LINEA

SOLID TIMBER ACOUSTIC SUSPENDED CEILING AND WALL CLADDING

INTERIOR

LAUDESCHER

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LAUDESCHER

Summary

1 The company

2 Projects

Summary

1

The company

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

A comitted 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 eldest son, bought 100% of the company and became the owner-manager. Stéphane, the youngest son, manages production alongside his brother, developing this pioneering and innovative spirit, the DNA of this family with wood in its genes.

The excellence of know-how

Long established French manufacturer, using a unique timber half jointing technique, Laudescher is certified as a "Entreprise du Patrimoine Vivant" (French living heritage).
The only government backed label recognizing exceptional know-how.

A certified company

ISO **9001** (quality commitment)

FSC® LABEL –no FSC-C125874
PEFC™ LABEL– no PEFC/10-31-2391
(sustainable forest management)

LINEA range certified
Cradle to Cradle™ Bronze level

CE marking

A « for purpose organization »

(entreprise à mission)

Our purpose statement

« Experience and excellence in woodworking to magnify the living environment of man »

© Photo : Adobe Stock / 299544520

A paradigme shift

In line with its strategic policy and commitment to common good, Laudescher became a “for purpose” organization in 2021.
In doing so Laudescher translated its convictions in its statuses, integrating its purpose.

A fertile ground

For years Laudescher has carried out improvement plans, either on the environmental front by preserving raw materials and reducing its carbon footprint, or on the social front.

Targets to guide our actions

To make this process come to life and guide our future actions, we listed 3 targets to go with our purpose statement.

© Photo : Adobe Stock / 461064650

1st target

Contribute to the personal development and well being of all our colleagues

2nd target

Build on our unique know-how, by offering our customers and stakeholders products always more innovative, efficient, esthetic, offering a source of comfort and harmony

3rd target

Improve our environmental footprint, by choosing a circular economy, including regenerating wood supply

A positive impact

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.

© Photo : iStock-Getty images / wmaster 890

Optimising raw materials

Optimum use of raw materials directly influences product design, to reduce waste.

Respect for resources

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

Cradle to Cradle™ certification

LINEA range is Cradle to Cradle™ certified, Bronze level.
Proof of the company's commitment to an eco-design and circular economy logic.

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.

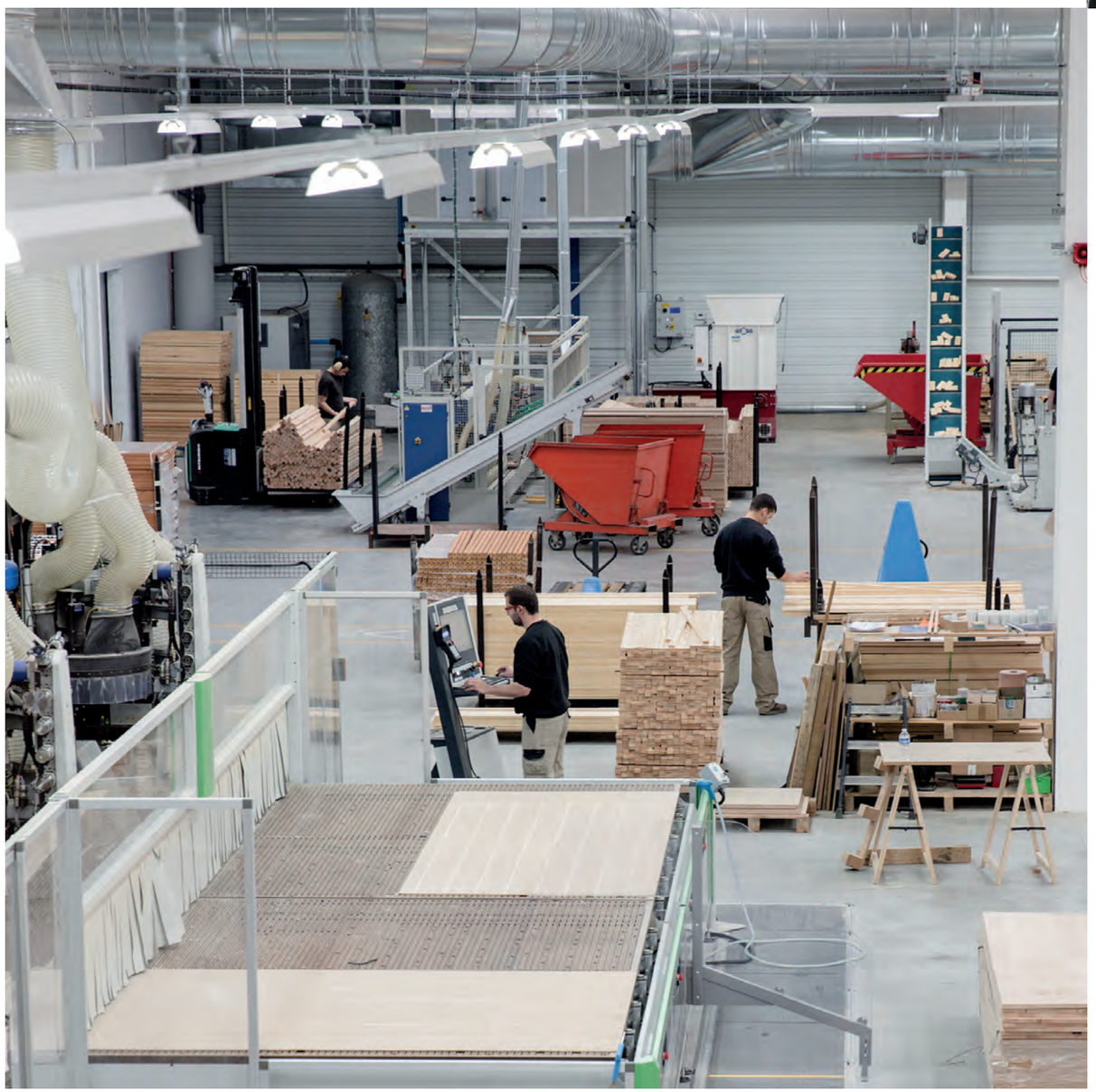
New technologies facilitating design

A top-level technological and industrial facility

Located in Carentan-Les-Marais, in Cotentin, Normandy, the 7,500m2 plant built on a 20,000m2 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.

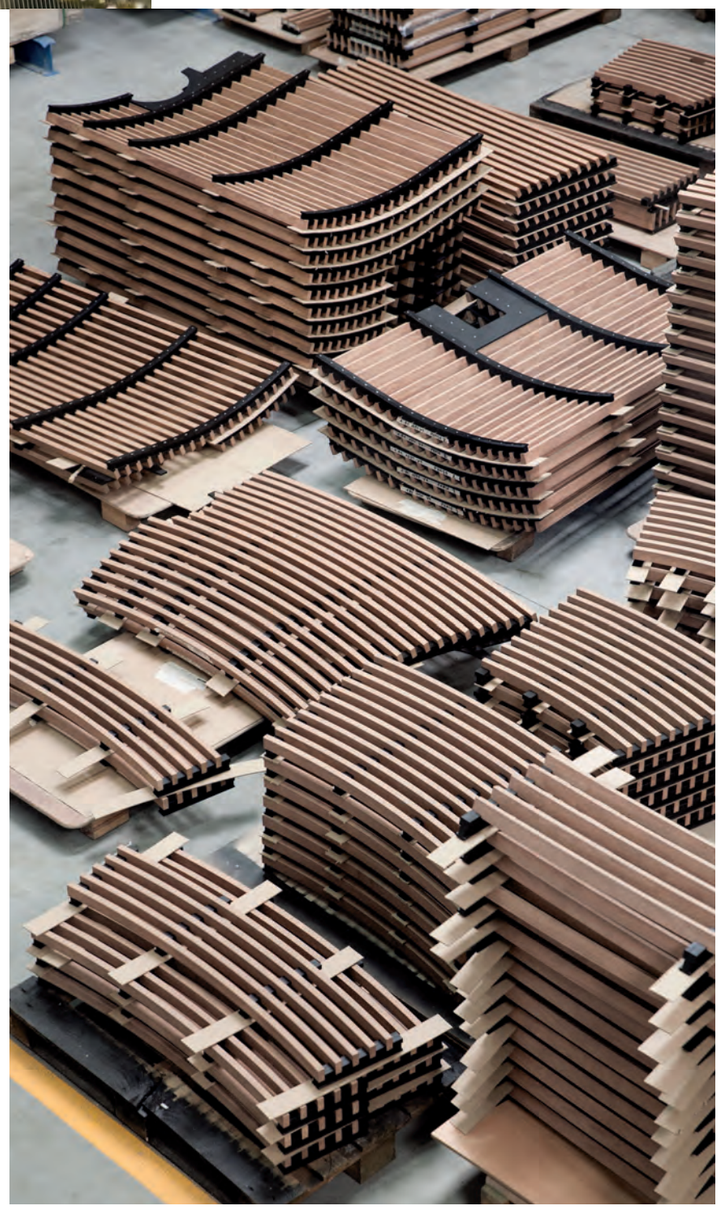
A new facility dedicated to R&D

The R&D team, inside the Laudescher Lab' work on the design and eco-conception of new product ranges, as well as researching new bio-sourced materials.
The lab gives life to the most innovative projects.



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 and acoustic engineers, to lead the company into new areas and help it build an essential vision for the future.
For example, Laudescher called upon Woodlabo, a designer's collective, to design the LINEA 3D collection.
Patrick Jouin is the latest designer to have agreed to help create the future Laudescher products.



High performance panels

High acoustic performance

Our panels are specifically engineered to integrate standard acoustic absorbing tiles, increasinng 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. The acoustic results of new products are determined by calculation.

Perfect finish

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

Optimum fire reaction

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

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

All of our timber 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 recycable. Discover our FSC® products, available on request.

LABEL FSC® – N° FSC-C125874
LABEL PEFC™ – N° PEFC/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.

Limited carbone footprint

The low impact of Laudescher's panels contributes to the buildings carbon neutral targets. Our panels have an environmental product data sheet.

A choice of species and finishes

Natural species

Pine

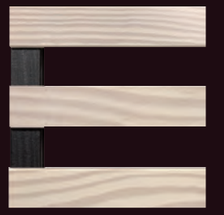
Oak

Douglas fir

Silver fir

Varnished finishes

Clear varnish



White Wash Soft varnish

White Wash varnish

Wax Color finishes (varnish option available)

White

Honey

Chocolate

Cherry

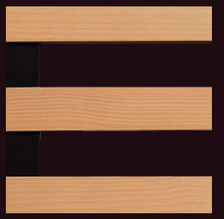
Mahogany

Grey

Wenge

Oak

White Oak



Douglas

Green

Black

2

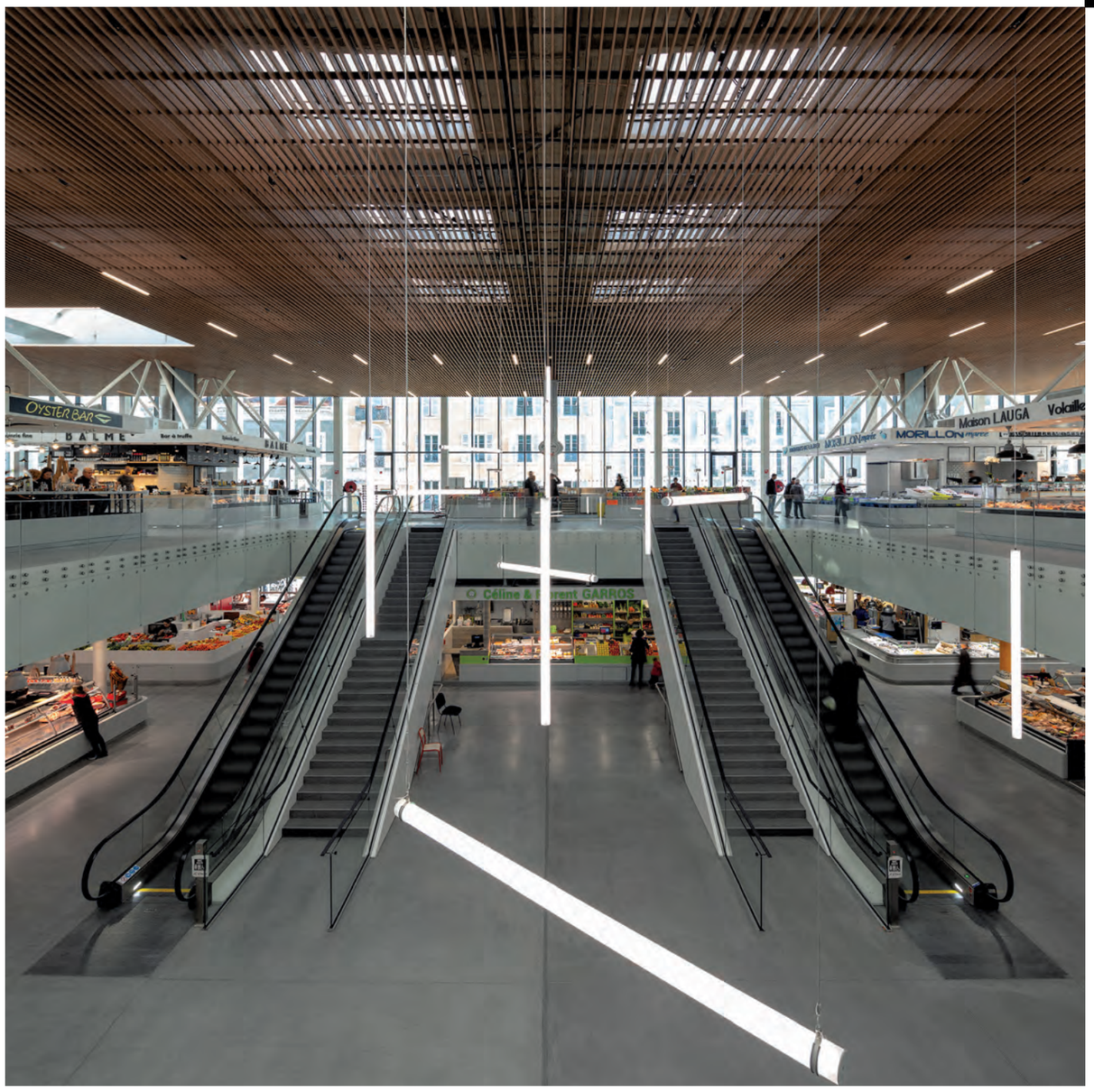
Projects

EVERY YEAR, LAUDESCHER TAKES PART IN MORE THAN 500 MAJOR PROJECTS IN ALL BUSINESS SECTORS, IN FRANCE AND INTERNATIONALLY

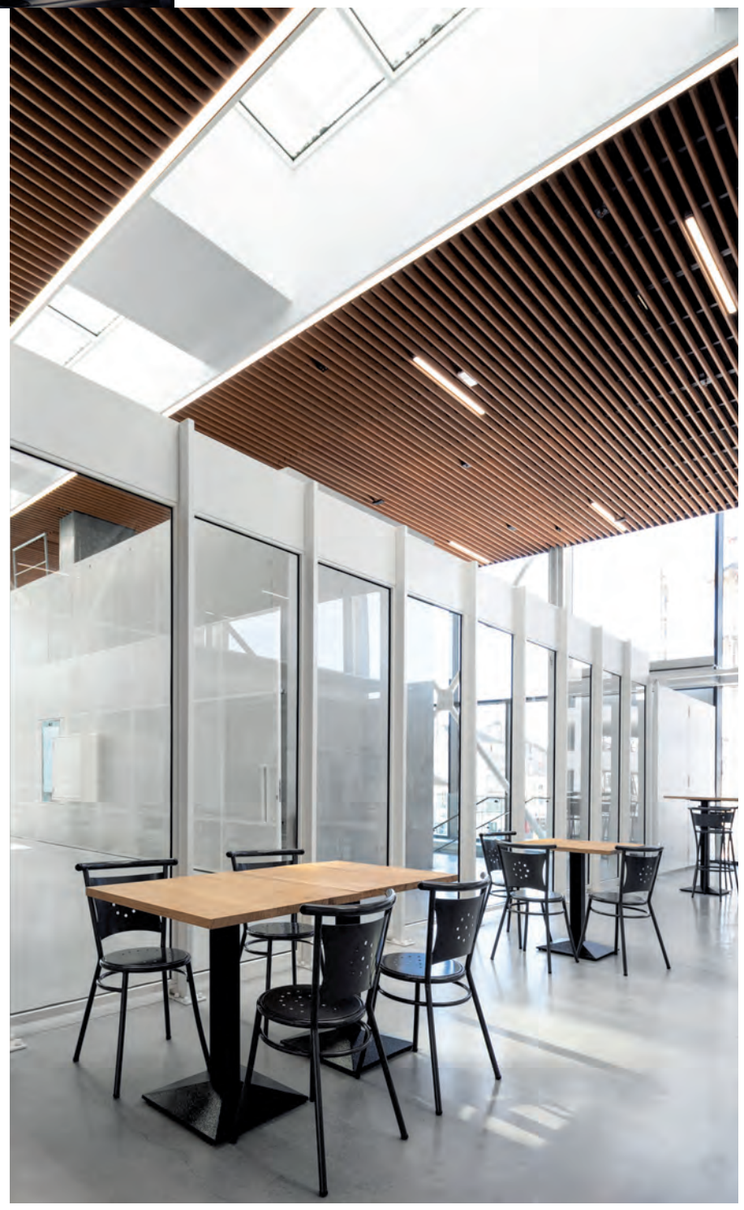
Les Halles, Pau

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

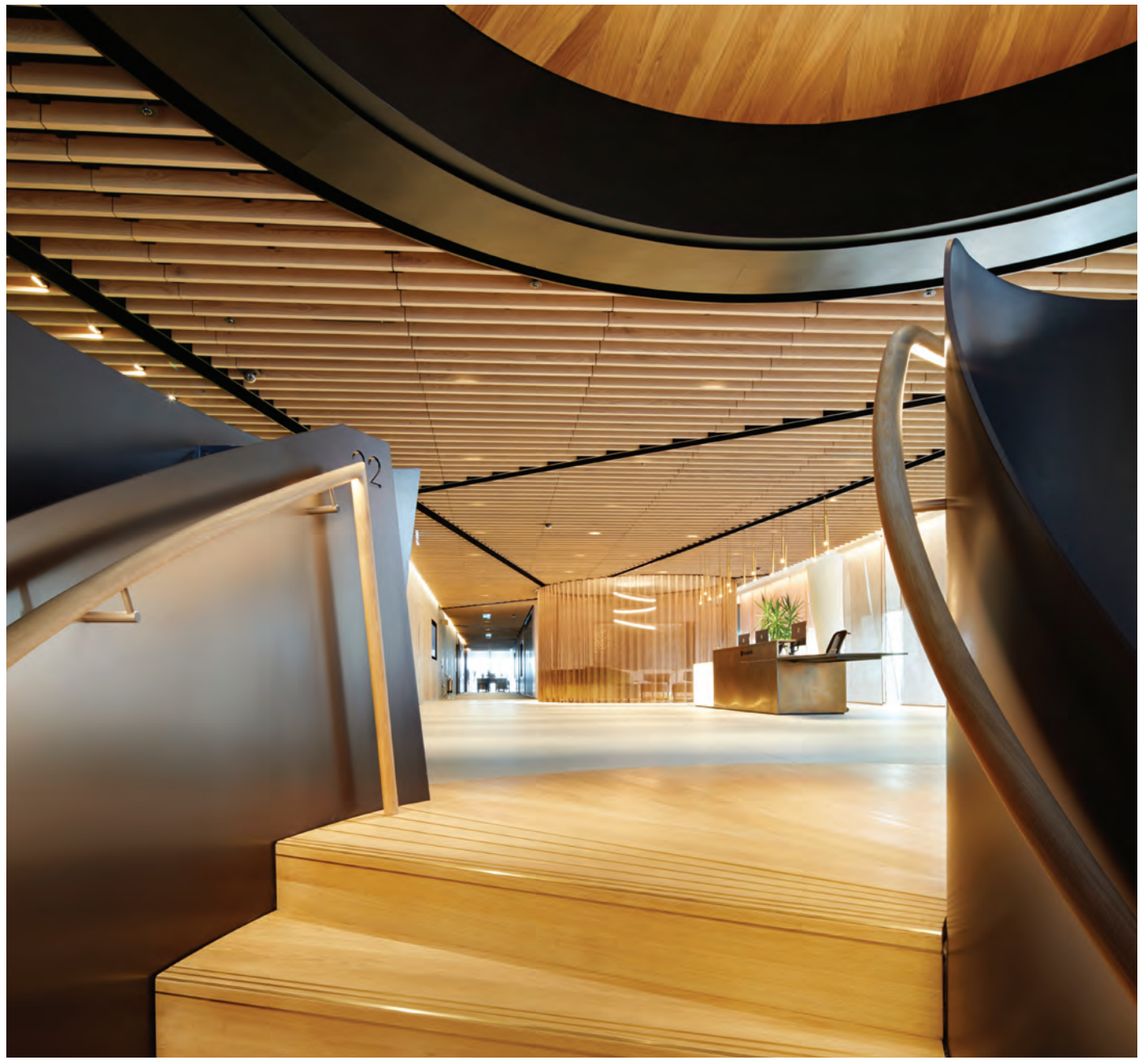


A redesign of spaces in a refurbished historic site



Freshfields offices, London

A sophisticated welcome



© Photos : Jack Hobhouse

Description

Location : London, United Kingdom
Activity : offices
Project owner : Freshfields Bruckhaus Deringer
Architect : Sheppard Robson
Products : **LINEA** bespoke ceiling
Species : pine
Finish : Wax Color white oak

Le Paris-Brest restaurant, Rennes

Description

Location: Rennes, France
Activity : restaurant
Project owner: Demeter
Architect : Jouin Manku
Products : **LINEA** bespoke ceiling
Species : oak
Finish : natural

© Photos : Nicolas Matheus

Oak waves

New Scotland Yard, London

Description

Location : London, United Kingdom
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

© Photos : Timothy Soar

Financial Conduct Authority, London

© Photo : Laudescher

Bespoke space for a personalised reception

Description

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

Koge Nord Station, Denmark

Description

Location: Koge, Denmark
Activity : transport
Project owner : Banedanmark, City of Køge and DSB
Architect : COBE
Products : **LINEA** bespoke ceiling and wall
Species : oak
Finish : varnish

Wooden curves

France Bleu
Breizh Izel, Quimper

Description

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

Silence : On Air

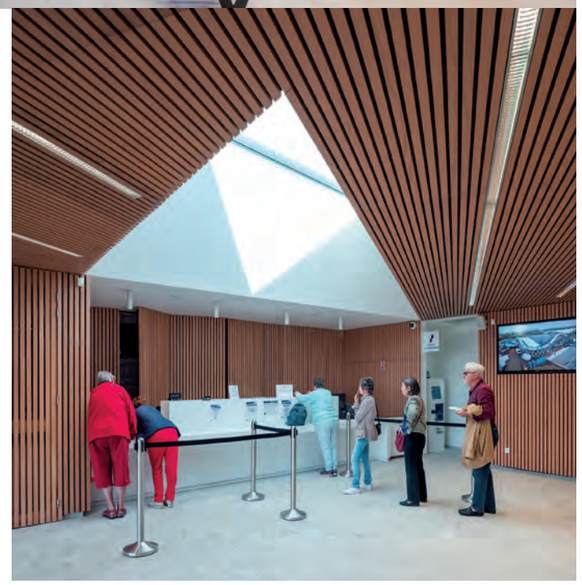
© Photos : Pascal Leopold

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

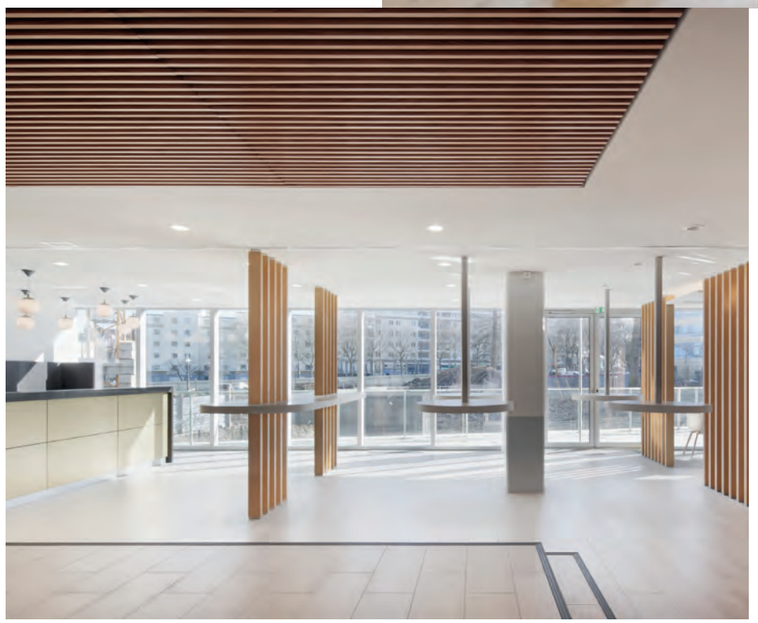
Description

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

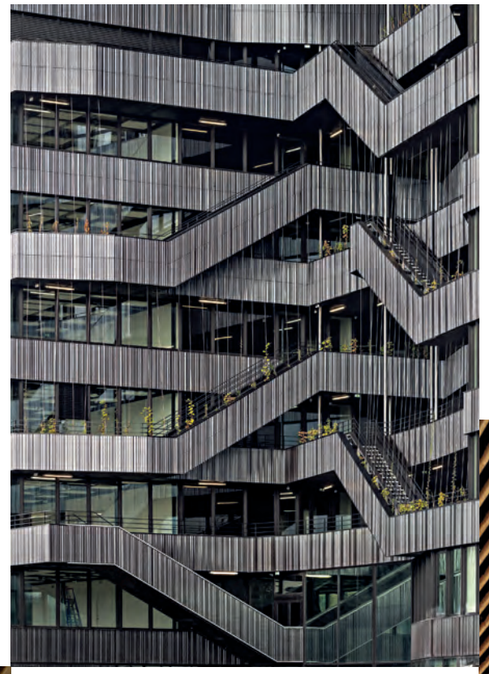


© Photos : Camille Gharbi

Description

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

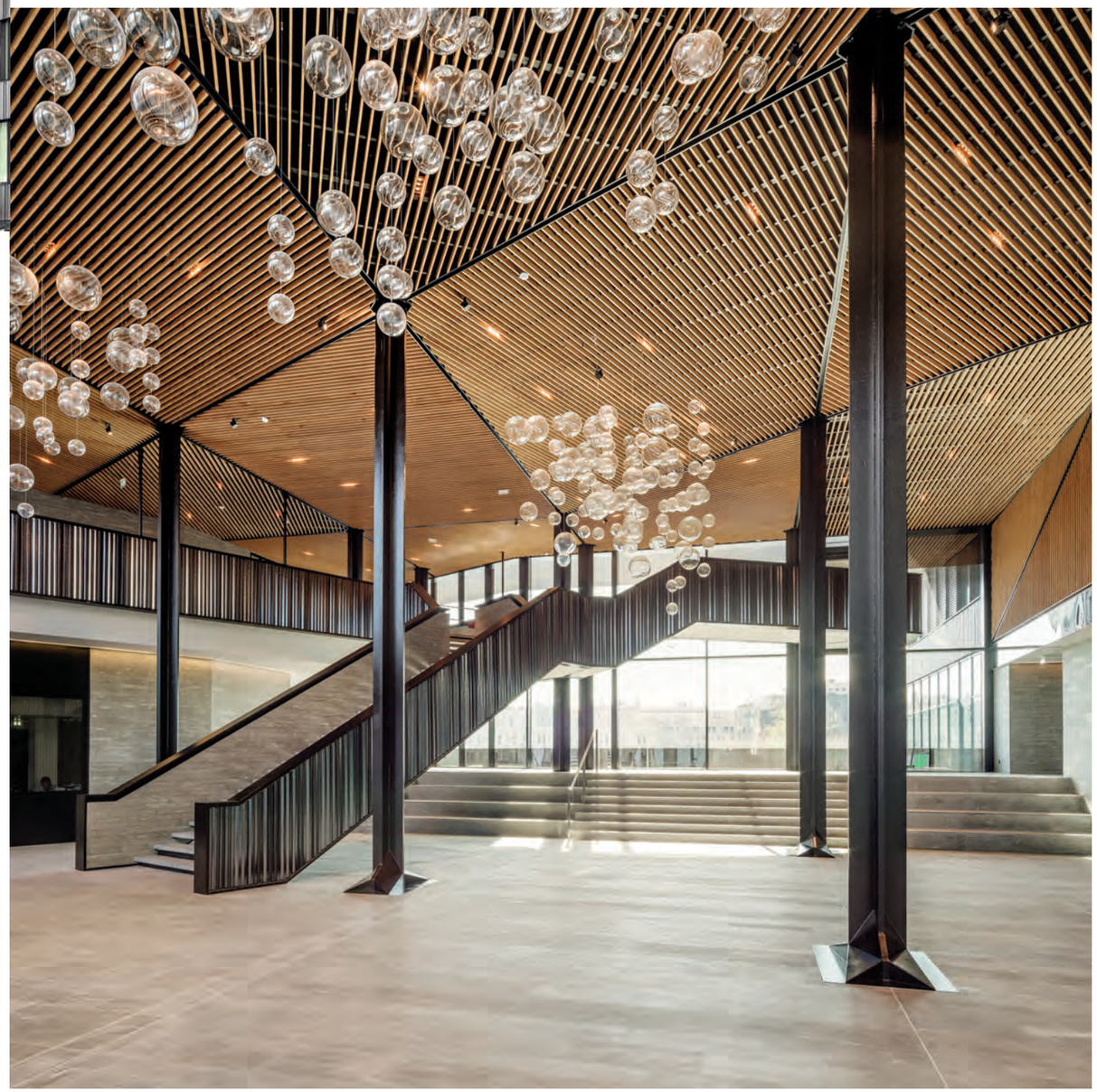
Java Batignolles 07, Paris



Description

Location : Paris, France
Activity : offices
Project owner : Builders and partners
Architects : Brenac & Gonzalez and associates + Chartier Dalix
Products : **LINEA 2.4.3** ceiling and wall + **LINEA 2.6.8** ceiling
Species: pine
Finish : Wax Color Honey

Faceted ceilings



Siège Björg, Saint-Genis-Laval

Description

Location : Saint-Genis-Laval, France
Activity : tertiaire
Project owner : Groupe Cardinal
Architect : Z Architecture
Products : **LINEA 2.4.3** plafond
Species : pine
Finish : Wax Color Oak

