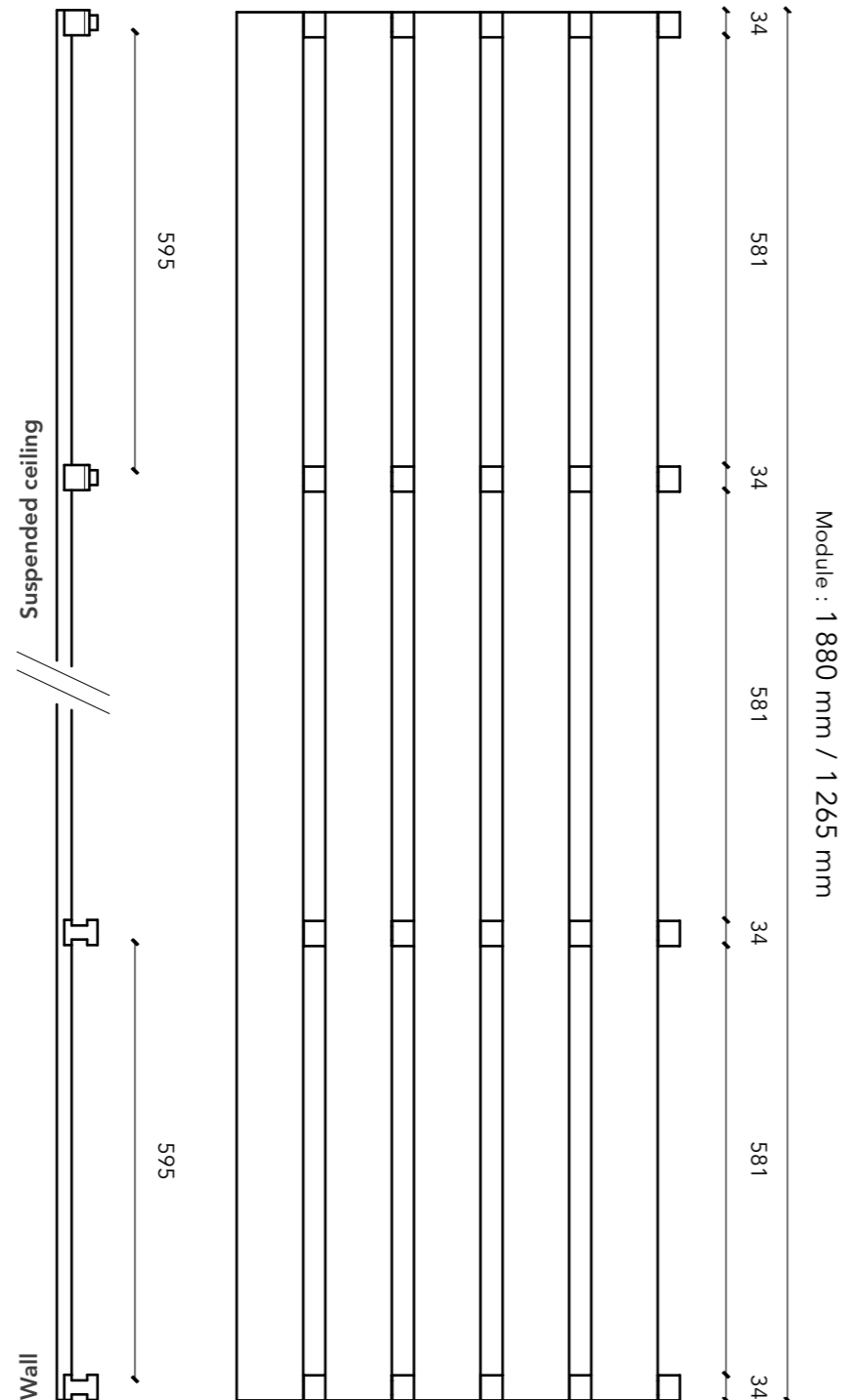
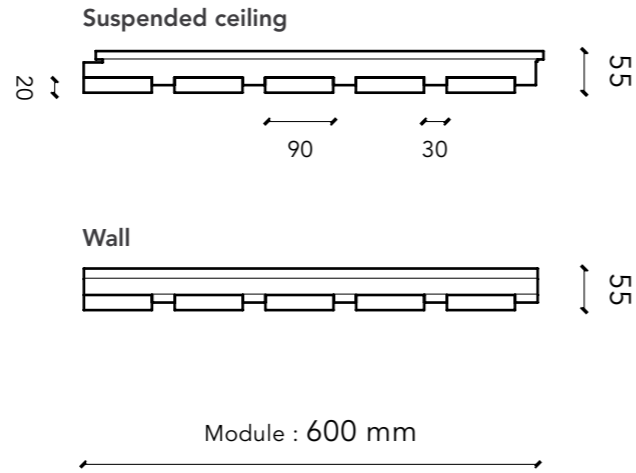
- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Clear varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

LINEA 9.2.3

LINEA RANGE
INTERIOR



FINISH / REACTION TO FIRE (AS PER EN 13501-1)

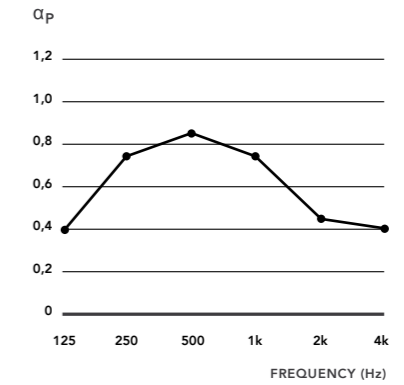
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Colourless varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Coloured wax	D-s2,d0 / B-s1,d0 / B-s2,d0
Coloured wax + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 9.2.3 CEILING + LR 20 mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:
 $\alpha_w = 0.5$

ABSORPTION CLASS:
Class D

AS PER ASTM C423:
NRC = 0.7

TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	90 mm (face) x 20 mm (height)
Spacing between slats	30 mm
Centre distance of slats	120 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	55 mm
Wood species	Pine, Oak, Douglas fir, Spruce
Surface mass (pine)	13.2 kg/m ²
Surface mass (oak)	16.6 kg/m ²
Surface mass (douglas fir)	13 kg/m ²
Surface mass (spruce)	11.4 kg/m ²
Openness percentage	25%

Rear surface: rigid acoustic rock wool tiles 120 kg/m³ surfaced with a black gauze (format : 600 x 600 mm; 20 mm or 22 mm thick)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

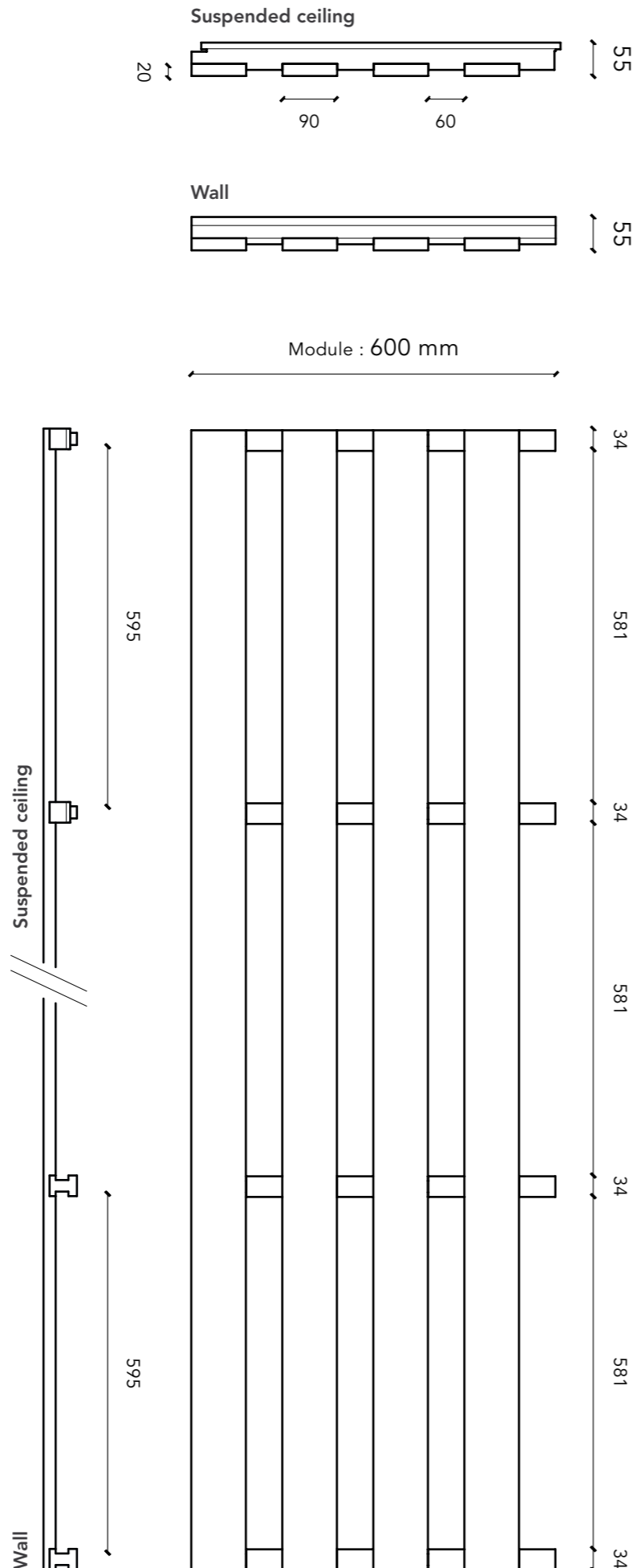
Fitting on T24 grid system:
– As per DTU 58-1
– As per EN 13964

Wall cladding

Mechanical fixing by screwing:
– As per DTU 36-2
– As per EN 14915

LINEA 9.2.6

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	90 mm (face) x 20 mm (height)
Spacing between slats	60 mm
Centre distance of slats	150 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	55 mm
Wood species	Pine, Oak, Douglas fir, Spruce
Surface mass (pine)	11.1 kg/m ²
Surface mass (oak)	13.8 kg/m ²
Surface mass (douglas fir)	10.9 kg/m ²
Surface mass (spruce)	9.6 kg/m ²
Openness percentage	40%

Rear surface: rigid acoustic rock wool tiles 120 kg/m³ surfaced with a black gauze (format : 600 x 600 mm; 20 mm or 22 mm thick)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

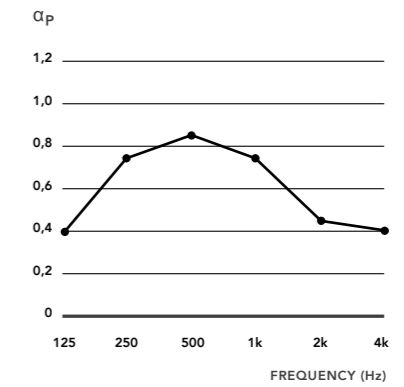
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Colourless varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Coloured wax	D-s2,d0 / B-s1,d0 / B-s2,d0
Coloured wax + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 9.2.6 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.5$

ABSORPTION CLASS:

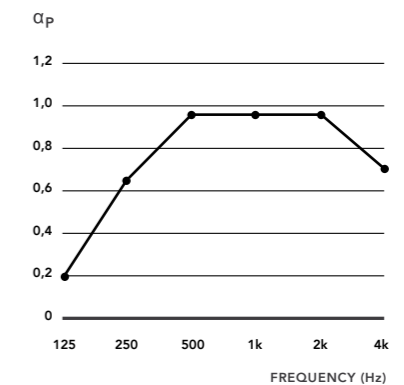
Class D

AS PER ASTM C423:

NRC = 0.7

LINEA 9.2.6 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:

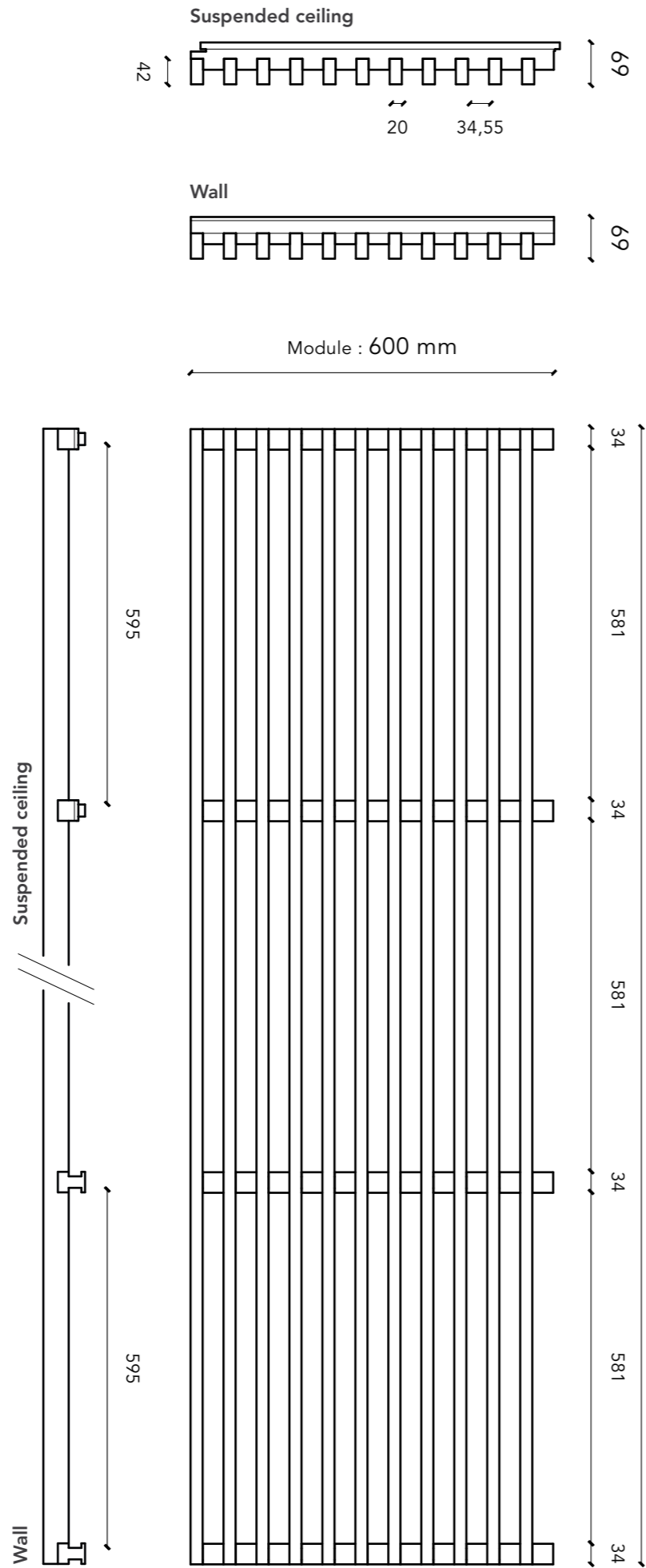
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 2.4.3

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	20 mm (face) x 42 mm (height)
Spacing between slats	34.54 mm
Centre distance of slats	54.54 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	69 mm
Wood species	Pine, Oak, Douglas fir
Surface mass (pine)	12.4 kg/m ²
Surface mass (oak)	16.1 kg/m ²
Surface mass (douglas fir)	12.2 kg/m ²
Surface mass (spruce)	-
Openness percentage	63%

Rear surface: rigid acoustic rock wool tiles 120 kg/m³ surfaced with a black gauze (format : 600 x 600 mm; 20 mm or 22 mm thick)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

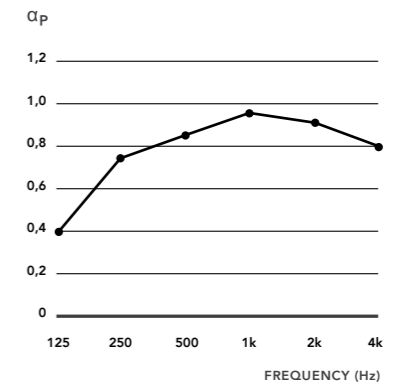
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated in compliance with the ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.4.3 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.9$

ABSORPTION CLASS:

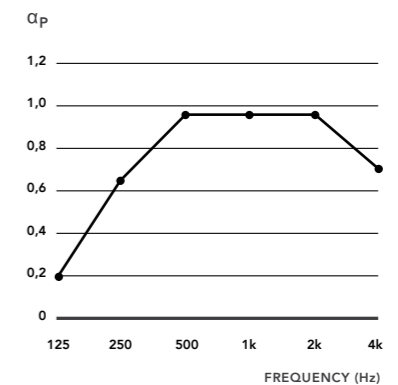
Class A

AS PER ASTM C423:

NRC = 0.9

LINEA 2.4.3 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:

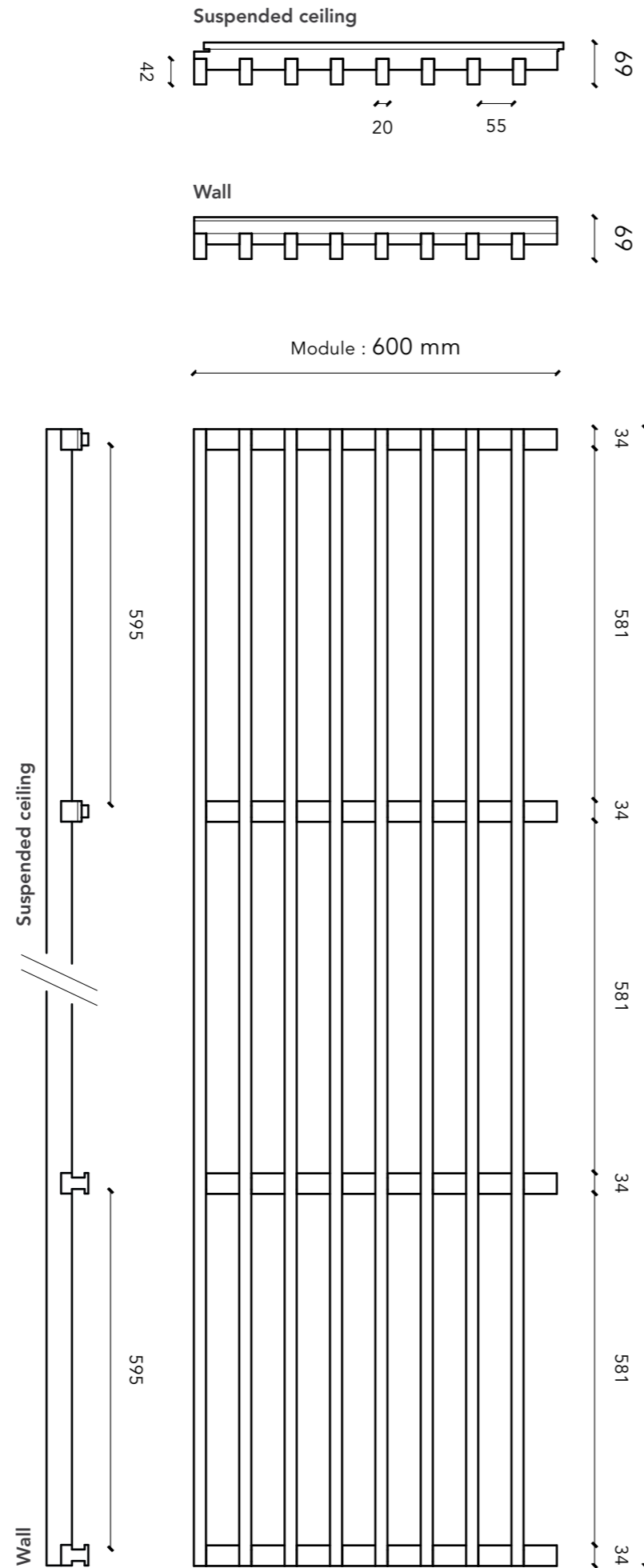
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 2.4.5

LINEA RANGE
INTERIOR



FINISH / REACTION TO FIRE (AS PER EN 13501-1)

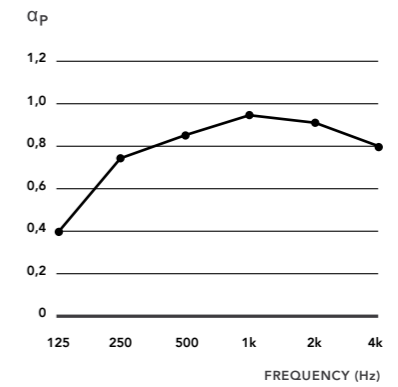
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.4.5 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.9$

ABSORPTION CLASS:
Class A

AS PER ASTM C423:
NRC = 0.9

TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	20 mm (face) x 42 mm (height)
Spacing between slats	55 mm
Centre distance of slats	75 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	69 mm
Wood species	Pine, Oak, Douglas fir
Surface mass (pine)	9.7 kg/m ²
Surface mass (oak)	12.25 kg/m ²
Surface mass (douglas fir)	9.6 kg/m ²
Openness percentage	73%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

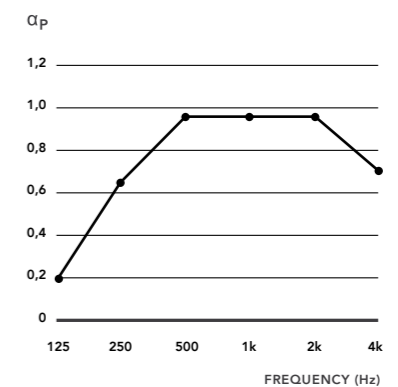
- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

LINEA 2.4.5 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

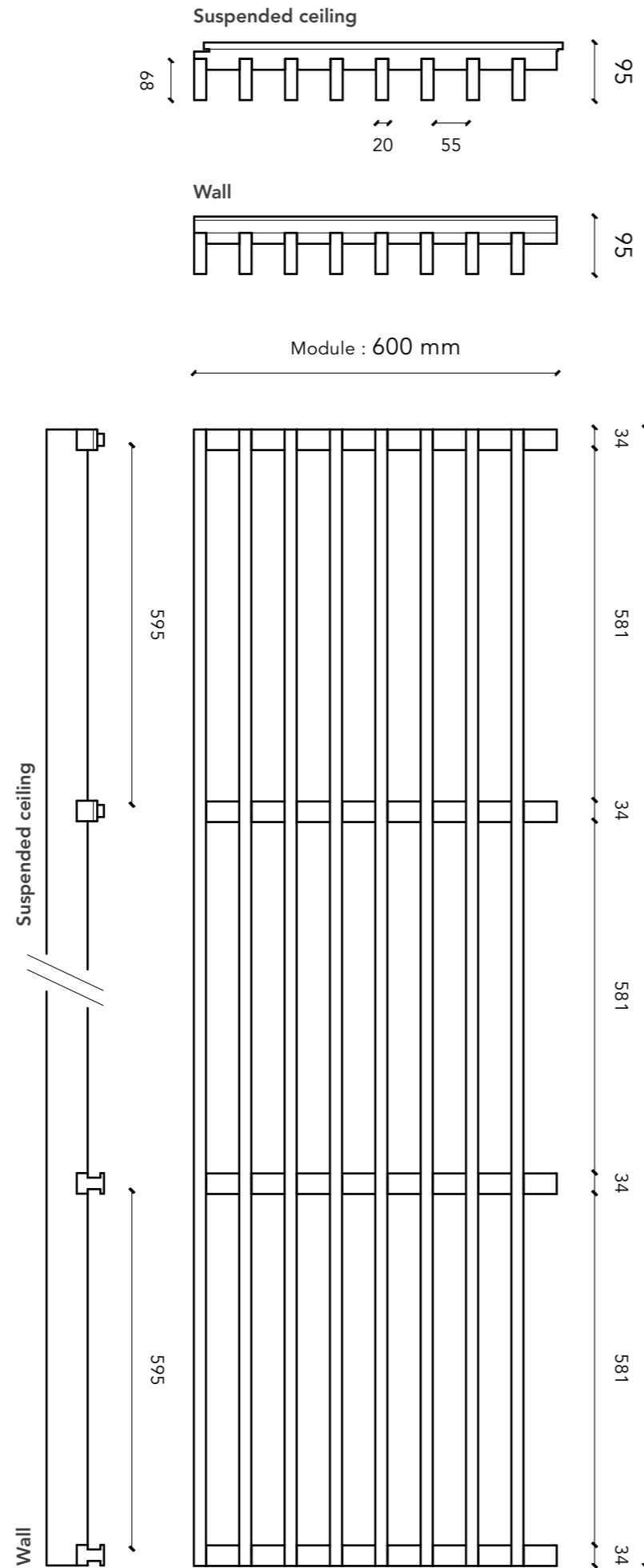
$\alpha_w = 0.85$

ABSORPTION CLASS:
Class B

AS PER ASTM C423:
NRC = 0.9

LINEA 2.6.5

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	20 mm (face) x 68 mm (height)
Spacing between slats	55 mm
Centre distance of slats	75 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	95 mm
Wood species	Pine, Oak, Douglas fir
Surface mass (pine)	15.4 kg/m ²
Surface mass (oak)	19.5 kg/m ²
Surface mass (douglas fir)	15.2 kg/m ²
Openness percentage	73%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