Working rhymes with well-being

© Photos : Jonathan Letoublon

Restaurant Lore Ttipia, Bidarray

Description

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

© Photo : Emmanuel Lattes

Classic revisited

Claracq museum

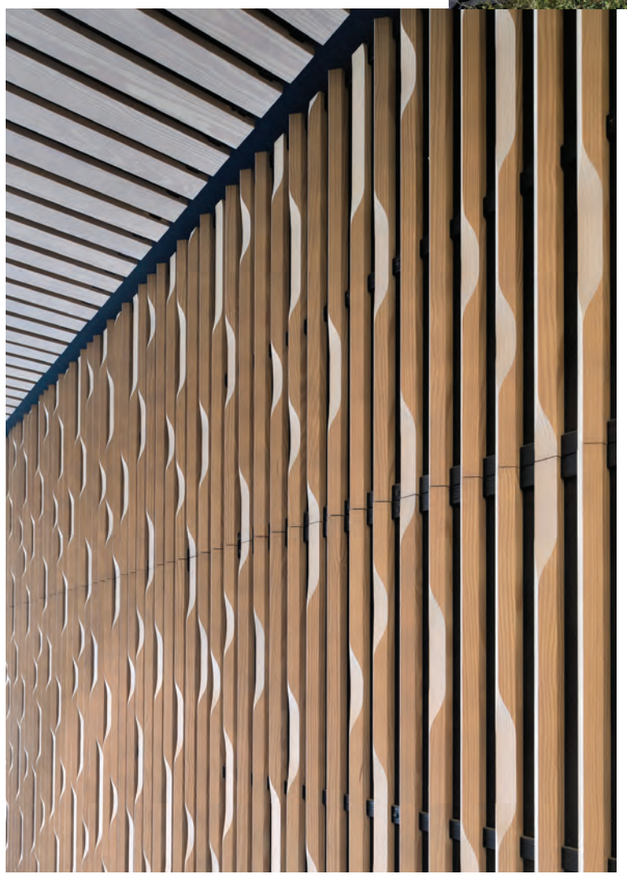
Description

Location: Claracq, France
Activity : museum
Products: **LINEA 3D PIX** ceiling
Project owner : Communauté de Communes des Luys en Bearn
Architects : DESPRE Architectes
Design : Woodlabo
Species : pine
Finish : Wax Color Black

© Photo : Xavier Dumoulin - DESPRE Architectes

Modernising history

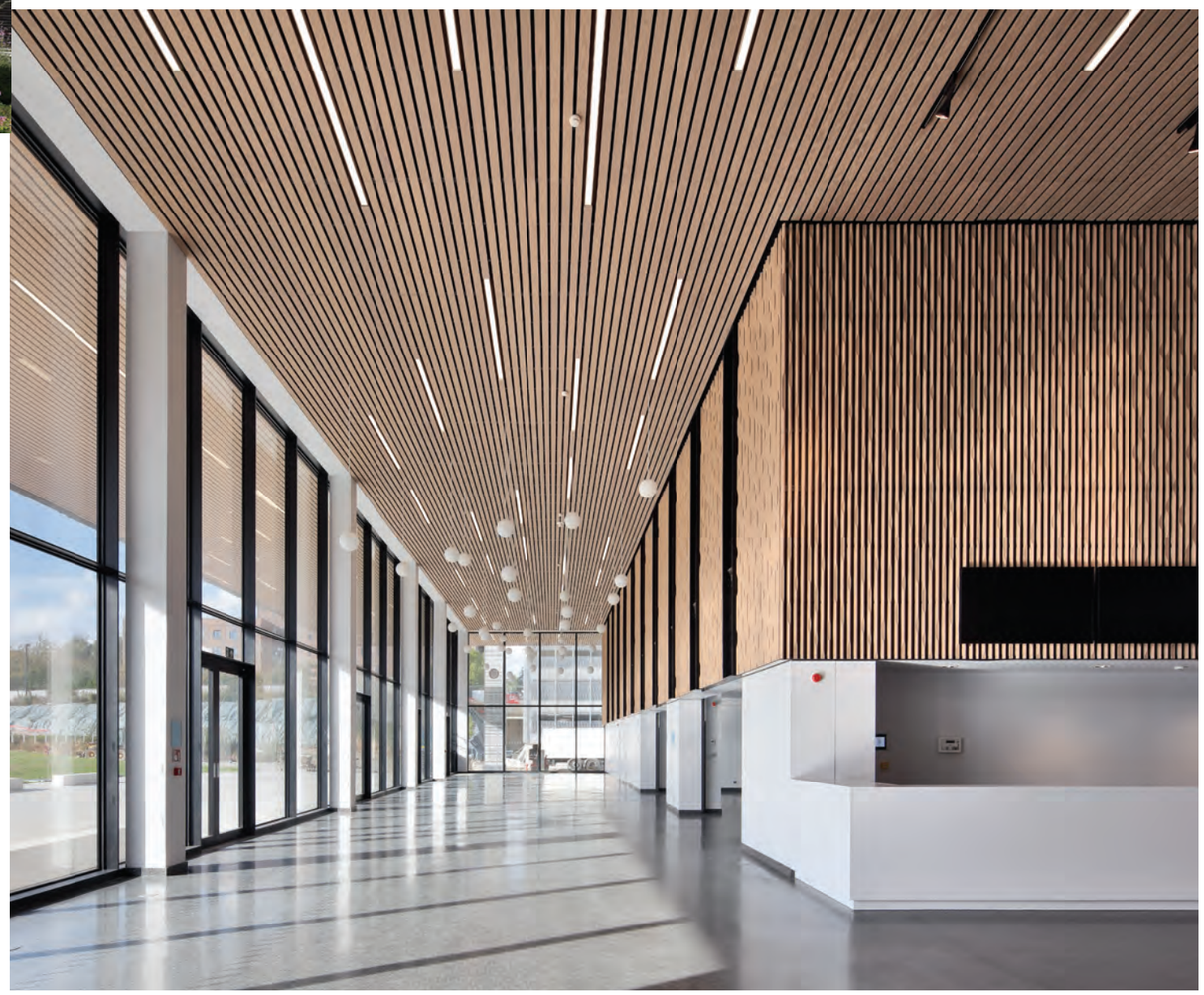
Jules Bordet institute, Brussels



Comfort helping improve health

Description

Location: Brussels, Belgium
Activity: health
Products : **LINEA 3D EDGE** wall + **LINEA 9.2.3 R** ceiling
Project owner : Jules Bordet Institute (AAMR)
Architects : Brunet et Saunier & Archi 2000
Design : Woodlabo
Species : pine
Finish : Wax Color White Oak



© Photos : Georges De Kinder

Contemporary home

Outdoor extension

Description

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

© Crédit : Laudescher

Offices

Friendlier offices

© Crédit : Laudescher

Description

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

3

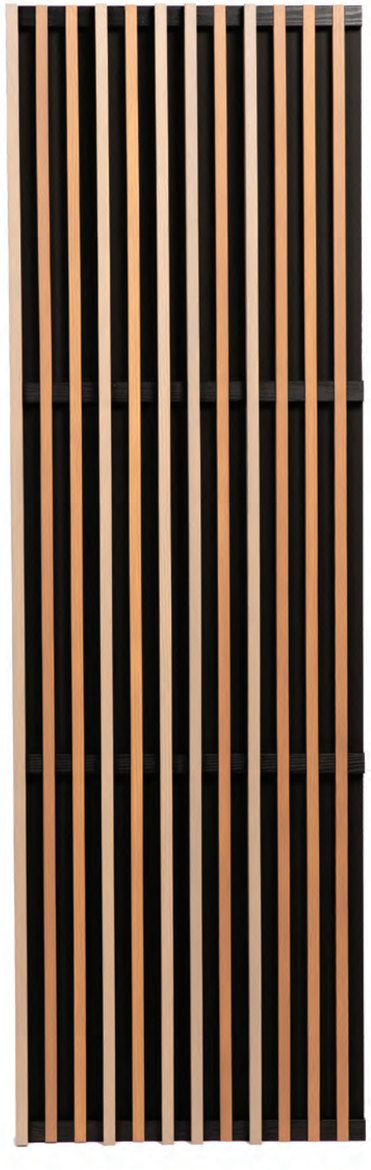
Products LINEA

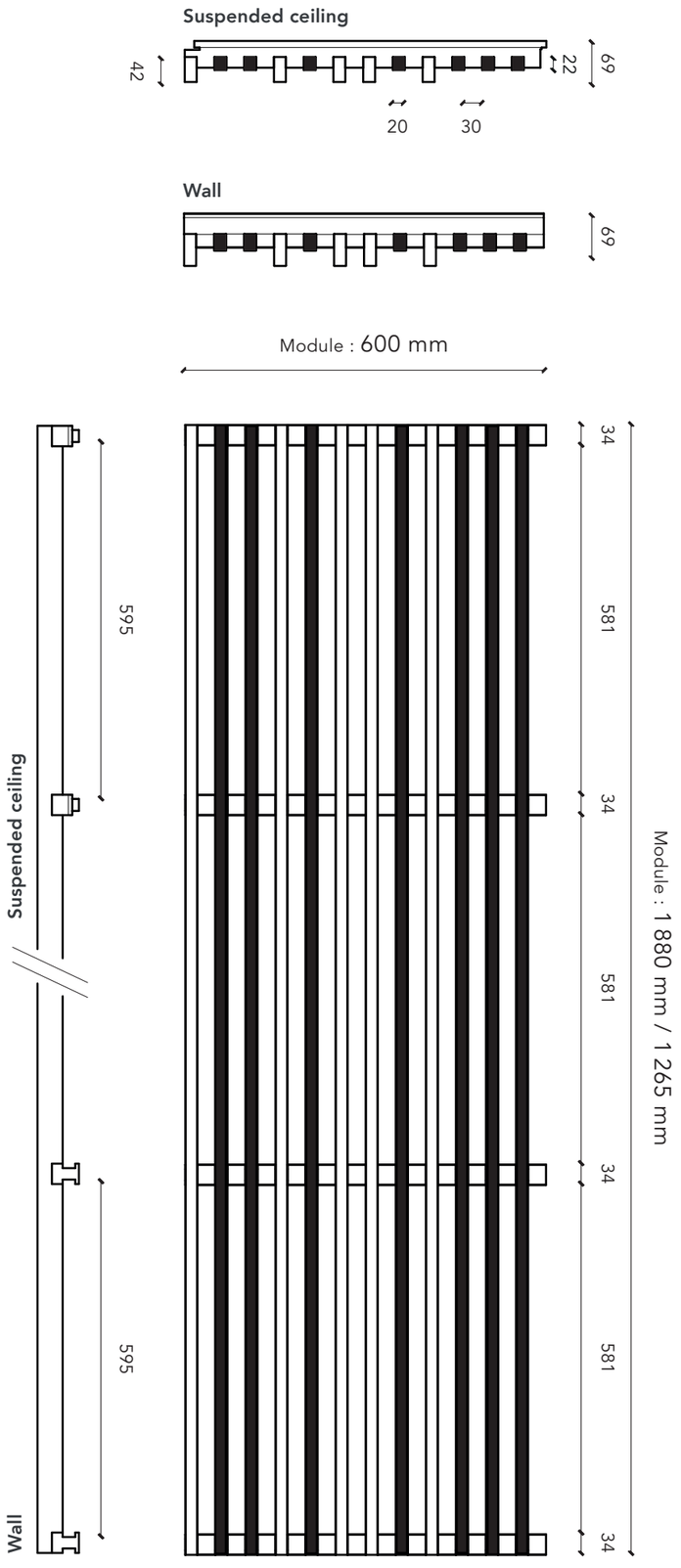
INTERIOR

SUSPENDED CEILING AND WALL CLADDING

LINEA TOUCH

LINEA RANGE
INTERIOR

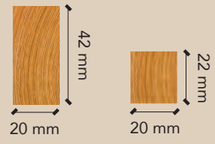




CREATE AN UNIQUE DESIGN

LINEA TOUCH is a slat by slat customizable panel range

2 sections of slats



1 species *(pine)*

12 finishes *(see p.19)*

ONLINE CONFIGURATOR

TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 x 600 mm
Spacing between slats	30 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	69 mm
Wood species	Pine
Openness percentage	60%

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

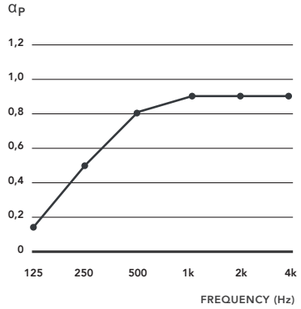
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA TOUCH WALL

+ LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

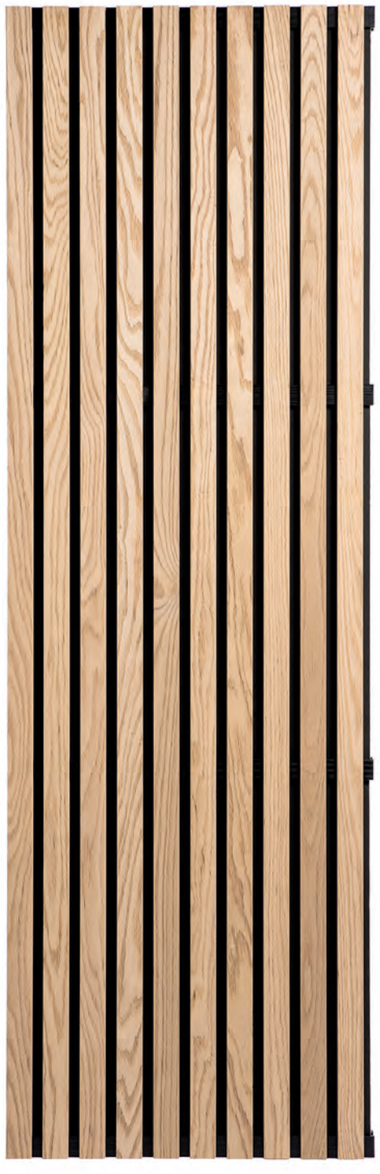


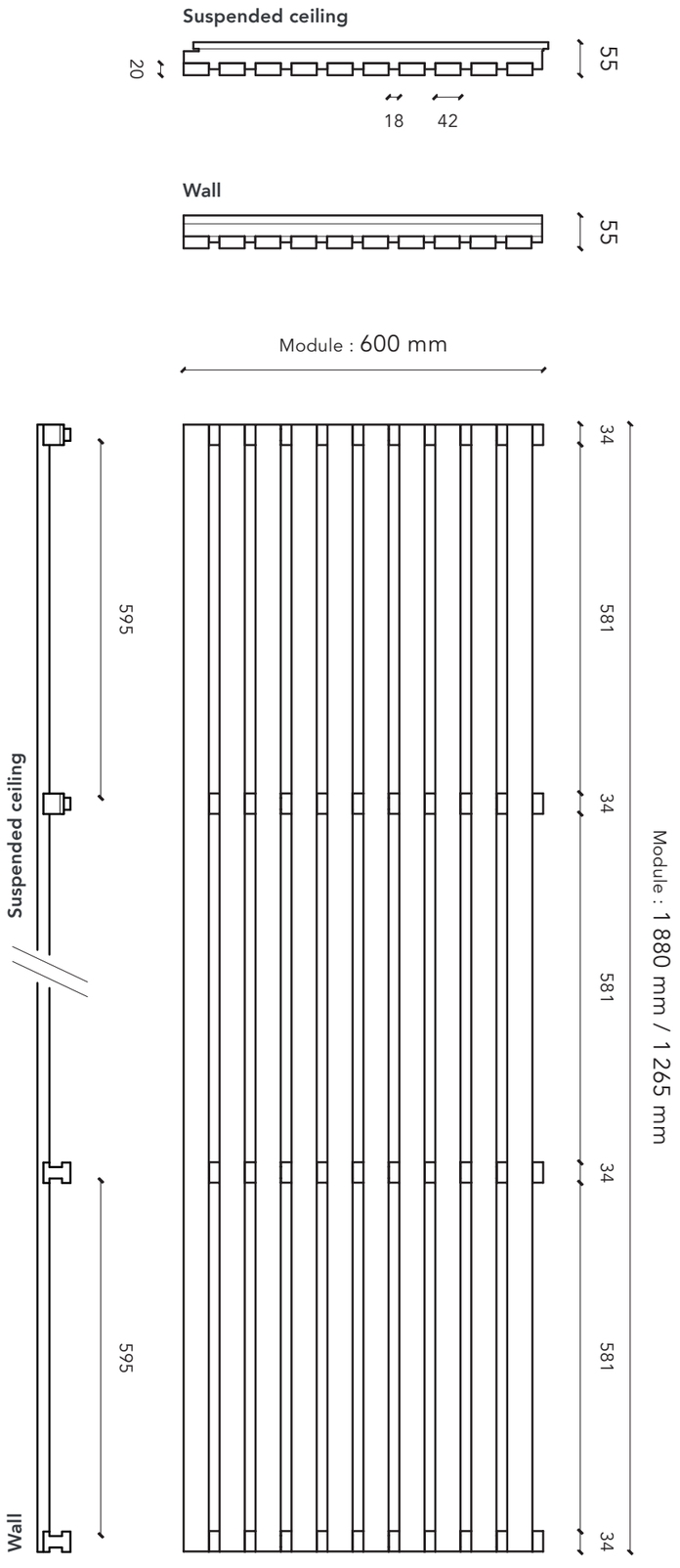
WEIGHTED INDEX :
$\alpha_w = 0,80$

ABSORPTION CLASS :
Classe B

LINEA 4.2.1

LINEA RANGE
INTERIOR





TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	11,8 kg/m²
Surface mass (oak)	13,9 kg/m²
Surface mass (douglas fir)	11,4 kg/m²
Openness percentage	30 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

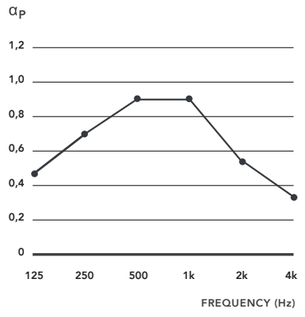
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 4.2.1 CEILING + LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT



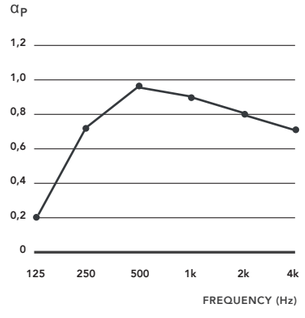
WEIGHTED INDEX :
$\alpha_w = 0,55$

ABSORPTION CLASS :
Class D

LINEA 4.2.1 WALL + LR 20 mm on plenum E50 mm

Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

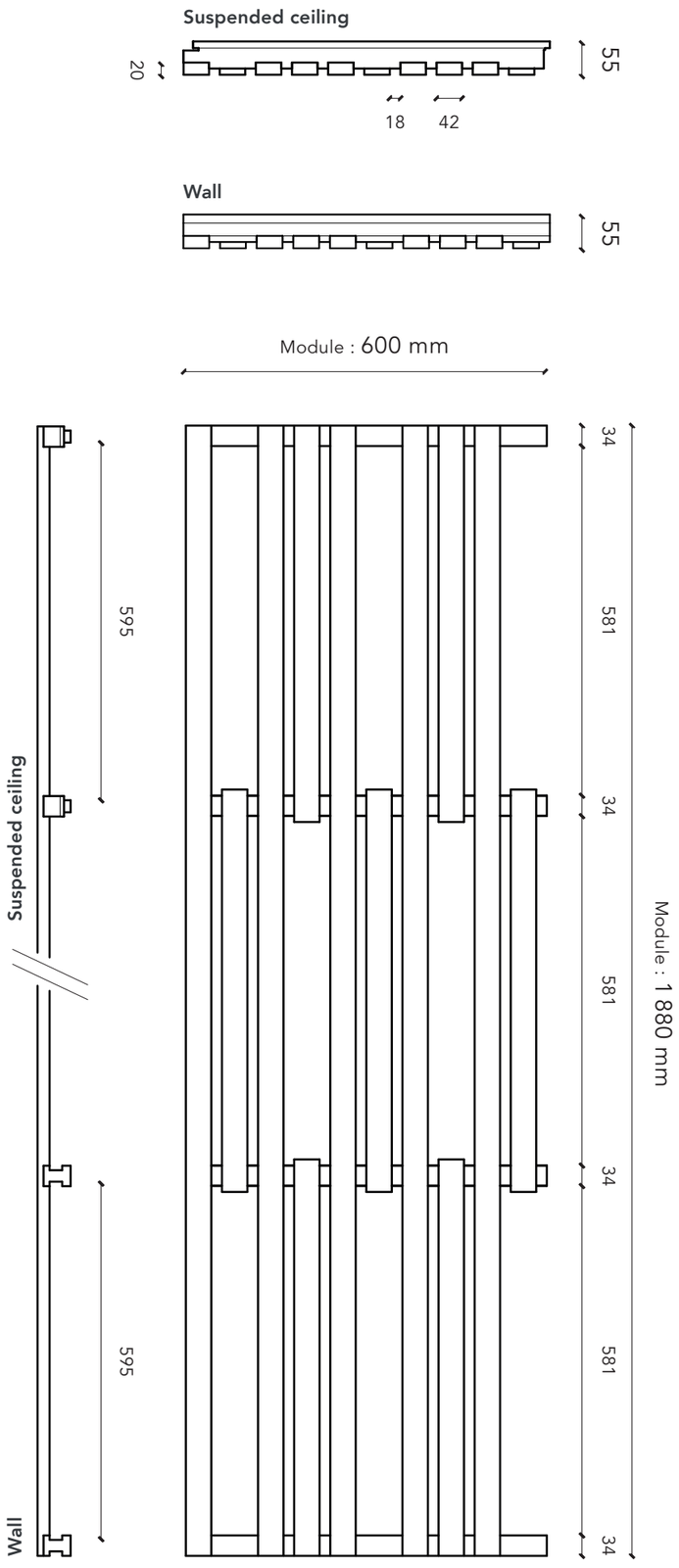


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 4.2.1 Lite

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 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, silver fir
Surface mass (pine)	9,1 kg/m²
Surface mass (oak)	10,7 kg/m²
Surface mass (douglas fir)	8,9 kg/m²
Openness percentage	48 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

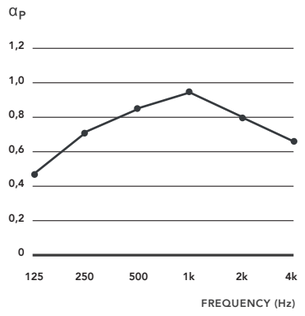
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 4.2.1 LITE CEILING

+ LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX :
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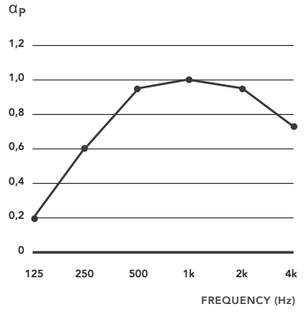
ABSORPTION CLASS :
Class B

LINEA 4.2.1 LITE WALL

+ LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX :
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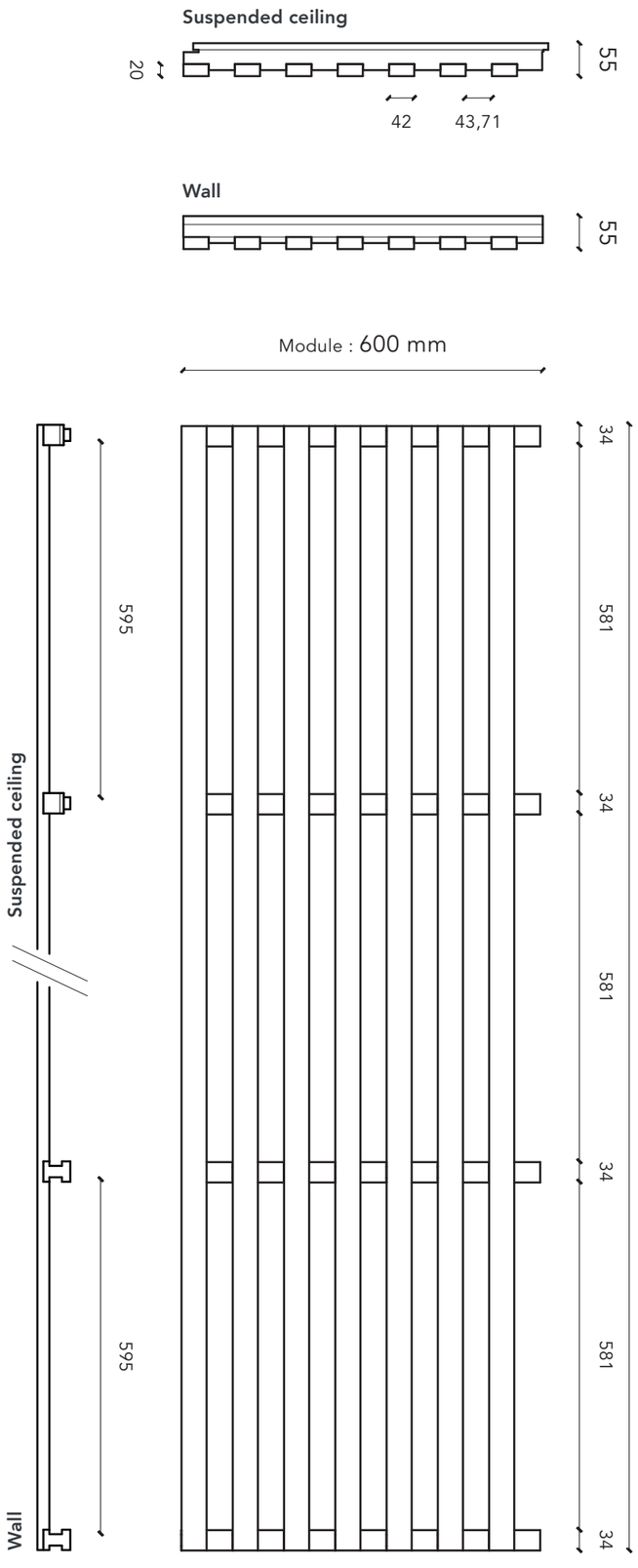
ABSORPTION CLASS :
Class B

LINEA 4.2.4

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	8,9 kg/m²
Surface mass (oak)	10,4 kg/m²
Surface mass (douglas fir)	8,7 kg/m²
Openness percentage	51 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

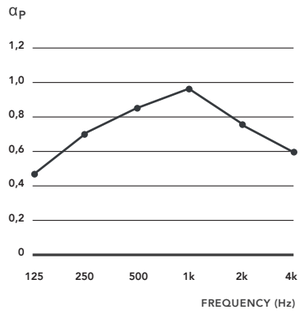
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 4.2.4 CEILING + LR 20 mm on plenum E250 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

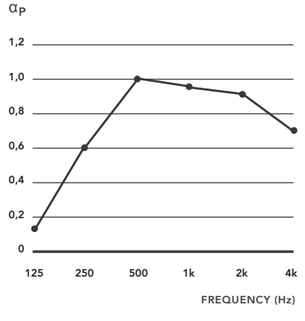


WEIGHTED INDEX :
$\alpha_w = 0,75$

ABSORPTION CLASS :
Class C

LINEA 4.2.4 WALL + LR 20 mm on plenum E50 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

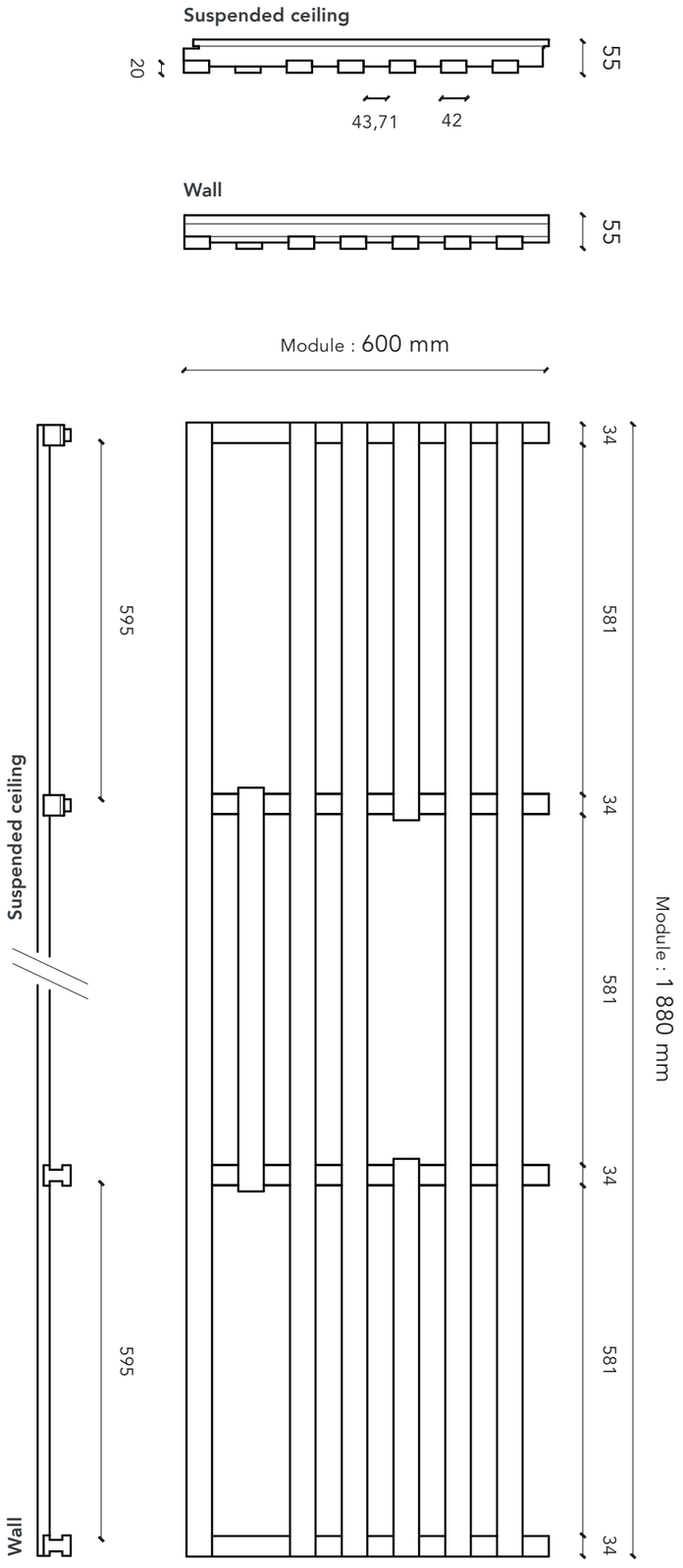


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 4.2.4 Lite

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 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, silver fir
Surface mass (pine)	7,8 kg/m²
Surface mass (oak)	9,1 kg/m²
Surface mass (douglas fir)	7,6 kg/m²
Openness percentage	58 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