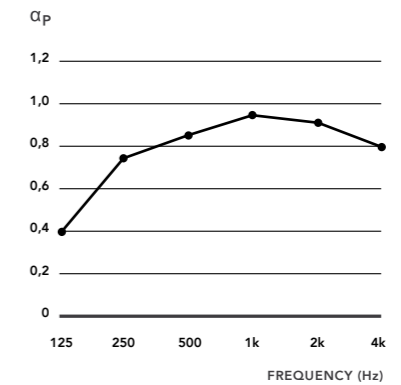
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.6.5 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.9$

ABSORPTION CLASS:

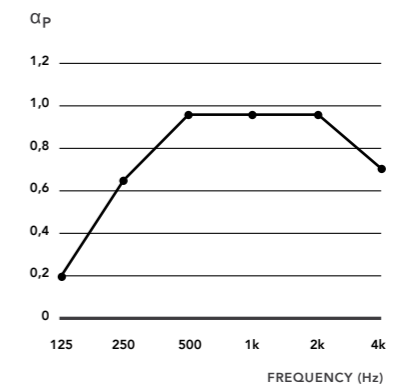
Class A

AS PER ASTM C423:

NRC = 0.9

LINEA 2.6.5 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:

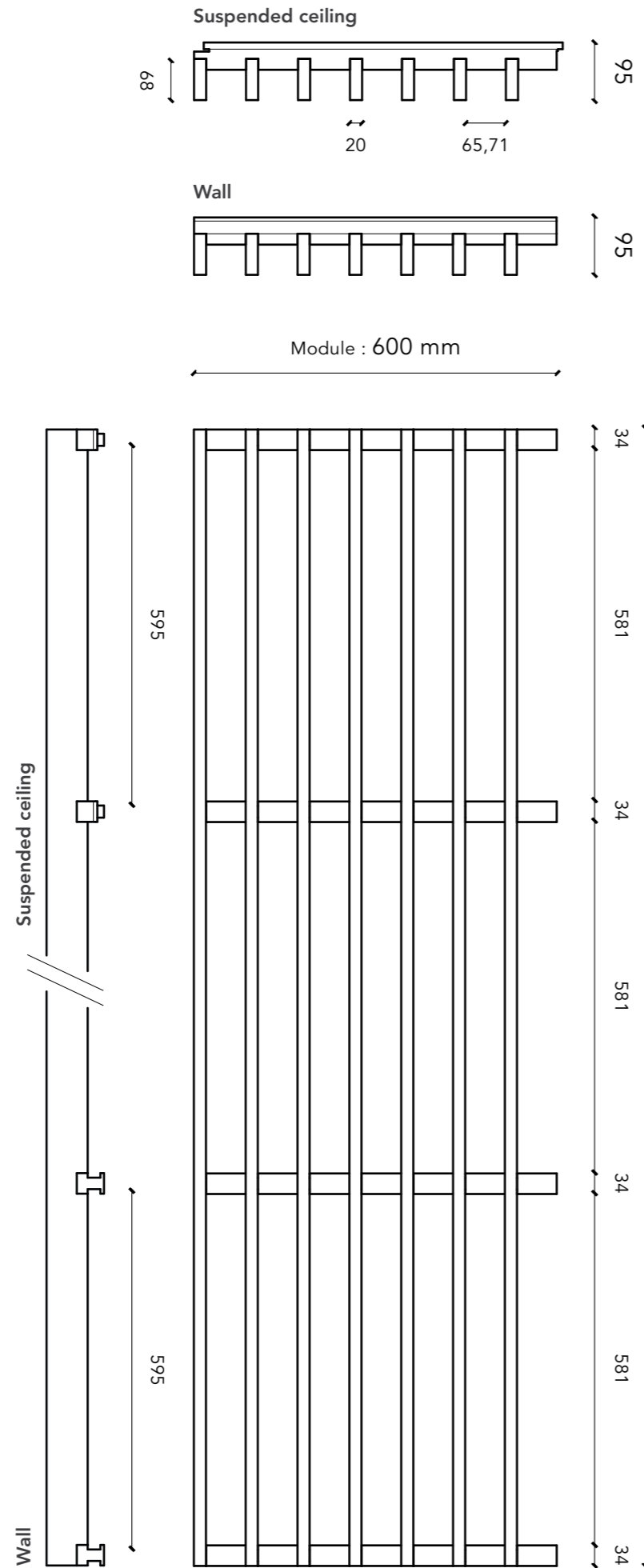
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 2.6.6

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	20 mm (face) x 68 mm (height)
Spacing between slats	65.71 mm
Centre distance of slats	85.71 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	95 mm
Wood species	Pine, Oak, Douglas fir
Surface mass (pine)	13 kg/m ²
Surface mass (oak)	16.7 kg/m ²
Surface mass (douglas fir)	12.9 kg/m ²
Openness percentage	77%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

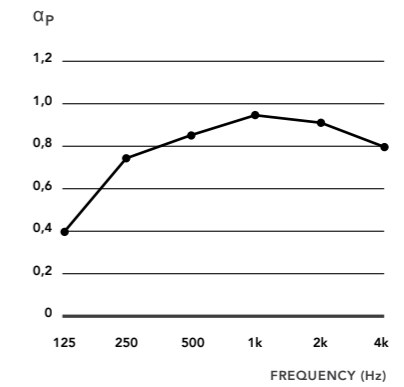
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.6.6 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.9$

ABSORPTION CLASS:

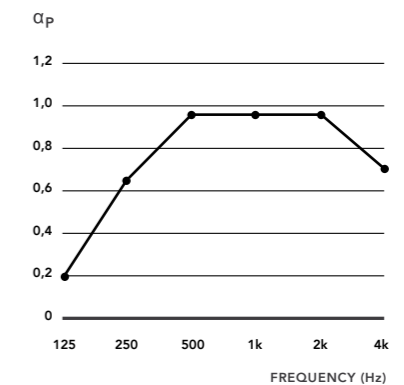
Class A

AS PER ASTM C423:

NRC = 0.9

LINEA 2.6.6 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:

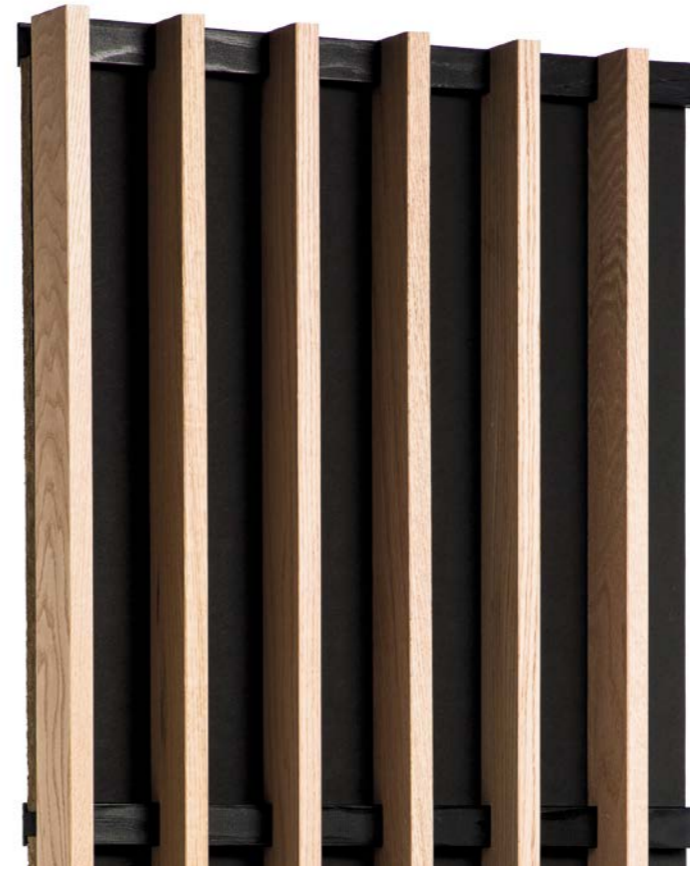
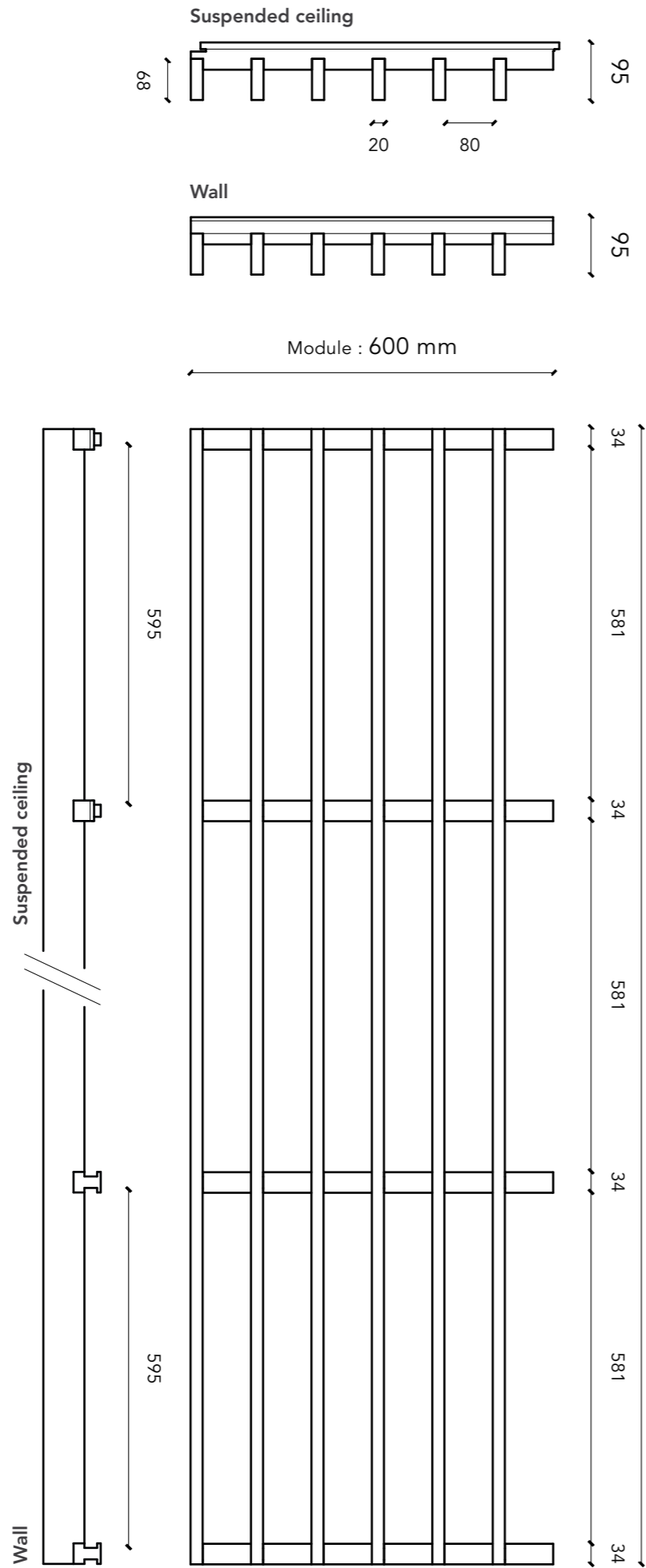
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 2.6.8

LINEA RANGE
INTERIOR



FINISH / REACTION TO FIRE (AS PER EN 13501-1)

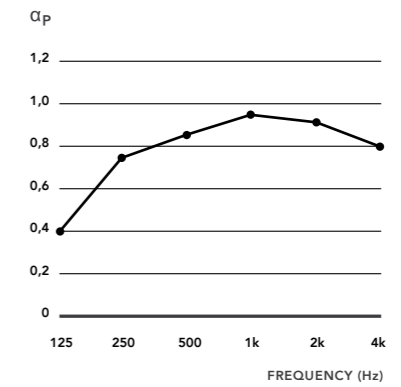
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.6.8 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.9$

ABSORPTION CLASS:

Class A

AS PER ASTM C423:

NRC = 0.9

TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	20 mm (face) x 68 mm (height)
Spacing between slats	80 mm
Centre distance of slats	100 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	95 mm
Wood species	Pine, Oak, Douglas fir
Surface mass (pine)	11.7 kg/m ²
Surface mass (oak)	14.8 kg/m ²
Surface mass (douglas fir)	11.55 kg/m ²
Openness percentage	80%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

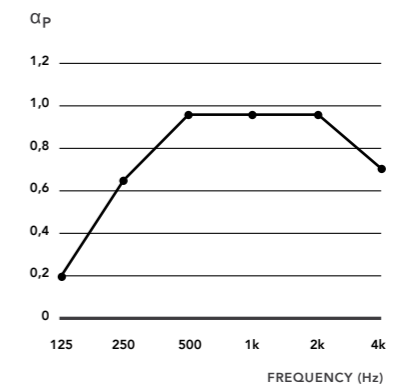
- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

LINEA 2.6.8 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:

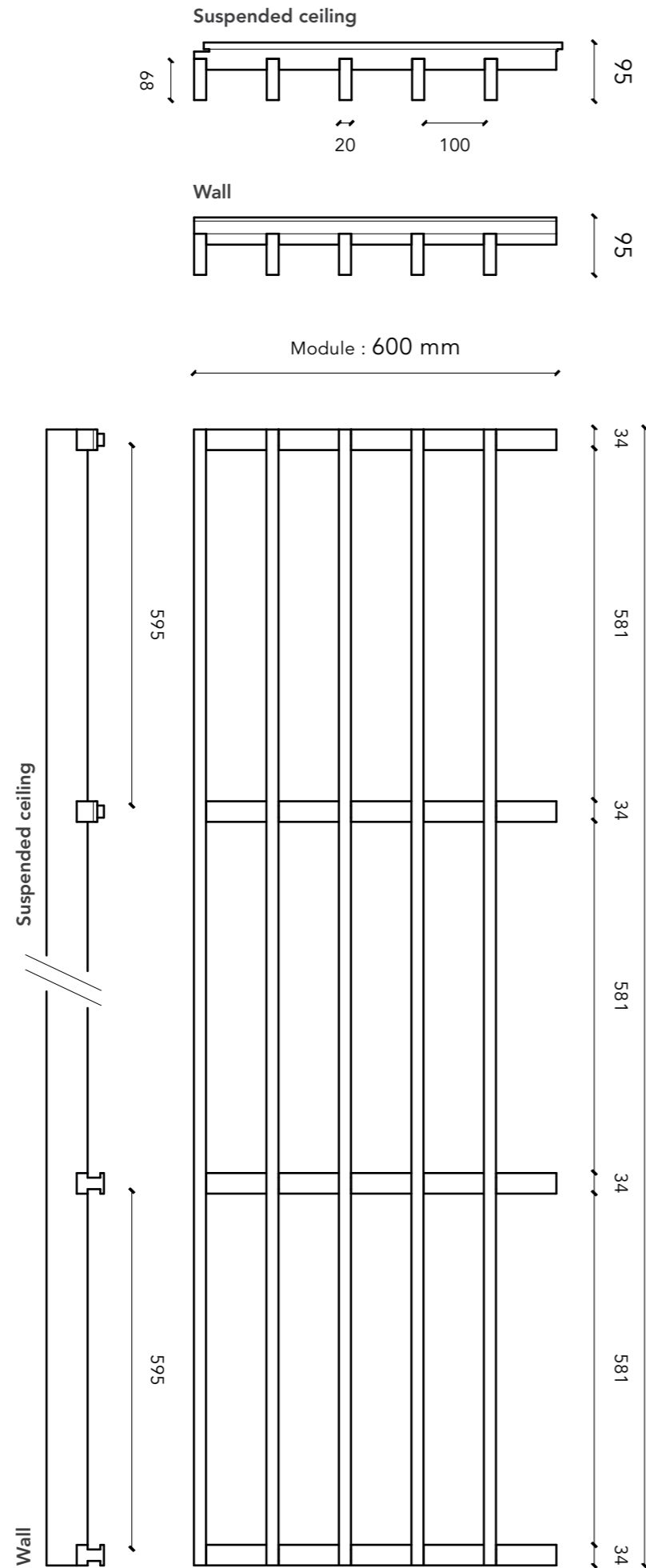
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 2.6.10

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm and 1265 x 600 mm
Cross-section of slats	20 mm (face) x 68 mm (height)
Spacing between slats	100 mm
Centre distance of slats	120 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	95 mm
Wood species	Pine, Oak, Douglas fir
Surface mass (pine)	11.7 kg/m ²
Surface mass (oak)	14.8 kg/m ²
Surface mass (douglas fir)	11.55 kg/m ²
Openness percentage	83%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

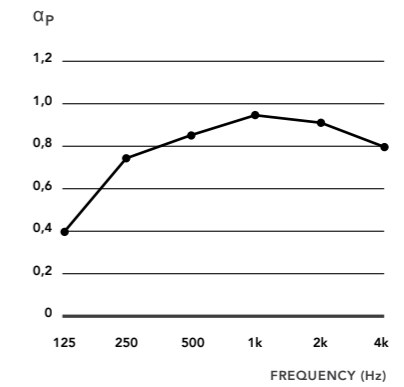
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.6.10 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$$\alpha_w = 0.9$$

ABSORPTION CLASS:

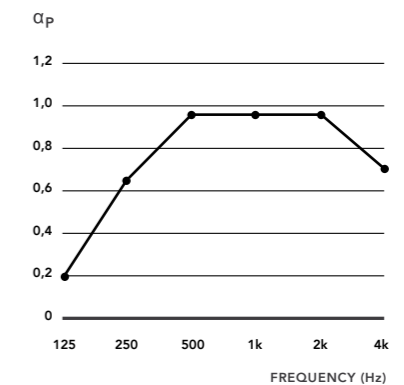
Class A

AS PER ASTM C423:

NRC = 0.9

LINEA 2.6.10 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$$\alpha_w = 0.85$$

ABSORPTION CLASS:

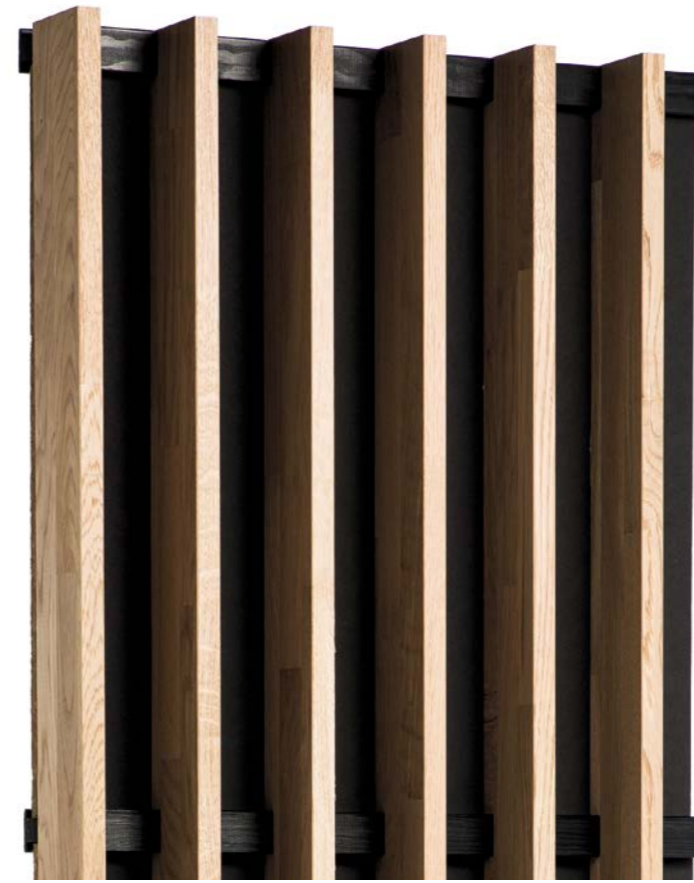
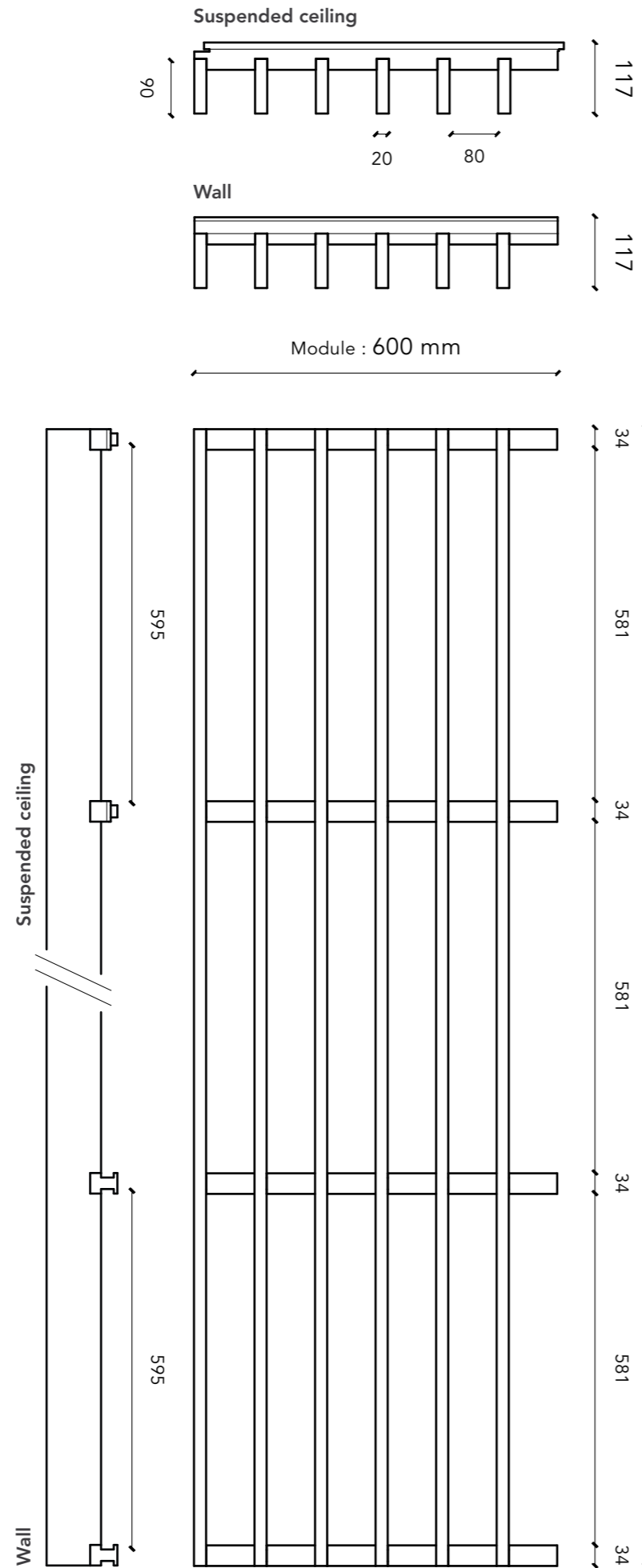
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 2.9.8

LINEA RANGE
INTERIOR



FINISH / REACTION TO FIRE (AS PER EN 13501-1)

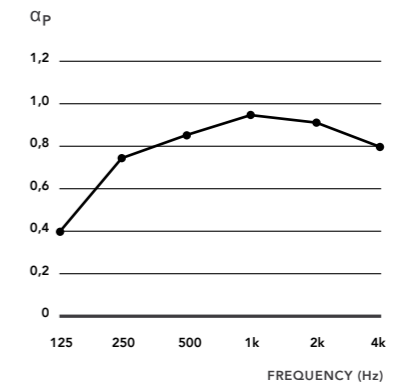
Natural	D-s2,d0
Clear varnish	D-s2,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.9.8 CEILING + LR 20 mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.9$

ABSORPTION CLASS:

Class A

AS PER ASTM C423:

NRC = 0.9

TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm
Cross-section of slats	20 mm (face) x 90 mm (height)
Spacing between slats	80 mm
Centre distance of slats	100 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	117 mm
Wood species	Latted pine, latted oak
Surface mass (pine)	15.3 kg/m ²
Surface mass (oak)	19.4 kg/m ²
Openness percentage	80%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

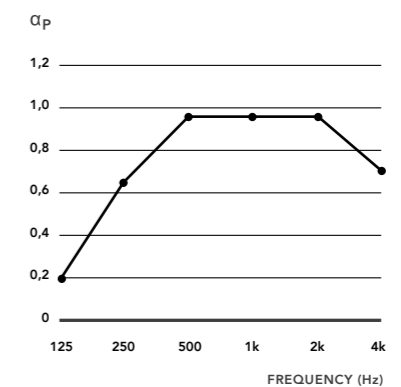
- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

LINEA 2.9.8 WALL + LR 20 mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:

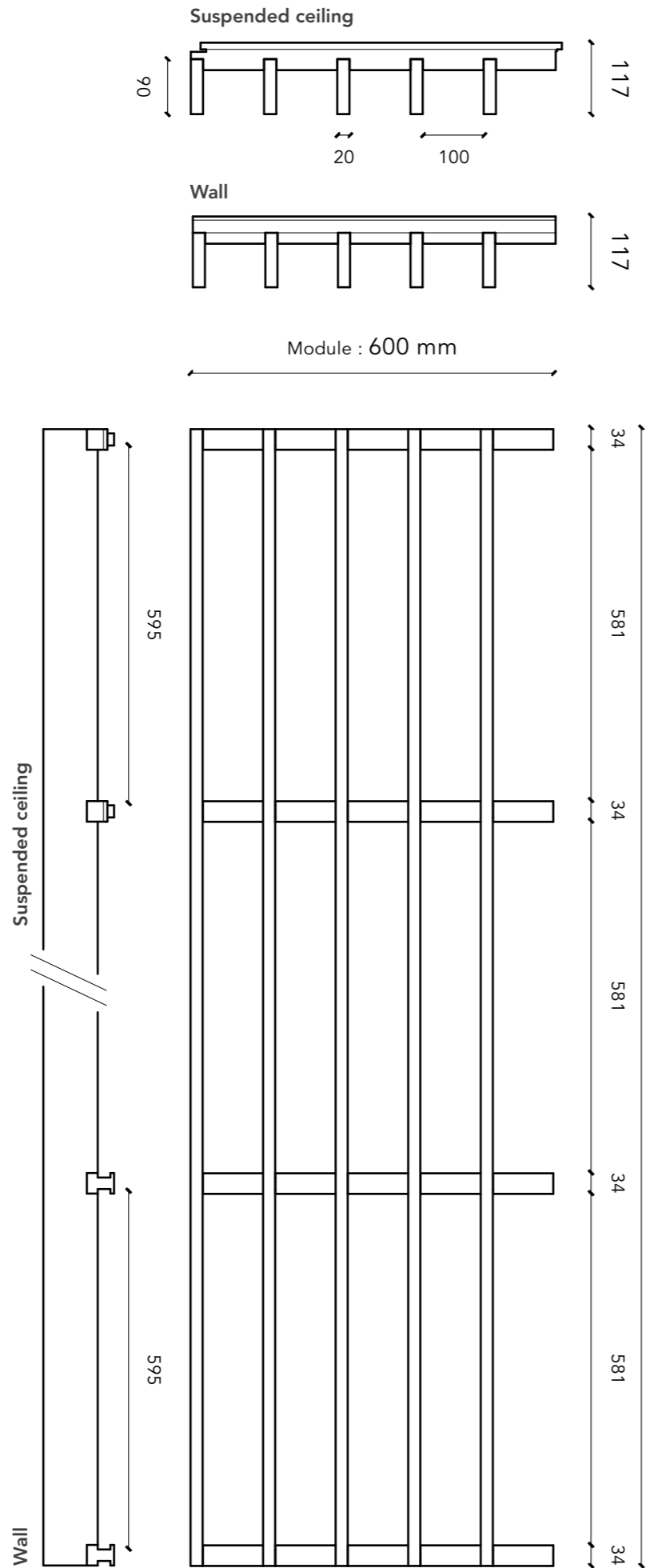
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 2.9.10

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm
Cross-section of slats	20 mm (face) x 90 mm (height)
Spacing between slats	100 mm
Centre distance of slats	120 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	117 mm
Wood species	Latted pine, latted oak
Surface mass (pine)	13.2 kg/m ²
Surface mass (oak)	16.6 kg/m ²
Openness percentage	83%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

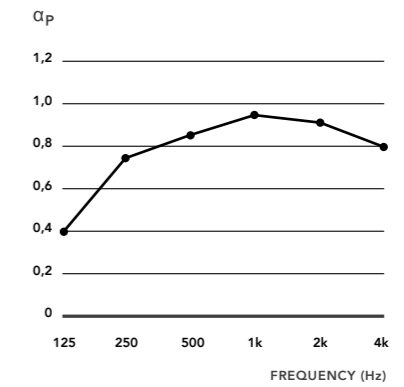
Natural	D-s2,d0
Clear varnish	D-s2,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.9.10 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.9$

ABSORPTION CLASS:

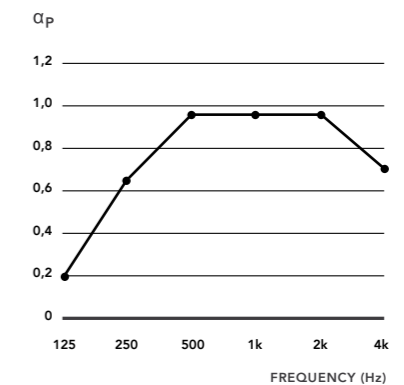
Class A

AS PER ASTM C423:

NRC = 0.9

LINEA 2.9.10 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:

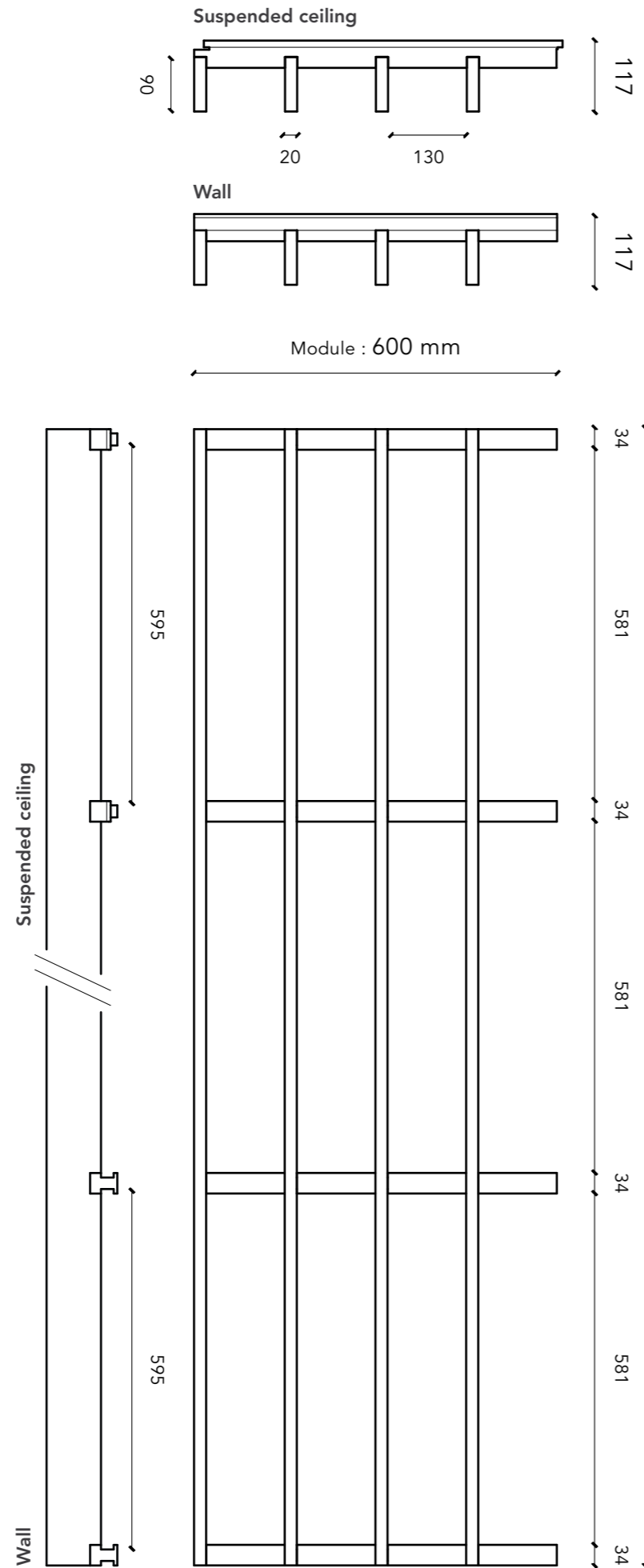
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 2.9.13

LINEA RANGE
INTERIOR



FINISH / REACTION TO FIRE (AS PER EN 13501-1)

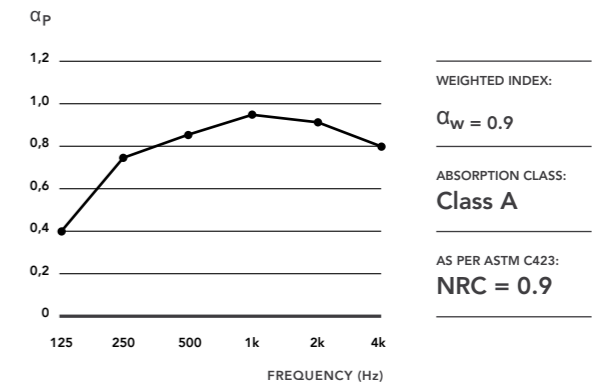
Natural	D-s2,d0
Clear varnish	D-s2,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.9.13 CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm
Cross-section of slats	20 mm (face) x 90 mm (height)
Spacing between slats	130 mm
Centre distance of slats	150 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	117 mm
Wood species	Latted pine, latted oak
Surface mass (pine)	11 kg/m ²
Surface mass (oak)	13.8 kg/m ²
Openness percentage	87%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

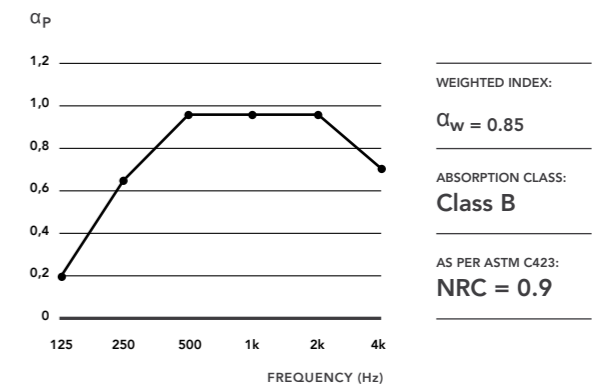
Fitting on T24 grid system:
– As per DTU 58-1
– As per EN 13964

Wall cladding

Mechanical fixing by screwing:
– As per DTU 36-2
– As per EN 14915

LINEA 2.9.13 WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



LINEA SHAPE

LINEA RANGE
INTERIOR

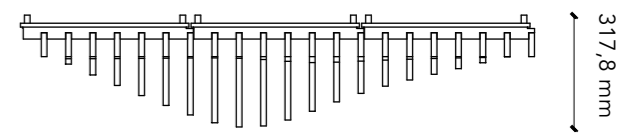
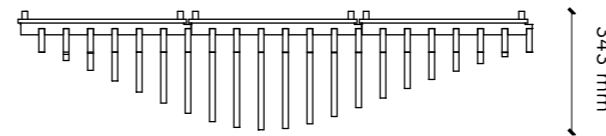
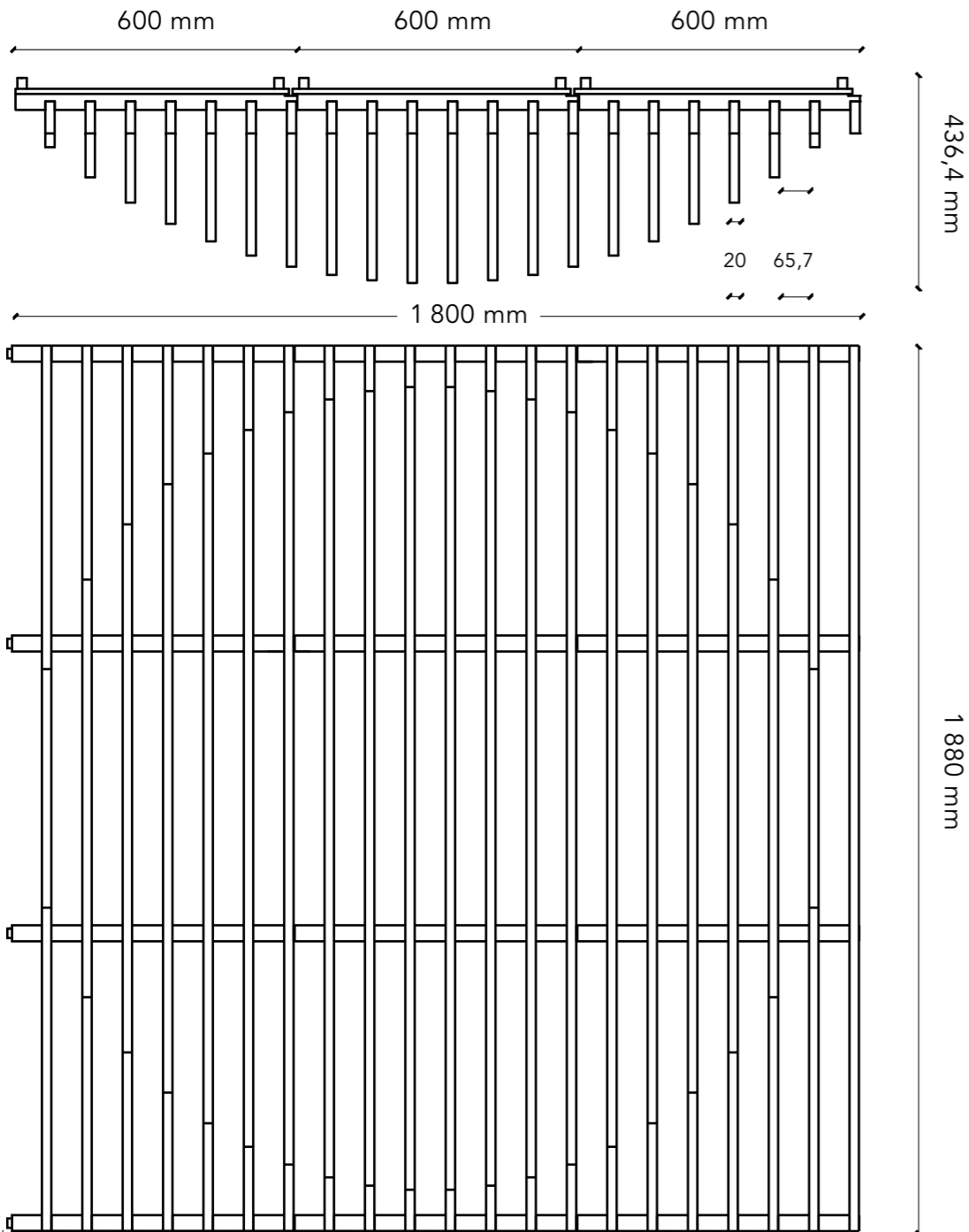
Module 1



Module 2



Module 3



This model is combined with the LINEA 2.6.6 ceiling model to ensure continuity.

TECHNICAL CHARACTERISTICS

Module dimensions	1880 x 1800 mm i.e. 3 panels 1880 x 600 mm
Cross-section of slats	20 mm (face) x 68 mm (height)
Spacing between slats	65.71 mm
Centre distance of slats	85.71 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	depending on module
Wood species	Latted pine, latted oak
Surface mass (pine)	15.5 kg/m ²
Surface mass (oak)	19.7 kg/m ²
Openness percentage	77%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

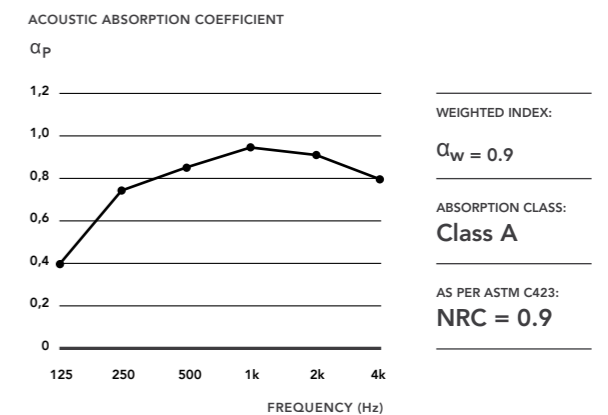
- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

Natural	D-s2,d0
Clear varnish	D-s2,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s2,d0

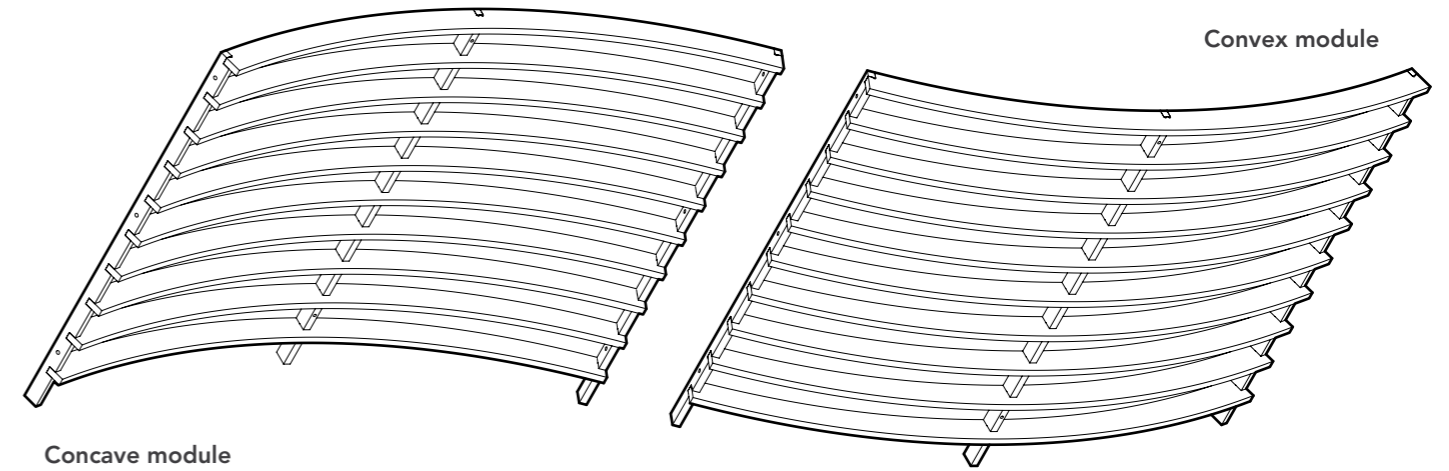
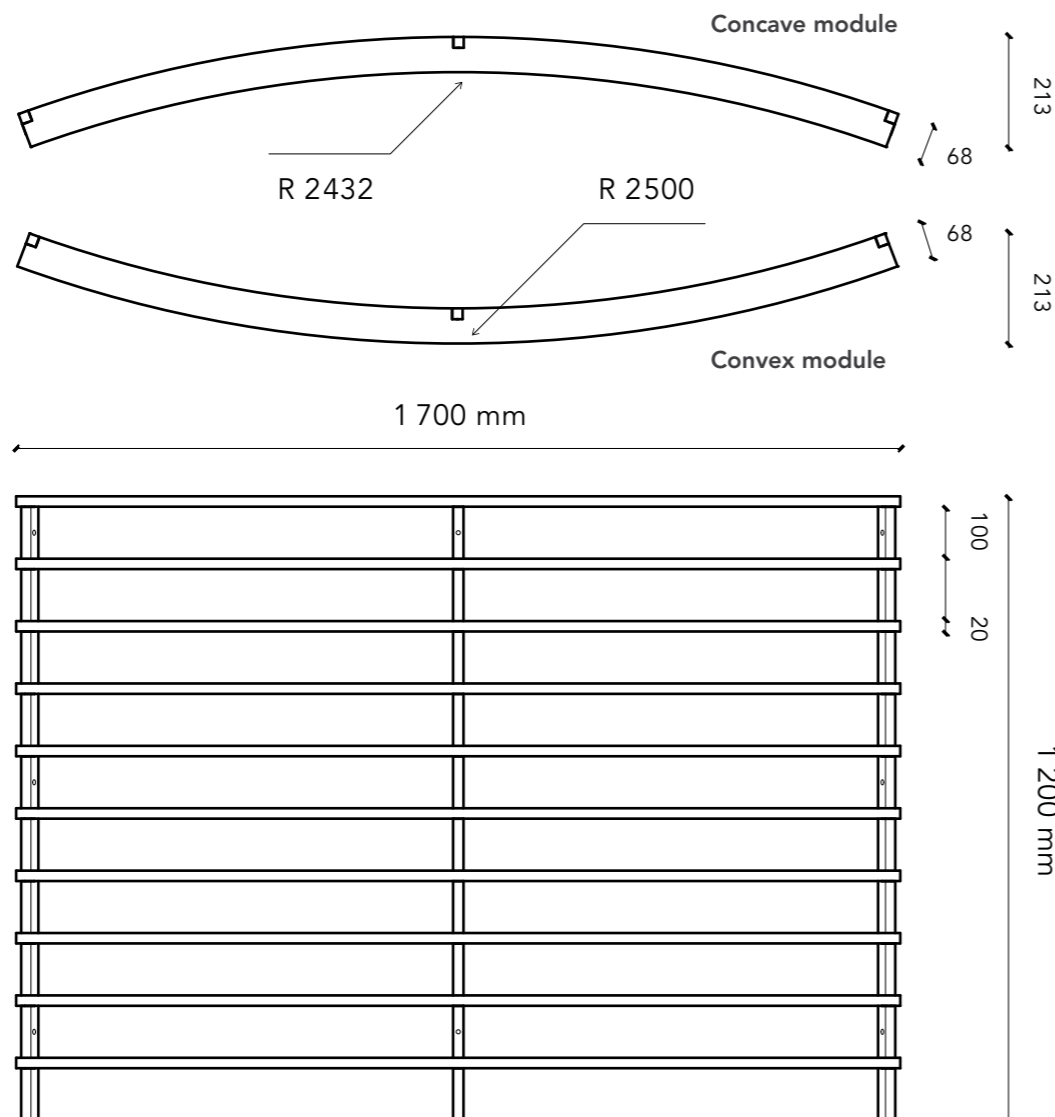
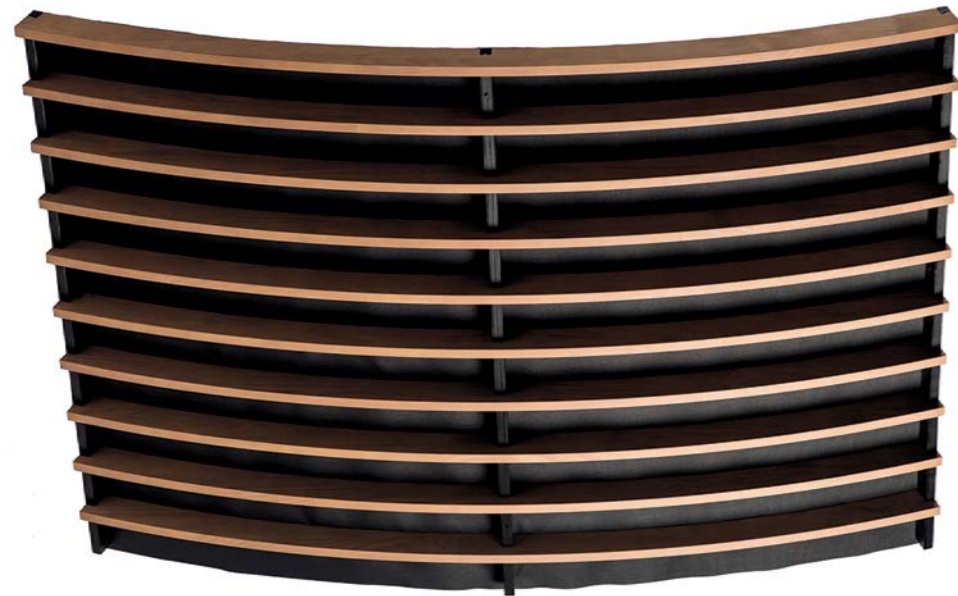
ACOUSTIC RESULTS

LINEA SHAPE CEILING + LR 20mm on E250 mm plenum



LINEA SWELL

LINEA RANGE
INTERIOR



Concave module

Convex module

TECHNICAL CHARACTERISTICS

Panel dimensions	1,720 x 1,200 mm
Cross-section of slats	20 mm (face) x 68 mm (height)
Spacing between slats	100 mm
Centre distance of slats	120 mm
Black rear counter-slats	20 x 42 mm
Overall thickness	213 mm
Wood species	Latted pine, latted oak
Surface mass (pine)	9.8 kg/m ²
Surface mass (oak)	12.4 kg/m ²
Openness percentage	83%

Rear surface: fabric LAU 301; acoustic version with fabric LAU 301 and rock wool 26,5 to 36 kg/m³ (45 mm thick)
Rock wool not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on threaded rods:
– As per DTU 58-1
– As per EN 13964

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

Natural	D-s2,d0
Clear varnish	D-s2,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s2,d0

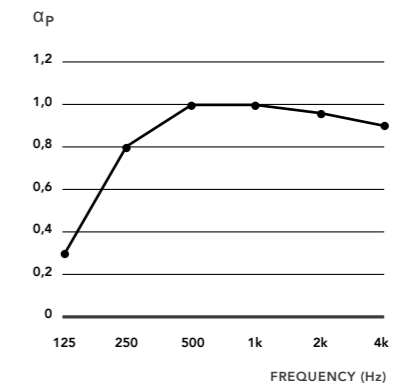
ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA SWELL CEILING

+ LAU 301 + LR 45 mm on E400 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 1$

ABSORPTION CLASS:

Class A

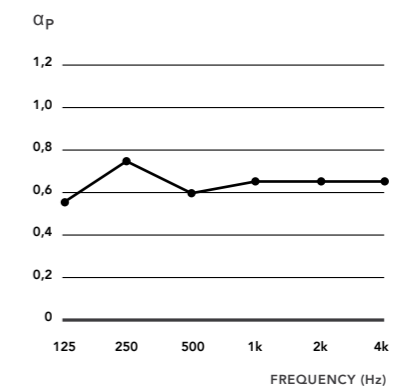
AS PER ASTM C423:

NRC = 0.95

LINEA SWELL CEILING

+ LAU 301 on E400 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.65$

ABSORPTION CLASS:

Class C

AS PER ASTM C423:

NRC = 0.65

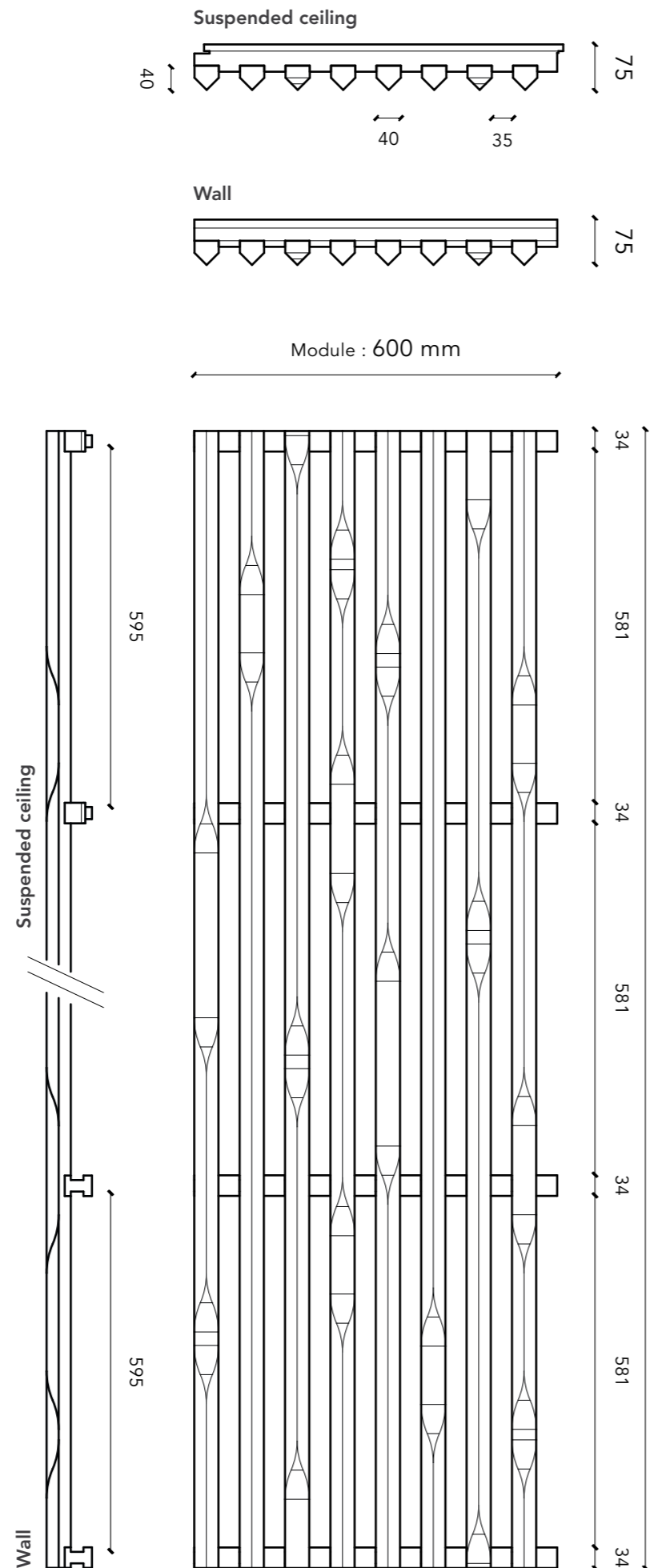
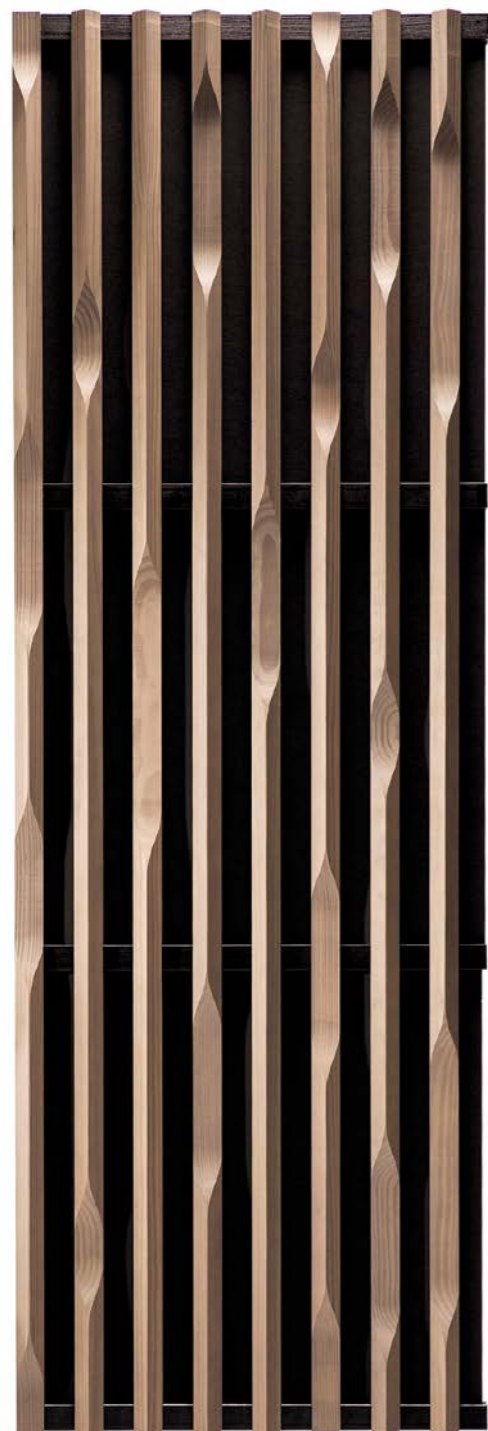
4

—
LINEA 3D
products
—

—
INTERIOR
SUSPENDED CEILING & WALL CLADDING
—

LINEA 3D EDGE

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	2495 x 600 mm and 1880 x 600 mm
Cross-section of slats	40 mm (face) x 40 mm (height)
Spacing between slats	35 mm
Centre distance of slats	75 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	75 mm
Wood species	Pine, Oak
Surface mass (pine)	12.4 kg/m ²
Surface mass (oak)	15.8 kg/m ²
Openness percentage	47%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

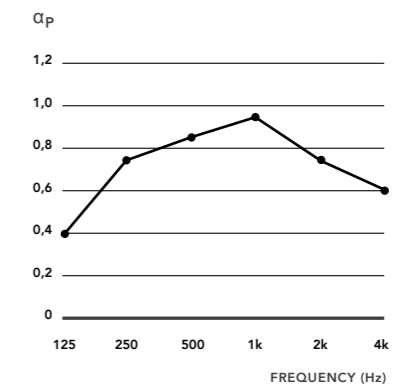
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Clear varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated in compliance with the ISO 11654 standard (LINEA + acoustic supplement).

LINEA 3D EDGE CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

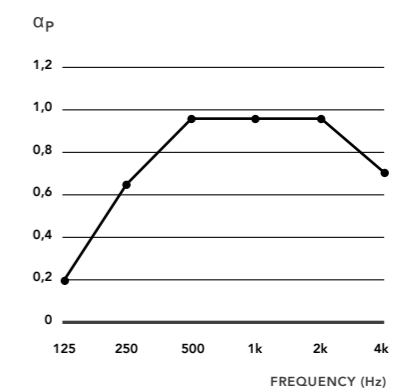
$\alpha_w = 0.75$

ABSORPTION CLASS:
Class C

AS PER ASTM C423:
NRC = 0.85

LINEA 3D EDGE WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

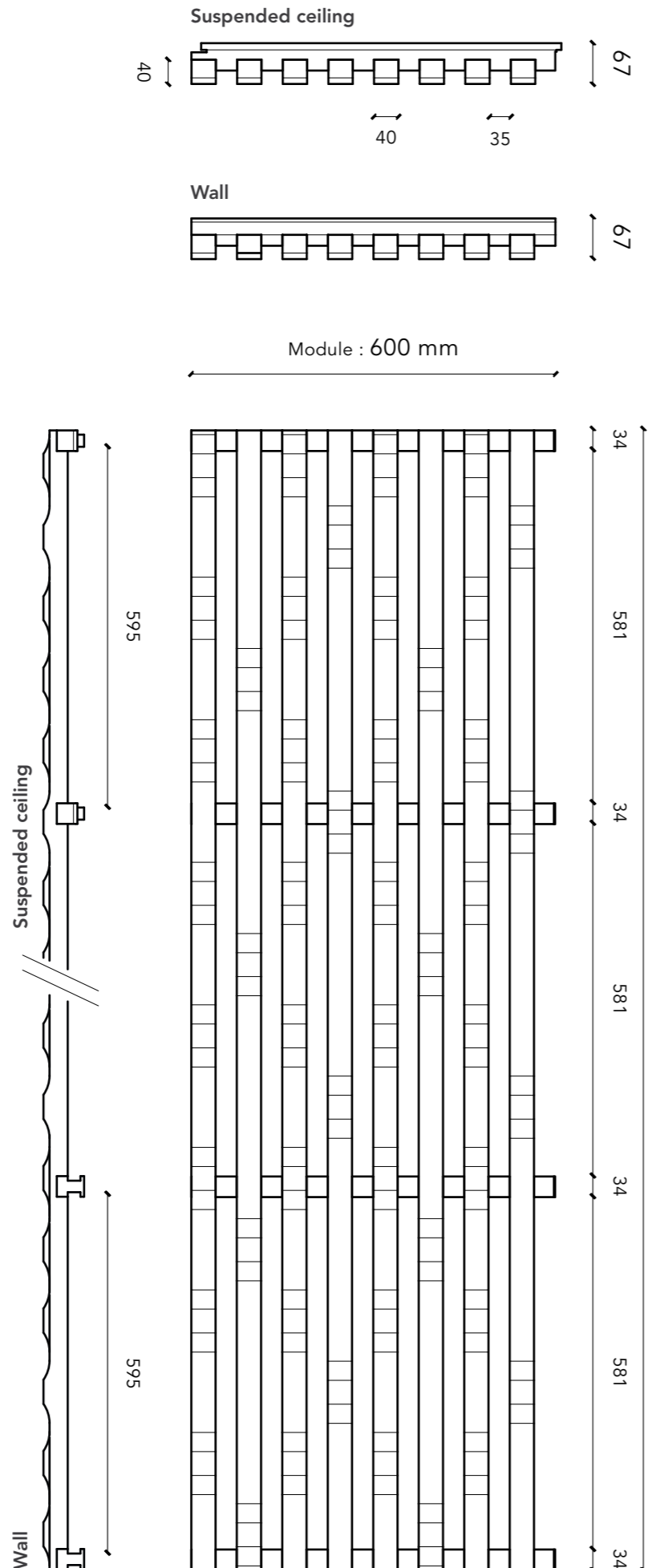
$\alpha_w = 0.85$

ABSORPTION CLASS:
Class B

AS PER ASTM C423:
NRC = 0.9

LINEA 3D PIX

LINEA RANGE
INTERIOR



FINISH / REACTION TO FIRE (AS PER EN 13501-1)

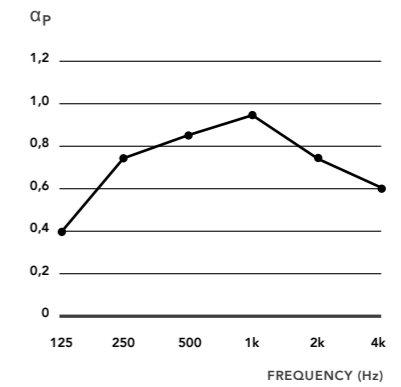
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Clear varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated in compliance with the ISO 11654 standard (LINEA + acoustic supplement).

LINEA 3D PIX CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.75$

ABSORPTION CLASS:

Class C

AS PER ASTM C423:

NRC = 0.85

TECHNICAL CHARACTERISTICS

Panel dimensions	2495 x 600 mm and 1880 x 600 mm
Cross-section of slats	40 mm (face) x 40 mm (height)
Spacing between slats	35 mm
Centre distance of slats	75 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	67 mm
Wood species	Pine, Oak
Surface mass (pine)	13.8 kg/m ²
Surface mass (oak)	17.5 kg/m ²
Openness percentage	47%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

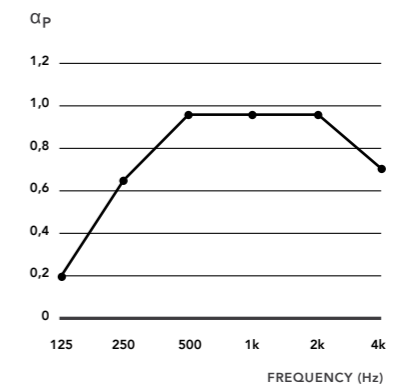
Fitting on T24 grid system:
– As per DTU 58-1
– As per EN 13964

Wall cladding

Mechanical fixing by screwing:
– As per DTU 36-2
– As per EN 14915

LINEA 3D PIX WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:

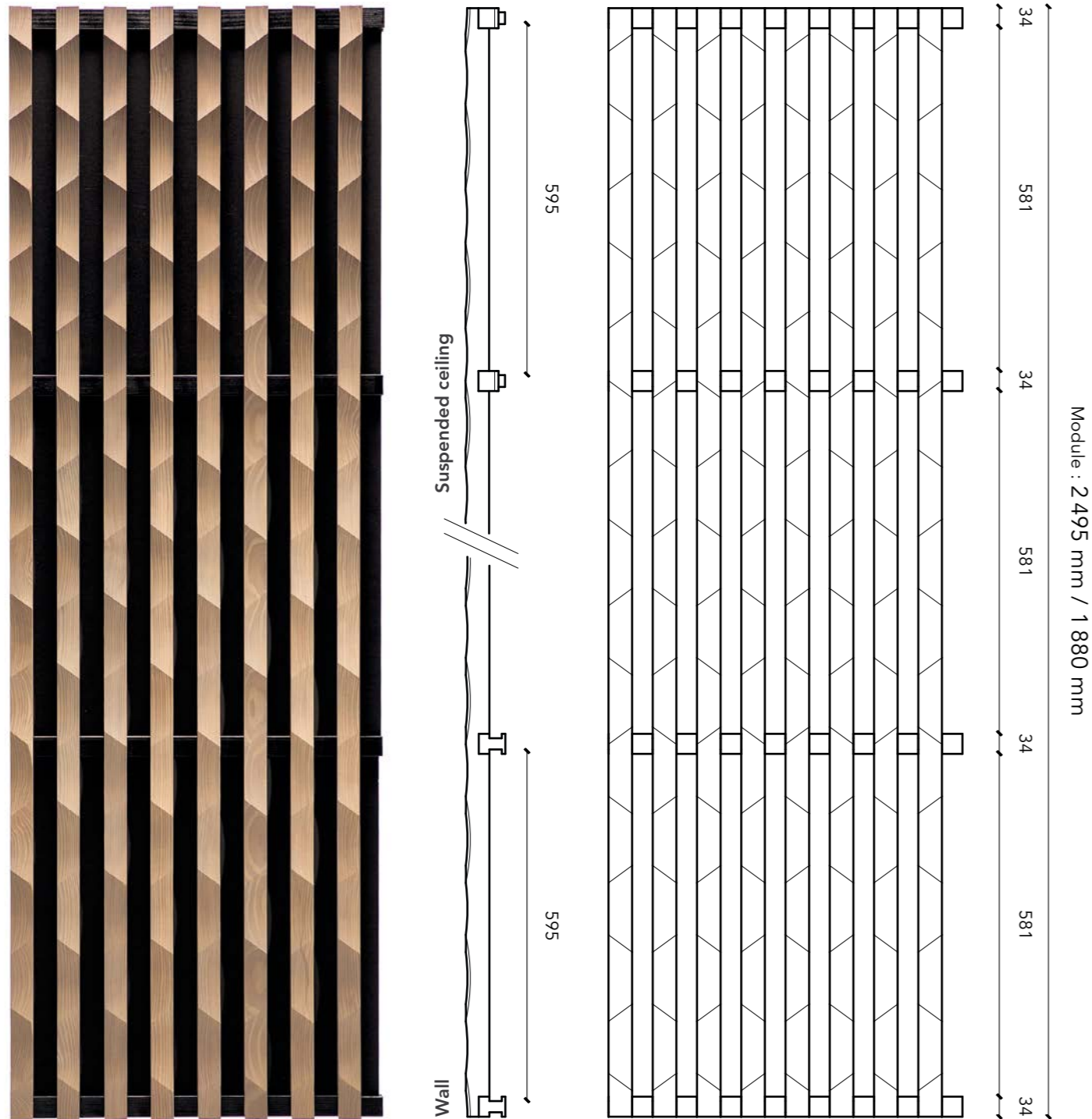
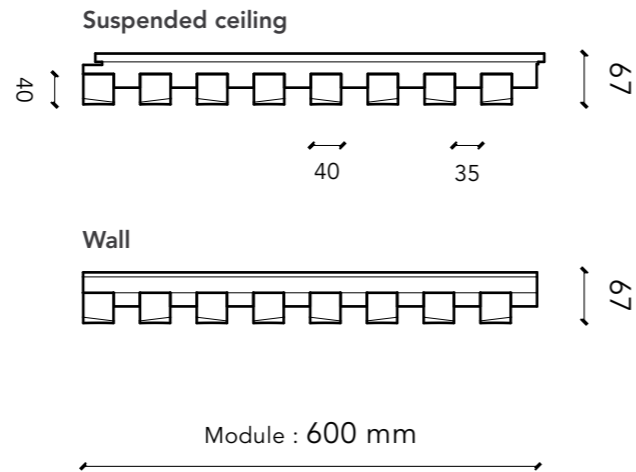
Class B

AS PER ASTM C423:

NRC = 0.9

LINEA 3D SCALE

LINEA RANGE
INTERIOR



FINISH / REACTION TO FIRE (AS PER EN 13501-1)

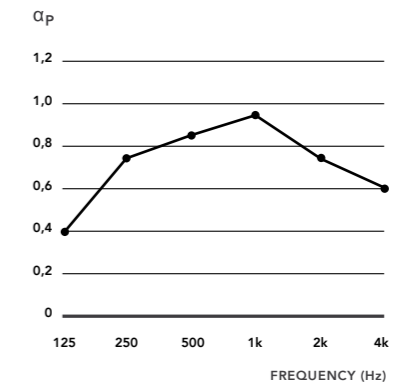
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Clear varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated in compliance with the ISO 11654 standard (LINEA + acoustic supplement).

LINEA 3D SCALE CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.75$

ABSORPTION CLASS:
Class C

AS PER ASTM C423:
NRC = 0.85

TECHNICAL CHARACTERISTICS

Panel dimensions	2495 x 600 mm and 1880 x 600 mm
Cross-section of slats	40 mm (face) x 40 mm (height)
Spacing between slats	35 mm
Centre distance of slats	75 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	67 mm
Wood species	Pine, Oak
Surface mass (pine)	15.3 kg/m ²
Surface mass (oak)	19.6 kg/m ²
Openness percentage	47%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

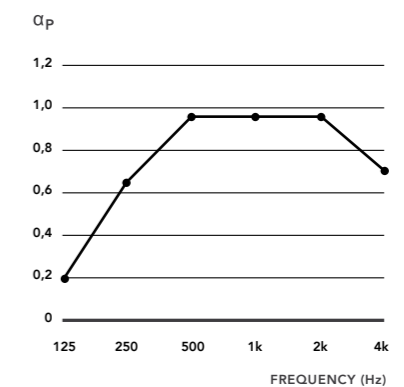
Fitting on T24 grid system:
– As per DTU 58-1
– As per EN 13964

Wall cladding

Mechanical fixing by screwing:
– As per DTU 36-2
– As per EN 14915

LINEA 3D SCALE WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

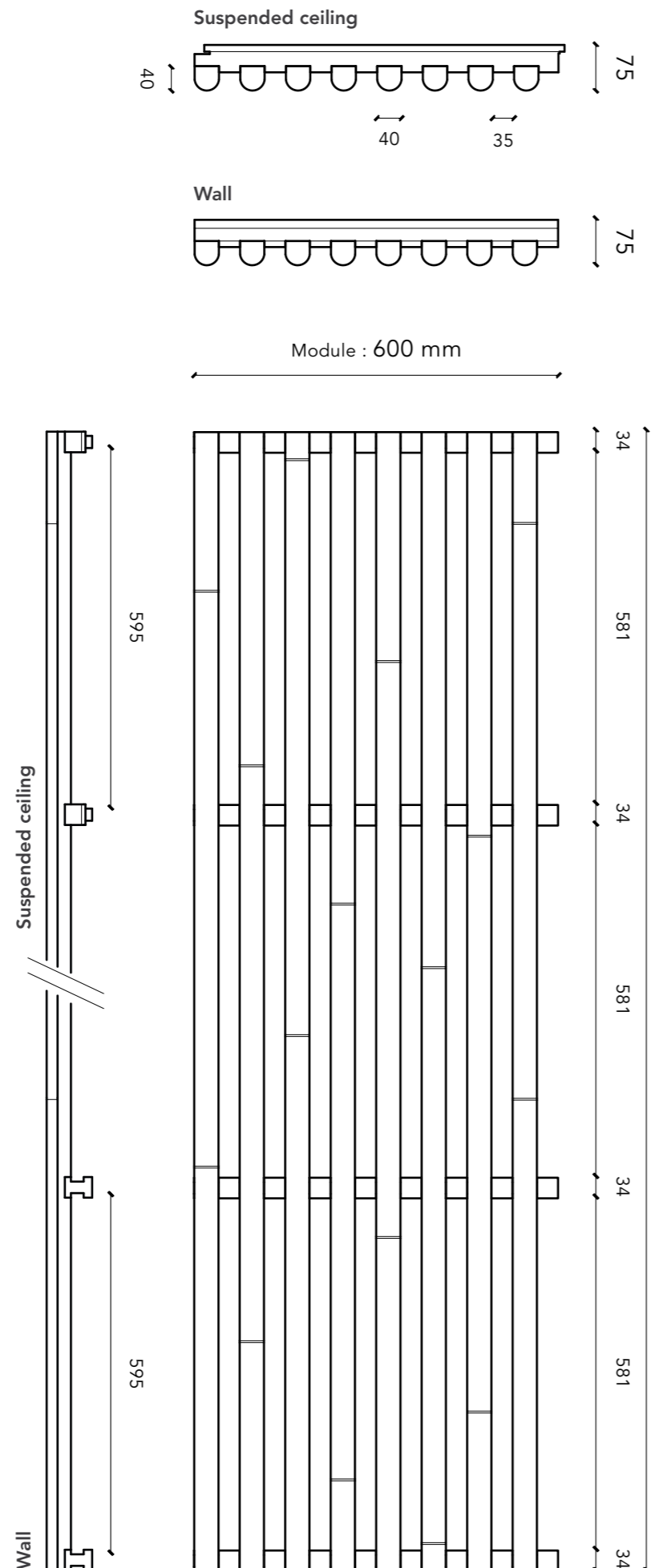
$\alpha_w = 0.85$

ABSORPTION CLASS:
Class B

AS PER ASTM C423:
NRC = 0.9

LINEA 3D BAMBOO

LINEA RANGE
INTERIOR



FINISH / REACTION TO FIRE (AS PER EN 13501-1)

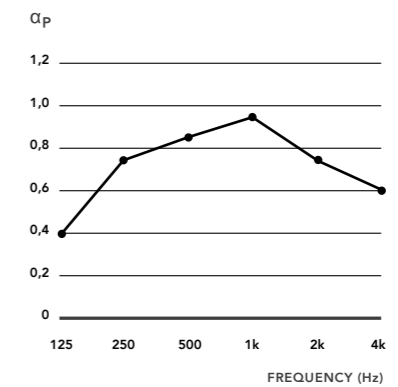
Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Clear varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated in compliance with the ISO 11654 standard (LINEA + acoustic supplement).

LINEA 3D BAMBOO CEILING + LR 20mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.75$

ABSORPTION CLASS:
Class C

AS PER ASTM C423:
NRC = 0.85

TECHNICAL CHARACTERISTICS

Panel dimensions	2495 x 600 mm and 1880 x 600 mm
Cross-section of slats	40 mm (face) x 40 mm (height)
Spacing between slats	35 mm
Centre distance of slats	75 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	75 mm
Wood species	Pine, Oak
Surface mass (pine)	15.3 kg/m ²
Surface mass (oak)	19.6 kg/m ²
Openness percentage	47%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

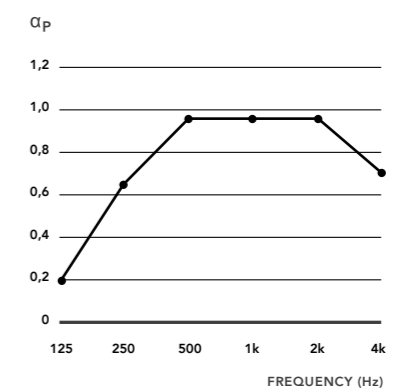
- Fitting on T24 grid system:
- As per DTU 58-1
- As per EN 13964

Wall cladding

- Mechanical fixing by screwing:
- As per DTU 36-2
- As per EN 14915

LINEA 3D BAMBOO WALL + LR 20mm on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

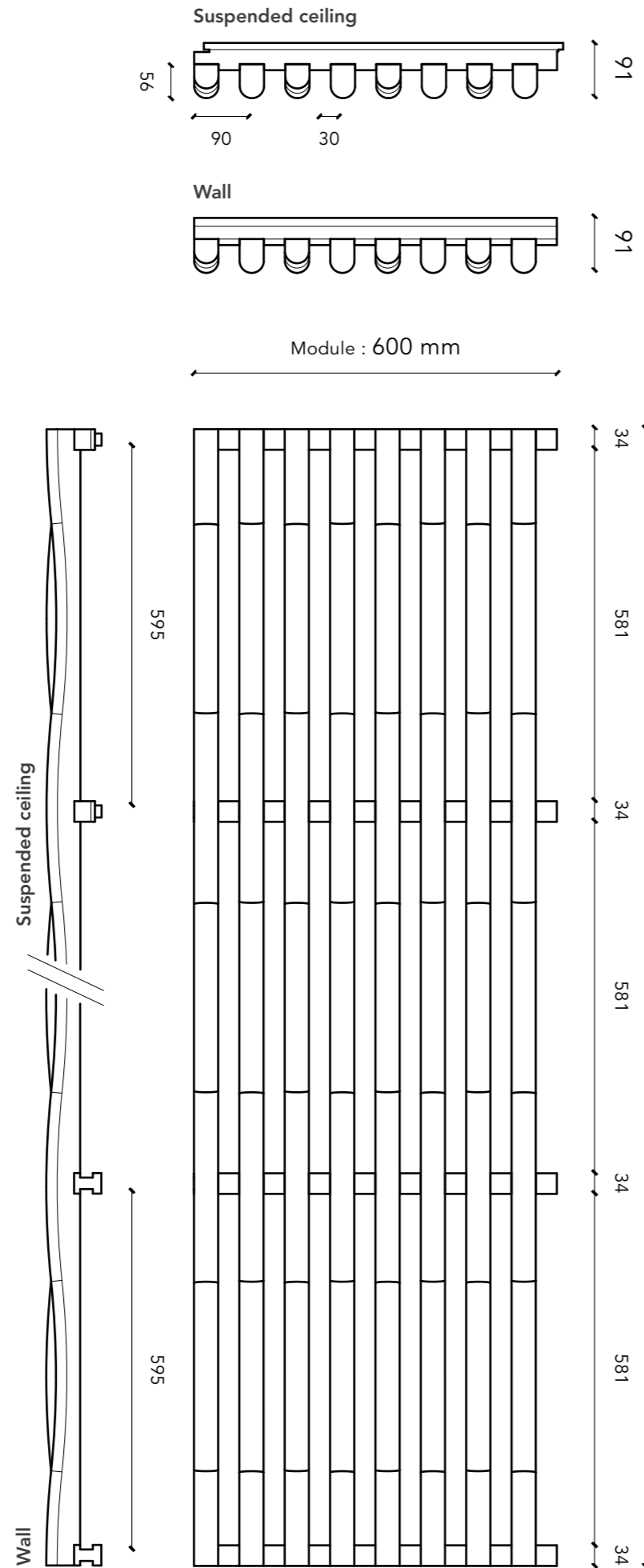
$\alpha_w = 0.85$

ABSORPTION CLASS:
Class B

AS PER ASTM C423:
NRC = 0.9

LINEA 3D BAMBOO WAVE

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	2495 x 600 mm and 1880 x 600 mm
Cross-section of slats	40 mm (face) x 56 mm (height)
Spacing between slats	35 mm
Centre distance of slats	75 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	91 mm
Wood species	Pine, Oak
Surface mass (pine)	18.1 kg/m ²
Surface mass (oak)	23.6 kg/m ²
Openness percentage	47%

Rear surface: acoustic mineral wool tiles 120 kg/m³ surfaced with black fleece facing (format : 600 x 600 mm; 20 mm or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system:
– As per DTU 58-1
– As per EN 13964

Wall cladding

Mechanical fixing by screwing:
– As per DTU 36-2
– As per EN 14915

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

Natural	D-s2,d0 / B-s1,d0 / B-s2,d0
Clear varnish	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0

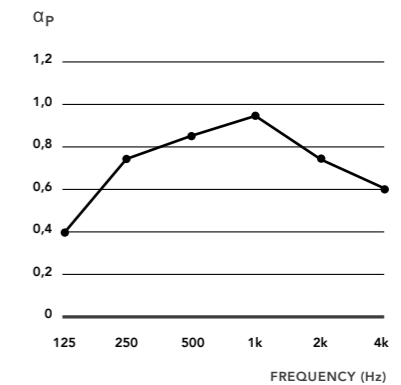
ACOUSTIC RESULTS

Acoustic absorption was measured as per the ISO 354 standard. The various data relating to acoustic absorption (α_p , α_w , absorption class) have been calculated in compliance with the ISO 11654 standard (LINEA + acoustic supplement).

LINEA 3D BAMBOO WAVE CEILING

+ LR 20 mm on E250 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.75$

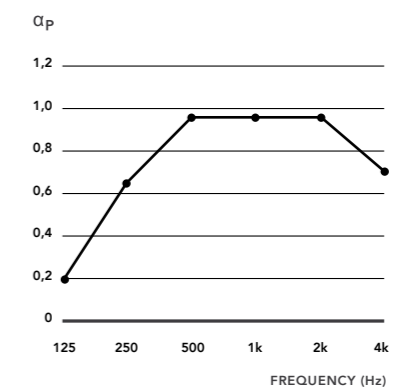
ABSORPTION CLASS:
Class C

AS PER ASTM C423:
NRC = 0.85

LINEA 3D BAMBOO WAVE WALL

+ LR 20 on E50 mm plenum

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX:

$\alpha_w = 0.85$

ABSORPTION CLASS:
Class B

AS PER ASTM C423:
NRC = 0.9

5

Installation

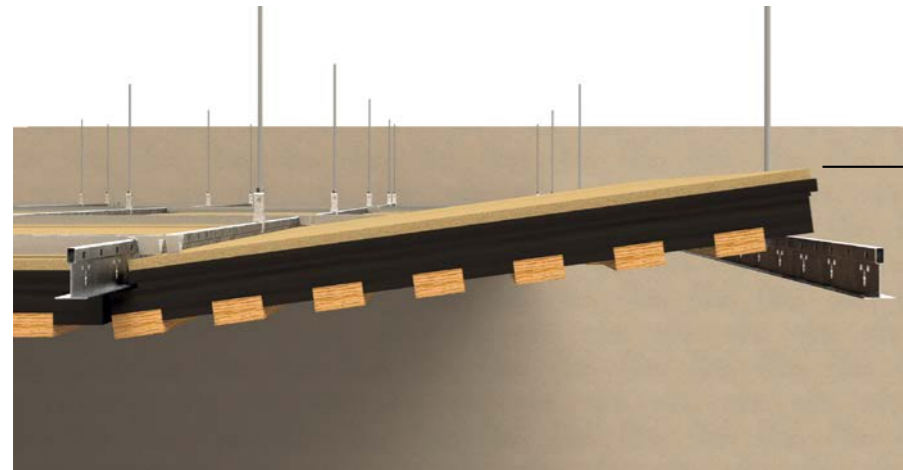
A PATENTED FLEXIBLE INSTALLATION
SYSTEM THAT ADAPTS TO STANDARD
SYSTEMS ON THE MARKET



Installation suspended ceiling

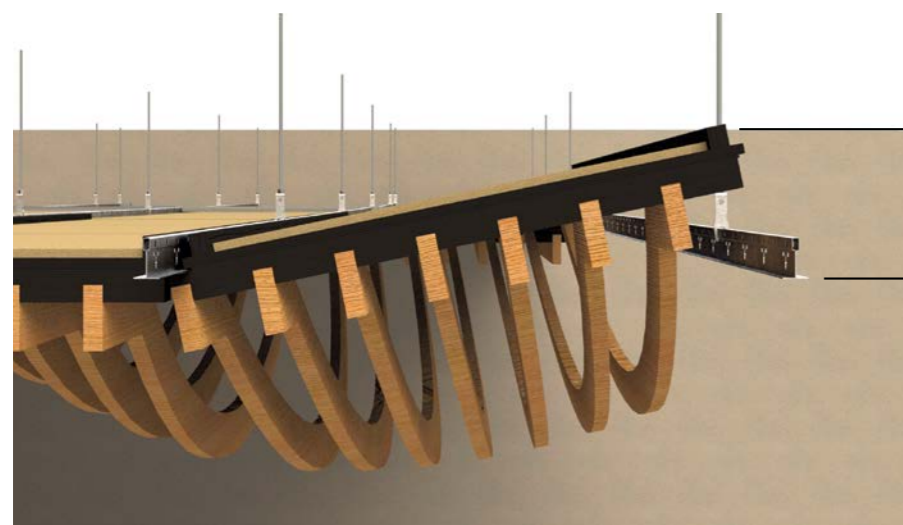
Requirements for installation

Minimum plenum to mount and
dismount panels



Minimum plenum
100 mm

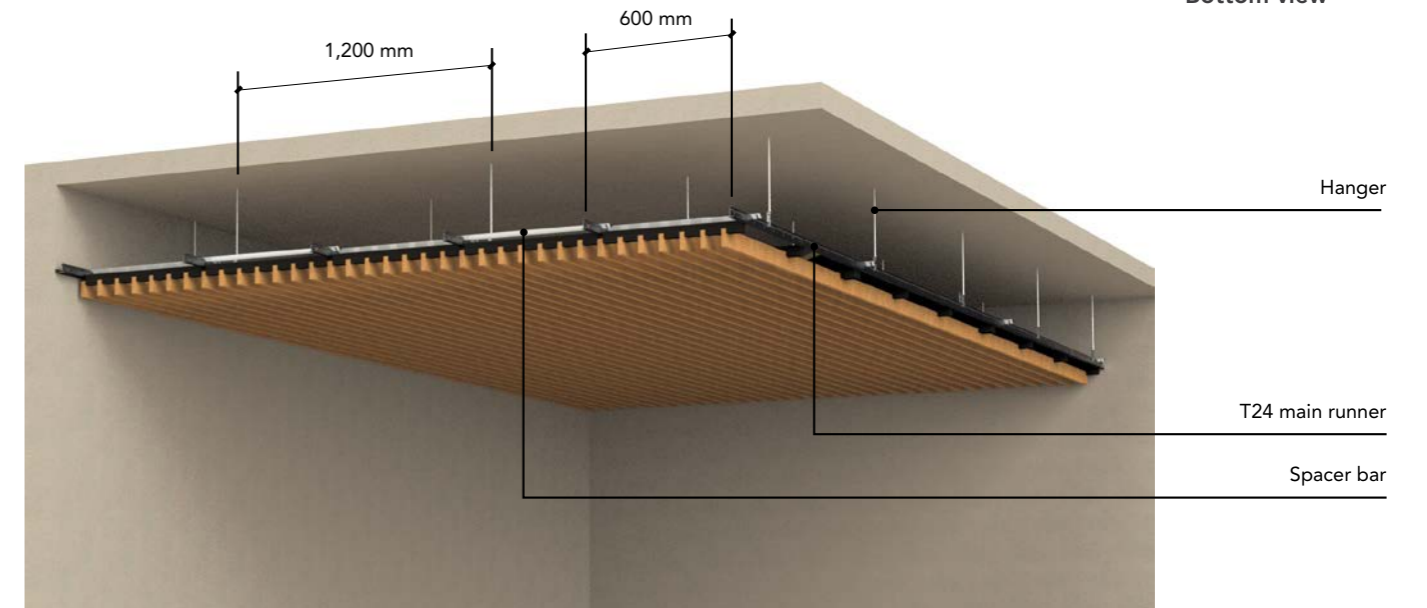
Special case of LINEA SHAPE



Minimum plenum
150 mm

General views

Bottom view

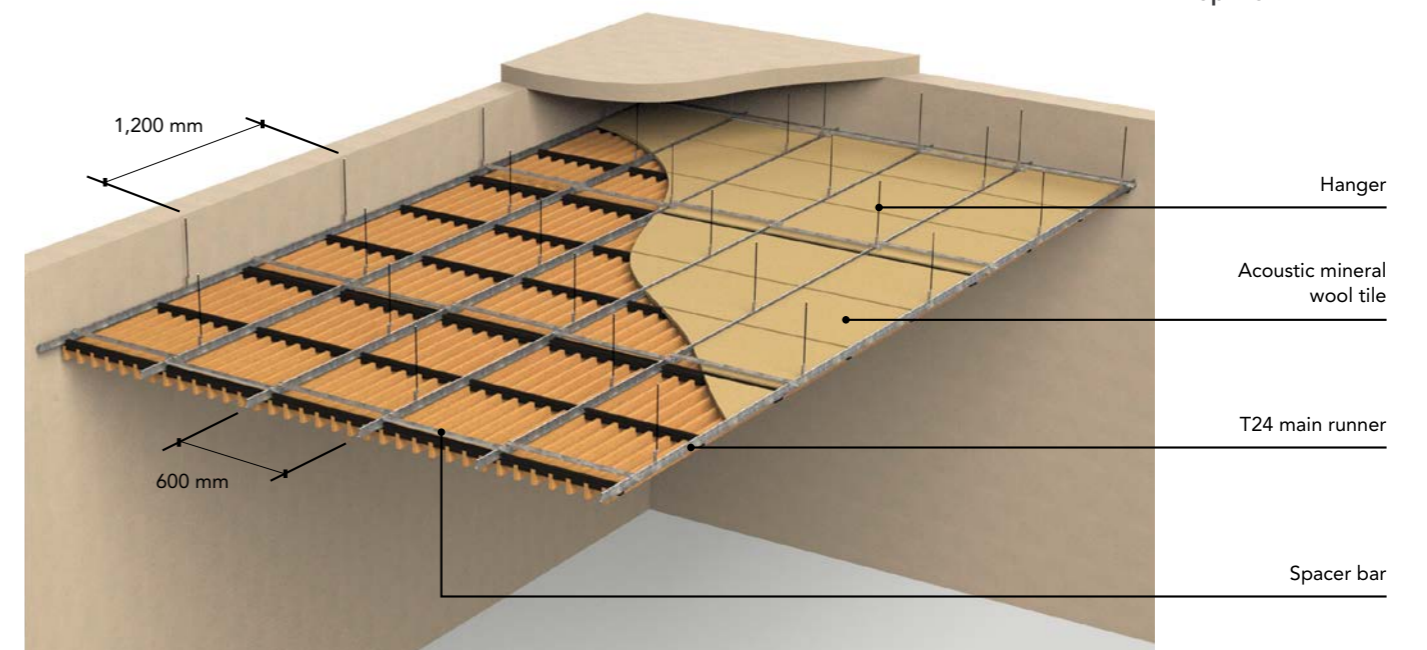


Hanger

T24 main runner

Spacer bar

Top view



Hanger

Acoustic mineral
wool tile

T24 main runner

Spacer bar

INSTALLATION

Installation suspended ceiling

General views

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.

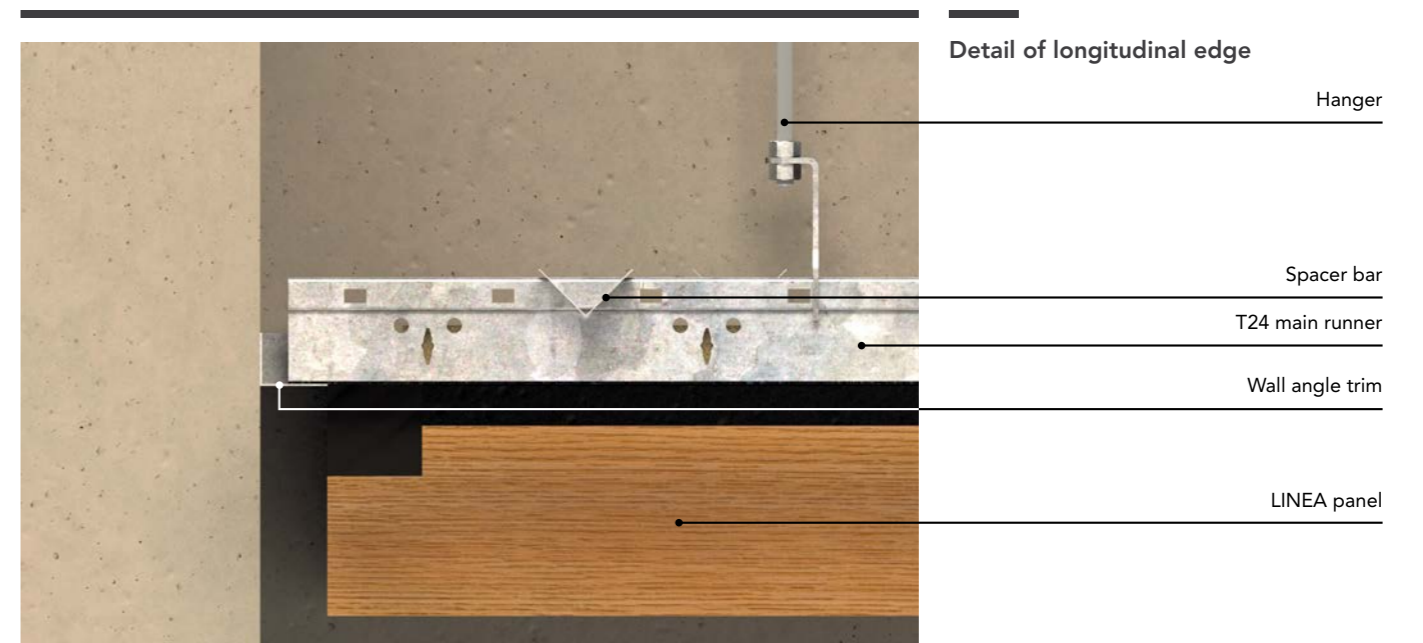
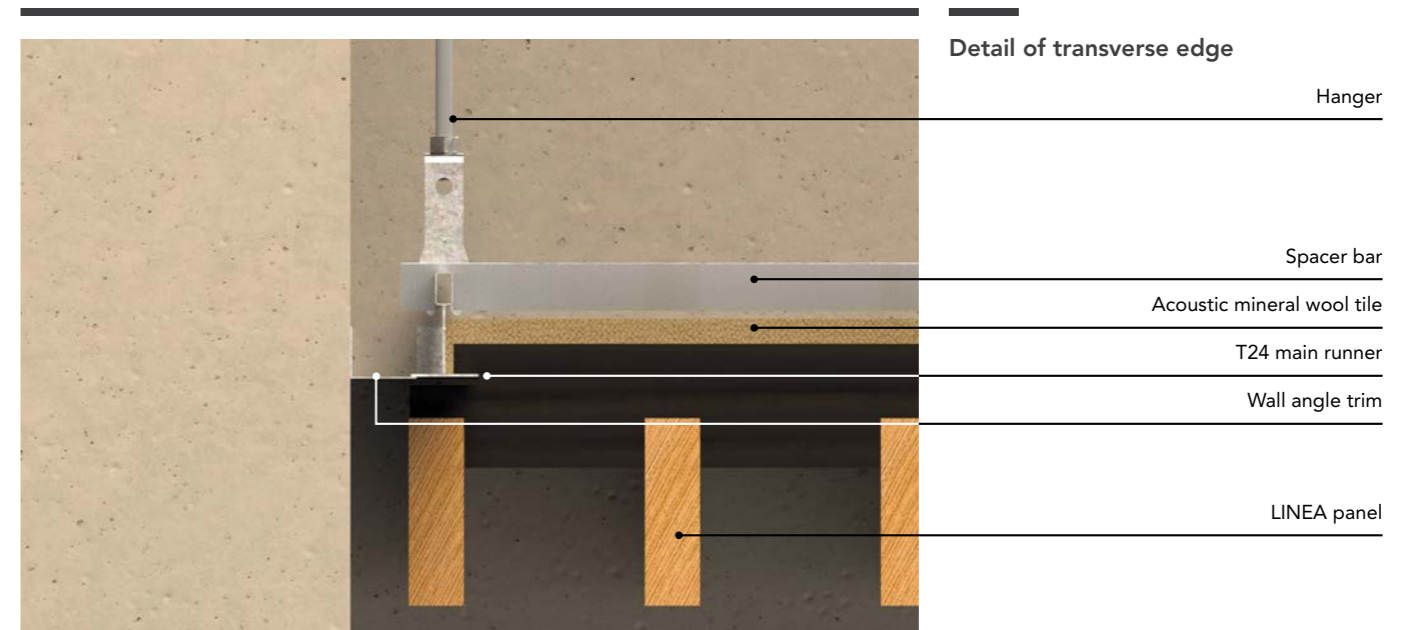
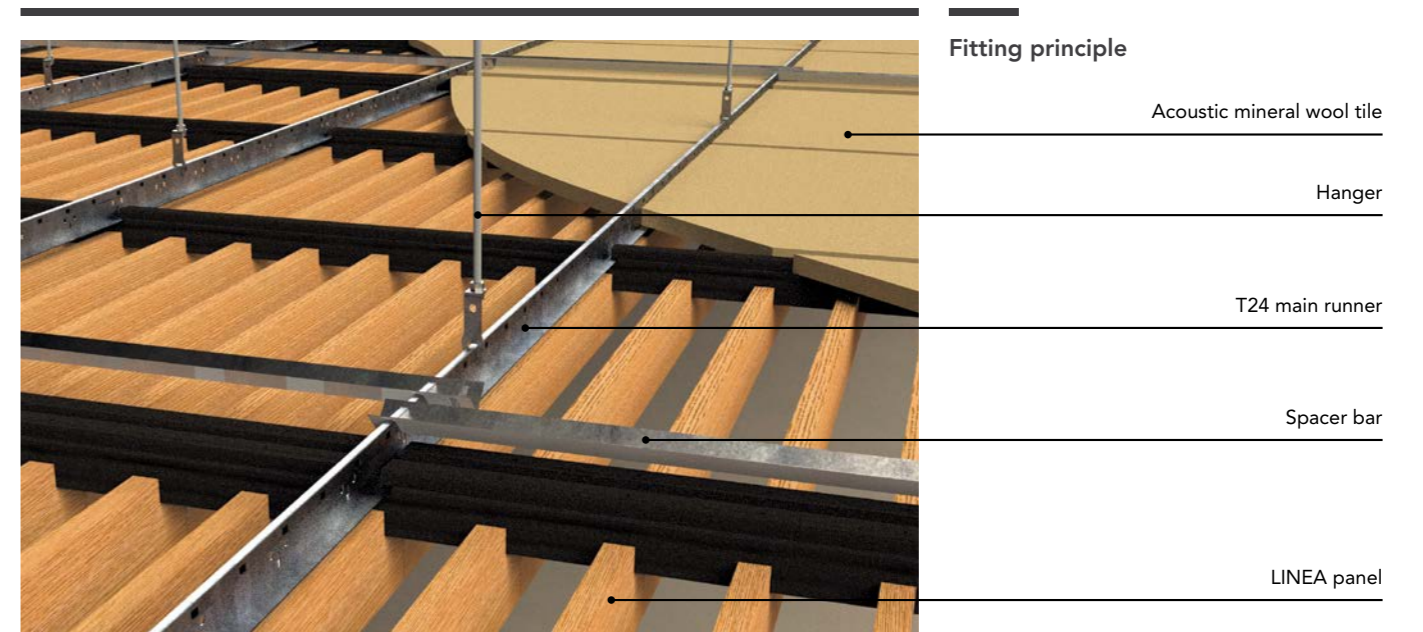
DESCRIPTION

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/m ²
Spacer bar	0.54 lm/m ²
Profile	Based on length of edge
Hanger	1.40 p/m ²