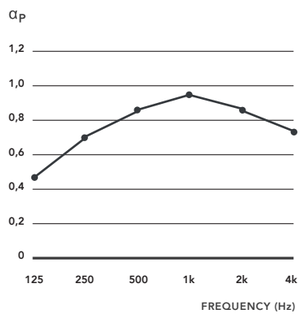
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 4.2.4 LITE CEILING

+ LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT



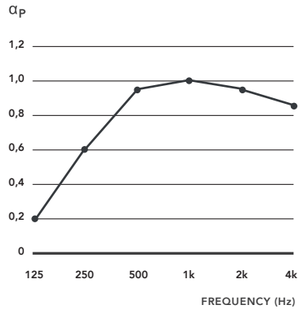
WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 4.2.4 LITE WALL

+ LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

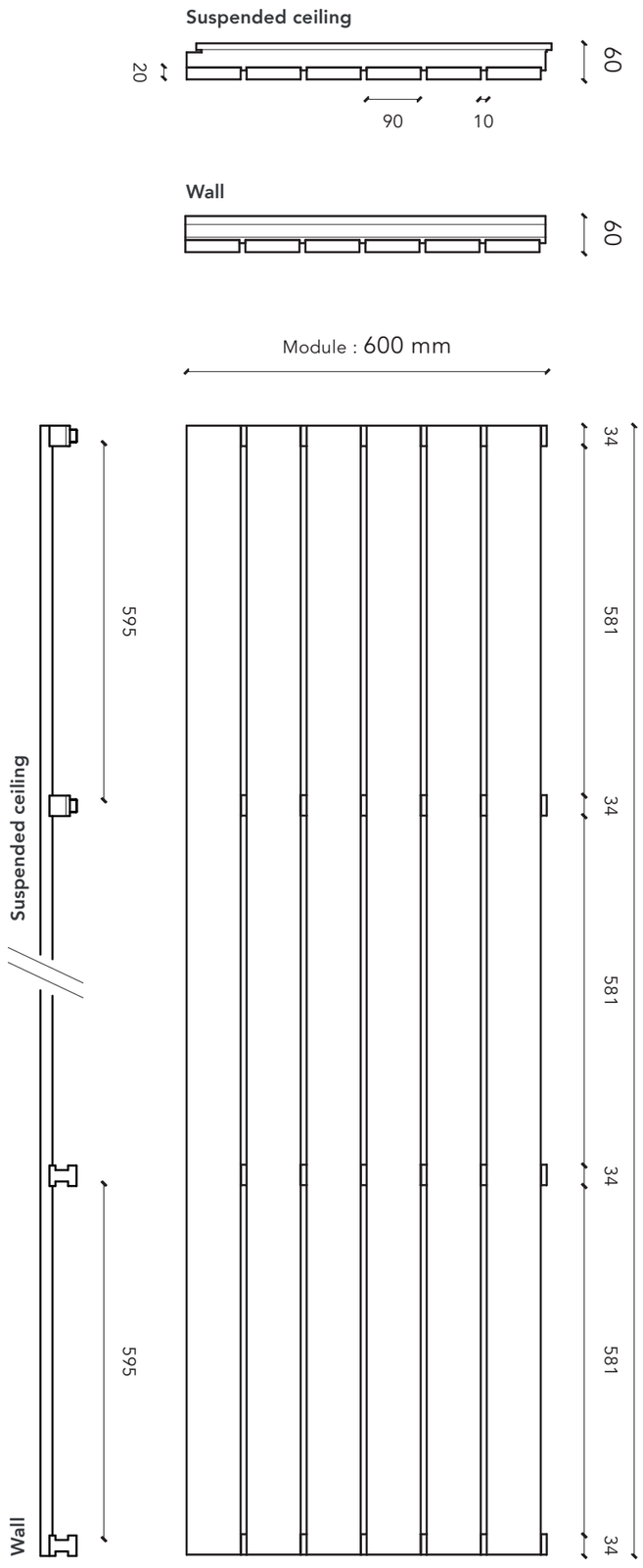


WEIGHTED INDEX :
$\alpha_w = 0,90$

ABSORPTION CLASS :
Class A

LINEA 9.2.1

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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	60 mm
Wood species	Pine, oak, douglas fir, silver fir
Surface mass (pine)	14,7 kg/m²
Surface mass (oak)	17,5 kg/m²
Surface mass (douglas fir)	14,3 kg/m²
Surface mass (silver fir)	13,9 kg/m²
Openness percentage	10 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

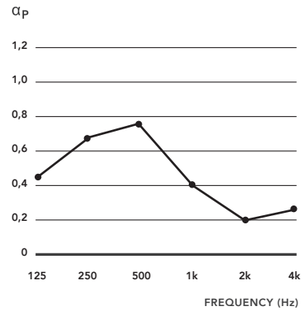
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 9.2.1 CEILING + LR 20 mm on plenum E250 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

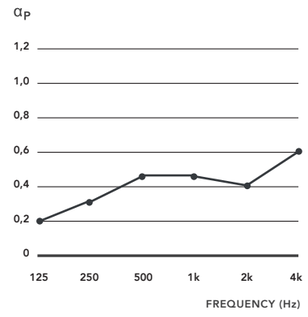


WEIGHTED INDEX :
$\alpha_w = 0,30$

ABSORPTION CLASS :
Class D

LINEA 9.2.1 WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

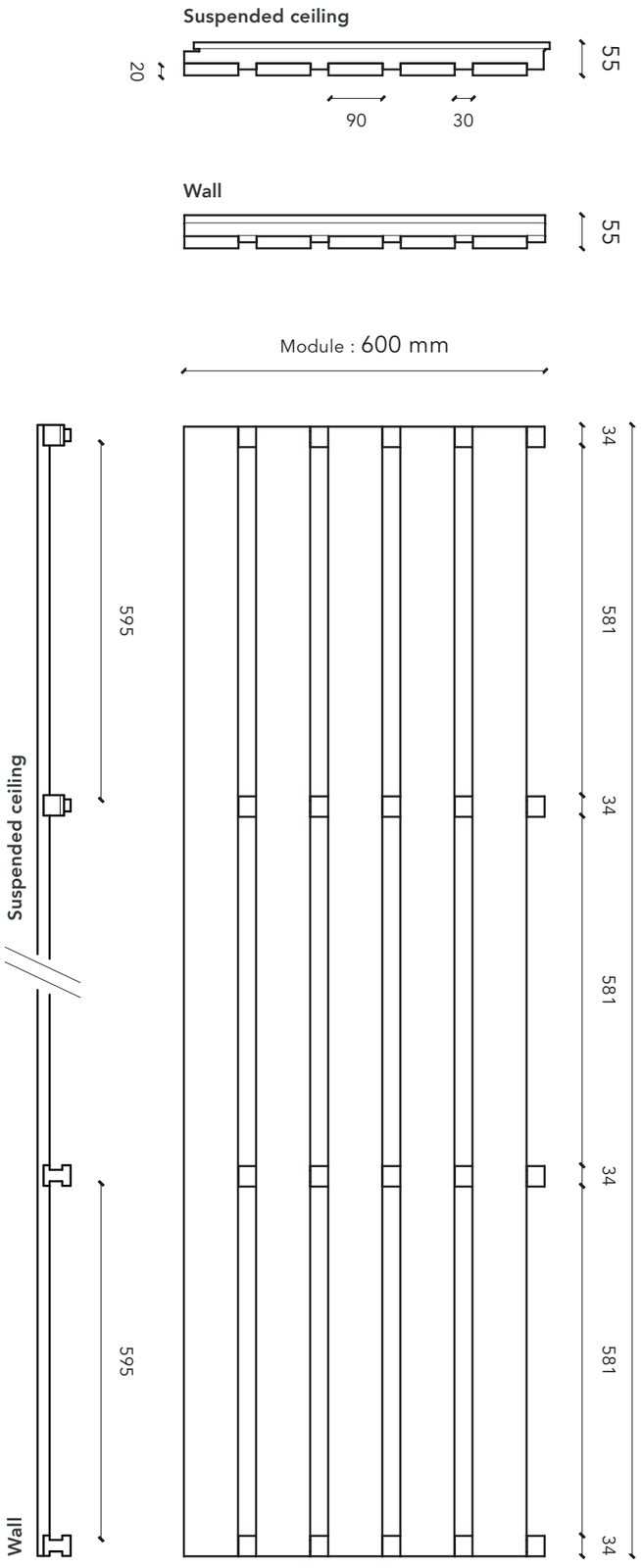


WEIGHTED INDEX :
$\alpha_w = 0,20$

ABSORPTION CLASS :
Class E

LINEA 9.2.3

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	12,4 kg/m²
Surface mass (oak)	14,8 kg/m²
Surface mass (douglas fir)	12,1 kg/m²
Surface mass (silver fir)	11,7 kg/m²
Openness percentage	25 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

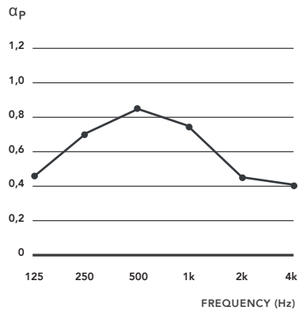
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 9.2.3 CEILING + LR 20 mm on plenum E250 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

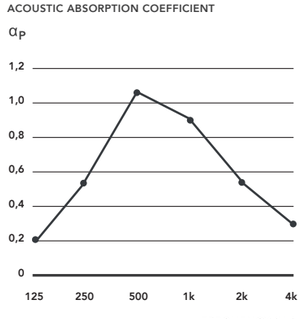


WEIGHTED INDEX :
$\alpha_w = 0,50$

ABSORPTION CLASS :
Class D

LINEA 9.2.3 WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

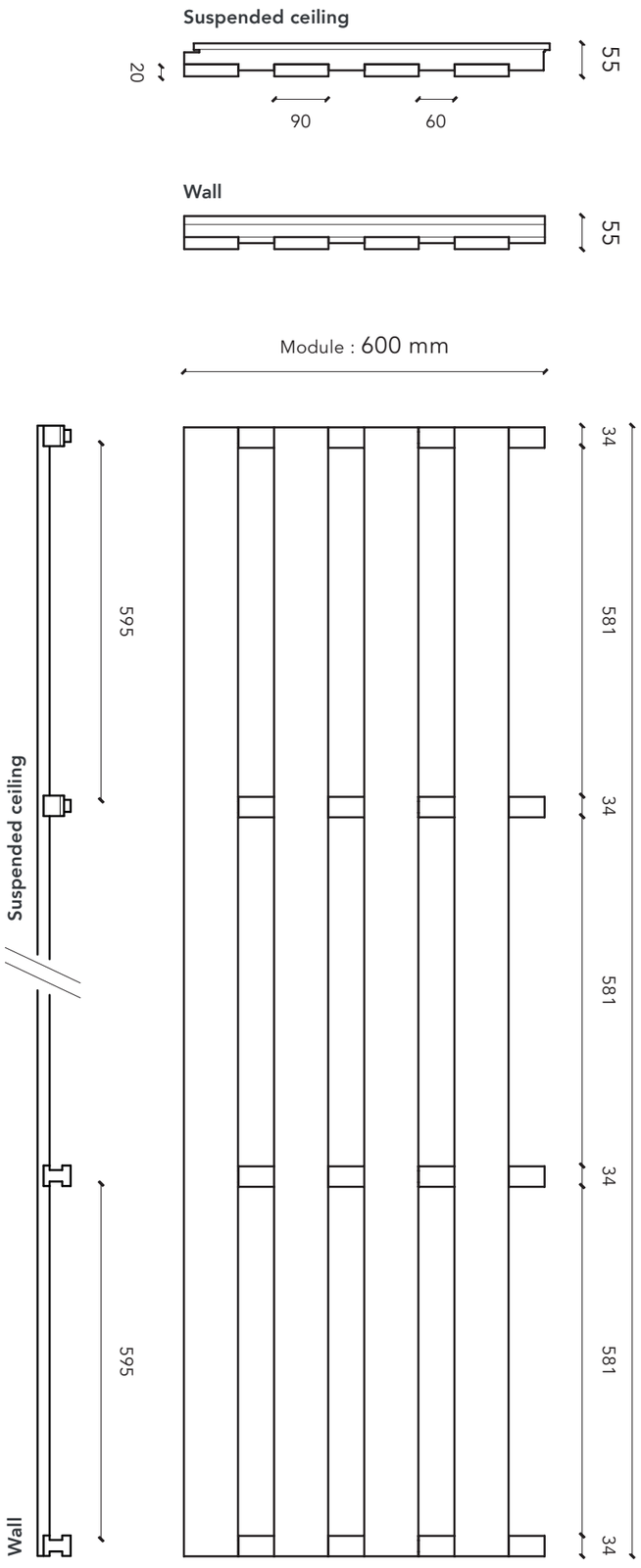


WEIGHTED INDEX :
$\alpha_w = 0,50$

ABSORPTION CLASS :
Class D

LINEA 9.2.6

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	10,4 kg/m²
Surface mass (oak)	12,3 kg/m²
Surface mass (douglas fir)	10,1 kg/m²
Surface mass (silver fir)	9,8 kg/m²
Openness percentage	40 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

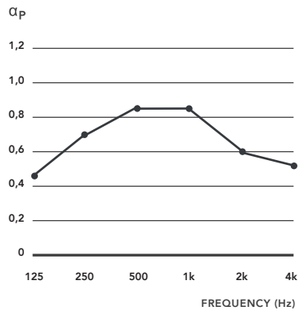
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 9.2.6 CEILING + LR 20 mm on plenum E250 mm

Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

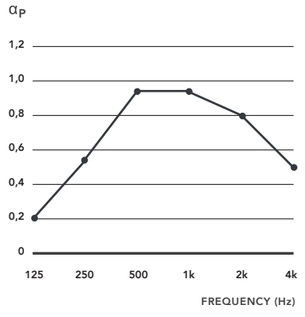


WEIGHTED INDEX :
$\alpha_w = 0,65$

ABSORPTION CLASS :
Class C

LINEA 9.2.6 WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

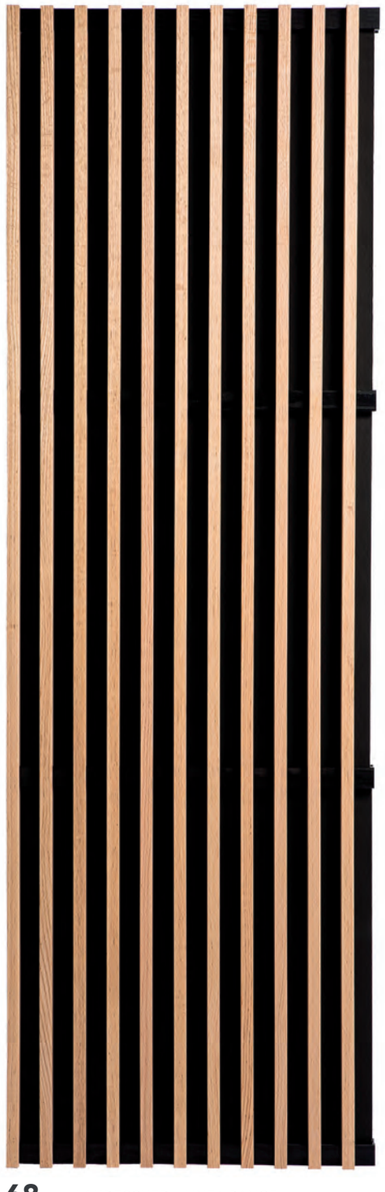


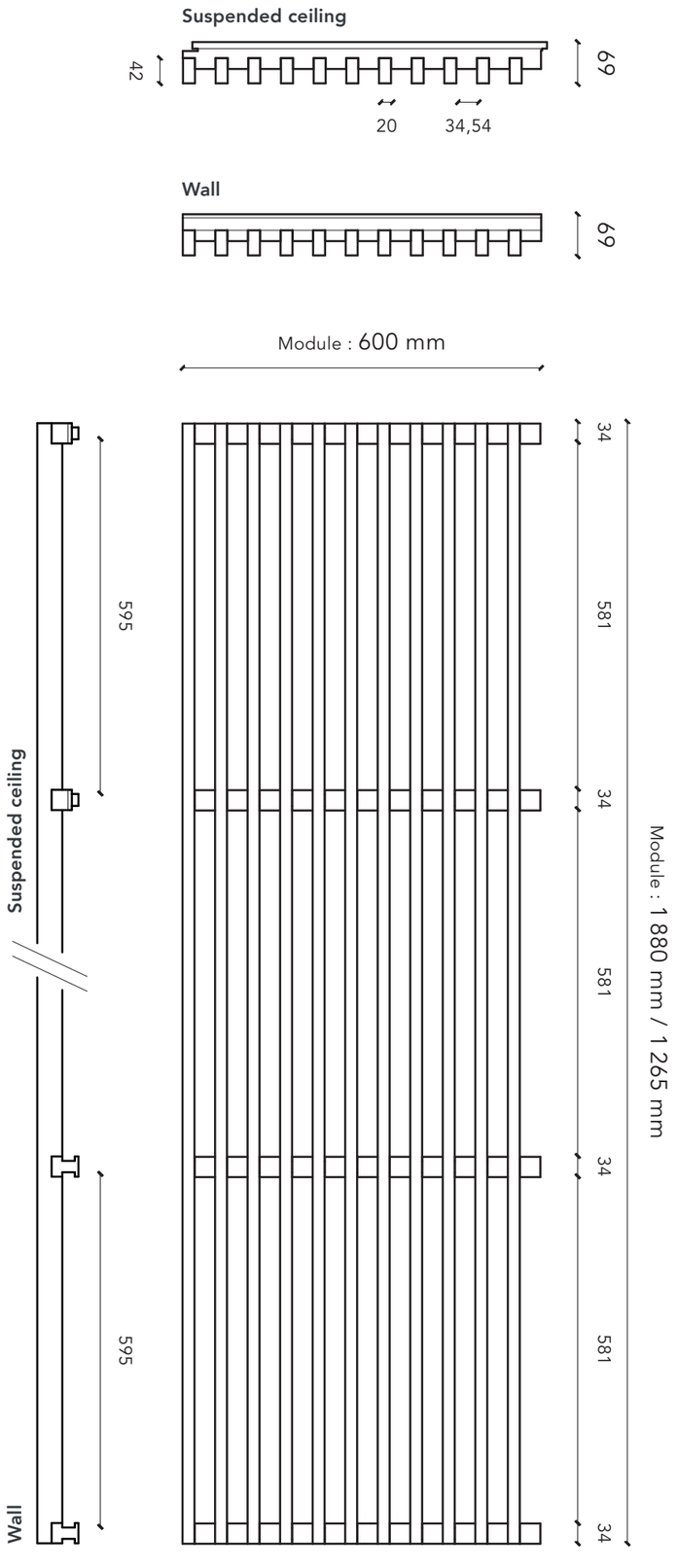
WEIGHTED INDEX :
$\alpha_w = 0,70$

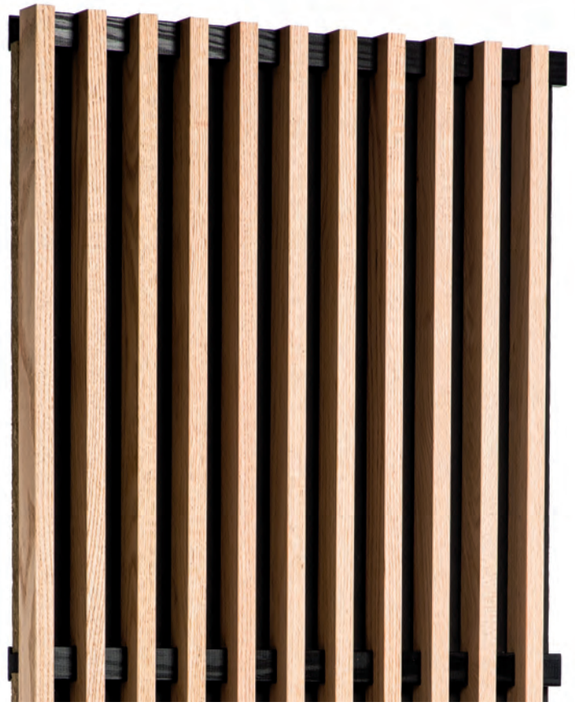
ABSORPTION CLASS :
Class C

LINEA 2.4.3

LINEA RANGE
INTERIOR







TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	12,8 kg/m²
Surface mass (oak)	15,2 kg/m²
Surface mass (douglas fir)	12,4 kg/m²
Openness percentage	63 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

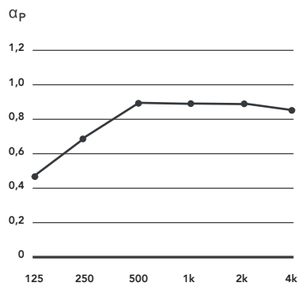
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.4.3 CEILING + LR 20 mm on plenum E250 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

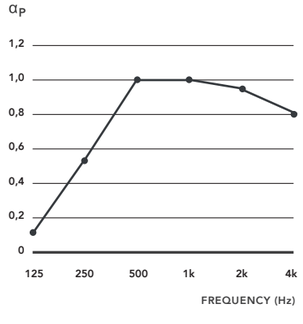


WEIGHTED INDEX :
$\alpha_w = 0,90$

ABSORPTION CLASS :
Class A

LINEA 2.4.3 WALL + LR 20 mm on plenum E50 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

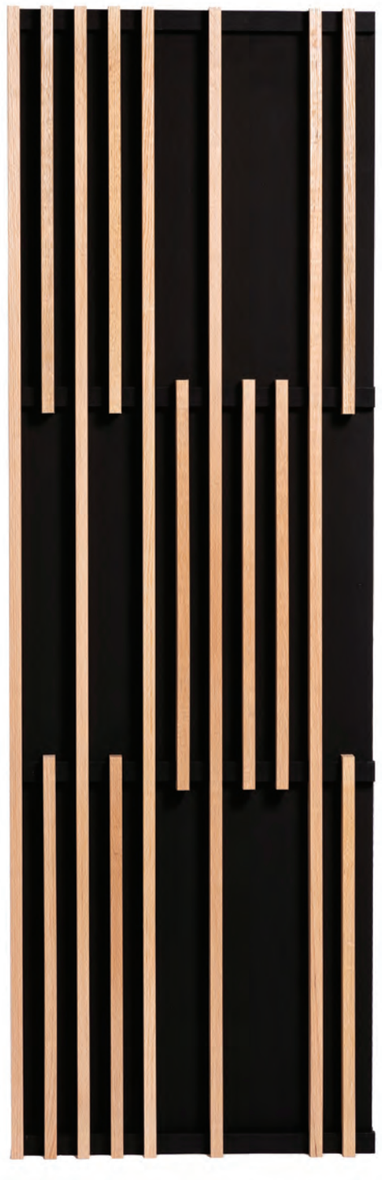


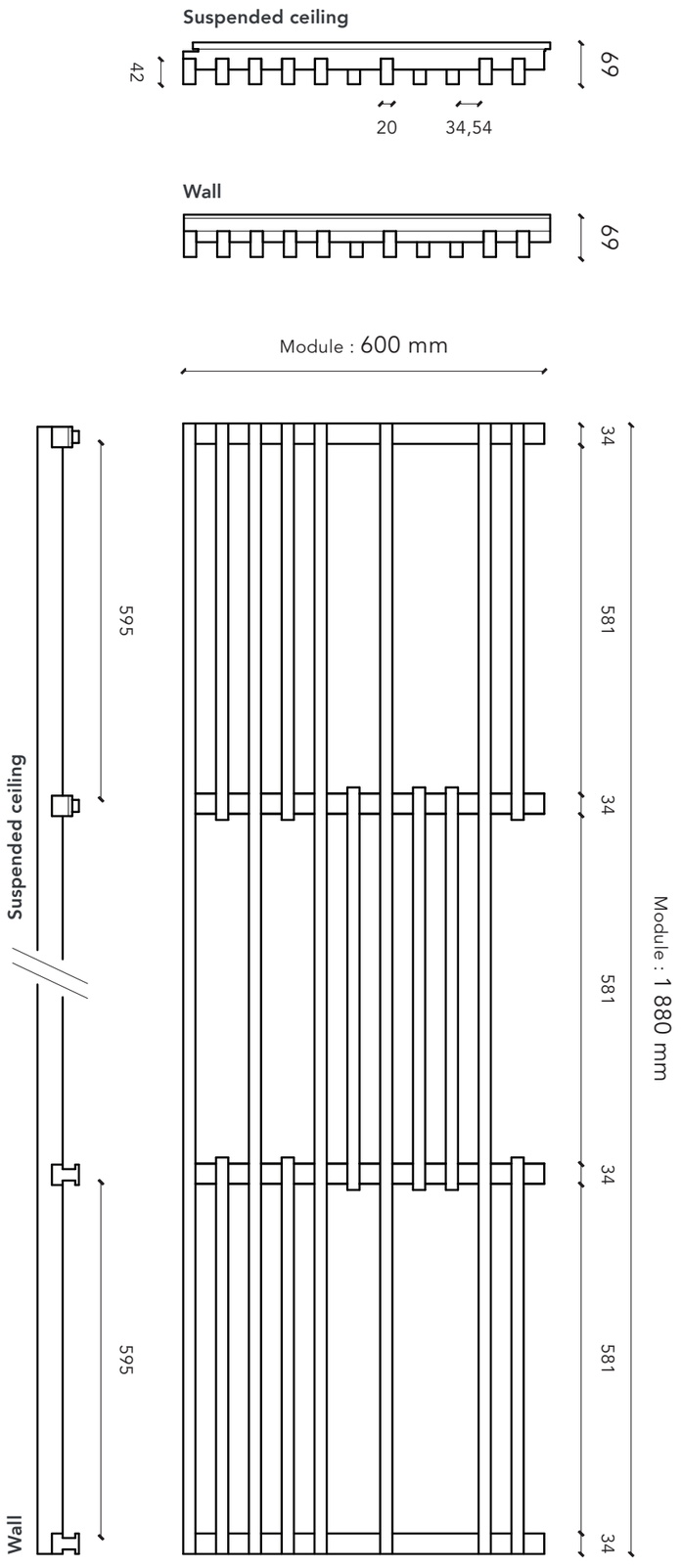
WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.4.3 Lite

LINEA RANGE
INTERIOR





TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 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, silver fir
Surface mass (pine)	9,8 kg/m²
Surface mass (oak)	11,6 kg/m²
Surface mass (douglas fir)	9,5 kg/m²
Openness percentage	73 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

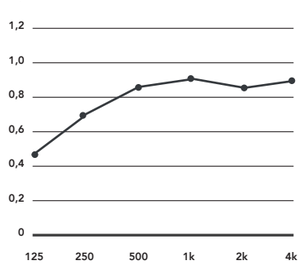
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.4.3 LITE CEILING

+ LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT



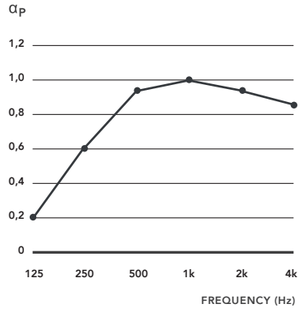
WEIGHTED INDEX :
$\alpha_w = 0,90$

ABSORPTION CLASS :
Class A

LINEA 2.4.3 LITE WALL

+ LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

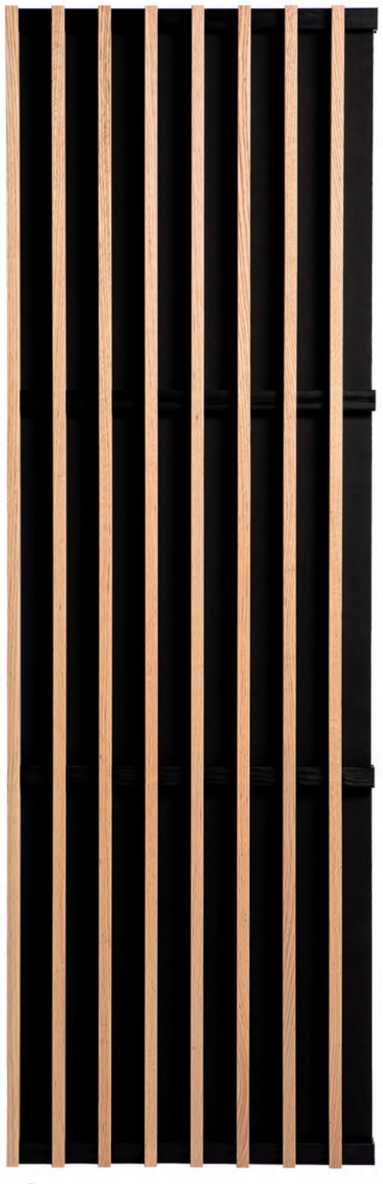


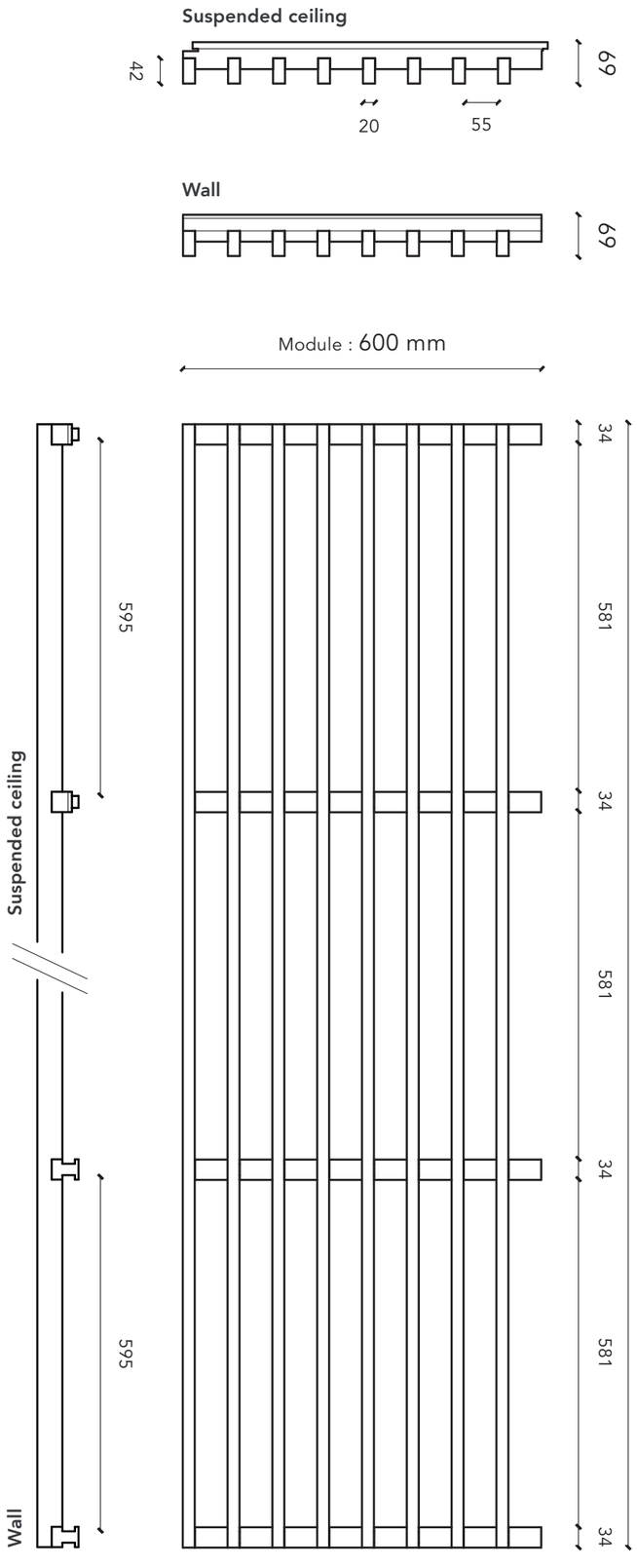
WEIGHTED INDEX :
$\alpha_w = 0,90$

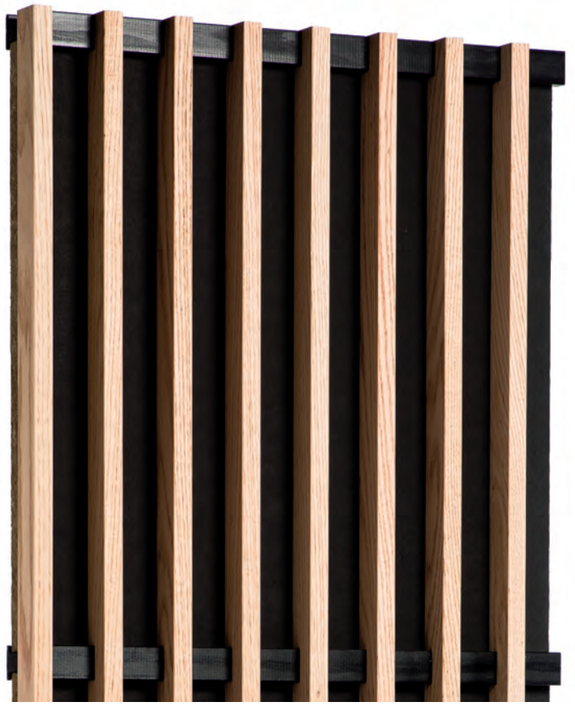
ABSORPTION CLASS :
Class A

LINEA 2.4.5

LINEA RANGE
INTERIOR







TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	9,9 kg/m²
Surface mass (oak)	11,6 kg/m²
Surface mass (douglas fir)	9,6 kg/m²
Openness percentage	73 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