Maximum load: 22 kg/m² evenly distributed

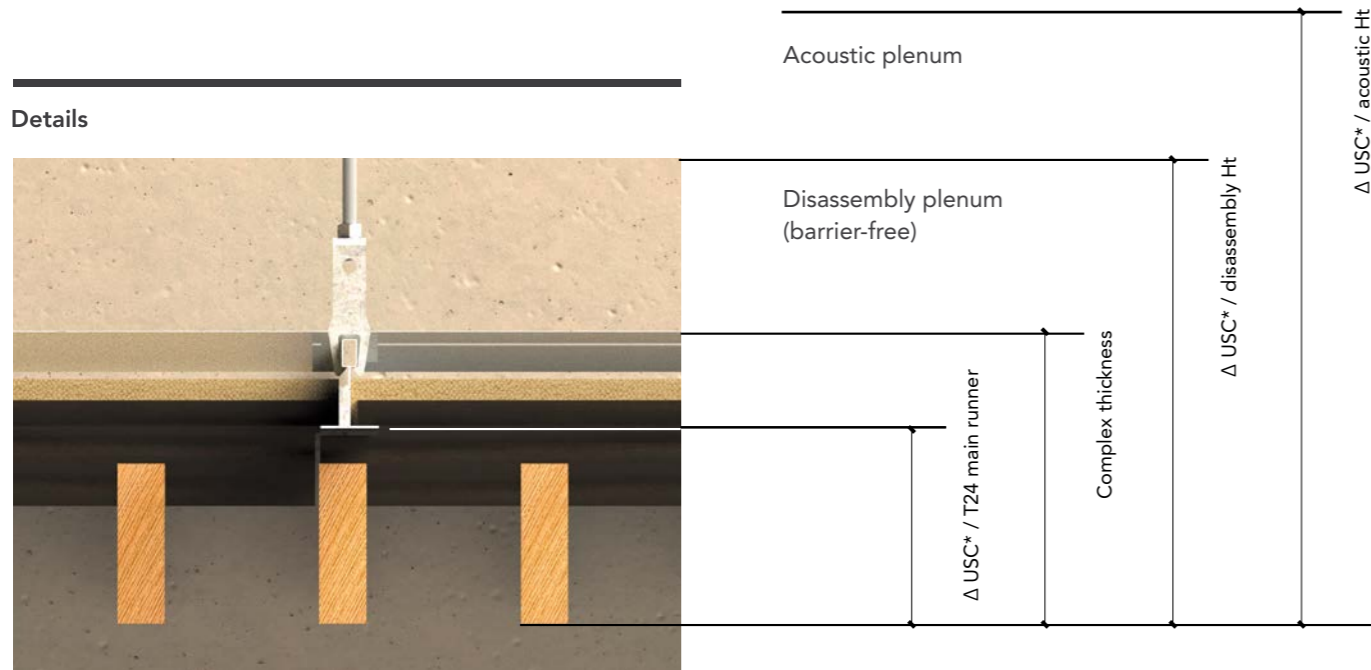


Installation suspended ceiling

System dimensions

Dismounting

Details

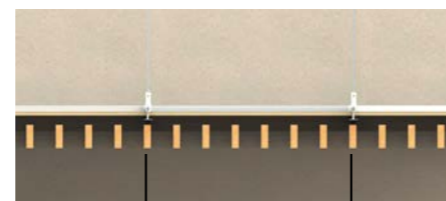


Longitudinal view



Module 1 880 / 1 265 mm

Transverse view

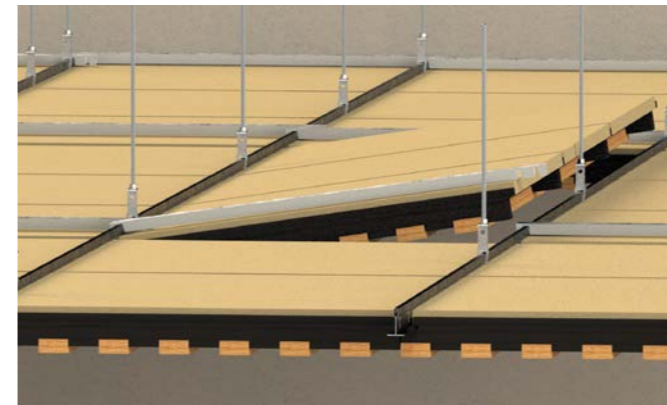


600 mm

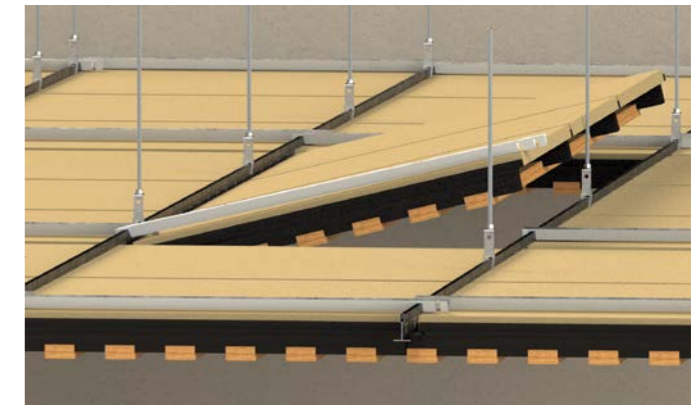
CEILING

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

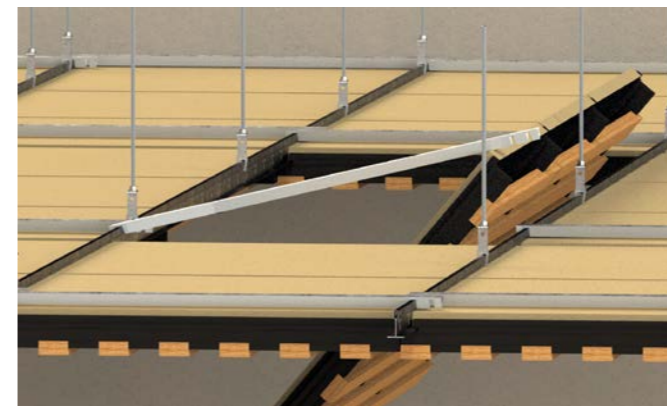
Step 1: Lift the panel



Step 2: Slide the panel



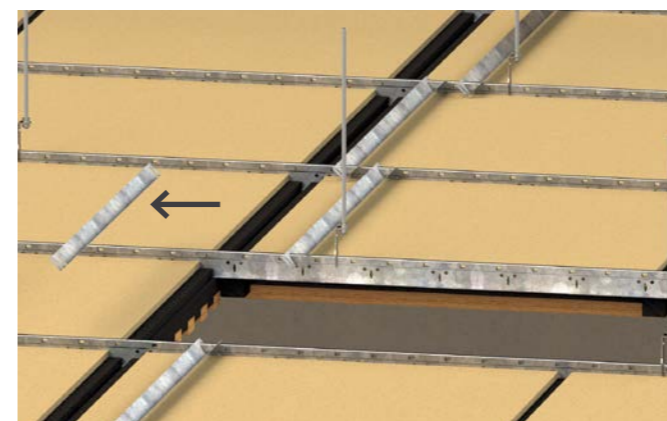
Step 3: Remove the panel



Step 4: The spacer bar is unclipped



Step 5: Shift the spacer bar to the next panel

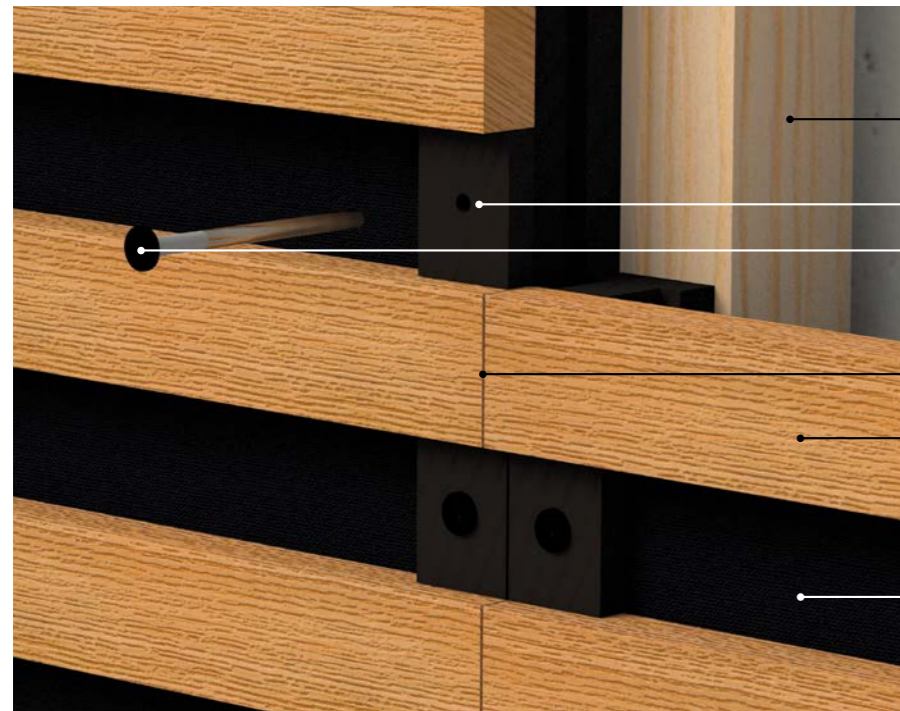


Step 6: Check system lock



Installation wall

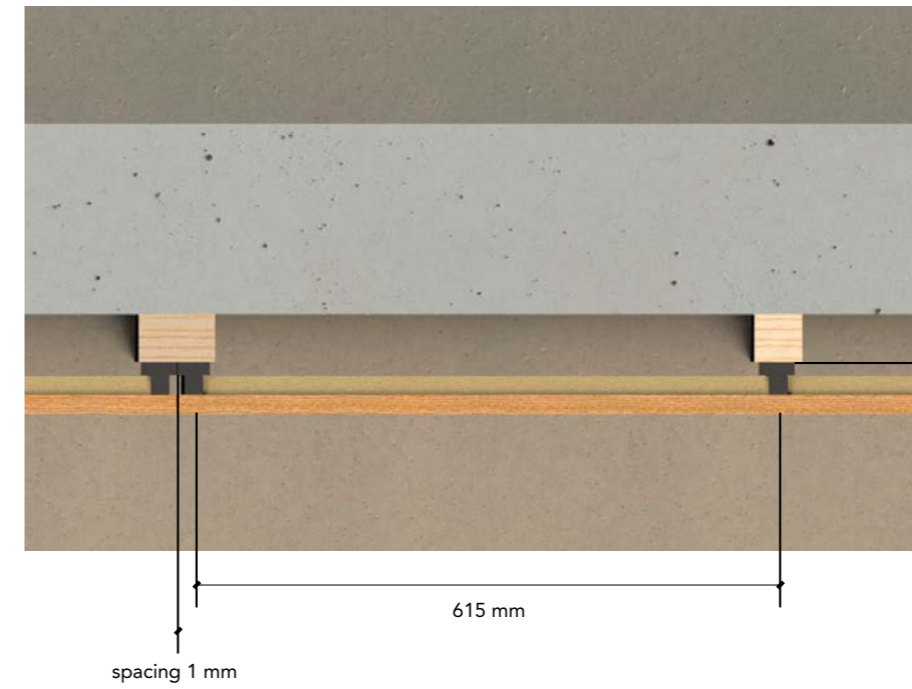
General views



Fitting principle

- Framework
- Pre-drilled
- Round-head screw
- Shadow gap
- LINEA panel
- Acoustic mineral wool tile

System dimensions



Details

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.

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

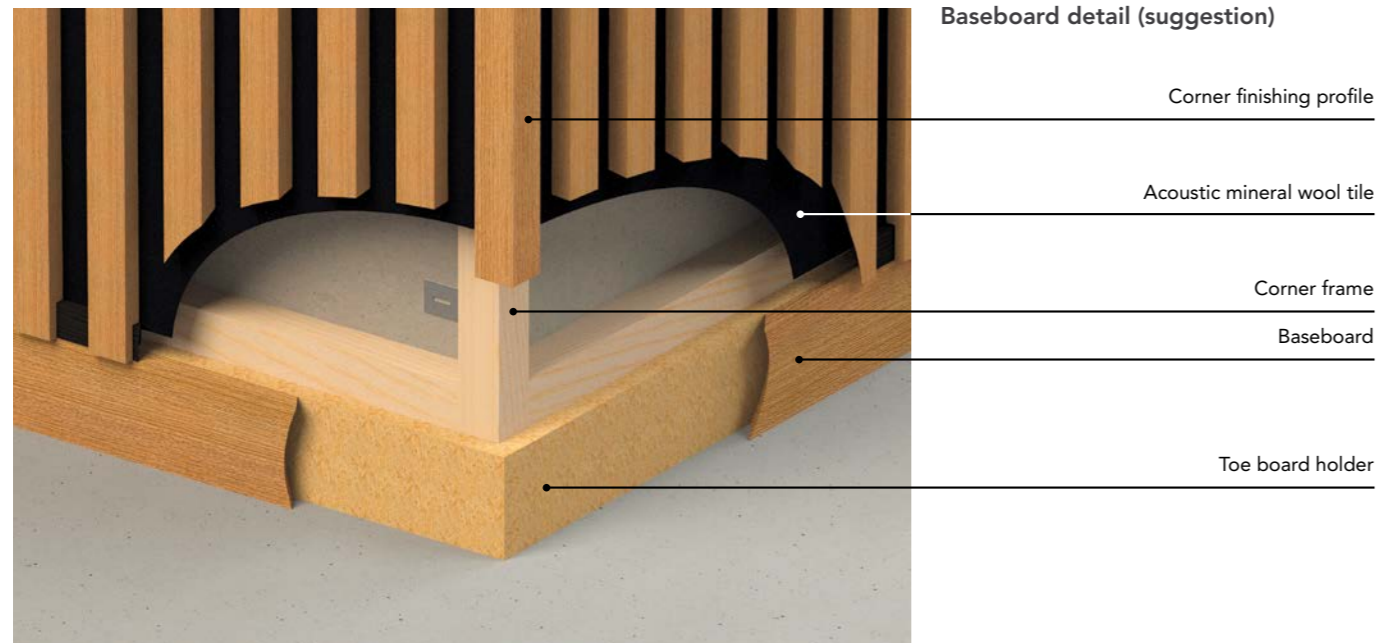
Installation wall

Vertical fitting

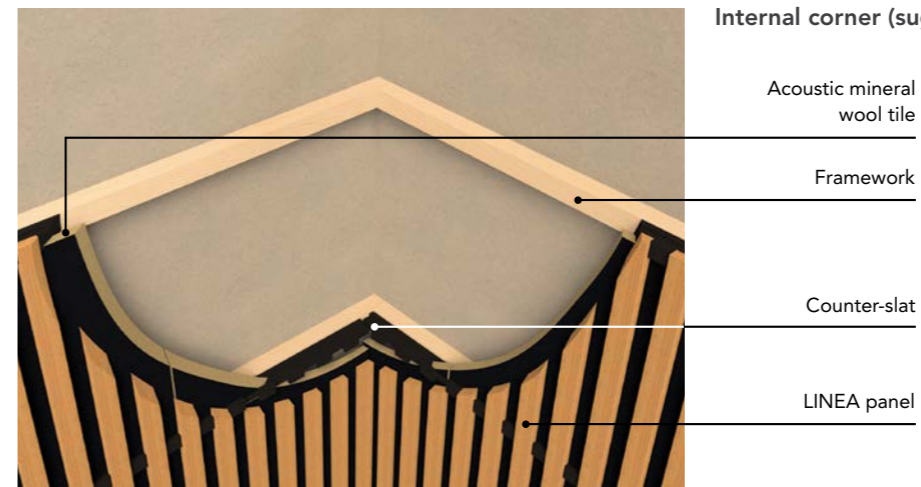
Overview



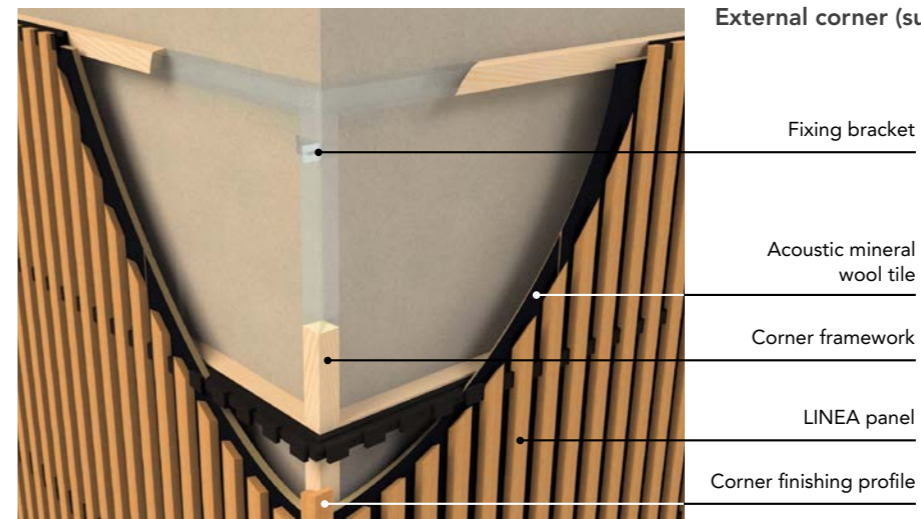
Baseboard detail (suggestion)



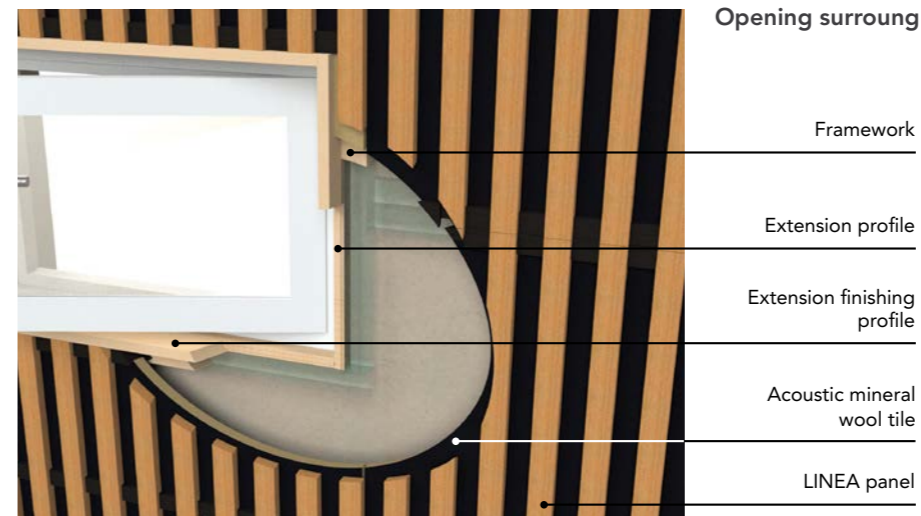
Internal corner (suggestion)



External corner (suggestion)



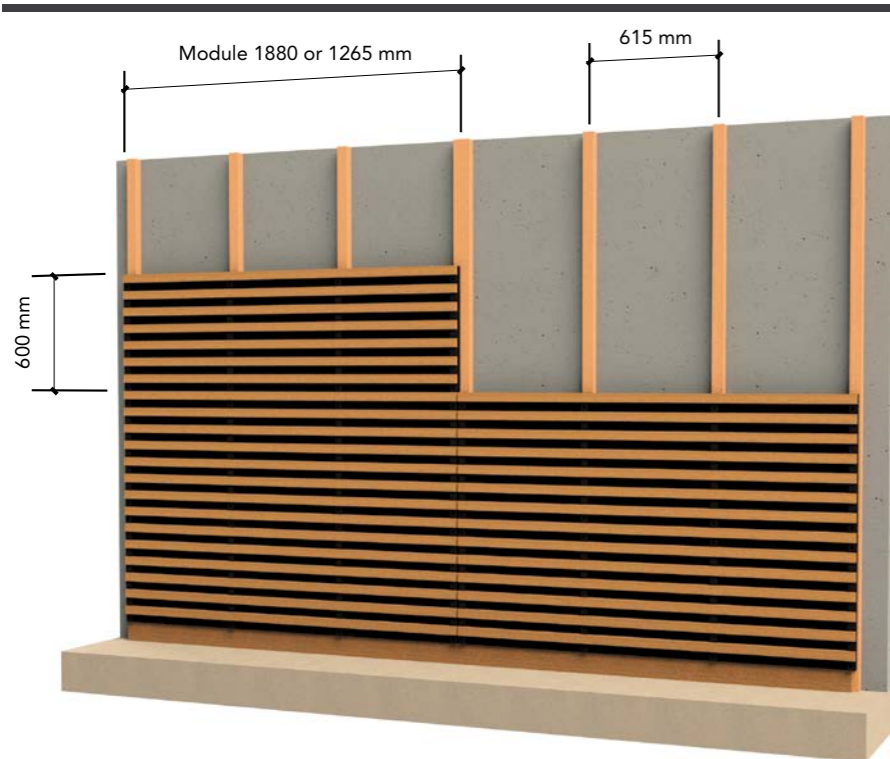
Opening surroung (suggestion)



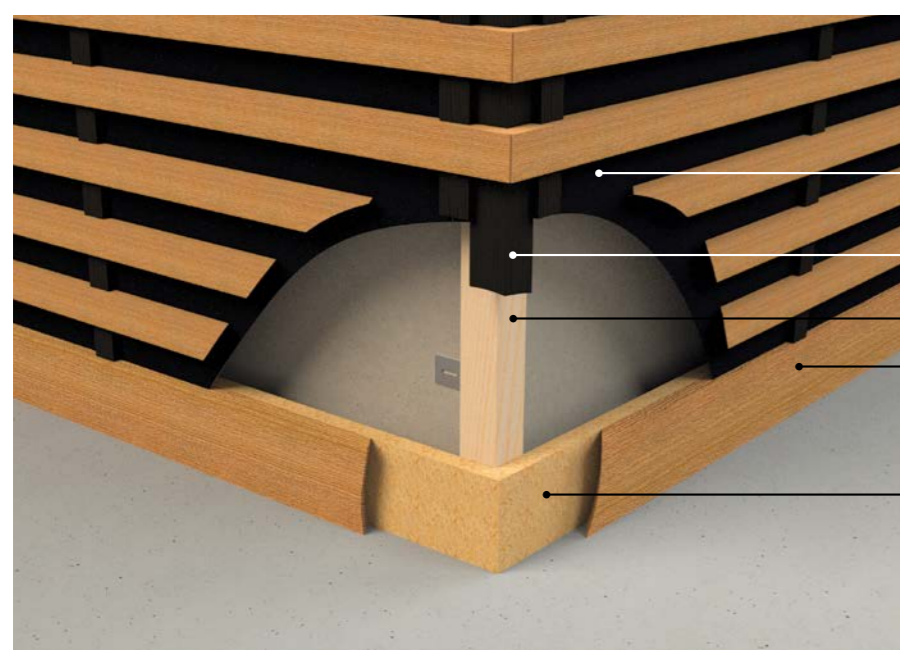
Installation wall

Horizontal fitting

Overview



Baseboard detail (suggestion)



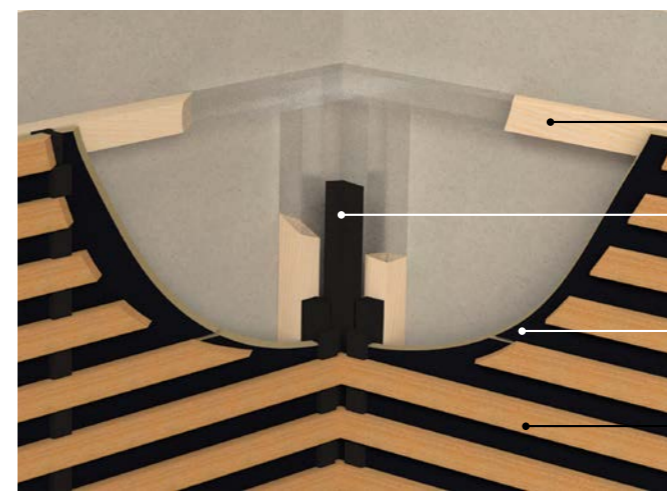
Acoustic mineral wool tile

Corner finishing profile

Corner framework

Baseboard

Toe board holder



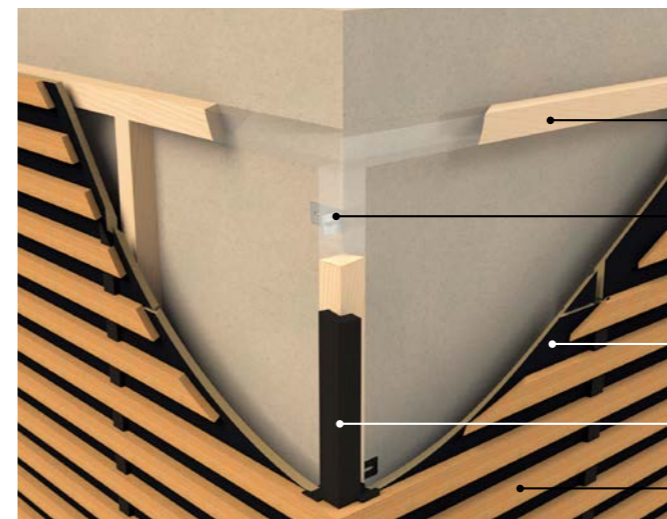
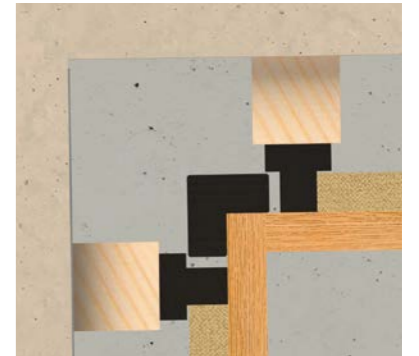
Internal corner (suggestion)

Framework

Corner finishing profile

Acoustic mineral wool tile

LINEA panel



External corner (suggestion)

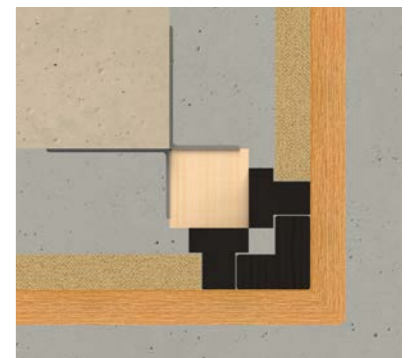
Framework

Fixing bracket

Acoustic mineral wool tile

Corner finishing profile

LINEA panel



Opening surround (suggestion)

Acoustic mineral wool tile

Extension finishing profile

Extension profile

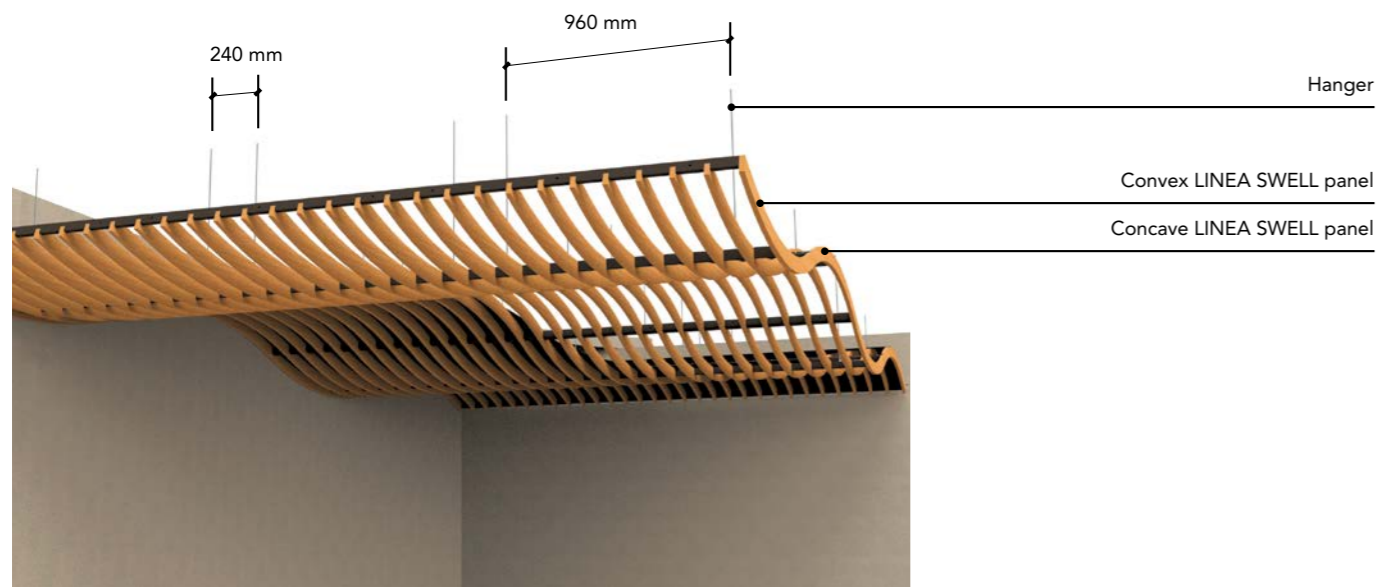
Framework

LINEA panel

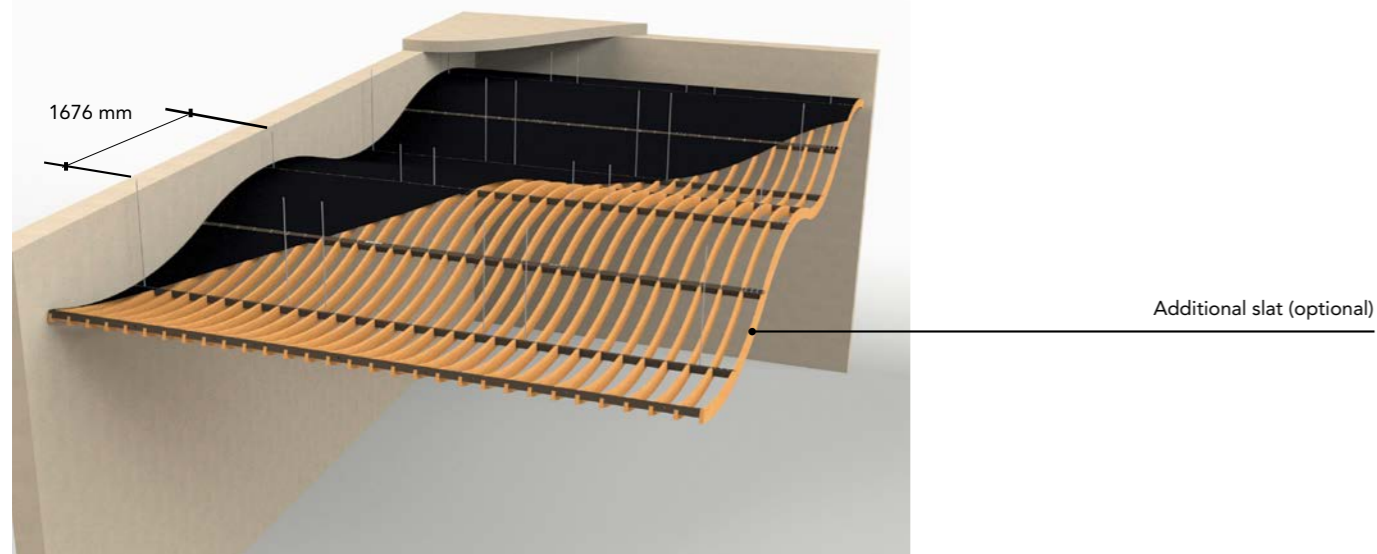
Installation LINEA SWELL

General views

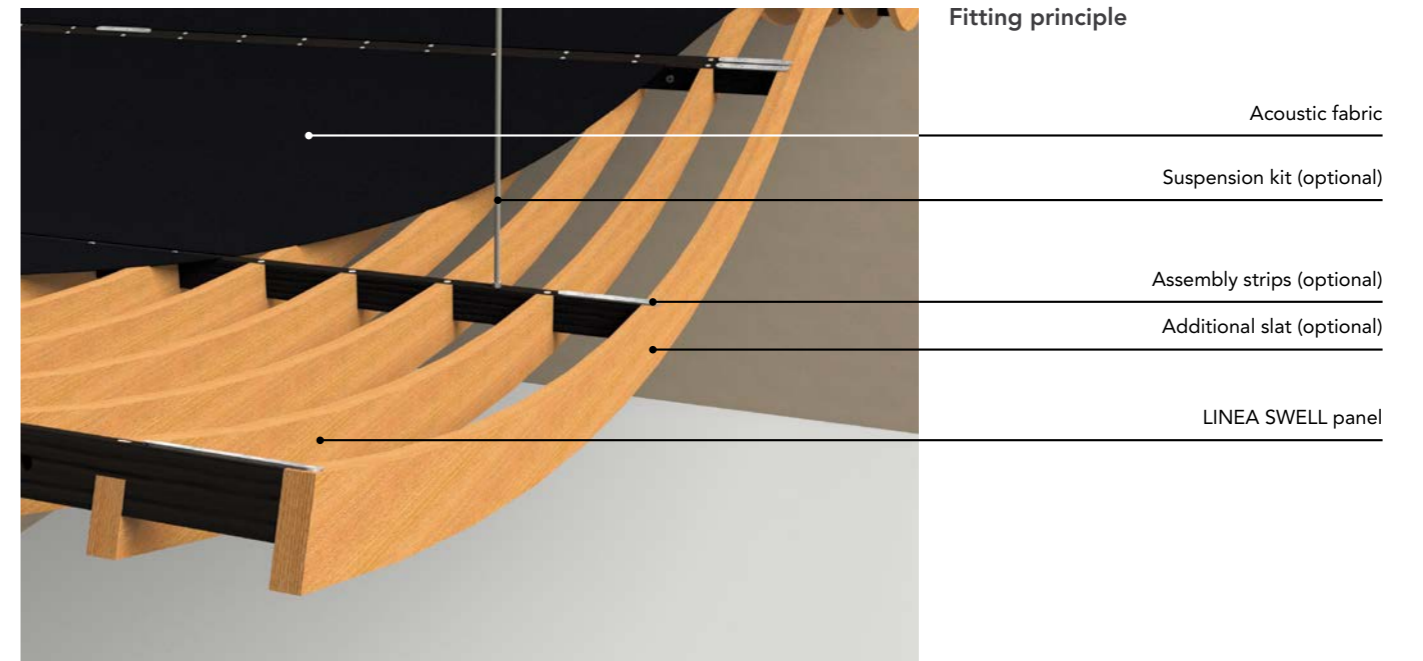
Bottom view



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).

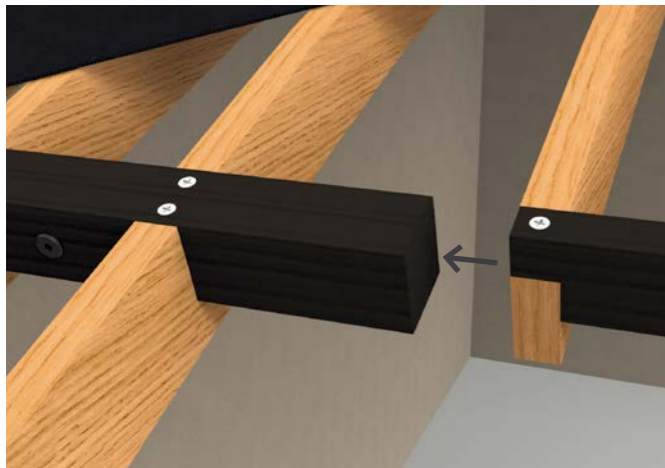
* The entire frame and suspension system must be designed for use and application in damp and/or corrosive environments.

Installation LINEA SWELL

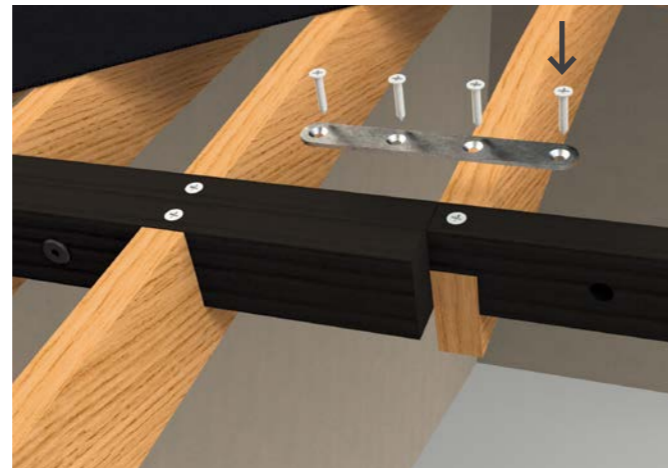
Installation details



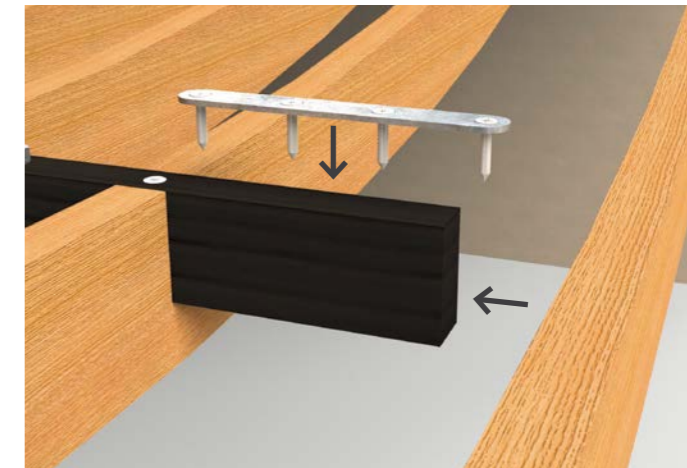
Step 1: Position the panel to be fixed



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



Step 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

Step 1: Mark the position of the cut



Step 2: Unscrew the counter-slat to be moved



Step 3: Move the counter-slat



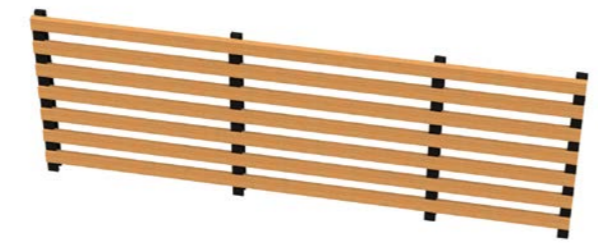
Step 4: Screw the counter-slat back on



Step 5: Cut of the surplus slats



Step 6: Panel ready to be fitted



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



Simple cut of a panel across its width (wall)

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



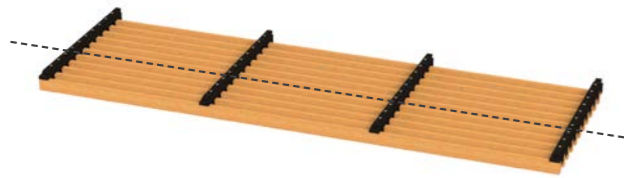
Step 3: Panel ready to be fitted



Cutting panels

Simple cut of a panel across its width (ceiling)

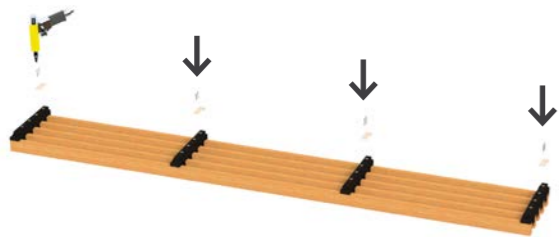
Step 1: Mark the position and side of the cut



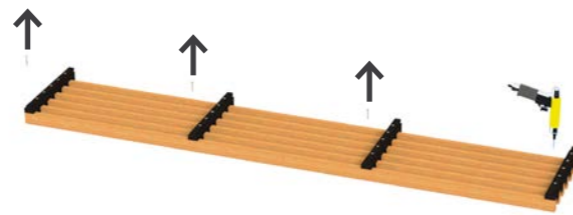
Step 2: Cut the panel



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



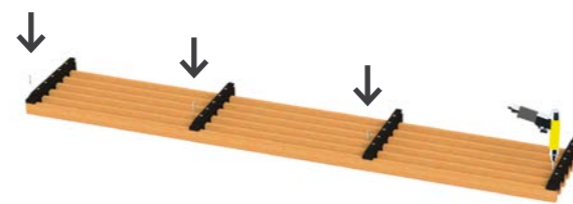
Step 4: Female cut finish – Unscrew the slat-retaining screws



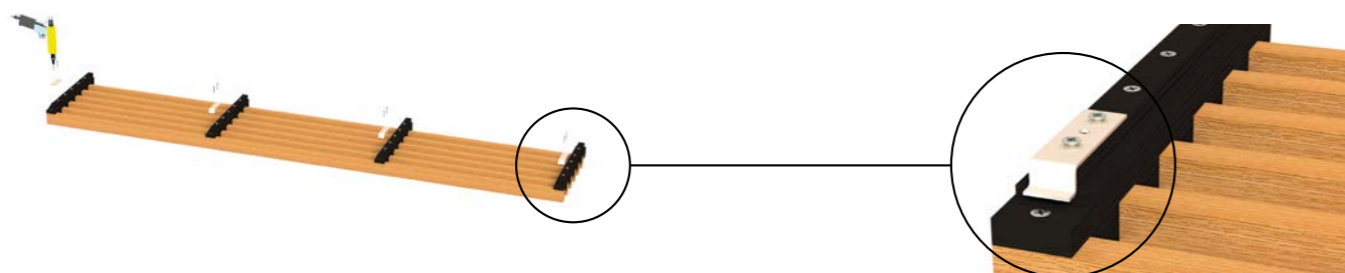
Step 5: Notch the end of the counter-slat



Step 6: Screw the slat-retaining screws back in

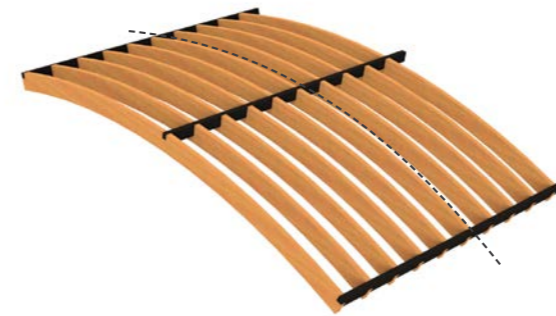


Step 7: Screw on the edging strip (option). Pre-drill Ø 2 mm

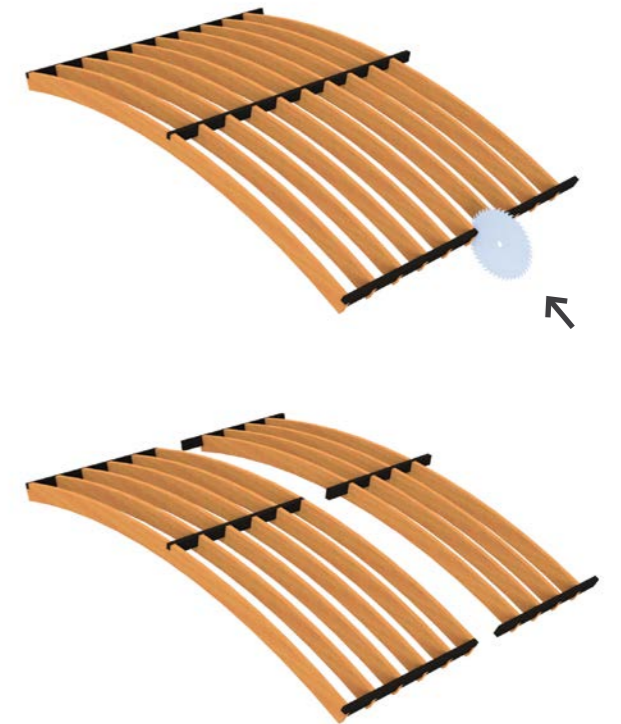


Simple cut of a LINEA SWELL panel across its width

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

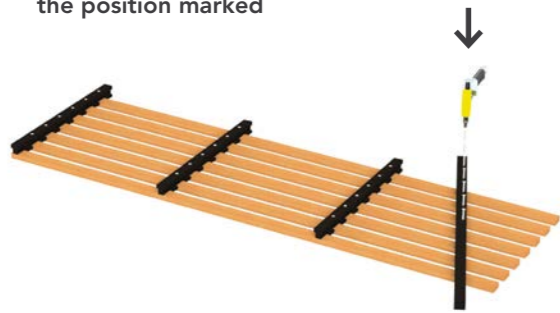
Step 1: Mark the position of the cut



Step 2: Unscrew the counter-slat



Step 3: Screw the cutting profile in the position marked



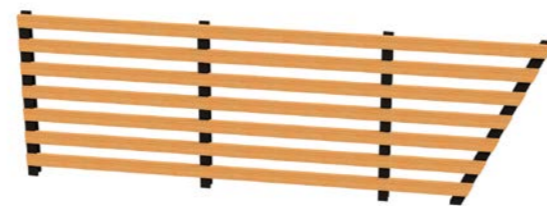
Step 4: Cut the panel along the cutting profile



Step 5: Cut the surplus of the cutting profile



Step 6: Panel ready to be fitted

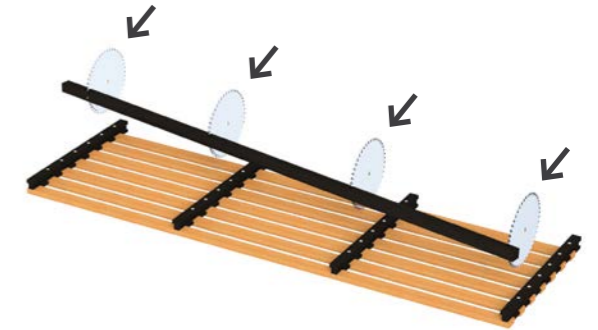


Angled width cut

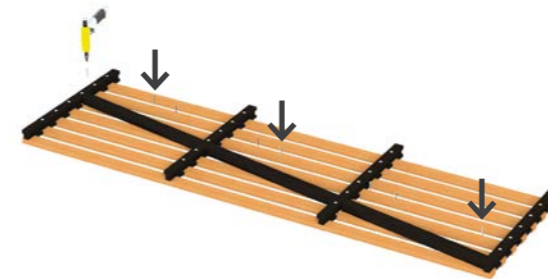
Step 1: Mark the position of the cut



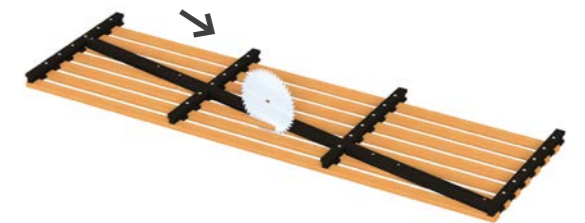
Step 2: Cut the cutting profile



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

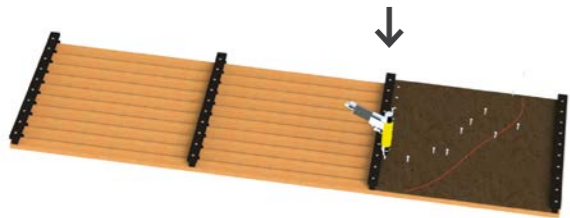
Step 1: Mark the position of the cut



Step 2: Insert the particle plate (option)



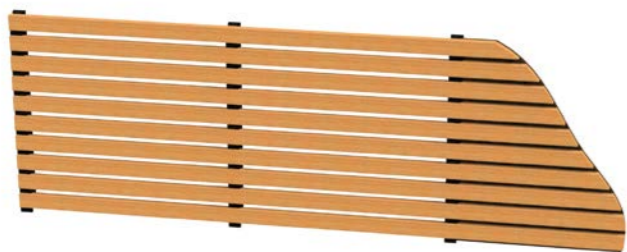
Step 3: Fix the particle plate on the slats and draw the outline



Step 4: Cut the panel following the outline

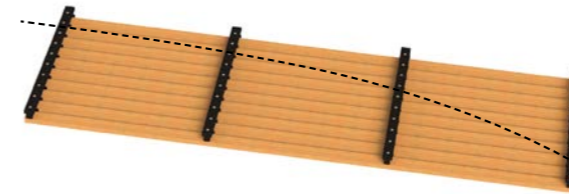


Step 5: Panel ready to be fitted



Random width cut

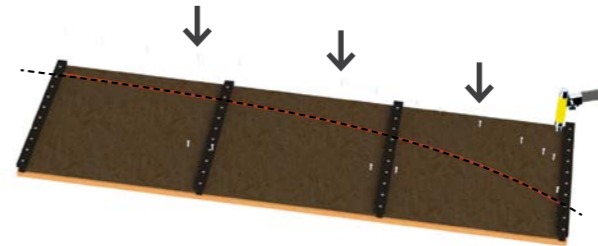
Step 1: Mark the position of the cut



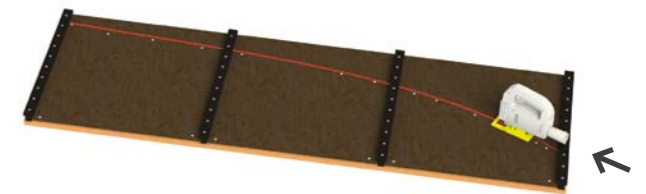
Step 2: Insert the particle plate (option)



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



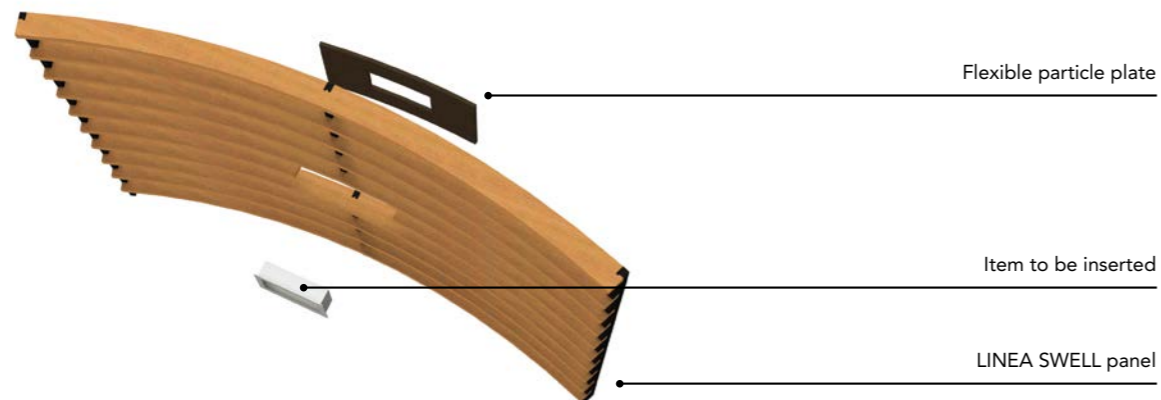
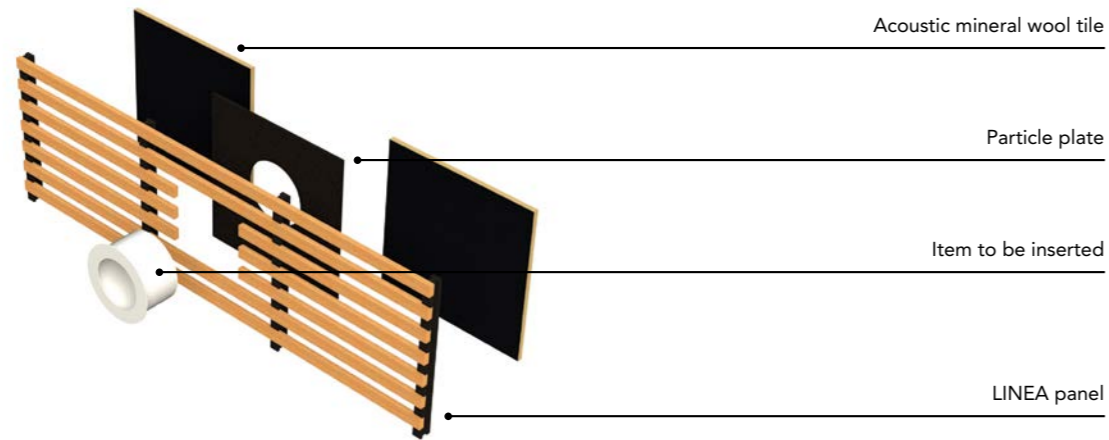
Step 4: Cut the panel following the outline