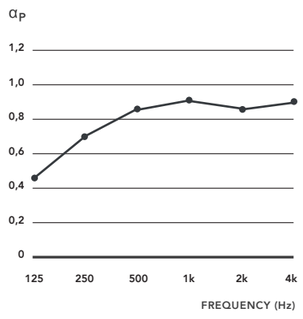
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.4.5 CEILING + LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT



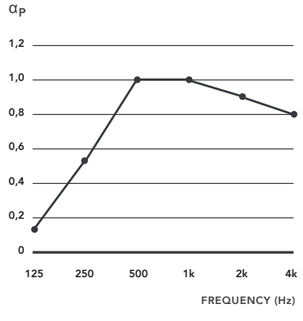
WEIGHTED INDEX :
$\alpha_w = 0,90$

ABSORPTION CLASS :
Class A

LINEA 2.4.5 WALL + LR 20 mm on plenum E50 mm

Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

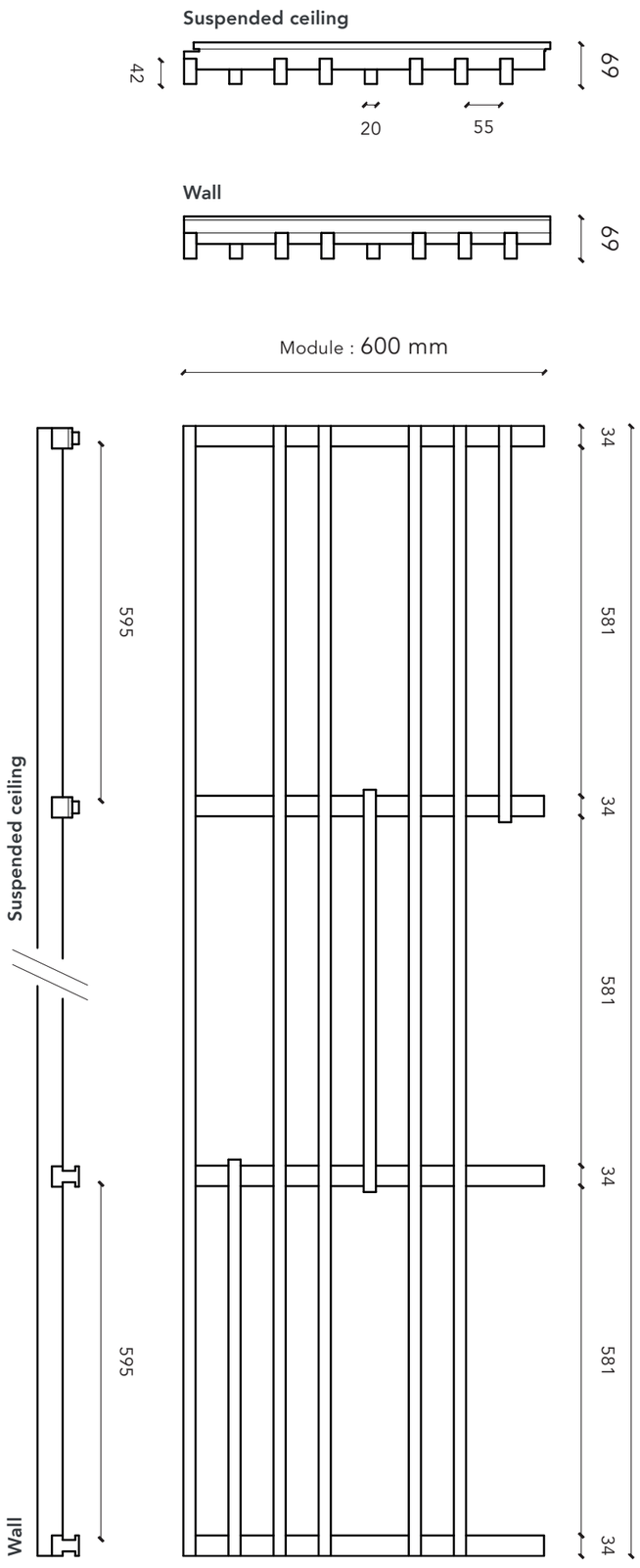


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.4.5 Lite

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 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, silver fir
Surface mass (pine)	7,8 kg/m²
Surface mass (oak)	9,1 kg/m²
Surface mass (douglas fir)	7,6 kg/m²
Openness percentage	80 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

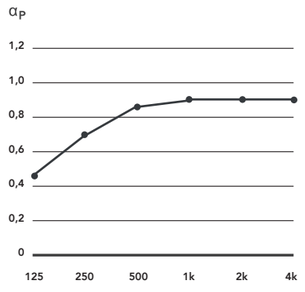
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.4.5 LITE CEILING

+ LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT



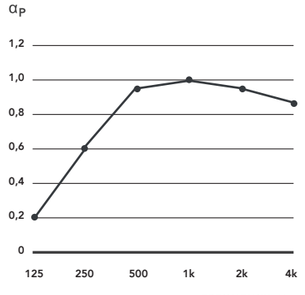
WEIGHTED INDEX :
$\alpha_w = 0,90$

ABSORPTION CLASS :
Class A

LINEA 2.4.5 LITE WALL

+ LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

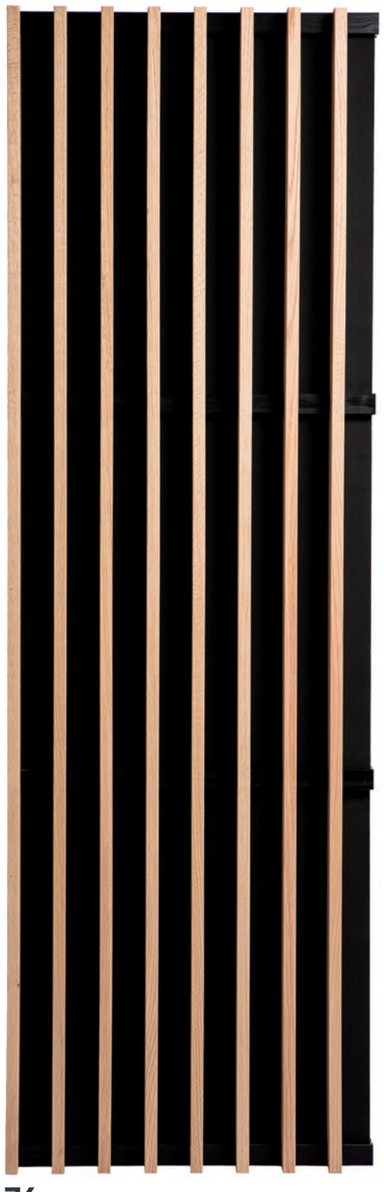


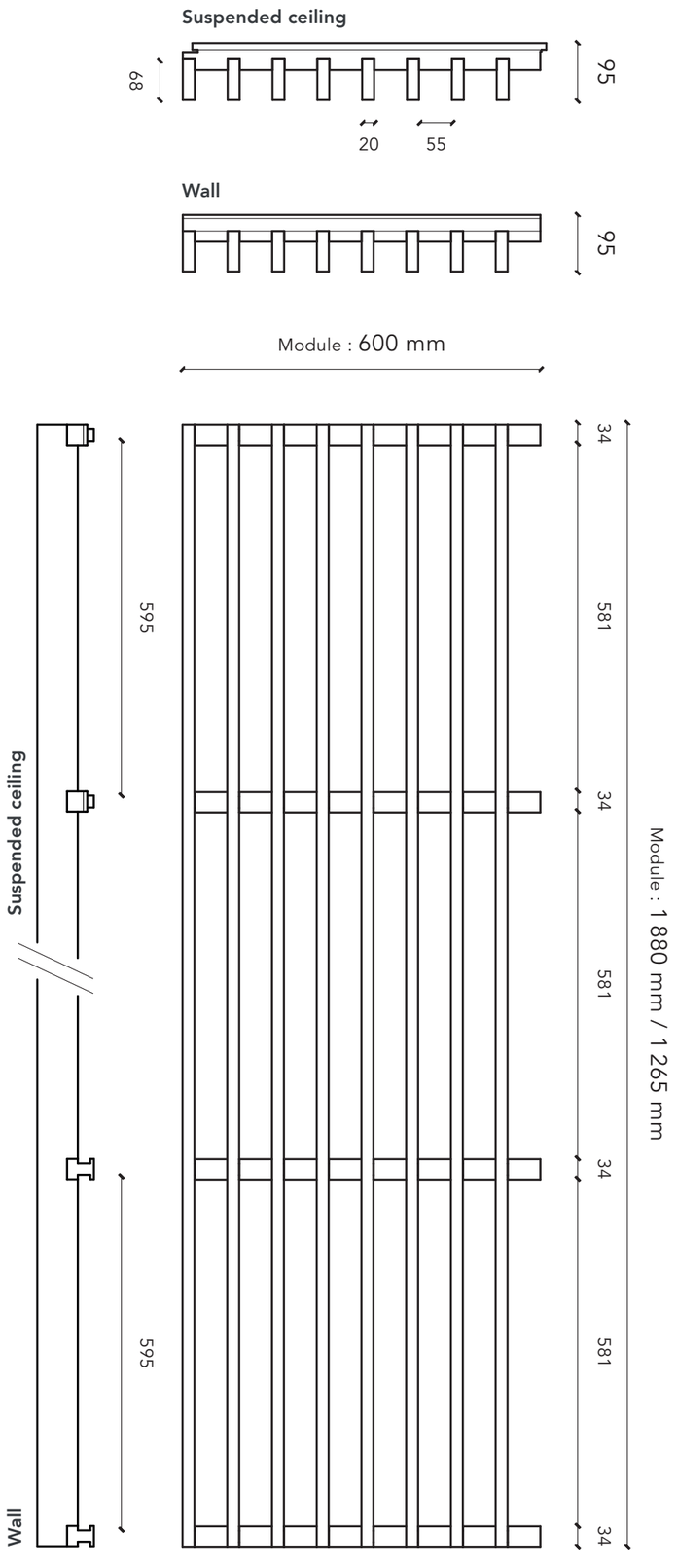
WEIGHTED INDEX :
$\alpha_w = 0,90$

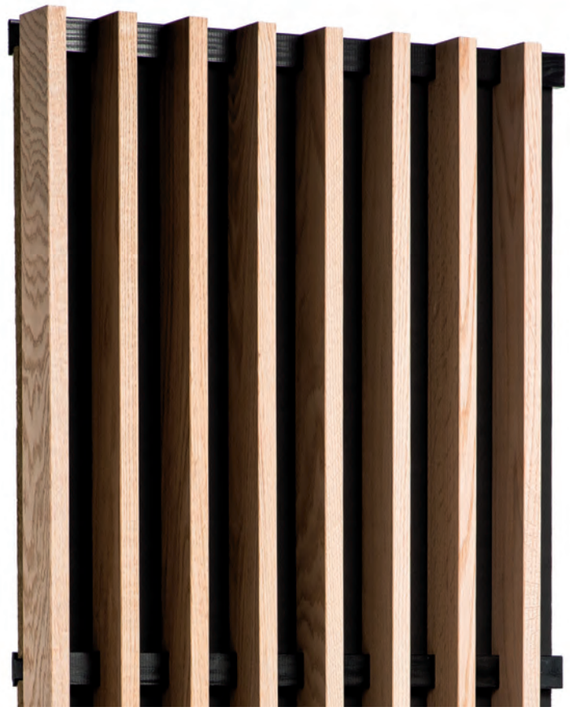
ABSORPTION CLASS :
Class A

LINEA 2.6.5

LINEA RANGE
INTERIOR







TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	14,8 kg/m²
Surface mass (oak)	17,6 kg/m²
Surface mass (douglas fir)	14,3 kg/m²
Openness percentage	73 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

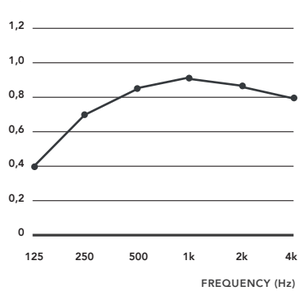
Possibilité d'ignifugation Euroclasse B-s1,d0 ou B-s2,d0 selon l'essence et la finition.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.6.5 CEILING + LR 20 mm on plenum E250 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

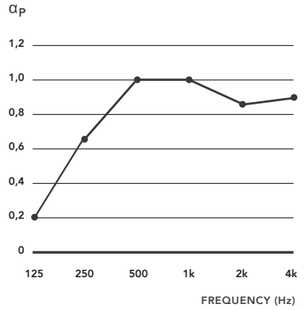


WEIGHTED INDEX :
$\alpha_w = 0,90$

ABSORPTION CLASS :
Class A

LINEA 2.6.5 WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

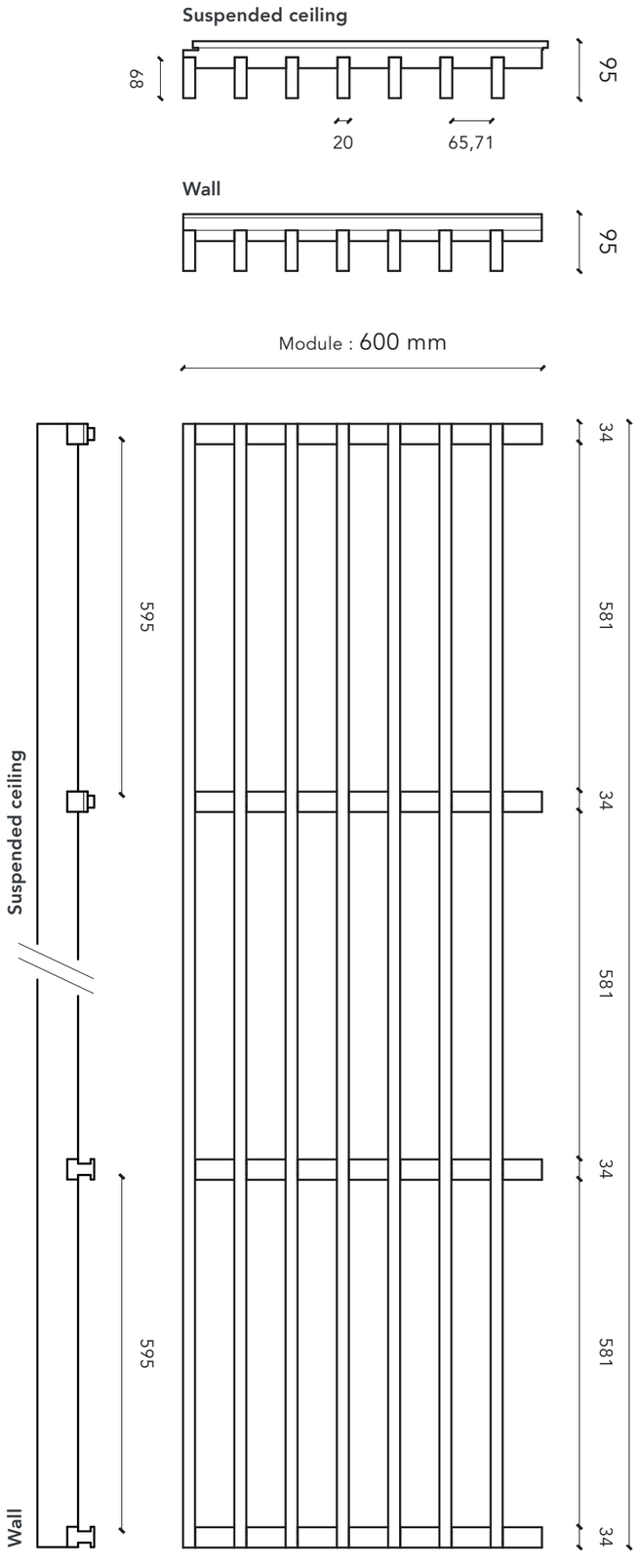


WEIGHTED INDEX :
$\alpha_w = 0,90$

ABSORPTION CLASS :
Class A

LINEA 2.6.6

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	13,2 kg/m²
Surface mass (oak)	15,7 kg/m²
Surface mass (douglas fir)	12,8 kg/m²
Openness percentage	77 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

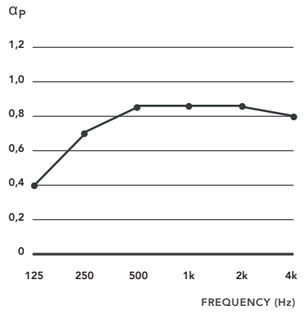
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.6.6 CEILING + LR 20 mm on plenum E250 mm

Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

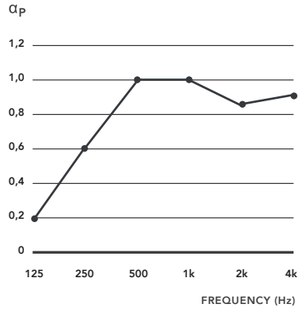


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.6.6 WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

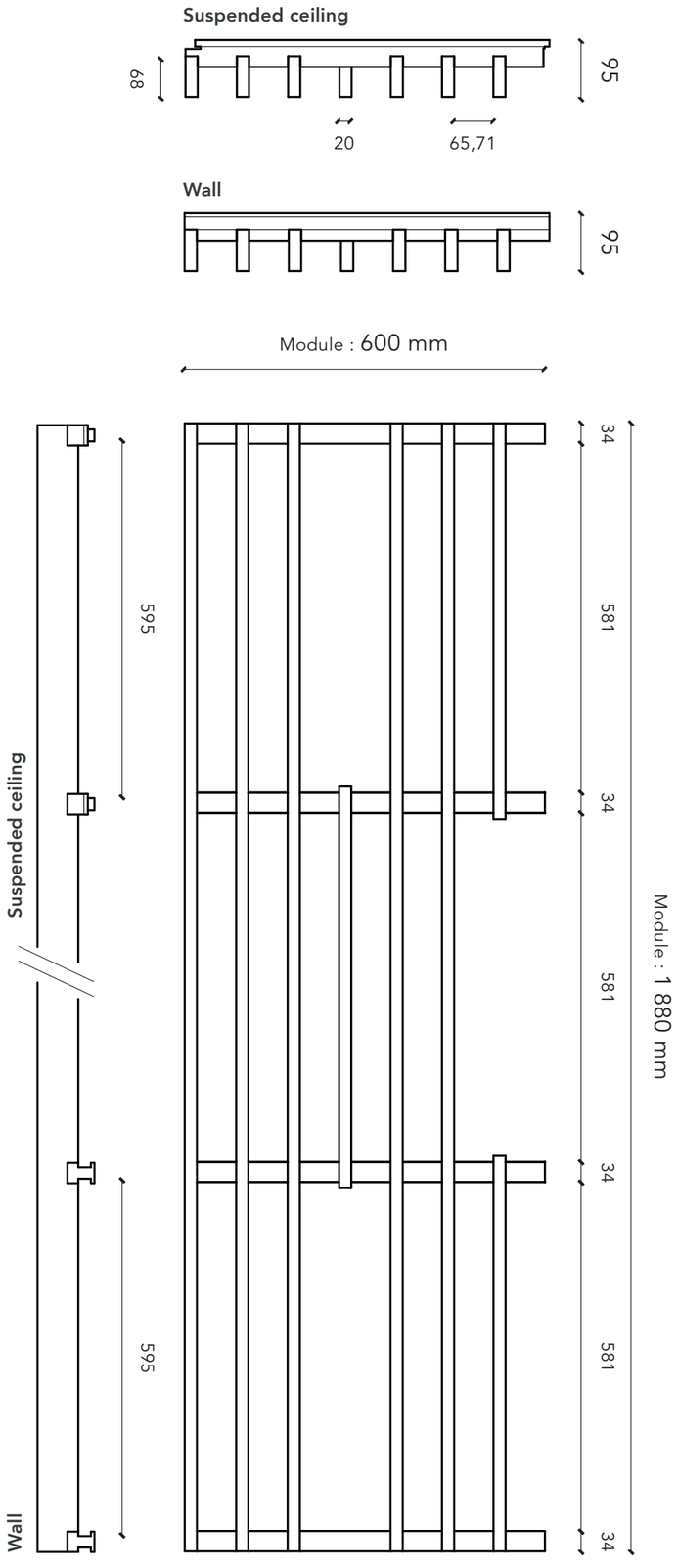


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.6.6 Lite

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 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, silver fir
Surface mass (pine)	11,5 kg/m²
Surface mass (oak)	13,7 kg/m²
Surface mass (douglas fir)	11,2 kg/m²
Openness percentage	80 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

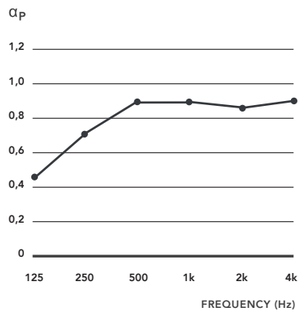
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.6.6 LITE CEILING

+ LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT



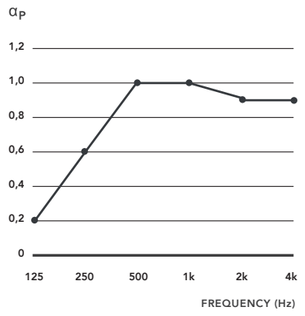
WEIGHTED INDEX :
$\alpha_w = 0,90$

ABSORPTION CLASS :
Class A

LINEA 2.6.6 LITE WALL

+ LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

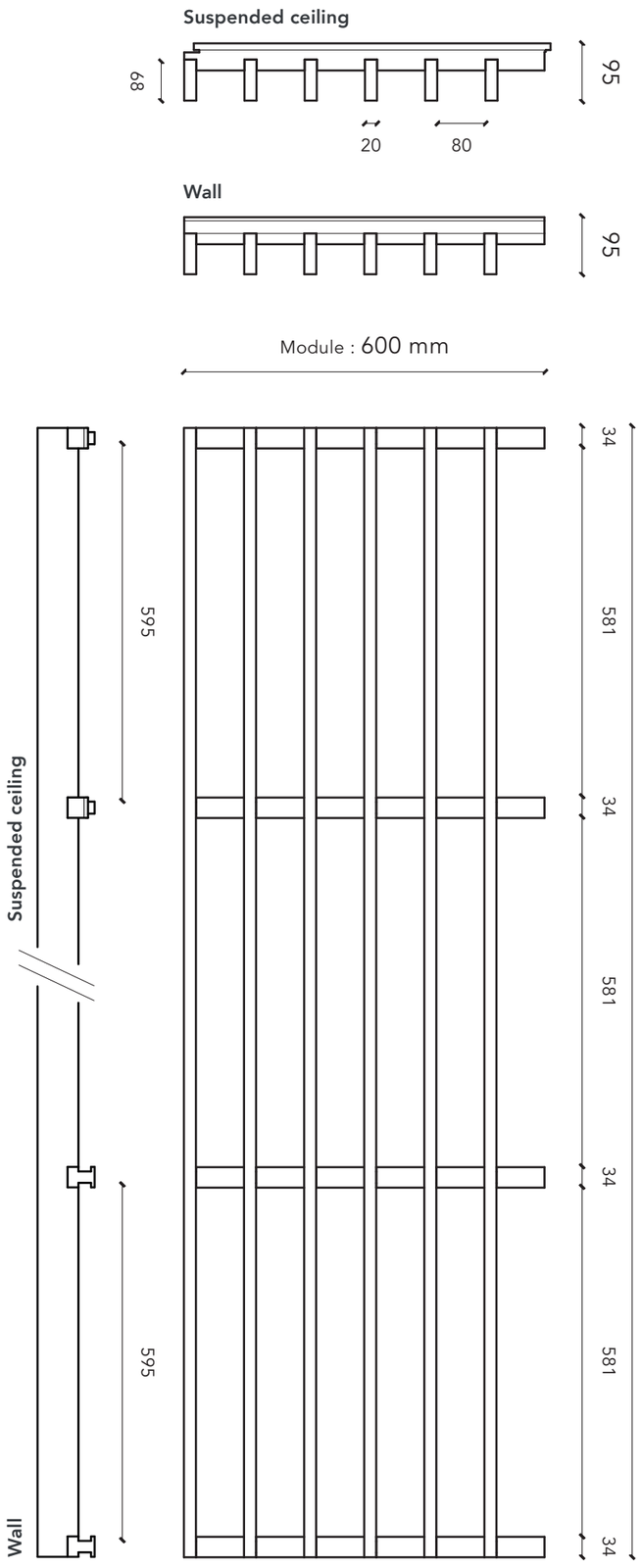


WEIGHTED INDEX :
$\alpha_w = 0,90$

ABSORPTION CLASS :
Class A

LINEA 2.6.8

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	11,6 kg/m²
Surface mass (oak)	13,8 kg/m²
Surface mass (douglas fir)	11,3 kg/m²
Openness percentage	80 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

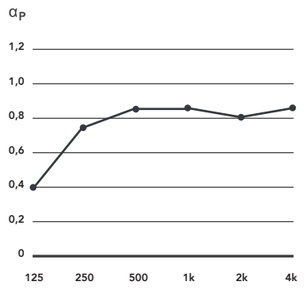
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.6.8 CEILING + LR 20 mm on plenum E250 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

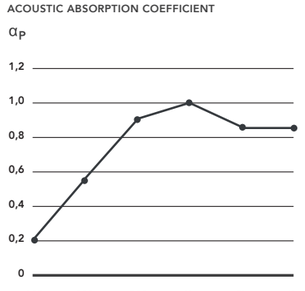


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.6.8 WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

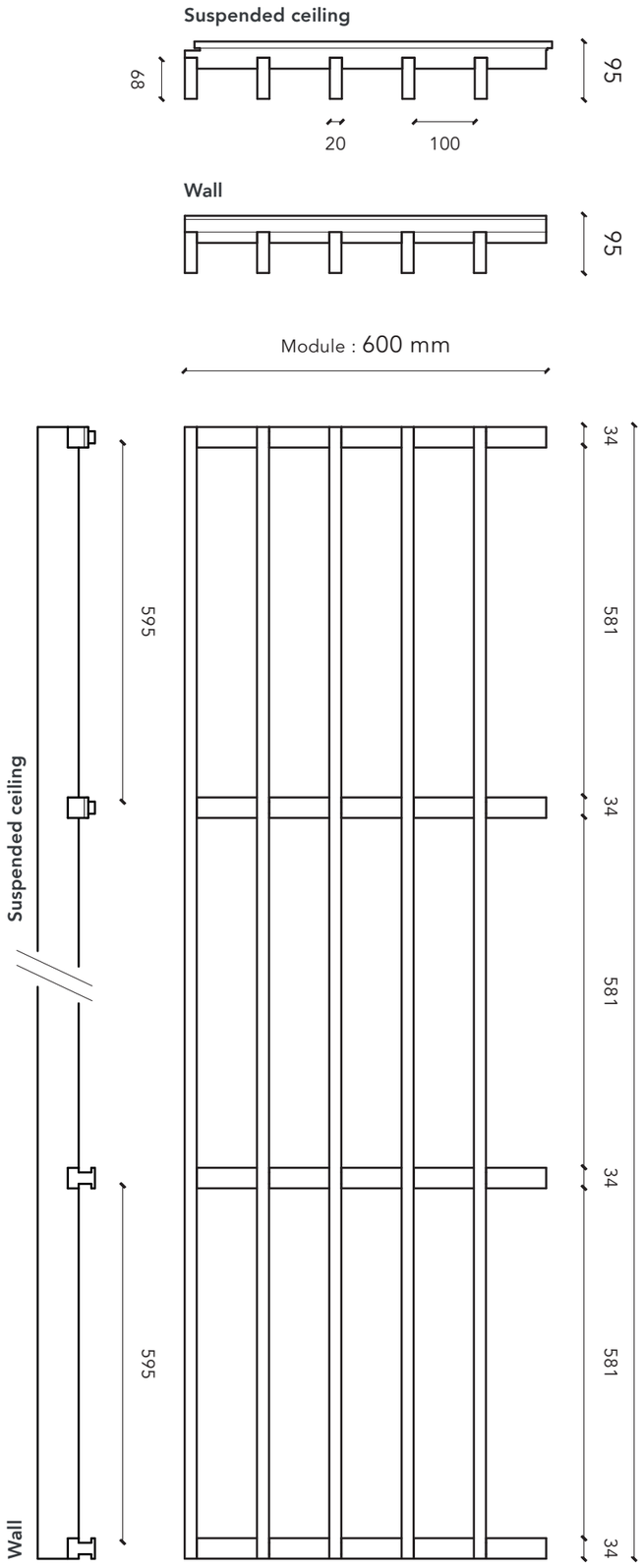


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.6.10

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 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, silver fir
Surface mass (pine)	10,1 kg/m²
Surface mass (oak)	11,8 kg/m²
Surface mass (douglas fir)	9,8 kg/m²
Openness percentage	83 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

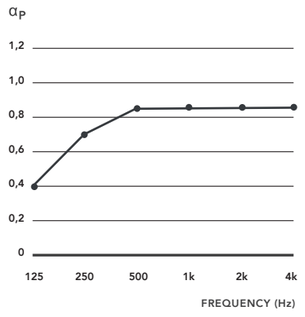
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.6.10 CEILING + LR 20 mm on plenum E250 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

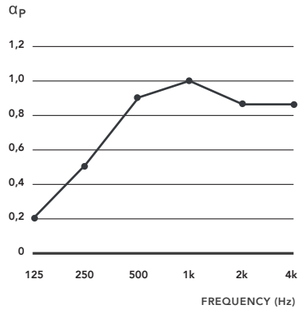


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.6.10 WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

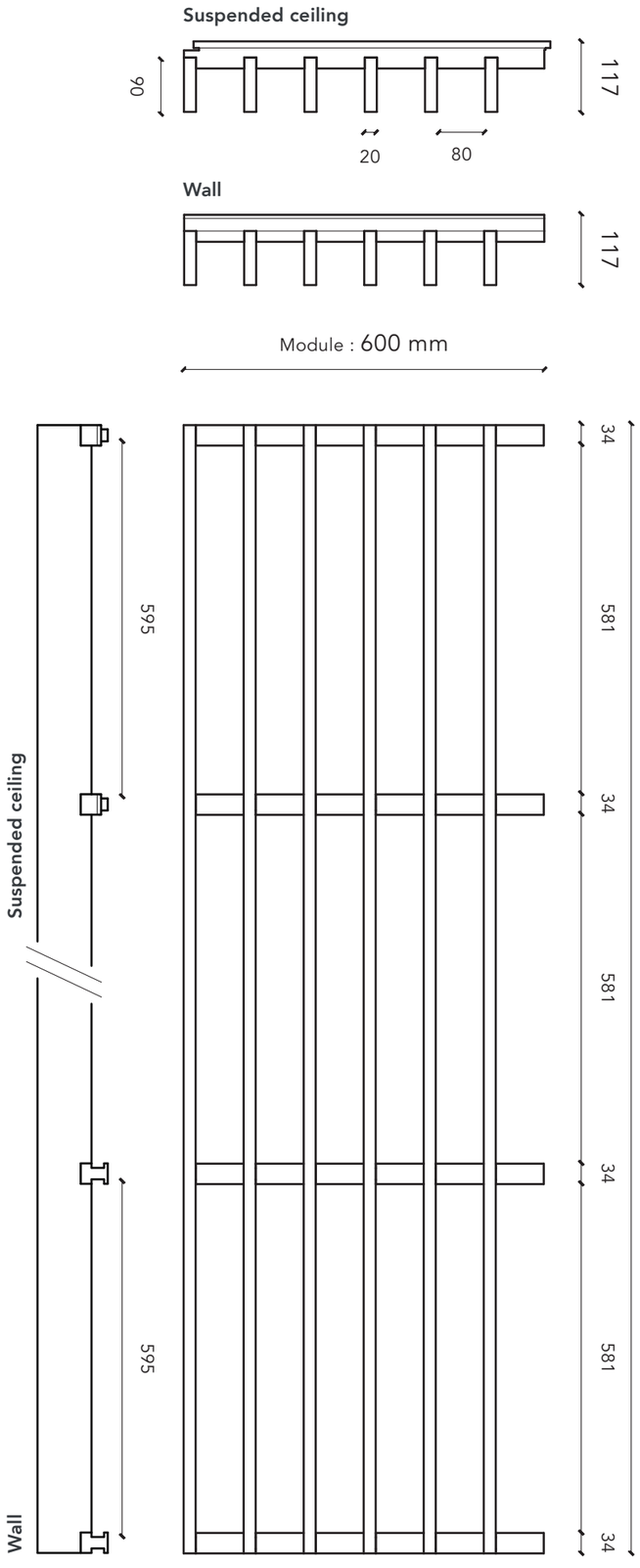


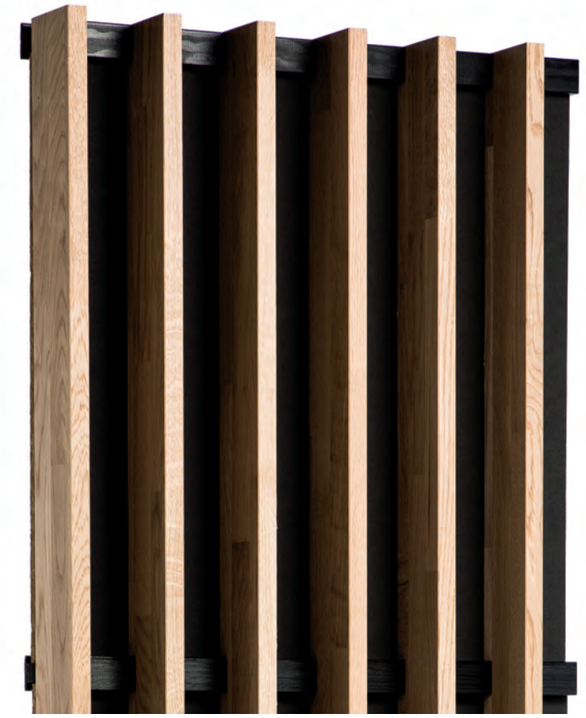
WEIGHTED INDEX :
$\alpha_w = 0,80$

ABSORPTION CLASS :
Class B

LINEA 2.9.8

LINEA RANGE
INTERIOR





TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 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)	14,1 kg/m²
Surface mass (oak)	16,9 kg/m²
Openness percentage	80 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

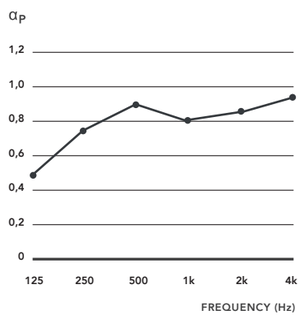
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.9.8 CEILING + LR 20 mm on plenum E250 mm

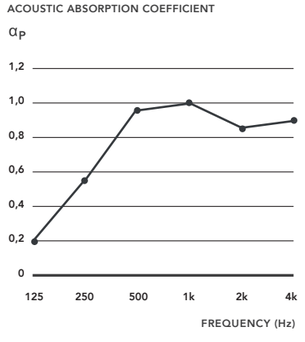
Acoustic absorption was measured as per the ISO 354 standard.



WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.9.8 WALL + LR 20 mm on plenum E50 mm

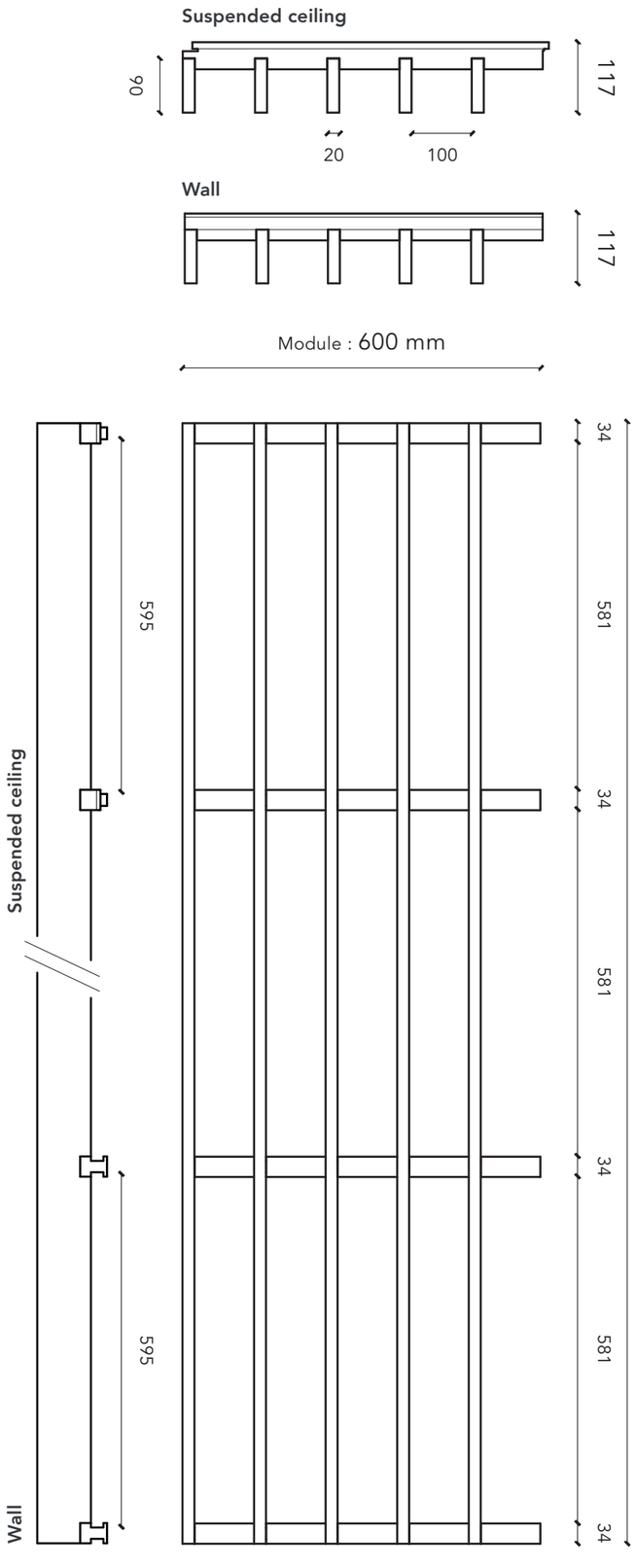


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.9.10

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 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)	12 kg/m²
Surface mass (oak)	14,3 kg/m²
Openness percentage	83 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

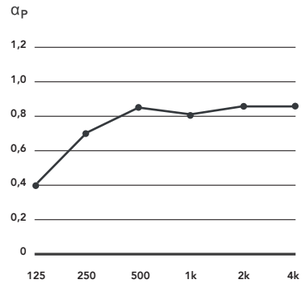
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 2.9.10 CEILING + LR 20 mm on plenum E250 mm

Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

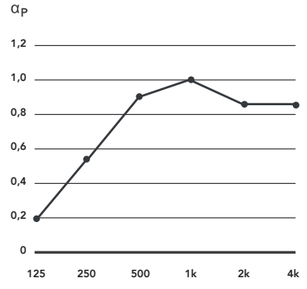


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.9.10 WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

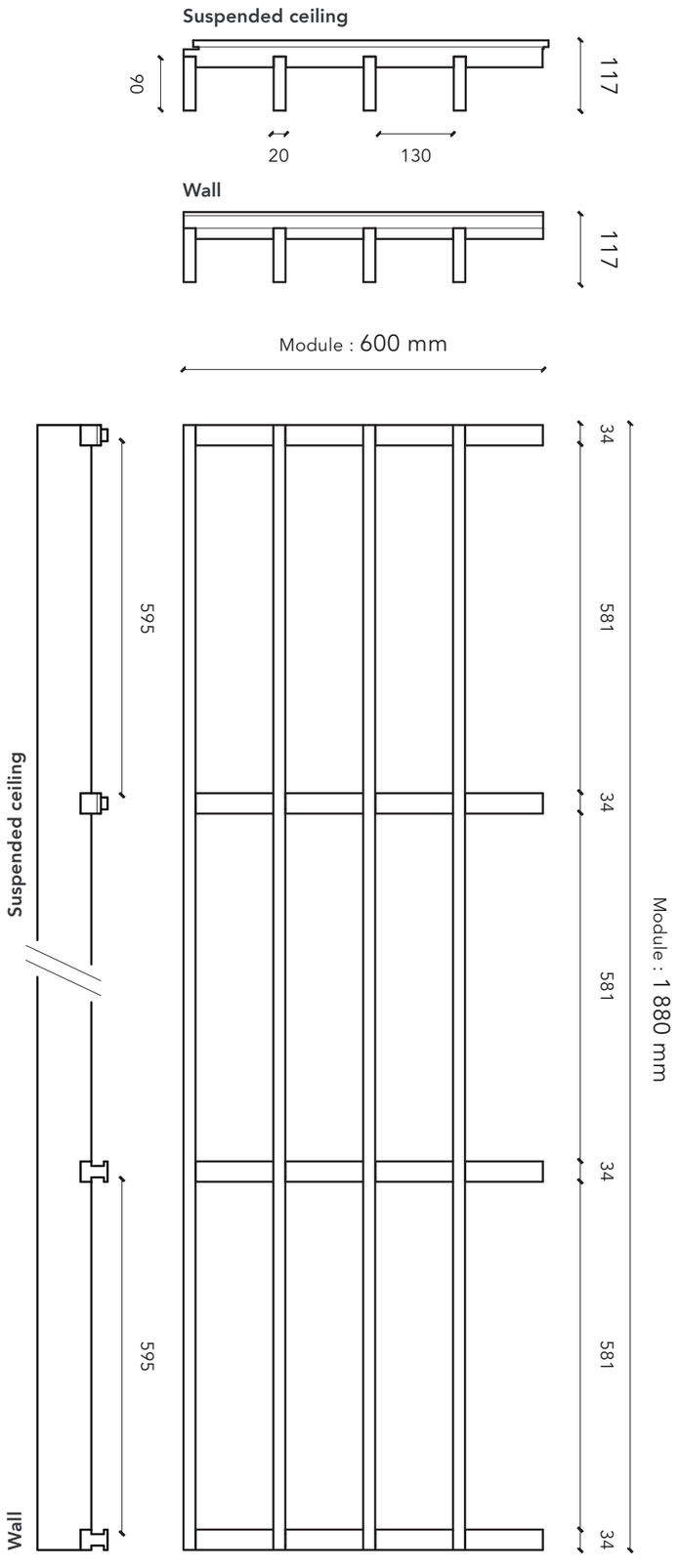


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.9.13

LINEA RANGE
INTERIOR



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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 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)	9,9 kg/m²
Surface mass (oak)	11,8 kg/m²
Openness percentage	87 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

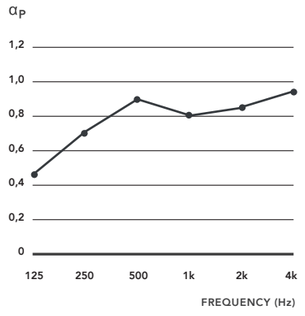
Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

LINEA 2.9.13 CEILING + LR 20 mm on plenum E250 mm
Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

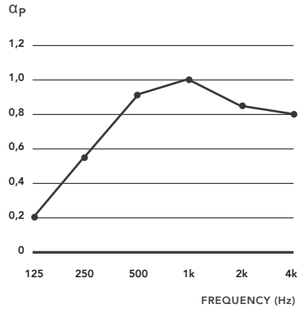


WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 2.9.13 WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

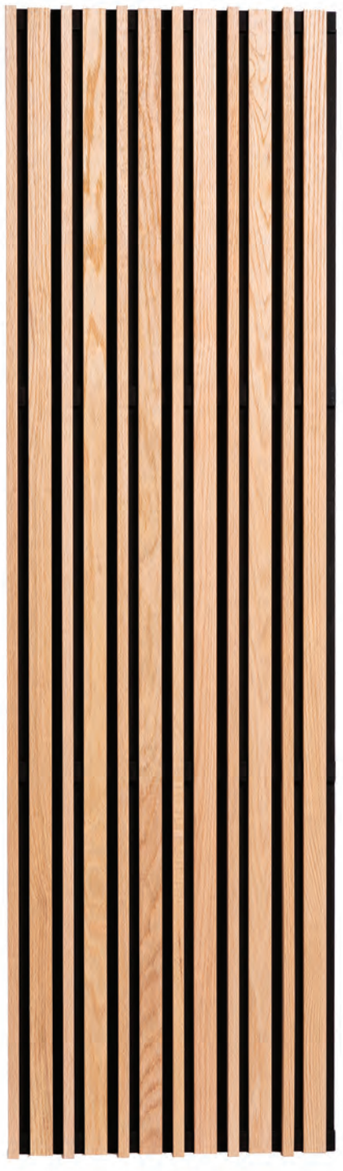


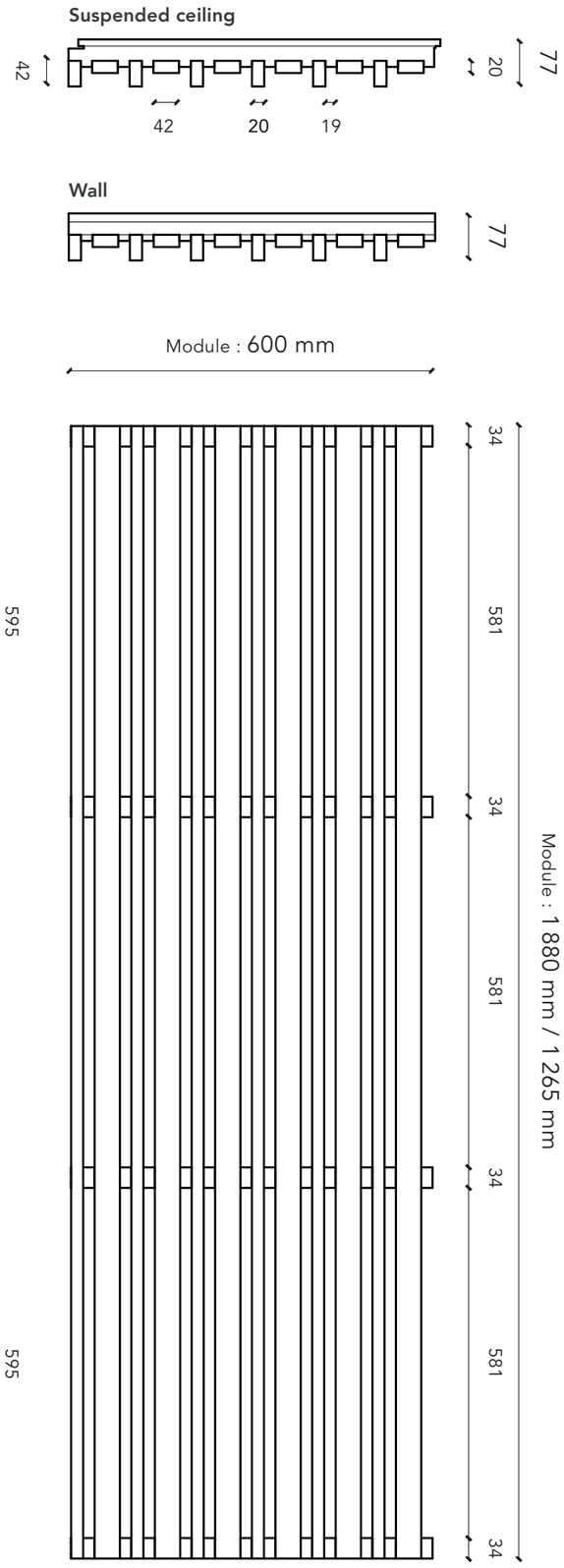
WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 42 AL

LINEA RANGE
INTERIOR





TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 x 600 mm
Cross-section of slats	42 mm (face) x 20 mm (height) ou 20 mm (face) x 42 mm (height)
Spacing between slats	19 mm
Centre distance of slats	50 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	77 mm
Wood species	Pine
Surface mass (pine)	13,5 kg/m²
Openness percentage	38 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

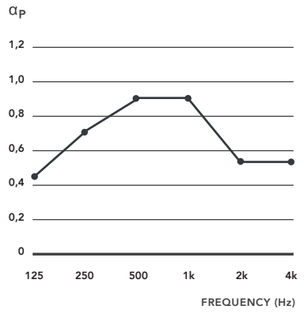
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 42 AL CEILING + LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT

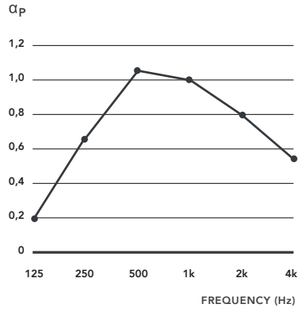


WEIGHTED INDEX :
$\alpha_w = 0,65$

ABSORPTION CLASS :
Class C

LINEA 42 AL WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

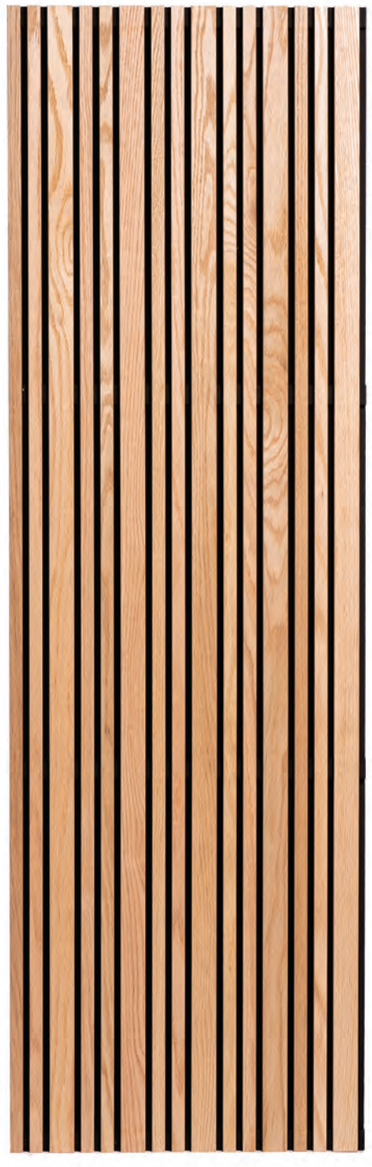


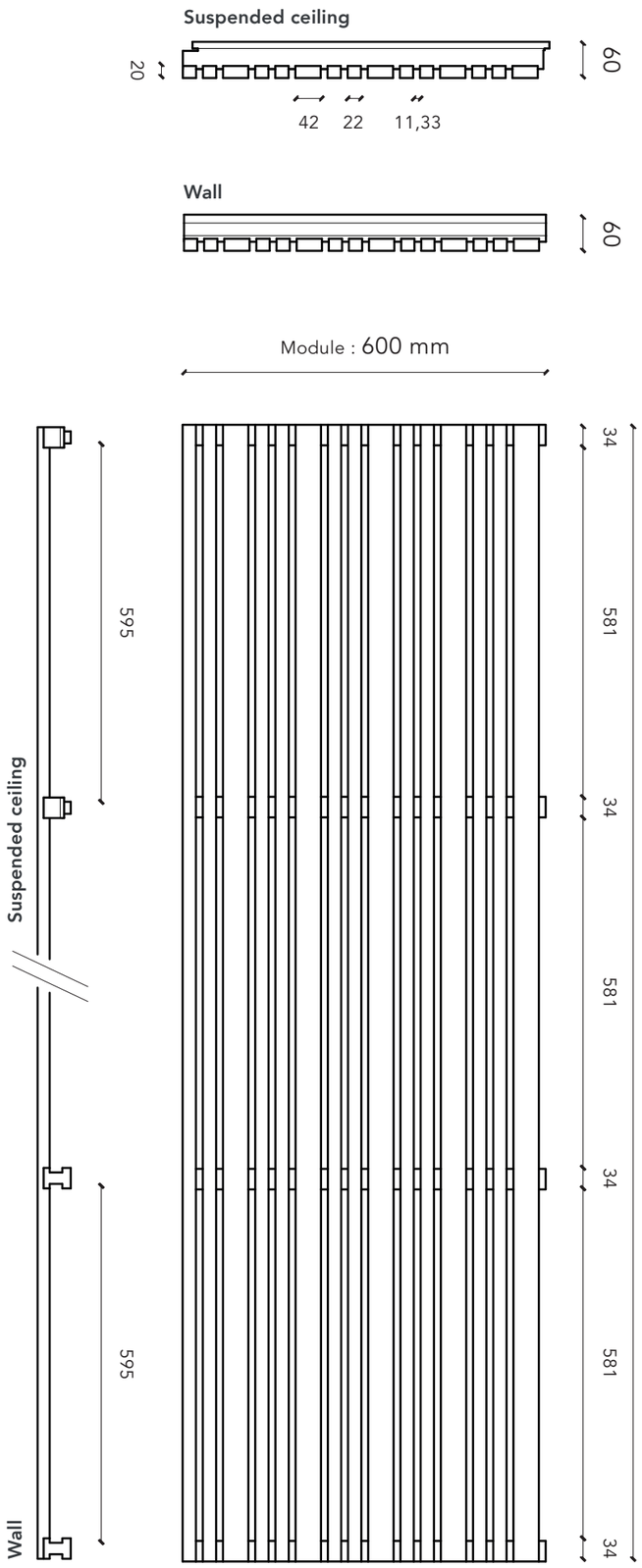
WEIGHTED INDEX :
$\alpha_w = 0,75$

ABSORPTION CLASS :
Class C

LINEA 422 AL

LINEA RANGE
INTERIOR





TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 600 mm et 1 265 x 600 mm
Cross-section of slats	42 mm (face) x 20 mm (height) ou 22 mm (face) x 20 mm (height)
Spacing between slats	11,33 mm
Centre distance of slats	33,33 mm et 43,33 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	60 mm
Wood species	Pine
Surface mass (pine)	11,9 kg/m²
Openness percentage	28 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

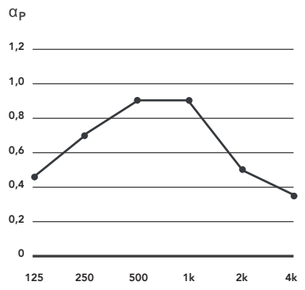
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 422 AL CEILING + LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT

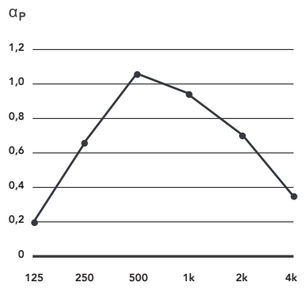


WEIGHTED INDEX :
$\alpha_w = 0,50$

ABSORPTION CLASS :
Class D

LINEA 422 AL WALL + LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

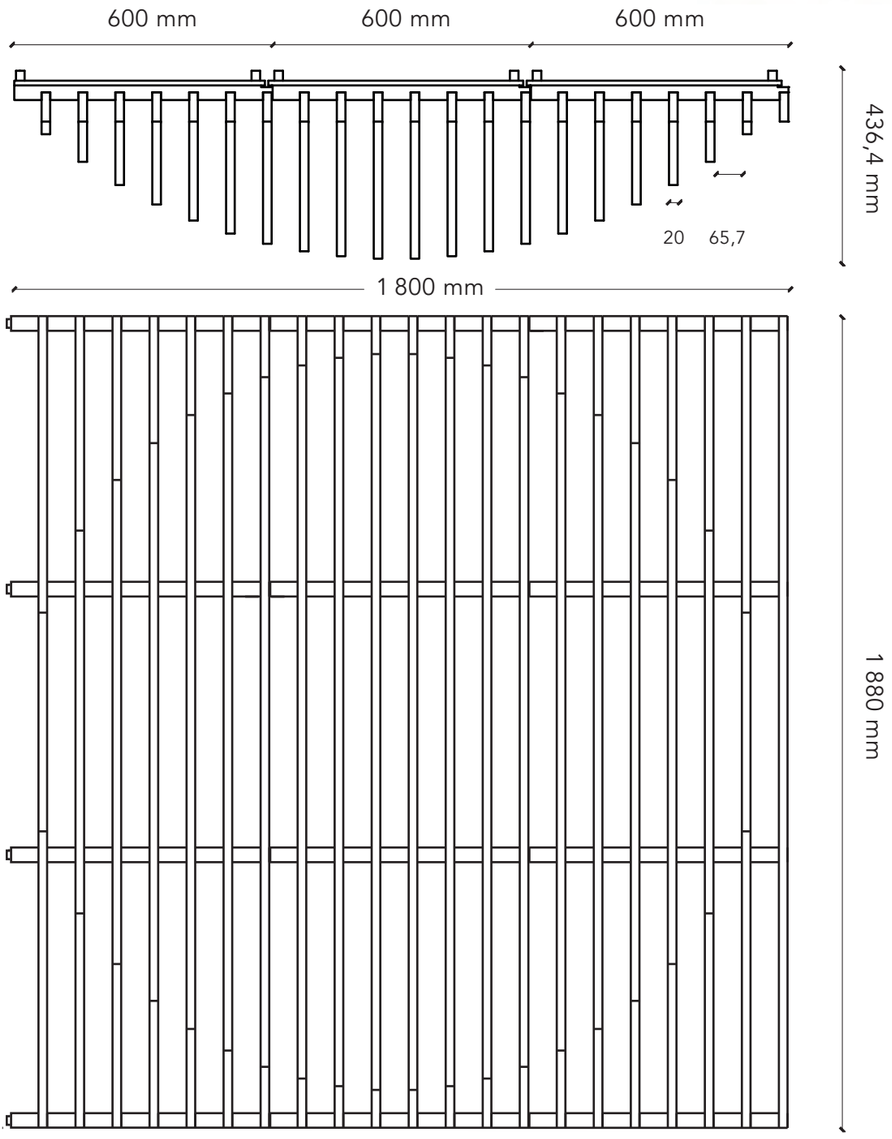


WEIGHTED INDEX :
$\alpha_w = 0,55$

ABSORPTION CLASS :
Class D

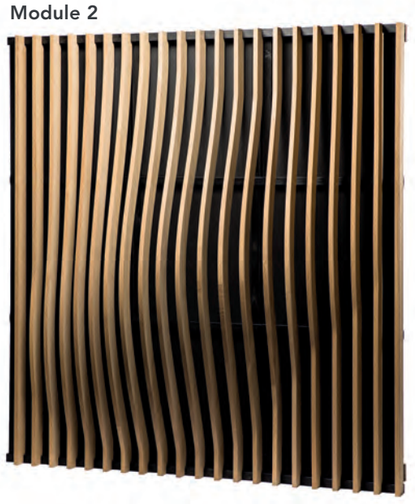
LINEA SHAPE

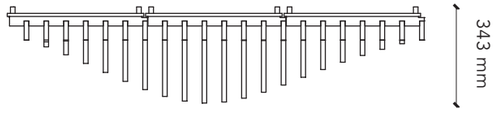
LINEA RANGE
INTERIOR



Module 1

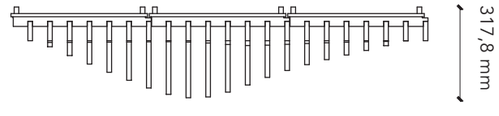
Module 2





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

Module 3



TECHNICAL CHARACTERISTICS

Panel dimensions	1 880 x 1 800 mm soit 3 panneaux de 1 880 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/m²
Surface mass (oak)	18,1 kg/m²
Openness percentage	77 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system :
– Selon NF EN 13964
– Selon DTU 58-1