Step 5: Panel ready to be fitted

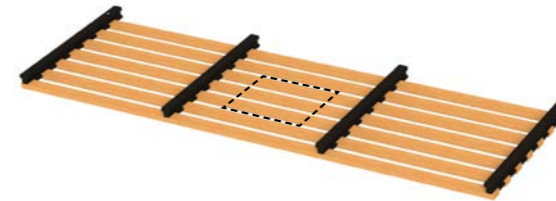


Inserting an item



Insertion between two counter-slats

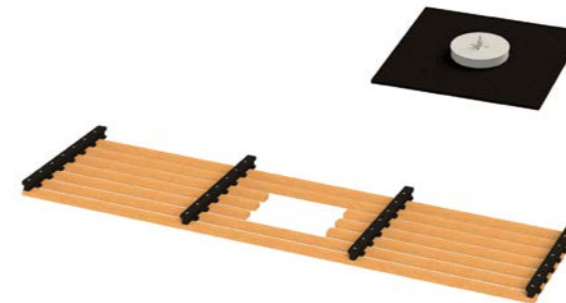
Step 1: Mark the insertion position



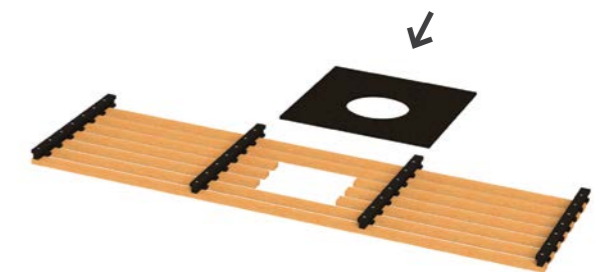
Step 2: Cut the panel at the position marked



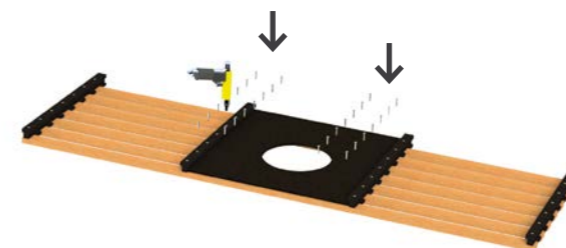
Step 3: Cut the particle plate at the position marked



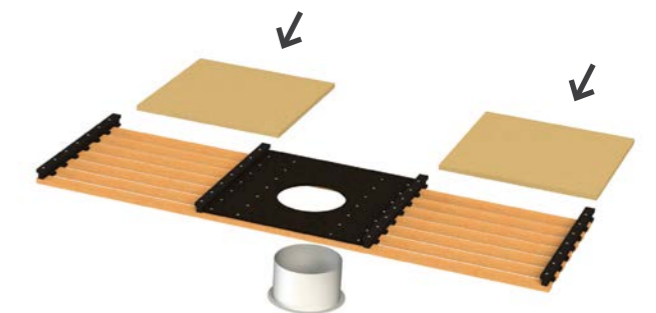
Step 4: Insert the particle plate on the panel



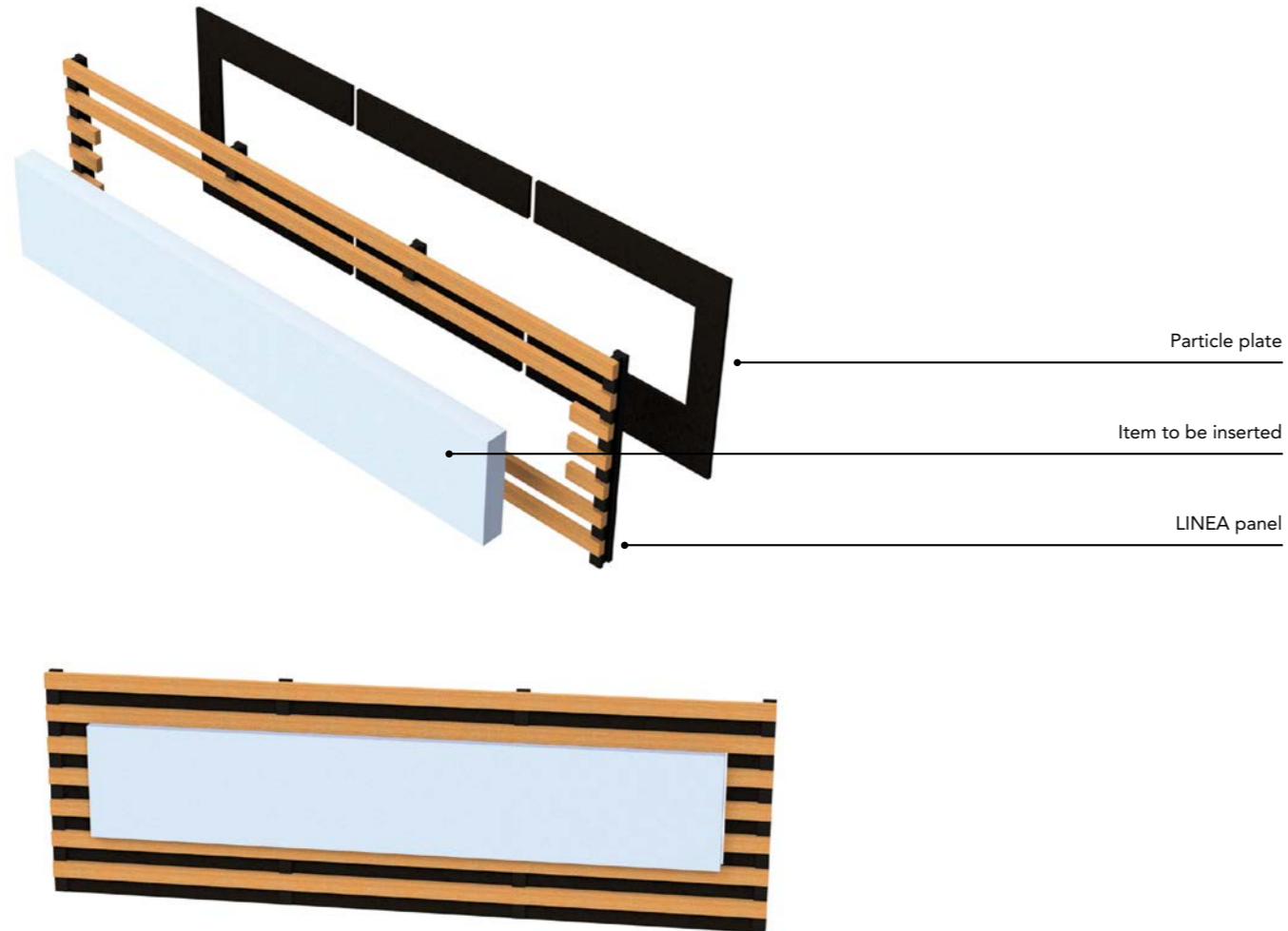
Step 5: Fix the particle plate on the slats



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

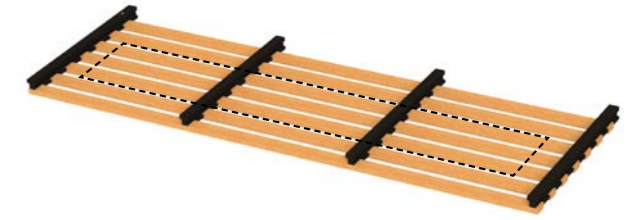


Inserting an item

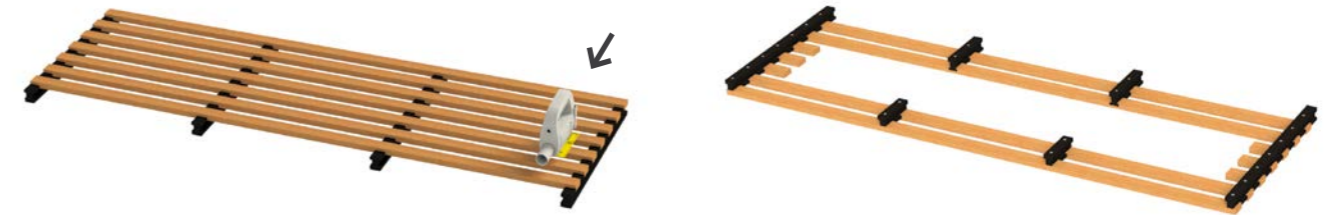


Insertion by modifying counter-slats

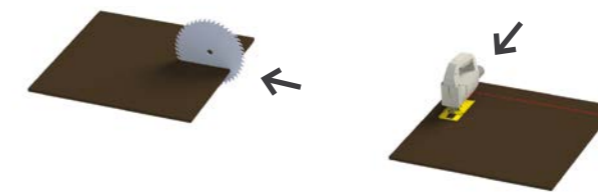
Step 1: Mark the insertion position



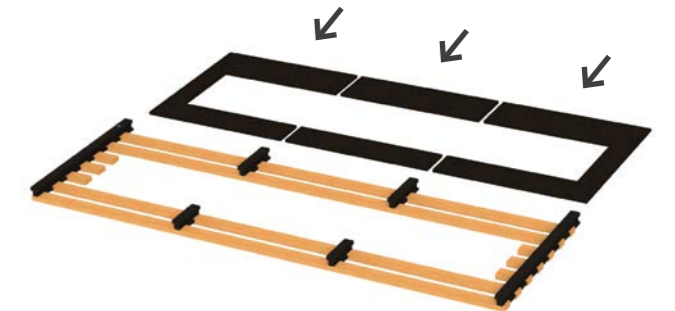
Step 2: Cut the panel at the position marked



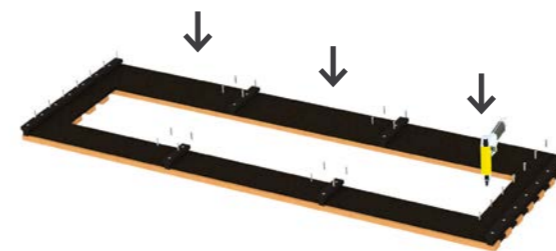
Step 3: Cut the particle plates to fit



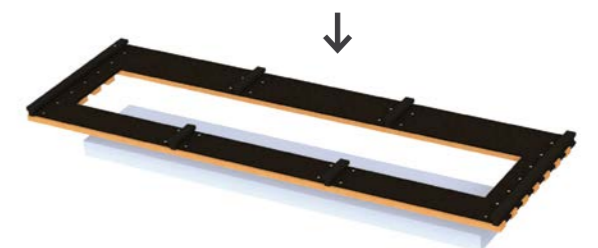
Step 4: Insert the particle plates on the panel







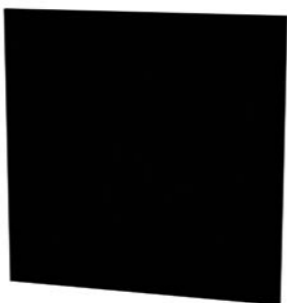
Step 5: Fix the particle plates on the slats


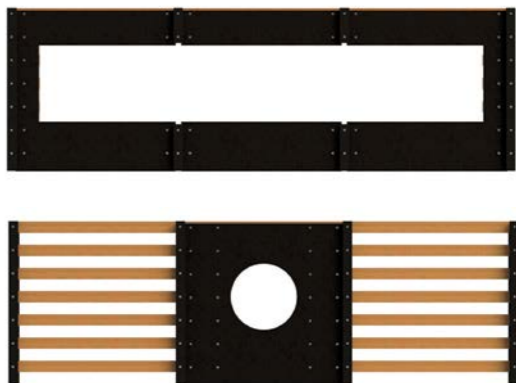


Step 6: Panel ready to be fitted











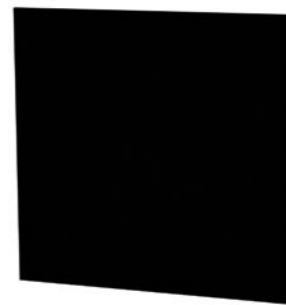

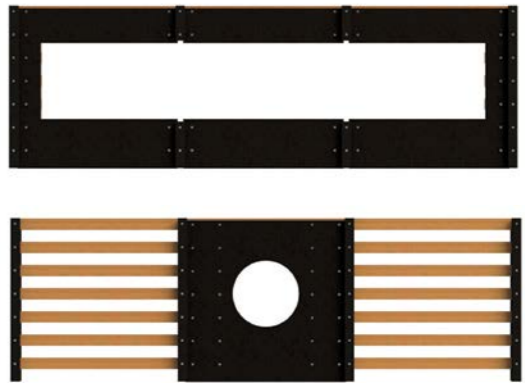
Options & Accessories ceiling

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

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

<p>Particle black plate</p>	<p>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)</p>	
<p>Particle plate machining option</p>	<p>Contact us</p>	
<p>Panel machining option with insertion of particle plates</p>	<p>Contact us</p>	
<p>Finishing option</p>	<p>Finishing can for slats or counter-slats</p>	<p>Varnish, Wax Color In a 1 litre can</p>

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 1 m 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 black plate	<p>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)</p>	
Finishing option	<p>Finishing can for slats or counter-slats</p>	<p>Varnish, Wax Color In a 1 litre can</p>

Technical comparison LINEA range

	LINEA 4.2.1	LINEA 4.2.4	LINEA 9.2.1	LINEA 9.2.3	LINEA 9.2.6	LINEA 2.4.3	LINEA 2.4.5
Application	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall

TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm 1265 x 600 mm
Cross-section of slats	42 mm (face) x 20 mm (height)	42 mm (face) x 20 mm (height)	90 mm (face) x 20 mm (height)	90 mm (face) x 20 mm (height)	90 mm (face) x 20 mm (height)	20 mm (face) x 42 mm (height)	20 mm (face) x 42 mm (height)
Spacing between slats	18 mm	43.71 mm	10 mm	30 mm	60 mm	34.54 mm	55 mm
Centre distance of slats	60 mm	85.71 mm	100 mm	120 mm	150 mm	54.54 mm	75 mm
Black rear counter-slats	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm
Overall thickness	55 mm	55 mm	55 mm	55 mm	55 mm	69 mm	69 mm
Surface mass (pine)	11.40 kg/m ²	8.75 kg/m ²	15.30 kg/m ²	13.2 kg/m ²	11.1 kg/m ²	12.40 kg/m ²	9.70 kg/m ²
Surface mass (oak)	14.60 kg/m ²	11 kg/m ²	19.40 kg/m ²	16.60 kg/m ²	13.80 kg/m ²	16.10 kg/m ²	12.25 kg/m ²
Surface mass (douglas fir)	11.20 kg/m ²	8.6 kg/m ²	15.10 kg/m ²	13 kg/m ²	10.9 kg/m ²	12.20 kg/m ²	9.60 kg/m ²
Surface mass (spruce)	–	–	13.10 kg/m ²	11.4 kg/m ²	9.60 kg/m ²	–	–
Openness percentage	30%	51%	10%	25%	40%	63%	73%

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

Natural	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

CEILING

Weighted index	$\alpha_w = 0.5$	$\alpha_w = 0.75$	–	$\alpha_w = 0.5$	$\alpha_w = 0.5$	$\alpha_w = 0.9$	$\alpha_w = 0.9$
Absorption class	Class D	Class C	–	Class D	Class D	Class A	Class A
As per ASTM C423:	NRC = 0.7	NRC = 0.85	–	NRC = 0.7	NRC = 0.7	NRC = 0.9	NRC = 0.9

WALL

Weighted index	$\alpha_w = 0.85$	$\alpha_w = 0.85$	–	–	$\alpha_w = 0.85$	$\alpha_w = 0.85$	$\alpha_w = 0.85$
Absorption class	Class B	Class B	–	–	Class B	Class B	Class B
As per ASTM C423:	NRC = 0.85	NRC = 0.9	–	–	NRC = 0.9	NRC = 0.9	NRC = 0.9

Technical comparison LINEA range

	LINEA 2.6.5	LINEA 2.6.6	LINEA 2.6.8	LINEA 2.6.10	LINEA 2.9.8	LINEA 2.9.10	LINEA 2.9.13
Application	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall

TECHNICAL CHARACTERISTICS

Panel dimensions	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm 1265 x 600 mm	1880 x 600 mm	1880 x 600 mm	1880 x 600 mm
Cross-section of slats	20 mm (face) x 68 mm (height)	20 mm (face) x 68 mm (height)	20 mm (face) x 68 mm (height)	20 mm (face) x 68 mm (height)	20 mm (face) x 90 mm (height)	20 mm (face) x 90 mm (height)	20 mm (face) x 90 mm (height)
Spacing between slats	55 mm	65.71 mm	80 mm	100 mm	80 mm	100 mm	130 mm
Centre distance of slats	75 mm	85.71 mm	100 mm	120 mm	100 mm	120 mm	150 mm
Black rear counter-slats	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm
Overall thickness	95 mm	95 mm	95 mm	95 mm	117 mm	117 mm	117 mm
Surface mass (pine)	15.40 kg/m ²	13 kg/m ²	13.6 kg/m ²	11.70 kg/m ²	15.30 kg/m ²	13.20 kg/m ²	11 kg/m ²
Surface mass (oak)	19.50 kg/m ²	16.70 kg/m ²	17.45 kg/m ²	14.80 kg/m ²	19.40 kg/m ²	16.60 kg/m ²	13.80 kg/m ²
Surface mass (douglas fir)	15.20 kg/m ²	12.90 kg/m ²	13.4 kg/m ²	11.55 kg/m ²	–	–	–
Surface mass (spruce)	–	–	–	–	–	–	–
Openness percentage	73%	77%	80%	83%	80%	83%	87%

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

Natural	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s2,d0	D-s2,d0 / B-s2,d0	D-s2,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s2,d0	D-s2,d0 / B-s2,d0	D-s2,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s2,d0	D-s2,d0 / B-s2,d0	D-s2,d0 / B-s2,d0

ACOUSTIC RESULTS

CEILING

Weighted index	$\alpha_w = 0.9$	$\alpha_w = 0.9$	$\alpha_w = 0.9$	$\alpha_w = 0.9$	$\alpha_w = 0.9$	$\alpha_w = 0.9$	$\alpha_w = 0.9$
Absorption class	Class A	Class A	Class A	Class A	Class A	Class A	Class A
As per ASTM C423:	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9

WALL

Weighted index	$\alpha_w = 0.85$	$\alpha_w = 0.85$	$\alpha_w = 0.85$	$\alpha_w = 0.85$	$\alpha_w = 0.85$	$\alpha_w = 0.85$	$\alpha_w = 0.85$
Absorption class	Class B	Class B	Class B	Class B	Class B	Class B	Class B
As per ASTM C423:	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9

Technical comparison LINEA 3D range

	LINEA 3D EDGE	LINEA 3D PIX	LINEA 3D SCALE	LINEA 3D BAMBOO	LINEA 3D BAMBOO WAVE
Application	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall

TECHNICAL CHARACTERISTICS

Panel dimensions	2495 x 600 mm 1880 x 600 mm	2495 x 600 mm 1880 x 600 mm	2495 x 600 mm 1880 x 600 mm	2495 x 600 mm 1880 x 600 mm	2495 x 600 mm 1880 x 600 mm
Cross-section of slats	40 mm (face) x 40 mm (height)	40 mm (face) x 40 mm (height)	40 mm (face) x 40 mm (height)	40 mm (face) x 40 mm (height)	40 mm (face) x 56 mm (height)
Spacing between slats	35 mm	35 mm	35 mm	35 mm	35 mm
Centre distance of slats	75 mm	75 mm	75 mm	75 mm	75 mm
Black rear counter-slats	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm	34 x 45 mm
Overall thickness	75 mm	67 mm	67 mm	75 mm	91 mm
Surface mass (pine)	12.4 kg/m ²	13.8 kg/m ²	15.3 kg/m ²	15.3 kg/m ²	18.1 kg/m ²
Surface mass (oak)	15.8 kg/m ²	17.5 kg/m ²	19.6 kg/m ²	19.6 kg/m ²	23.6 kg/m ²
Surface mass (douglas fir)	-	-	-	-	-
Surface mass (spruce)	-	-	-	-	-
Openness percentage	47%	47%	47%	47%	47%

FINISH / REACTION TO FIRE (AS PER EN 13501-1)

Natural	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0
Varnish	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0
Wax Color + varnish	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0	D-s2,d0 / B-s1,d0 / B-s2,d0

ACOUSTIC RESULTS

CEILING

Weighted index	$\alpha_w = 0.75$	$\alpha_w = 0.75$	$\alpha_w = 0.75$	$\alpha_w = 0.75$	$\alpha_w = 0.75$
Absorption class	Class C	Class C	Class C	Class C	Class C
As per ASTM C423:	NRC = 0.85	NRC = 0.85	NRC = 0.85	NRC = 0.85	NRC = 0.85

WALL

Weighted index	$\alpha_w = 0.85$	$\alpha_w = 0.85$	$\alpha_w = 0.85$	$\alpha_w = 0.85$	$\alpha_w = 0.85$
Absorption class	Class B	Class B	Class B	Class B	Class B
As per ASTM C423:	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9	NRC = 0.9

LINEA SHAPE and LINEA SWELL models

LINEA SHAPE	LINEA SWELL
Ceiling	Ceiling

1880 x 1800 mm comprising 3 panels 1880 x 600 mm	1,700 x 1,200 mm
20 mm (face) x 68 mm (height)	20 mm (face) x 68 mm (height)
65.71 mm	100 mm
85.71 mm	120 mm
34 x 45 mm	20 x 42 mm
Depending on module	213 mm
15.5 kg/m ²	9.8 kg/m ²
19.7 kg/m ²	12.4 kg/m ²
-	-
-	-
77%	83%

D-s2,d0	D-s2,d0
D-s2,d0 / B-s2,d0	D-s2,d0 / B-s2,d0
D-s2,d0 / B-s2,d0	D-s2,d0 / B-s2,d0
D-s2,d0 / B-s2,d0	D-s2,d0 / B-s2,d0

$\alpha_w = 0.9$	$\alpha_w = 1$
Class A	Class A
NRC = 0.9	NRC = 0.95

-	-
-	-
-	-

Visual comparison
LINEA range

LINEA 4.2.1



LINEA 4.2.4



LINEA 9.2.1



LINEA 9.2.3



LINEA 9.2.6



LINEA 2.4.3



LINEA 2.4.5



LINEA 2.6.5



LINEA 2.6.6



LINEA 2.6.8



LINEA 2.6.10



LINEA 2.9.8



LINEA 2.9.10



LINEA 2.9.13



Visual comparison
LINEA 3D range

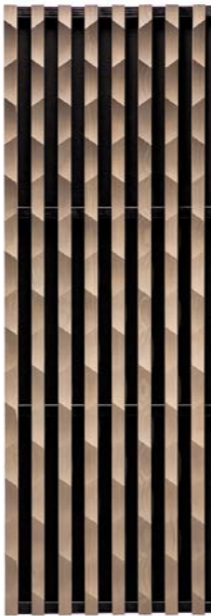
LINEA 3D EDGE



LINEA 3D PIX



LINEA 3D SCALE



LINEA 3D BAMBOO



LINEA 3D BAMBOO WAVE



LINEA SHAPE and
LINEA SWELL models

LINEA SHAPE – module 1



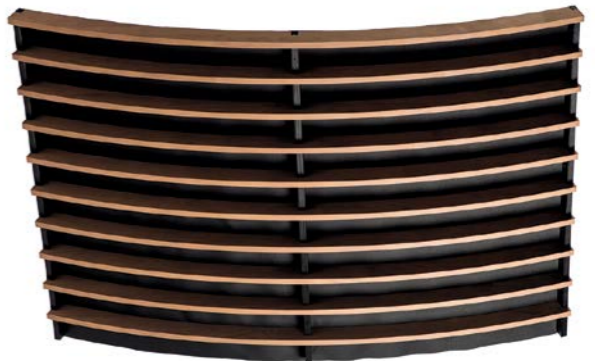
LINEA SHAPE – module 2



LINEA SHAPE – module 3



LINEA SWELL – convex (or concave) module



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© Laudescher — May 2020

Graphic design and layout
Guillaume Bullat — Studio Voiture 14

Editorial design and project management
Benjamin Girard — Design Project Agency

Photos on pages 8 to 17 / 32-33 / 48 to 91:
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PEFC™ certified paper.

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wood in genes