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

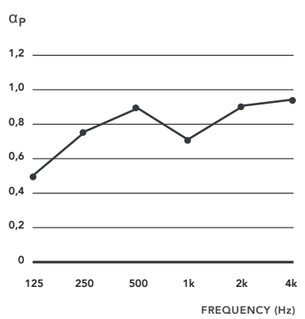
Reaction to fire possibilities Euroclass B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA SHAPE CEILING + LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT

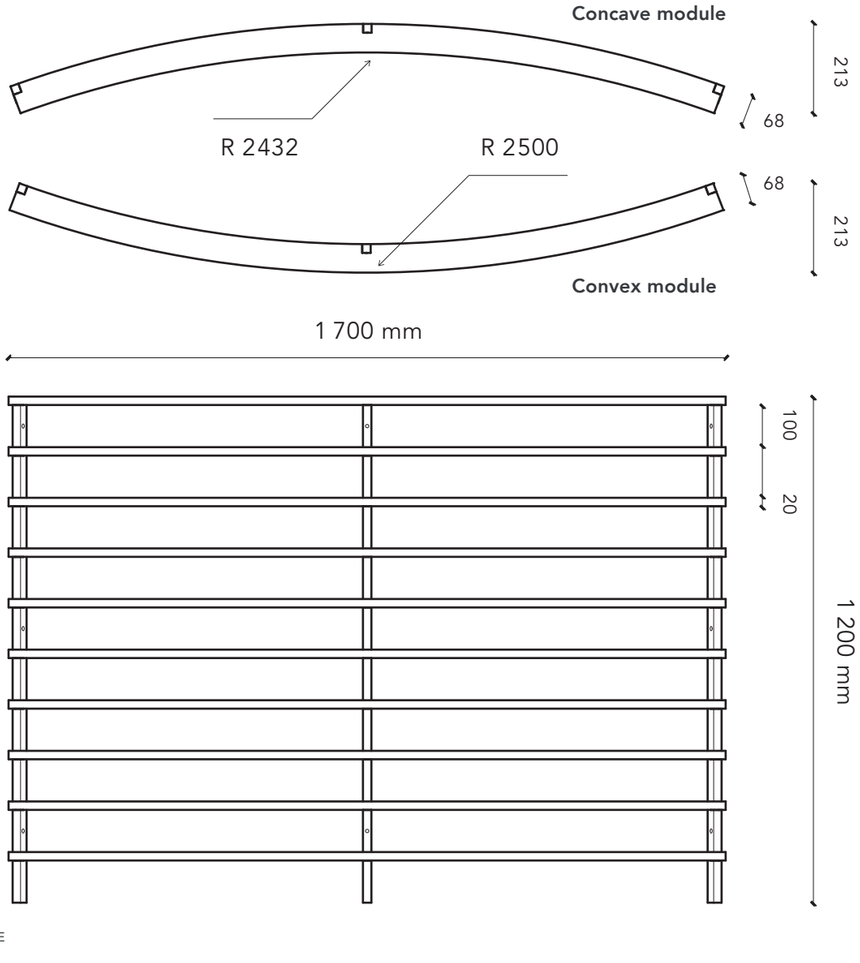


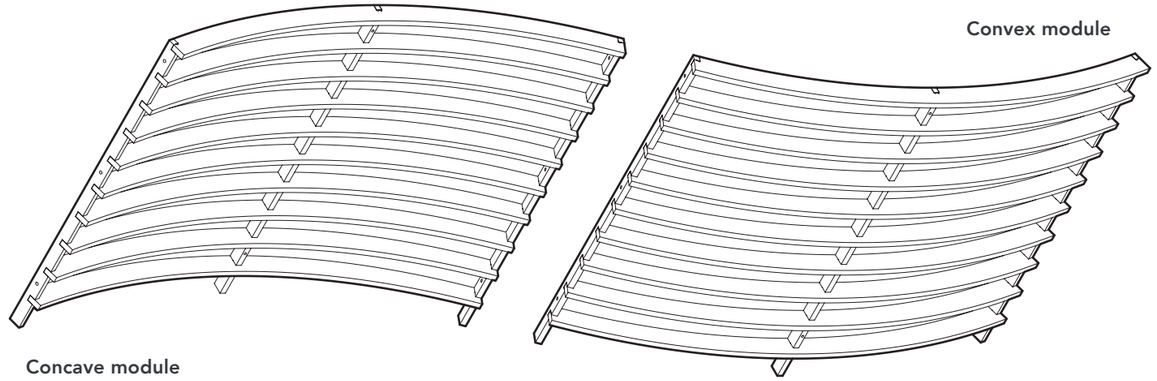
WEIGHTED INDEX :
$\alpha_w = 0,80$

ABSORPTION CLASS :
Class B

LINEA SWELL

LINEA RANGE
INTERIOR





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)	8,9 kg/m²
Surface mass (oak)	10,7 kg/m²
Openness percentage	83 %

Rear surface : fabric LAU 301
Acoustic version with fabric LAU 301 and rock wool 45mm thick
Rock wool not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on threaded rods :
– Selon NF EN 13964
– Selon DTU 58-1

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

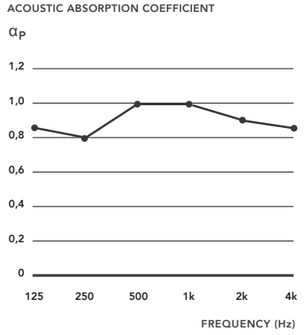
Reaction to fire possibilities B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA SWELL CEILING

+ LAU 301 + LR 45 mm on plenum E400 mm
Acoustic absorption was measured as per the ISO 354 standard.

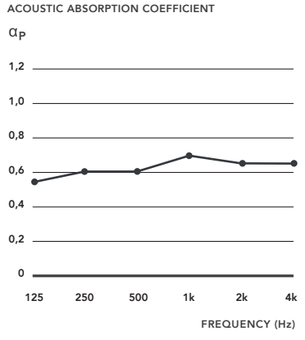


WEIGHTED INDEX :
$\alpha_w = 0,95$

ABSORPTION CLASS :
Class A

LINEA SWELL CEILING

+ LAU 301 on plenum E400 mm
Acoustic absorption was measured as per the ISO 354 standard.



WEIGHTED INDEX :
$\alpha_w = 0,65$

ABSORPTION CLASS :
Class C

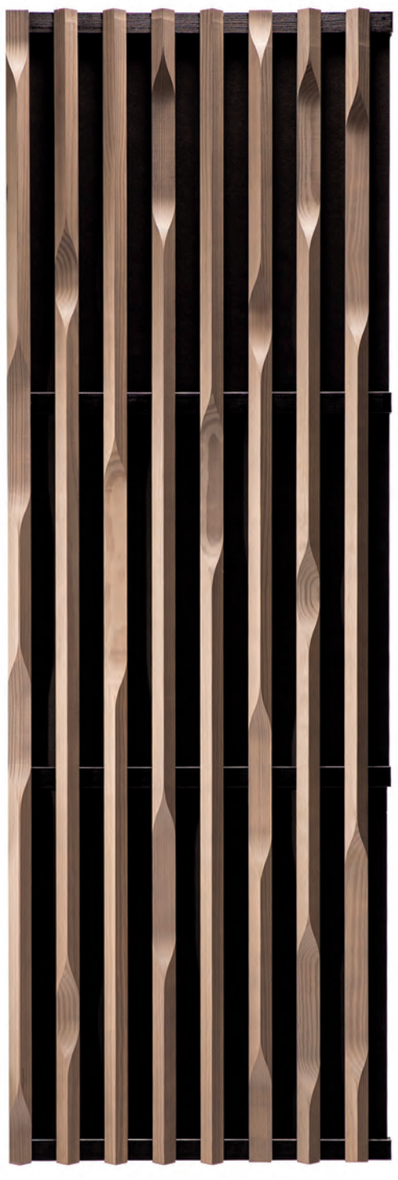
5

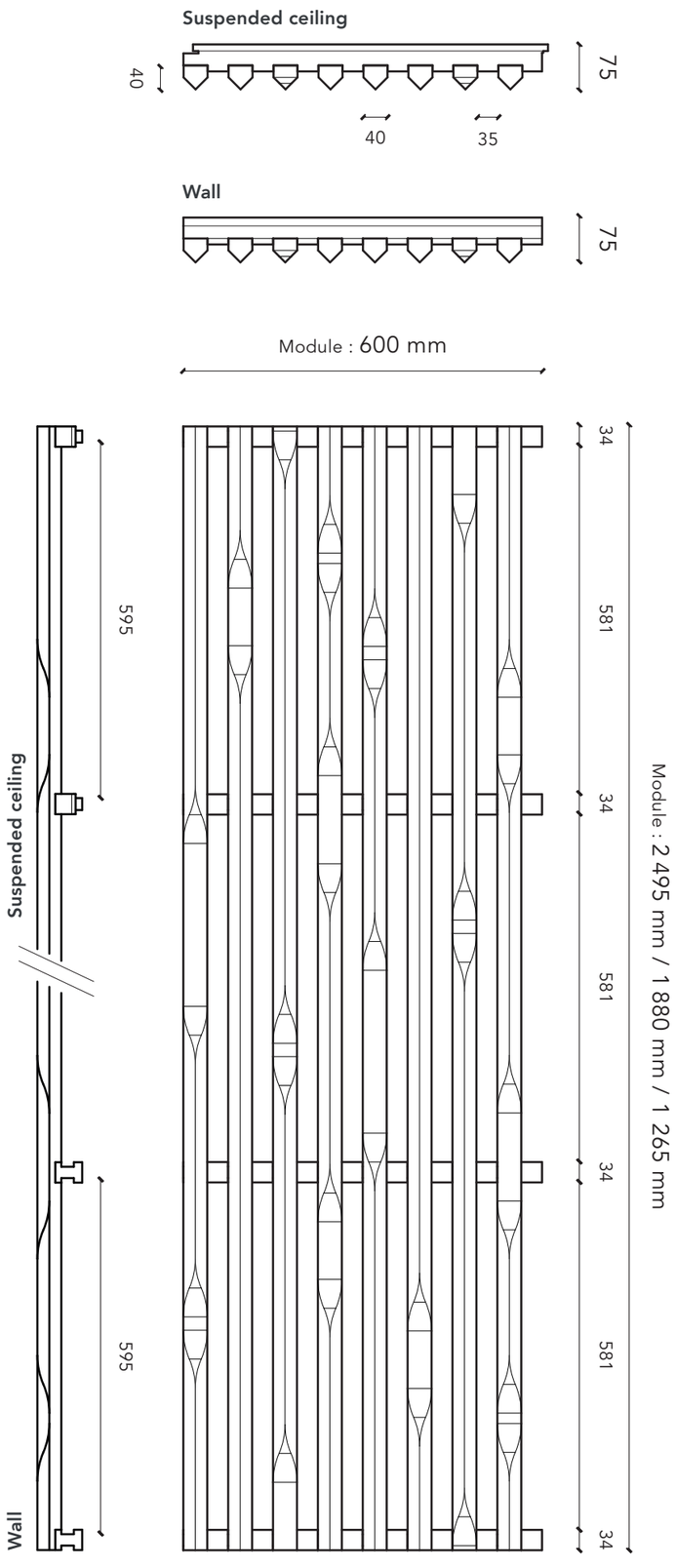
Products
LINEA 3D

INTERIOR
SUSPENDED CEILING AND WALL

LINEA 3D EDGE

LINEA RANGE
INTERIOR





TECHNICAL CHARACTERISTICS

Panel dimensions	2 495 x 600 mm 1 880 x 600 mm 1265 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)	11,9 kg/m²
Surface mass (oak)	14,3 kg/m²
Openness percentage	47 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

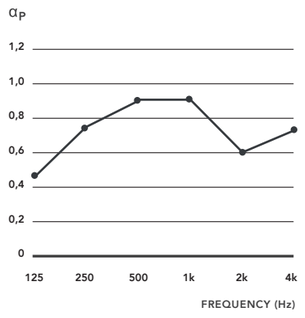
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

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

ACOUSTIC ABSORPTION COEFFICIENT

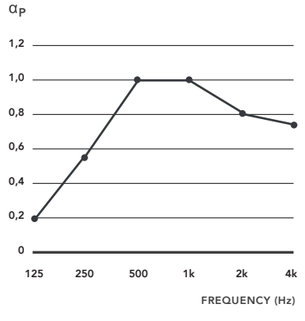


WEIGHTED INDEX :
$\alpha_w = 0,70$

ABSORPTION CLASS :
Class C

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

ACOUSTIC ABSORPTION COEFFICIENT

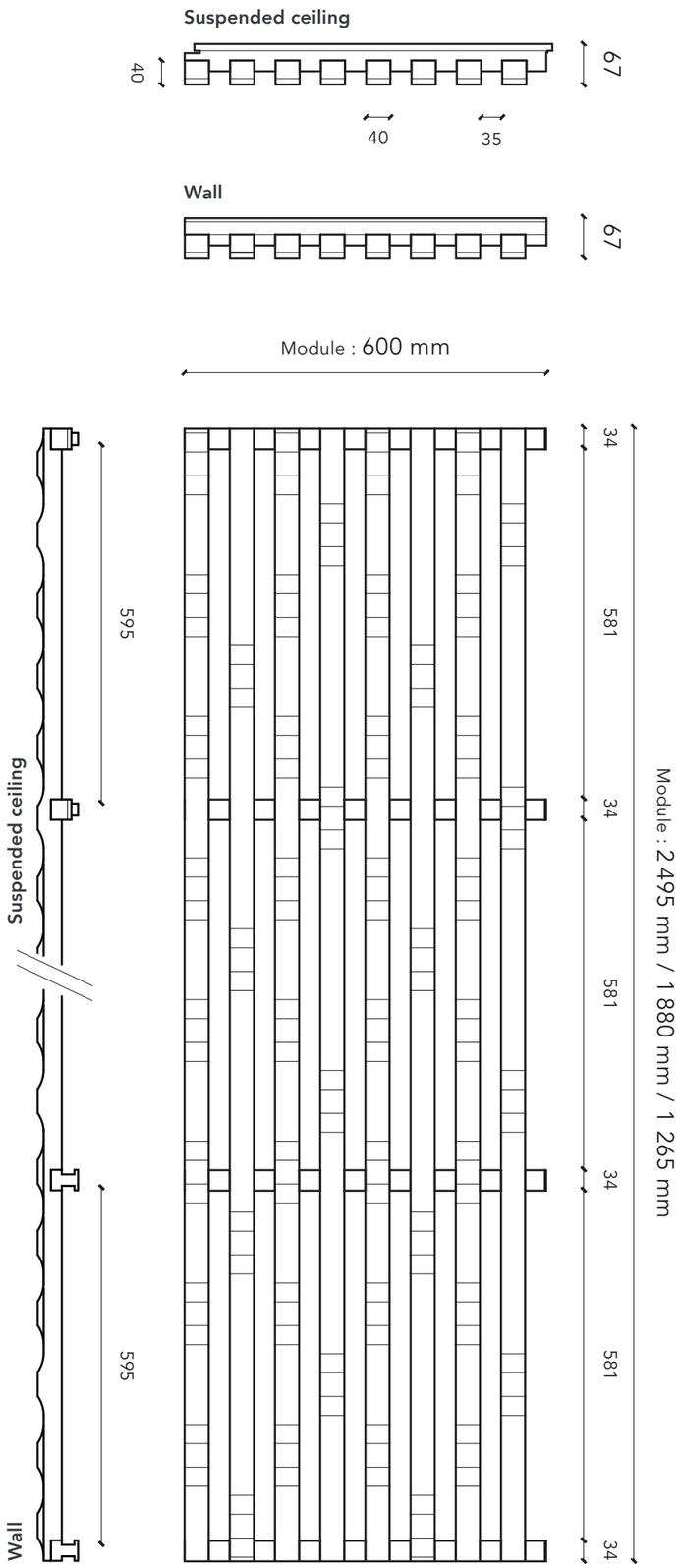


WEIGHTED INDEX :
$\alpha_w = 0,80$

ABSORPTION CLASS :
Class B

LINEA 3D PIX

LINEA RANGE
INTERIOR



TECHNICAL CHARACTERISTICS

Panel dimensions	2 495 x 600 mm 1 880 x 600 mm 1265 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)	13,2 kg/m²
Surface mass (oak)	15,9 kg/m²
Openness percentage	47 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

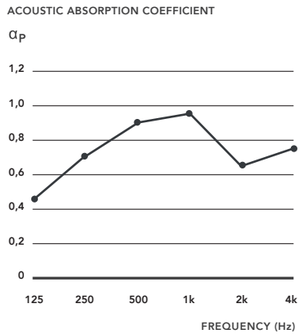
FINISH / REACTION TO FIRE (AS PER EN 13501-1)

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

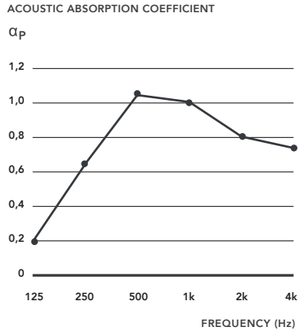
LINEA 3D PIX CEILING + LR 20 mm on plenum E250 mm



WEIGHTED INDEX :
$\alpha_w = 0,75$

ABSORPTION CLASS :
Class C

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

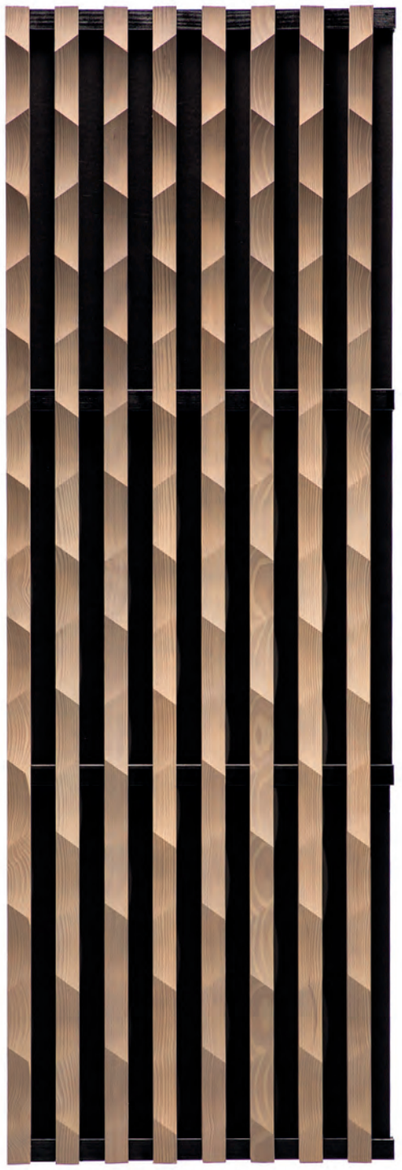


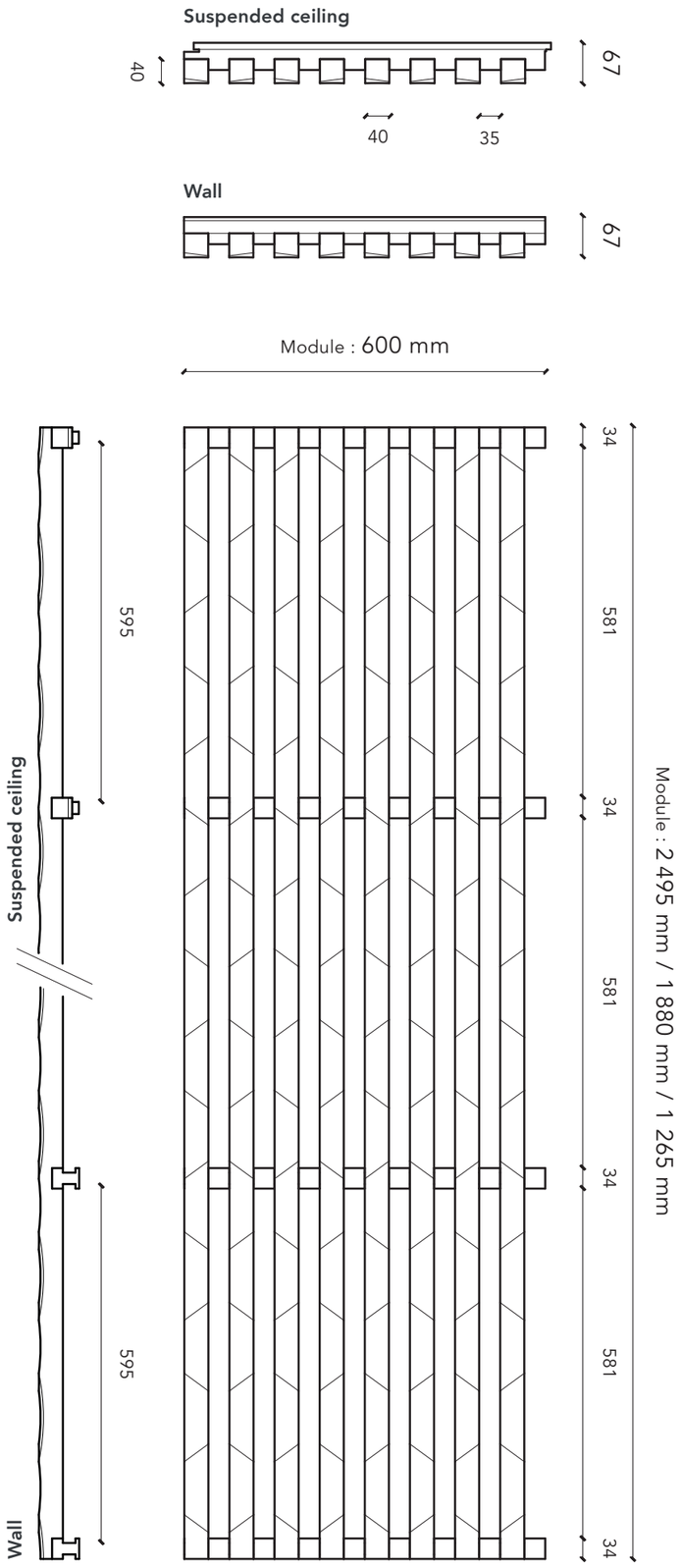
WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

LINEA 3D SCALE

LINEA RANGE
INTERIOR





TECHNICAL CHARACTERISTICS

Panel dimensions	2 495 x 600 mm 1 880 x 600 mm 1265 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)	14,8 kg/m²
Surface mass (oak)	17,9 kg/m²
Openness percentage	47 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

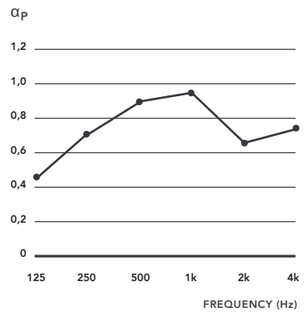
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

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

ACOUSTIC ABSORPTION COEFFICIENT



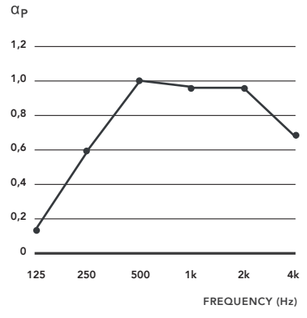
WEIGHTED INDEX :
$\alpha_w = 0,75$

ABSORPTION CLASS :
Class C

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

Acoustic absorption was measured as per the ISO 354 standard.

ACOUSTIC ABSORPTION COEFFICIENT

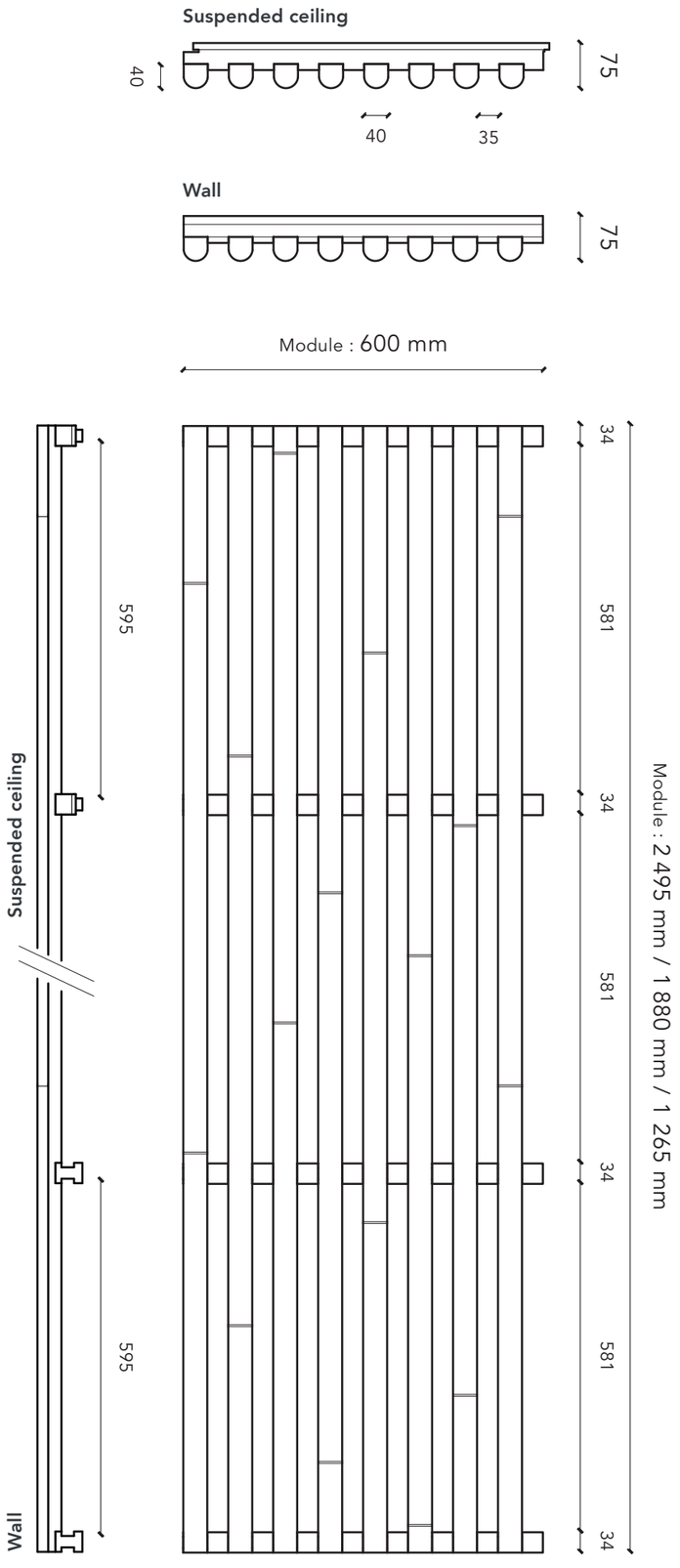


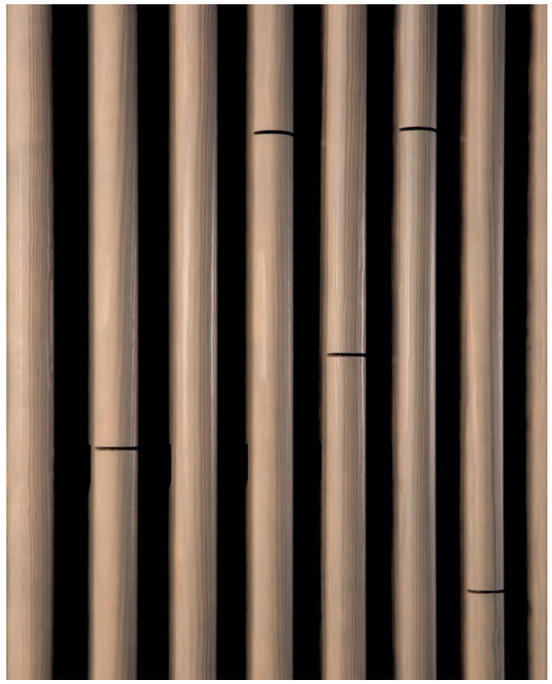
WEIGHTED INDEX :
$\alpha_w = 0,80$

ABSORPTION CLASS :
Class B

LINEA 3D BAMBOO

LINEA RANGE
INTERIOR





TECHNICAL CHARACTERISTICS

Panel dimensions	2 495 x 600 mm 1 880 x 600 mm 1265 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)	14,8 kg/m²
Surface mass (oak)	17,8 kg/m²
Openness percentage	47 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

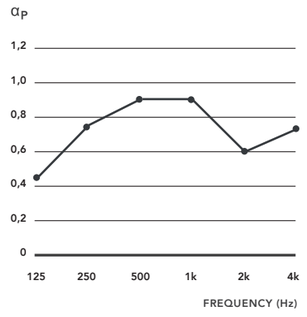
Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

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

ACOUSTIC ABSORPTION COEFFICIENT

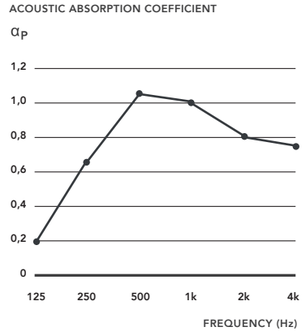


WEIGHTED INDEX :
$\alpha_w = 0,70$

ABSORPTION CLASS :
Class C

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

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX :
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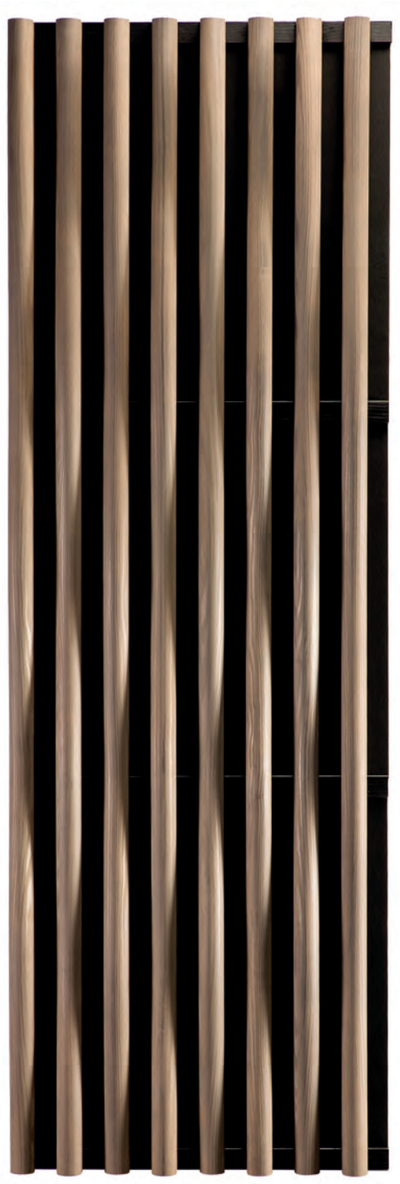
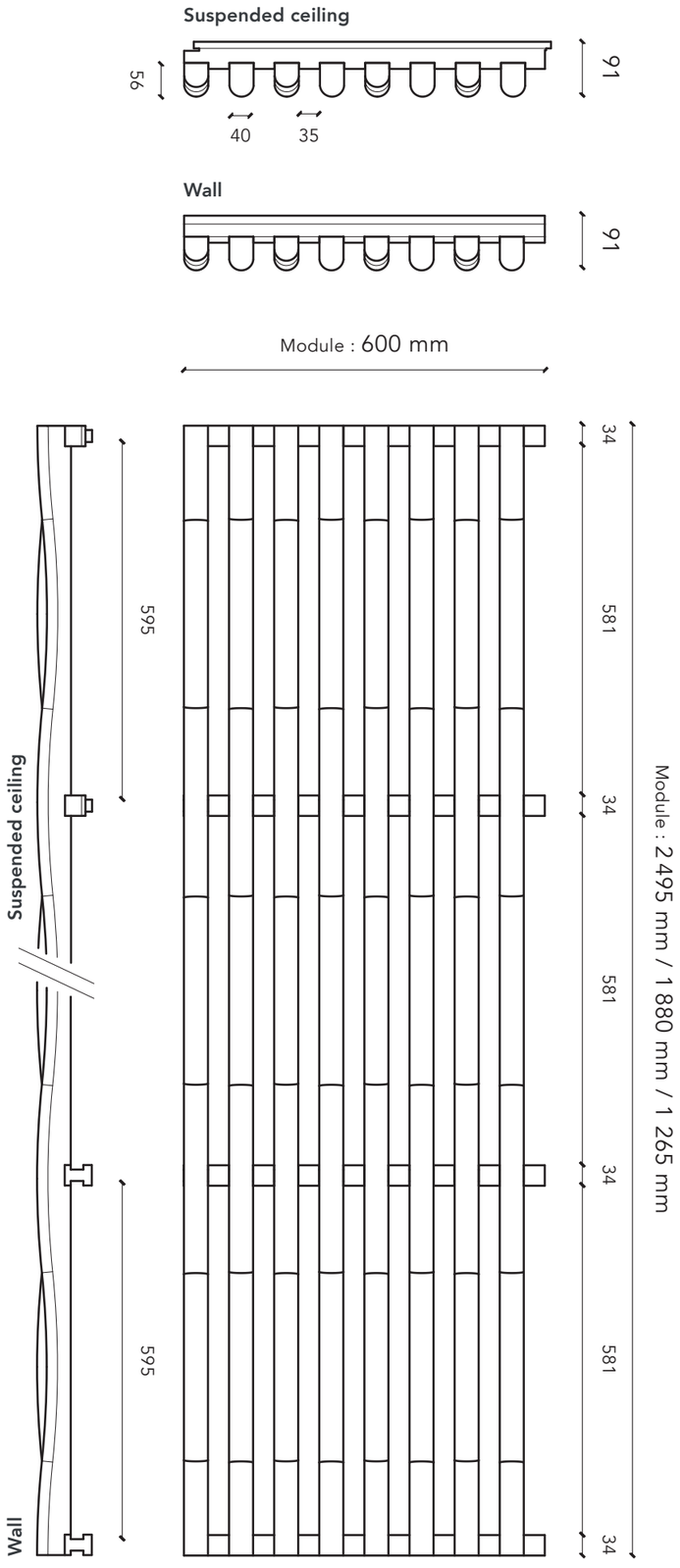
ABSORPTION CLASS :
Class B

LINEA 3D BAMBOO WAVE

LINEA RANGE
INTERIOR





TECHNICAL CHARACTERISTICS

Panel dimensions	2 495 x 600 mm 1 880 x 600 mm 1265 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)	17,8 kg/m²
Surface mass (oak)	21,5 kg/m²
Openness percentage	47 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

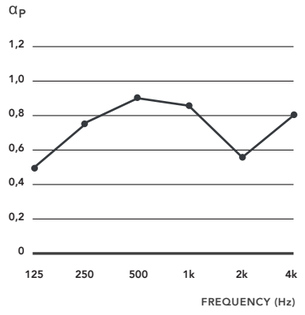
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 3D BAMBOO WAVE CEILING

+ LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT



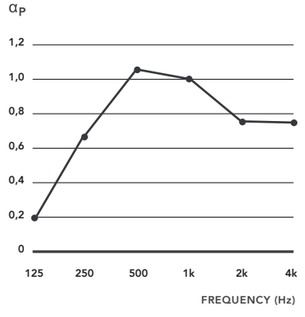
WEIGHTED INDEX :
$\alpha_w = 0,65$

ABSORPTION CLASS :
Class C

LINEA 3D BAMBOO WAVE WALL

+ LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT

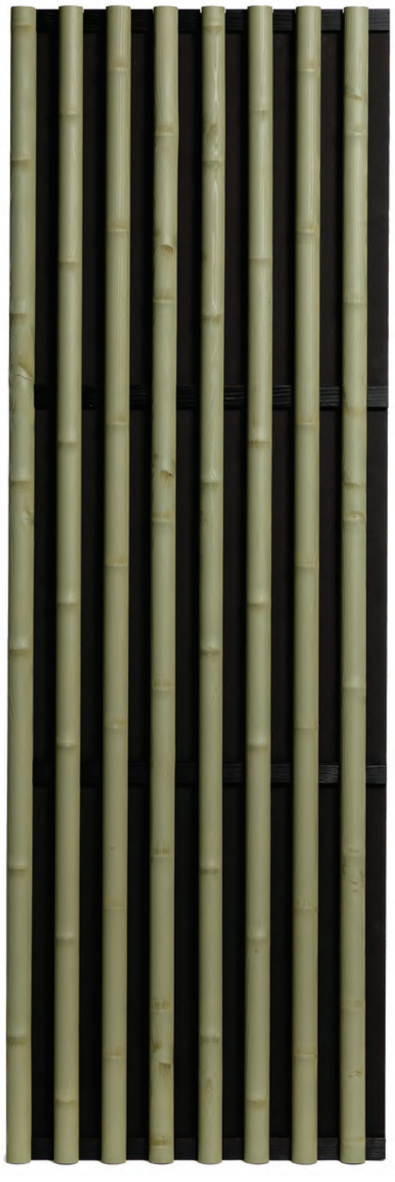


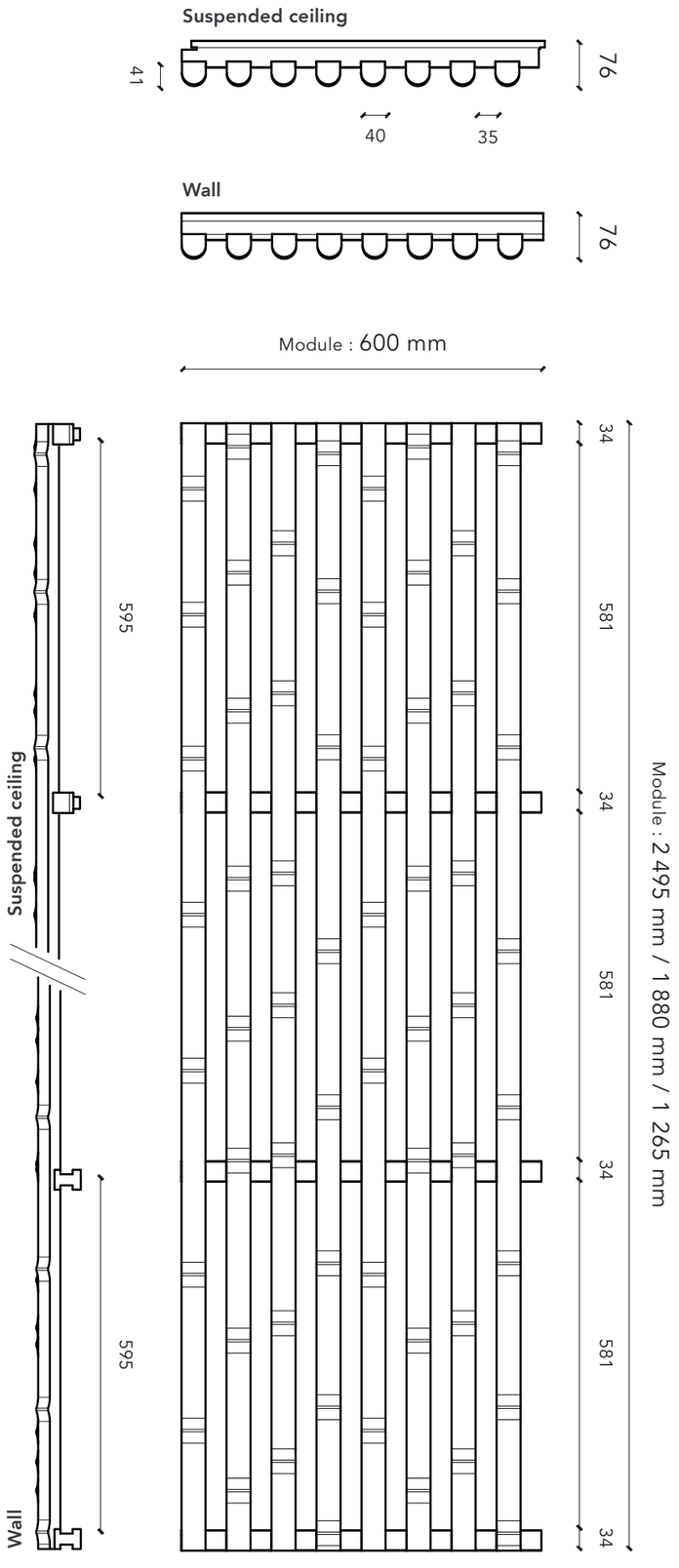
WEIGHTED INDEX :
$\alpha_w = 0,85$

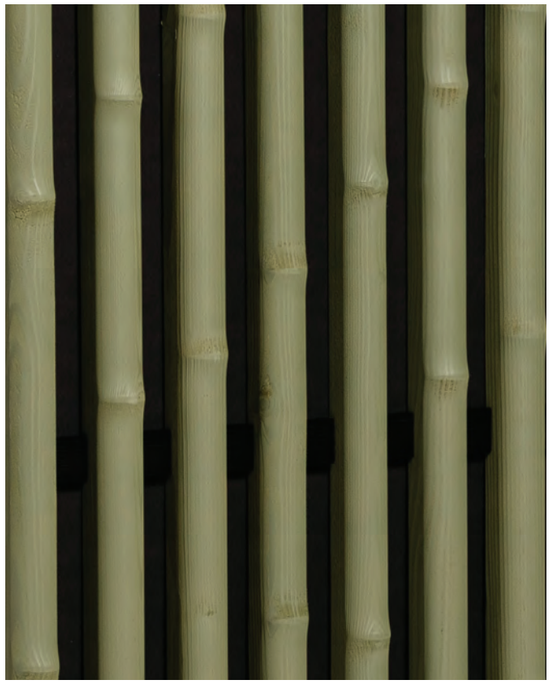
ABSORPTION CLASS :
Class B

LINEA 3D JUNGLE

LINEA RANGE
INTERIOR







TECHNICAL CHARACTERISTICS

Panel dimensions	2 495 x 600 mm 1 880 x 600 mm 1265 x 600 mm
Cross-section of slats	40 mm (face) x 41 mm (height)
Spacing between slats	35 mm
Centre distance of slats	75 mm
Black rear counter-slats	34 x 45 mm
Overall thickness	76 mm
Wood species	Pine, oak
Surface mass (pine)	14,1 kg/m²
Surface mass (oak)	16,9 kg/m²
Openness percentage	47 %

Rear surface : acoustic mineral wool tiles 2,4 kg/m² surfaced with black fleece facing (format 600 x 600 mm ; 20 or 22 mm thickness)
Not supplied by Laudescher

FITTING SYSTEM

Suspended ceiling

Fitting on T24 grid system
or by screwing :
– Selon NF EN 13964
– Selon DTU 58-1

Wall cladding

Mechanical fixing by screwing:
– Selon DTU 36-2
– Selon NF EN 14915

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

Reaction to fire possibilities Euroclass B-s1,d0 or B-s2,d0 according to species and finishes.

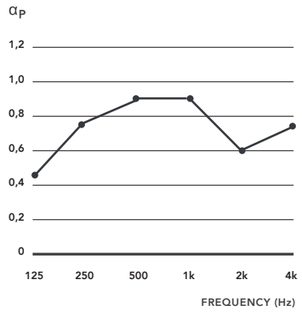
ACOUSTIC RESULTS

The various data relating to acoustic absorption (αp, αw, absorption class) have been calculated according to ISO 11654 standard (LINEA + acoustic supplement).

LINEA 3D JUNGLE CEILING

+ LR 20 mm on plenum E250 mm

ACOUSTIC ABSORPTION COEFFICIENT



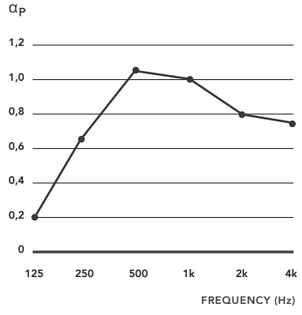
WEIGHTED INDEX :
$\alpha_w = 0,70$

ABSORPTION CLASS :
Class C

LINEA 3D JUNGLE WALL

+ LR 20 mm on plenum E50 mm

ACOUSTIC ABSORPTION COEFFICIENT



WEIGHTED INDEX :
$\alpha_w = 0,85$

ABSORPTION CLASS :
Class B

6

Installation

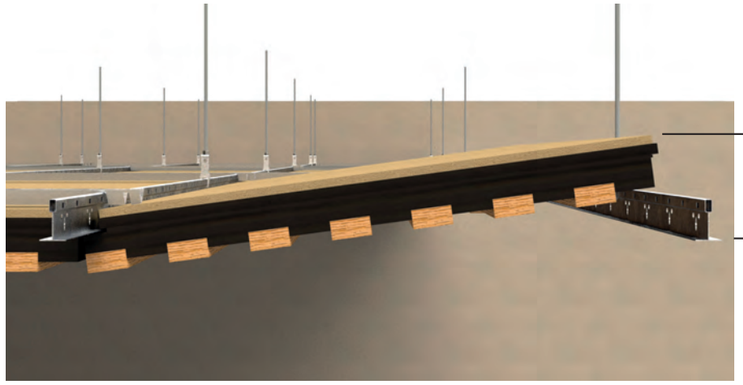
A PATENTED FLEXIBLE INSTALLATION SYSTEM THAT ADAPTS TO STANDARD SYSTEMS ON THE MARKET

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

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

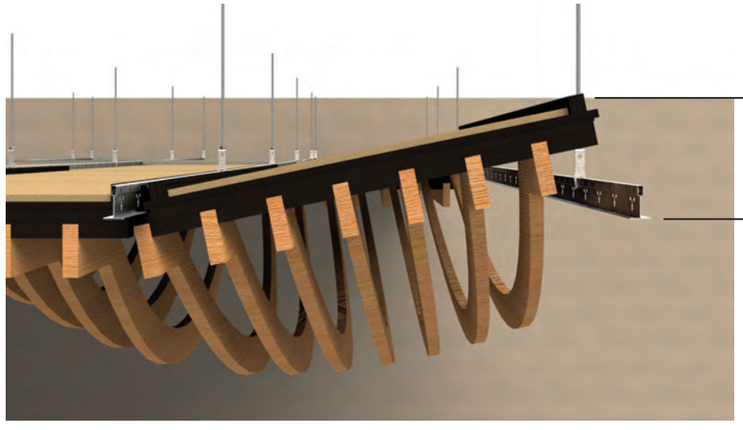
Installation dismountable ceiling

Requirements for installation



Minimum plenum to mount and dismount panels

Minimum plenum
100 mm

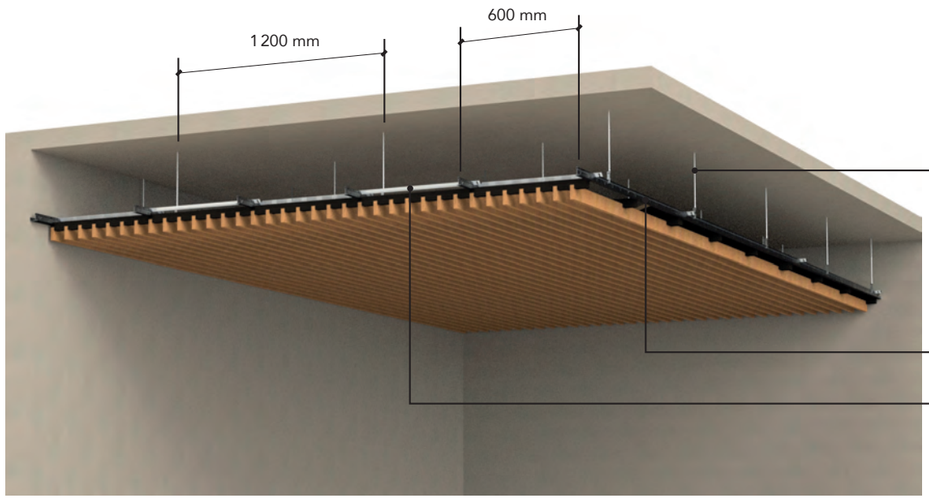


Special case of LINEA SHAPE

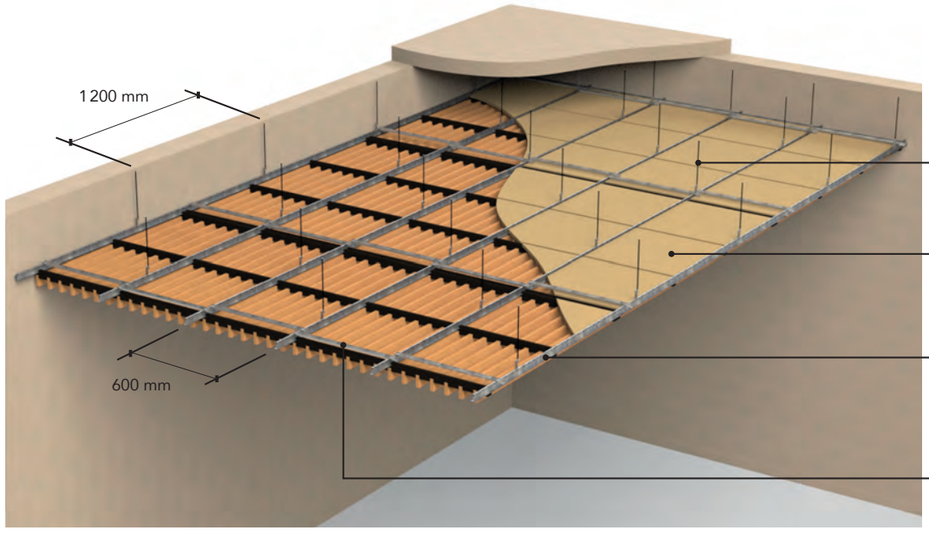
Minimum plenum
150 mm

Overview drawings

Bottom view



Top view



Installation dismountable ceiling

Frame

Installed on standard T24 grid system* with black capping, concealed using a patented system, according to current standards and best practice rules in each country (French standards NF P 68203-1 and -2 and DTU 58-1, 2008 edition France).
Laudescher does not supply all structural elements.

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

DESCRIPTION

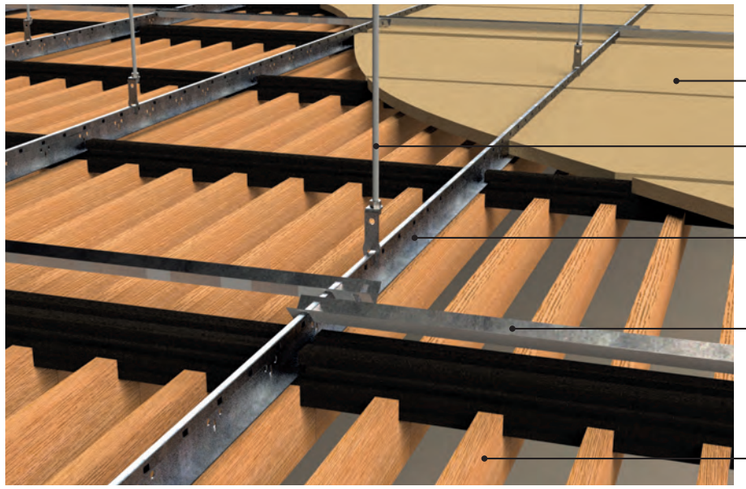
T24 main runners	Centre distance 600 mm
Hangers	Quick-adjusting threaded rods or hangers
Distance between hangers	Maximum 1 200 mm Maximum 150 mm from edge
Spacing	Minimum 1 spacer bar per panel Spacer bars 200mm from edge
Finish	Perimeter trim with wall angle trim profile with black capping (peripheral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

FRAME COVERAGE

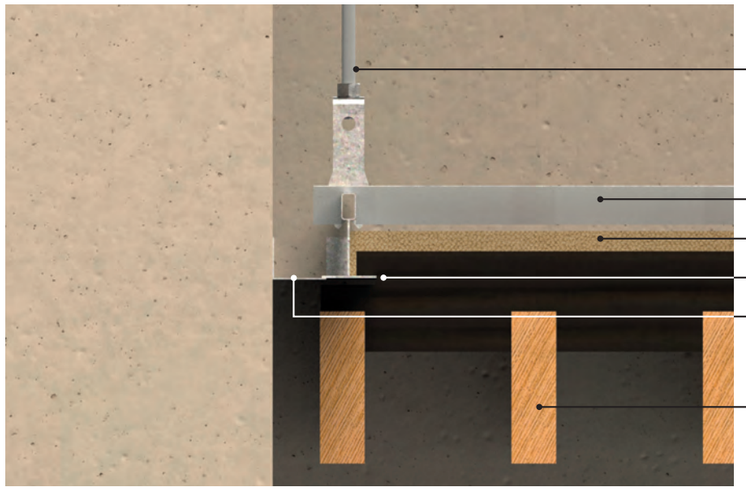
	Frame 1 880 x 600 mm
Rail	1,67 ml/m²
Spacer bar	0,54 ml/m²
Profile	Based on length of edge
Hanger	1,40 p/m²

Maximum load : 22 kg/m² evenly distributed

General views



Fitting principle

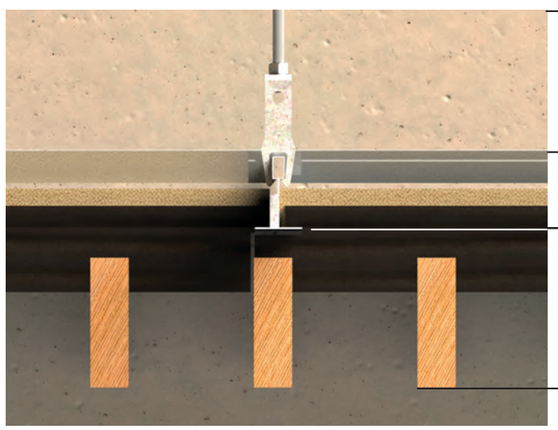


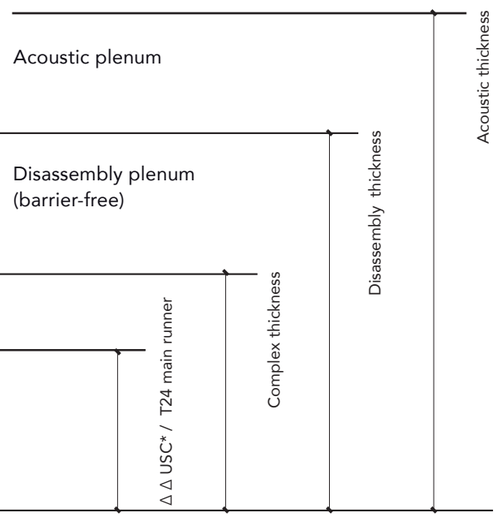
Details of transverse edge

Detail of longitudinal edge

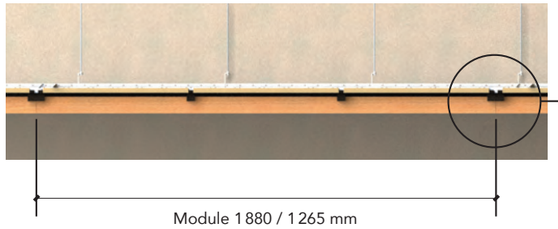
Installation dismountable ceiling

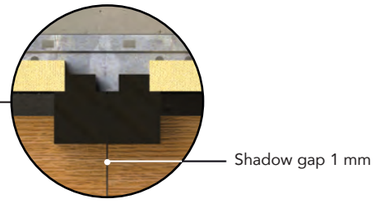
Details





Longitudinal view





Module 1 880 / 1 265 mm
(included shadow gap)

System dimensions

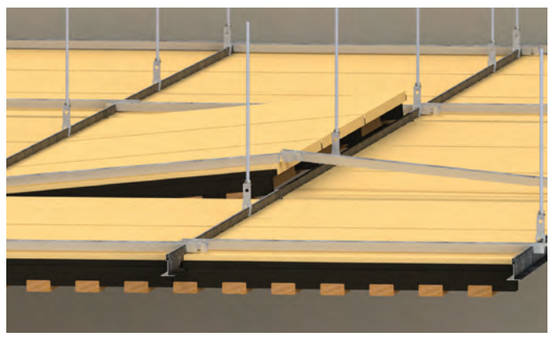
CEILING

Model	Δ USC* / T24	Complex thickness	Disassembly thickness	Acoustic thickness
4.2 / 4.2 LITE	43 mm	84 mm	144 mm	314 mm
9.2.1 / 422 AL	48 mm	89 mm	149 mm	319 mm
9.2.3 / 9.2.6	43 mm	84 mm	144 mm	314 mm
2.4 / 2.4 LITE / 42 AL	57 mm	98 mm	158 mm	328 mm
2.6	83 mm	124 mm	184 mm	354 mm
2.9	105 mm	146 mm	206 mm	376 mm
SCALE / PIX / BAMBOO	55 mm	96 mm	156 mm	326 mm
EDGE	63 mm	104 mm	164 mm	334 mm
BAMBOO WAVE	79 mm	120 mm	180 mm	350 mm
JUNGLE	64 mm	105 mm	165 mm	335 mm

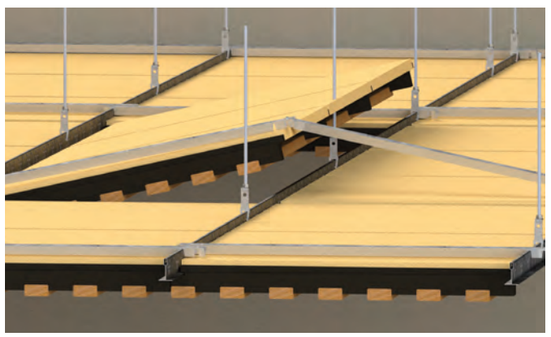
Δ *USC: Under Suspended Ceiling

Dismounting

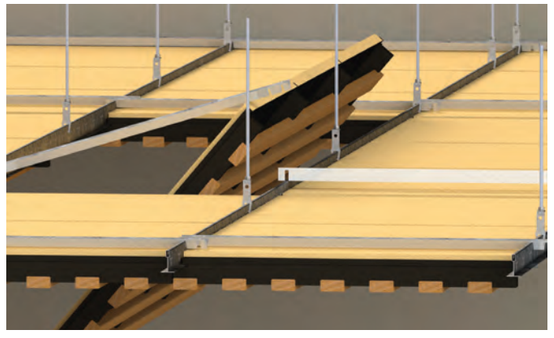
Step 1 : Lift the panel



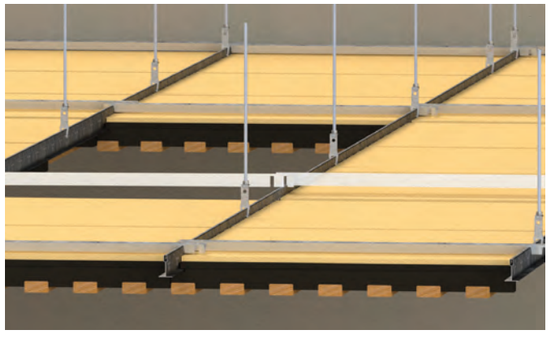
Step 2 : Slide the panel



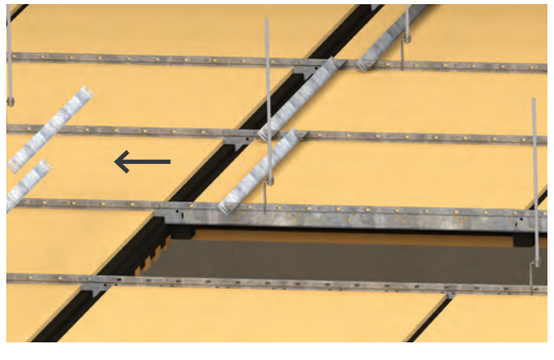
Step 3 : Remove the panel



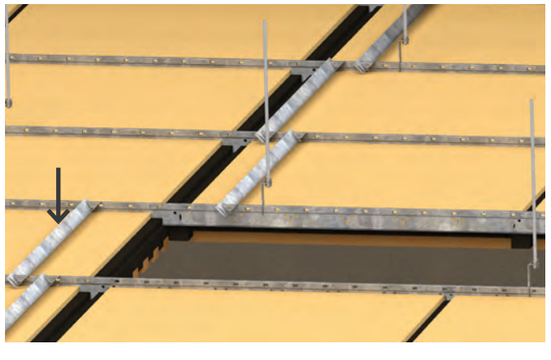
Step 4 : The spacer bars are unclipped



Step 5 : Shift the spacer bars to the next panel



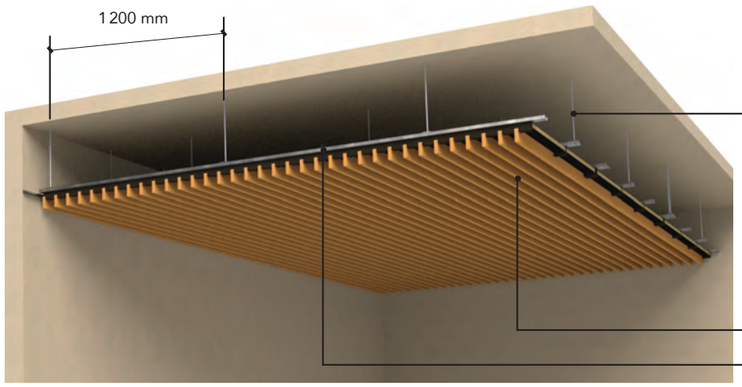
Step 6 : Check system lock



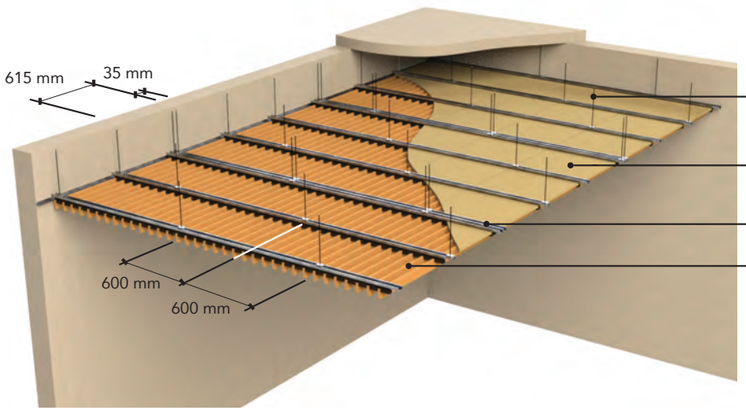
Installation screwed ceiling

Overview drawings

Bottom view



Top view



Frame

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

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

DESCRIPTION

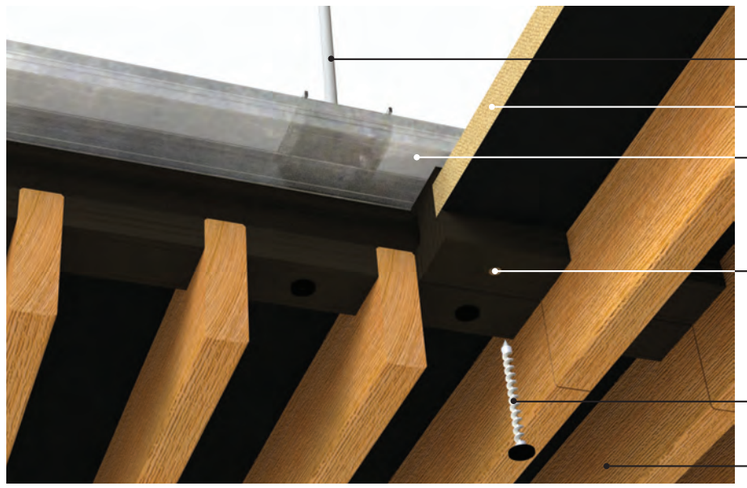
Frame	Metal or wooden structure aligned with counter-slats Minimum 2 screws per counter-slats
Hangers	Compatible with the choice of structure and supporting materials
Spacing between hangers	Maximum 1 200 mm Maximum 100 mm from the edge
Finish	Perimeter trim with wall angle trim profile

FRAME COVERAGE

	Frame 1 880 x 600 mm
Rail	2,1 ml/m²
Hanger	1,8 pc/m²
Profile	Based on length of edge

Maximum load : 30 kg/m² evenly distributed

Installation details



Installation screwed ceiling

Fitting principle

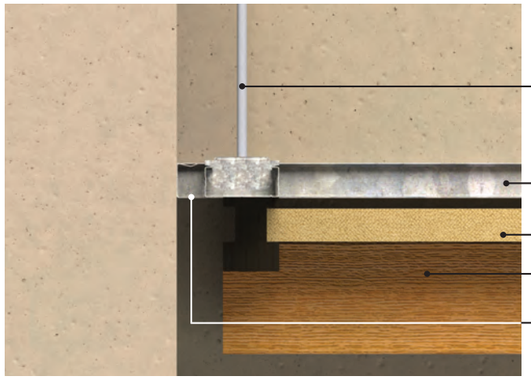
Hanger

Acoustic mineral wool tile

LINEA panel

Frame

Detail of transverse edge



Hanger

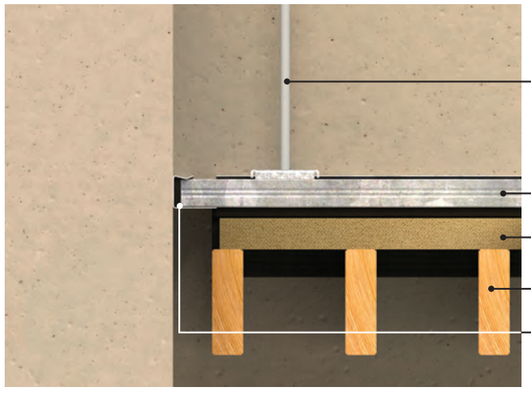
Frame

Acoustic mineral wool tile

LINEA panel

Perimeter trim

Detail of longitudinal edge



Hanger

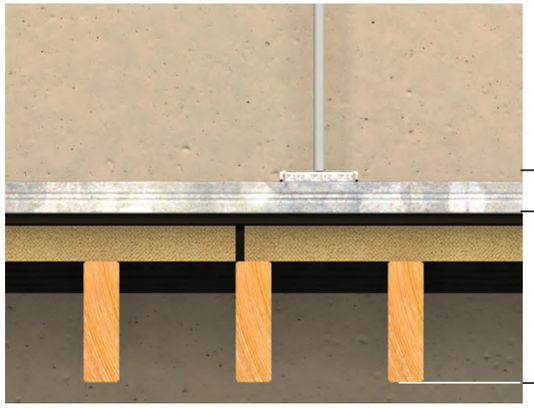
Frame

Acoustic mineral wool tile

LINEA panel

Perimeter trim

Details



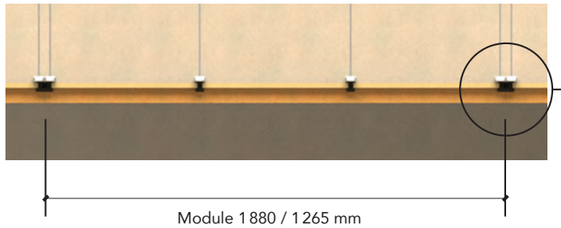
Acoustic plenum

Panel thickness

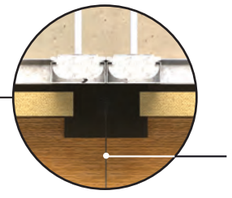
Complexe thickness

Acoustic thickness

Longitudinal view



Module 1 880 / 1 265 mm
(including shadow gap)



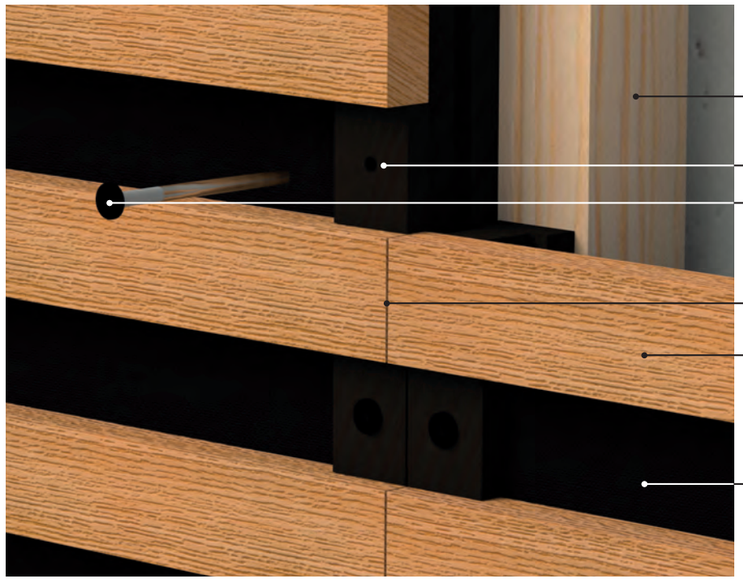
Shadow gap 1 mm

CEILING

Model	Panel thickness	Complex thickness	Acoustic thickness
4.2.1 / 4.2.1 LITE / 4.2.4 / 4.2.4 LITE	55 mm	55 mm + frame	91 mm
9.2.1 / 422 AL	60 mm	60 mm + frame	96 mm
9.2.3 / 9.2.6	55 mm	55 mm + frame	91 mm
2.4.3 / 2.4.3 LITE / 2.4.5 / 2.4.5 LITE / 42 AL	69 mm	69 mm + frame	113 mm
2.6.5 / 2.6.6 / 2.6.6 LITE / 2.6.8 / 2.6.10	95 mm	95 mm + frame	139 mm
2.9.8 / 2.9.10 / 2.9.13	117 mm	117 mm + frame	161 mm
PIX / SCALE	67 mm	67 mm + frame	111 mm
BAMBOO / EDGE	75 mm	75 mm + frame	119 mm
BAMBOO WAVE	91 mm	91 mm + frame	127 mm
JUNGLE	76 mm	76 mm + frame	112 mm

Installation wall

Overview drawings



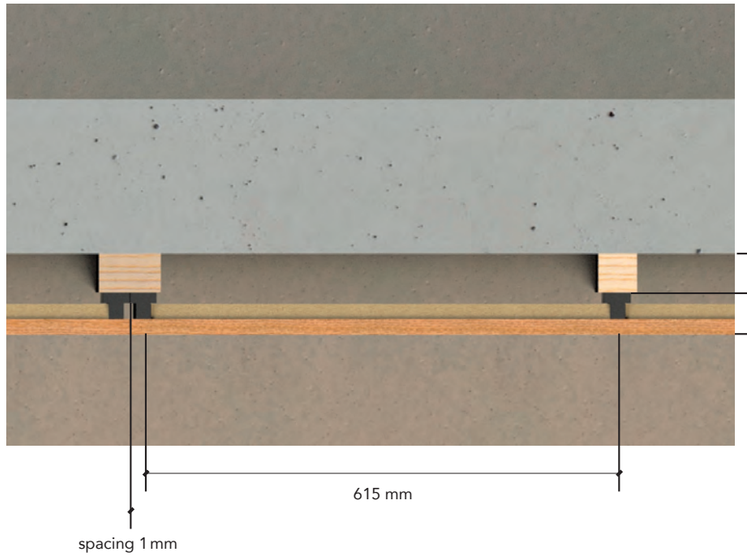
Fitting principle

Frame

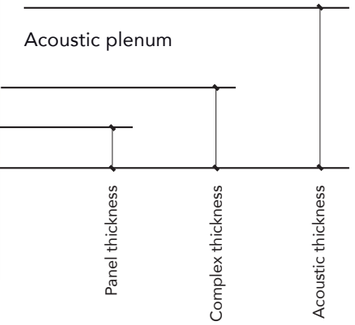
Fitted by screwing onto framework* through the black counter-slats (2 black-laquered round-head screws per batten) as per DTU 36.2 and EN 14915.

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

System dimensions



Details



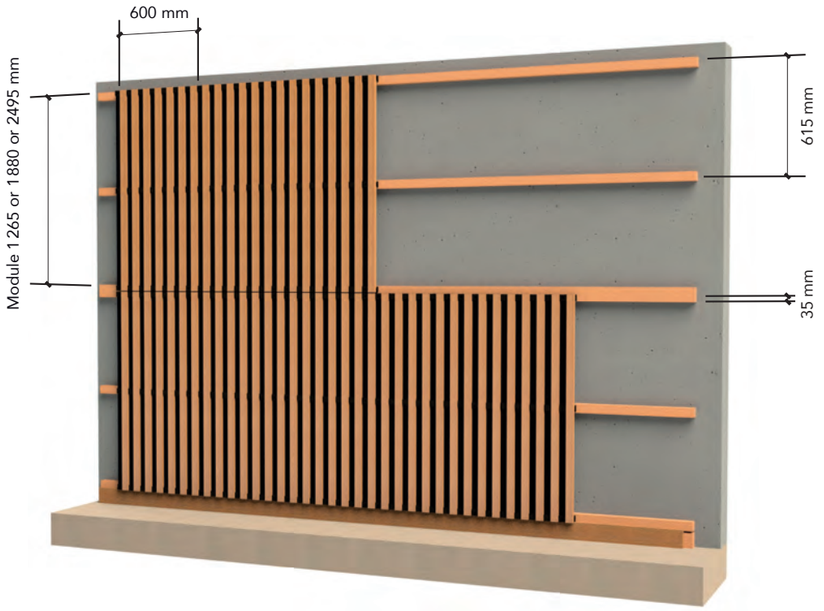
WALL

Model	Panel thickness	Complex thickness	Acoustic thickness
4.2.1 / 4.2.1 LITE / 4.2.4 / 4.2.4 LITE	55 mm	55 mm + frame	91 mm
9.2.1 / 422 AL	60 mm	60 mm + frame	96 mm
9.2.3 / 9.2.6	55 mm	55 mm + frame	91 mm
2.4.3 / 2.4.3 LITE / 2.4.5 / 2.4.5 LITE / 42 AL	69 mm	69 mm + frame	113 mm
2.6.5 / 2.6.6 / 2.6.6 LITE / 2.6.8 / 2.6.10	95 mm	95 mm + frame	139 mm
2.9.8 / 2.9.10 / 2.9.13	117 mm	117 mm + frame	161 mm
PIX / SCALE	67 mm	67 mm + frame	111 mm
BAMBOO / EDGE	75 mm	75 mm + frame	119 mm
BAMBOO WAVE	91 mm	91 mm + frame	127 mm
JUNGLE	76 mm	76 mm + frame	112 mm

Installation wall

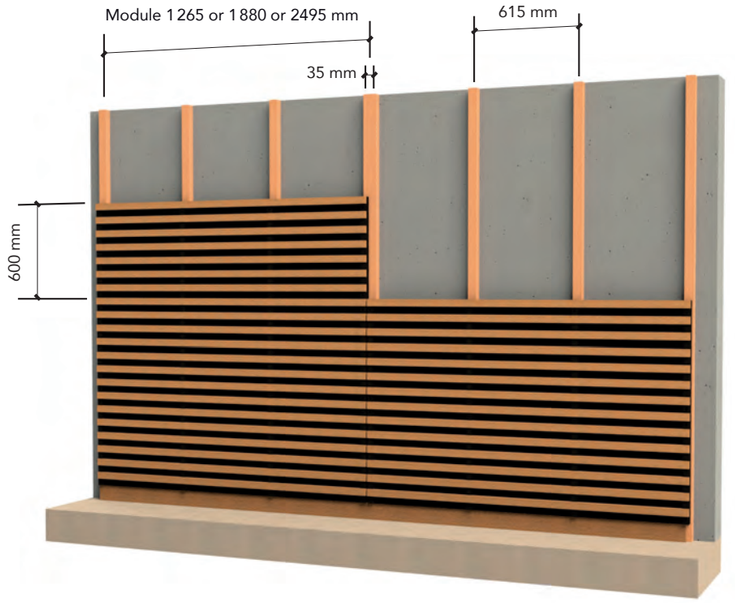
Vertical fitting

Overview



Horizontal fitting

Overview



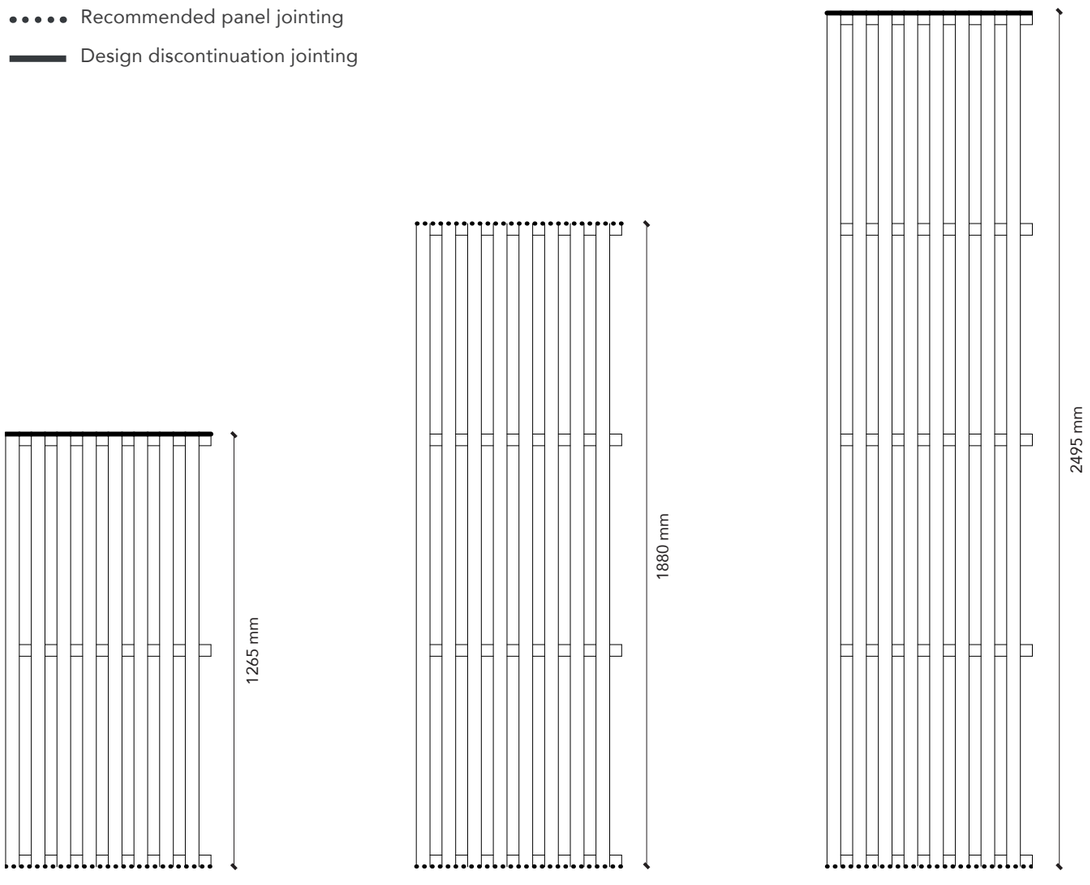
Installation
LINEA 3D

Fitting order

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

Recommended panel jointing

Design discontinuation jointing

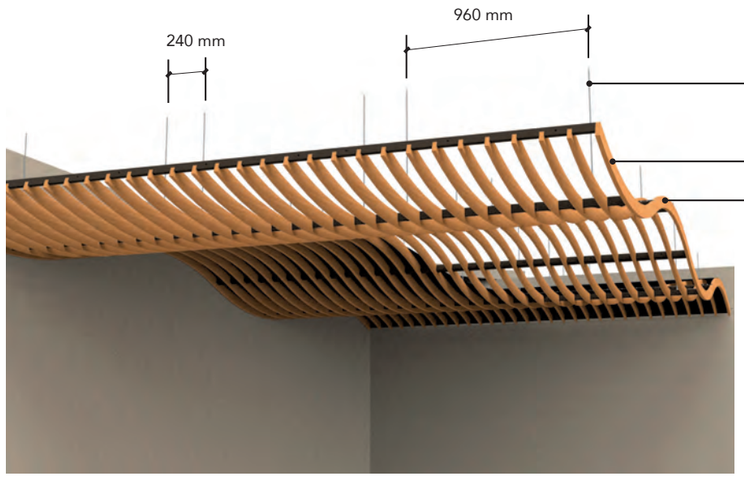


* Overhang counter-slats must always be positionned on the same side.

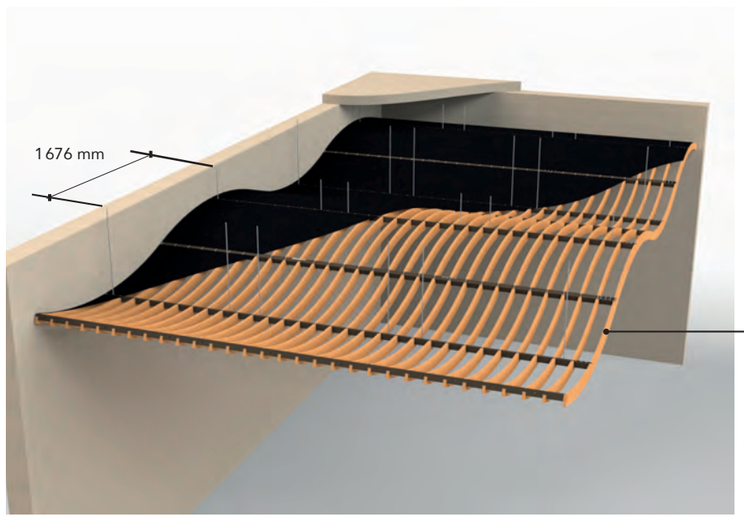
Installation
LINEA SWELL

General views

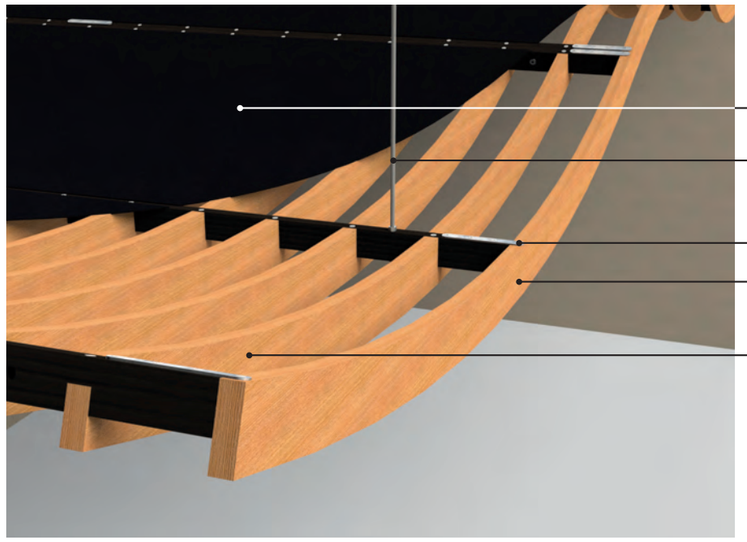
Bottom view



Top view



Fitting principle



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

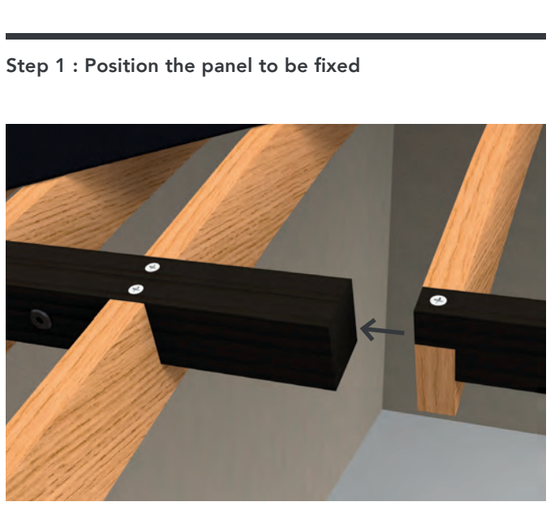
Frame

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

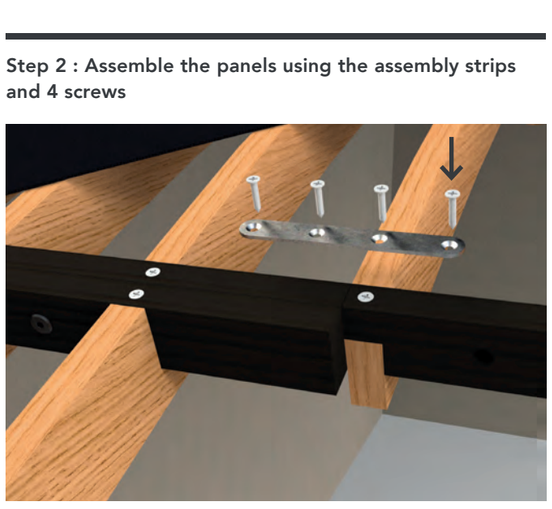
* The entire framework and suspension system must be designed when applying in moist and/or corosive environnments.

Installation
LINEA SWELL

Installation details



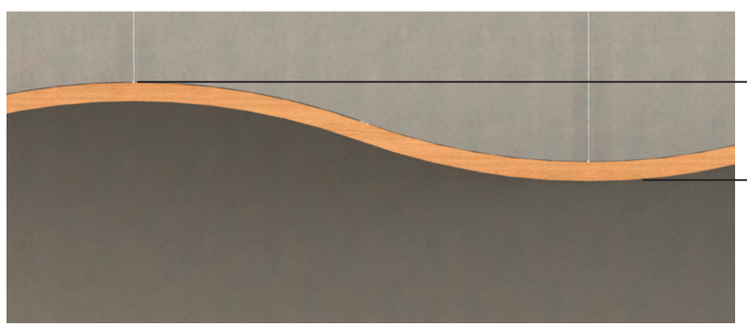
Step 1 : Position the panel to be fixed



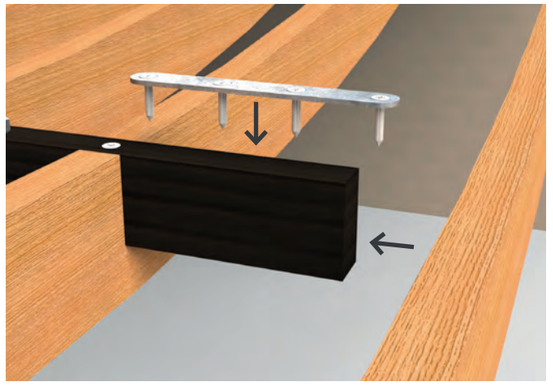
Step 2 : Assemble the panels using the assembly strips and 4 screws

Step 3 : Fix the last panel using the joining kit

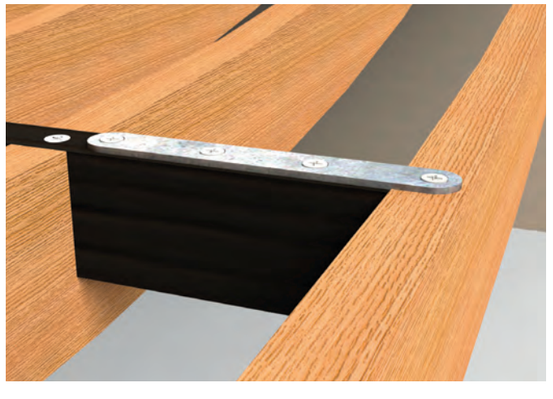
Step 4 : Check system lock



Longitudinal view



Step 1 : Position the additional slat to be fixed



Detail of edges

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

Cutting panels

Simple cut of a panel along its length

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

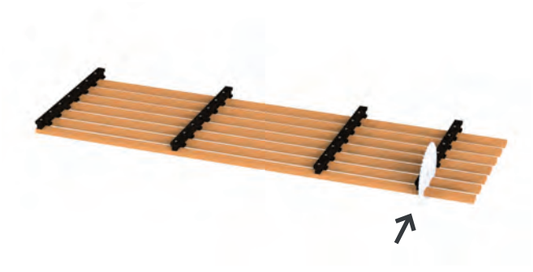
Step 1 : Mark the position of the cut

Step 2 : Unscrew the counter-slat to be moved

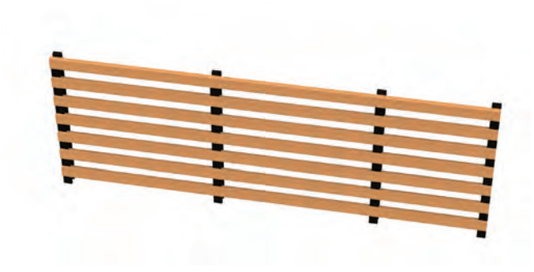
Step 3 : Move the counter-slat

Step 4 : Screw the counter-slat back on

Step 5 : Cut of the surplus slats



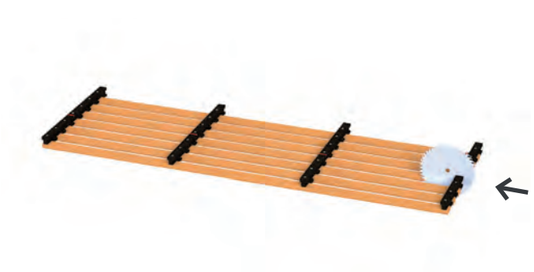
Step 6 : Panel ready to be fitted



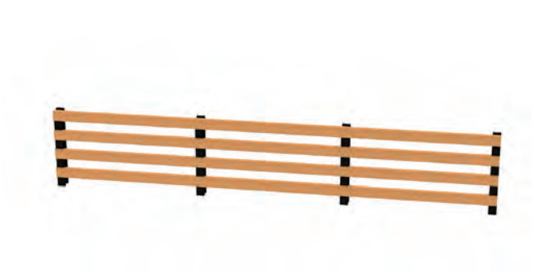
Simple cut of a panel across its width (wall)

Step 1 : Mark the position of the cut

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



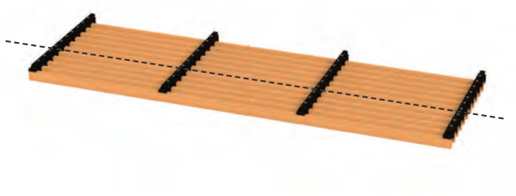
Step 3 : Panel ready to be fitted



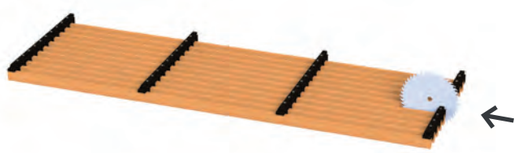
Cutting panels

Simple cut of a panel across its width (ceiling)

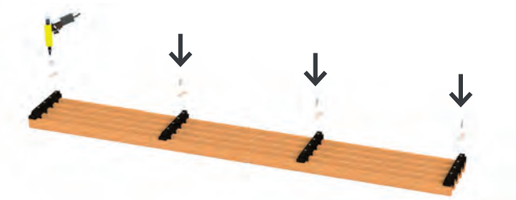
Step 1 : Mark the position and side of the cut



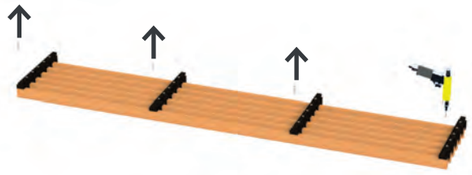
Step 2 : Cut the panel



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

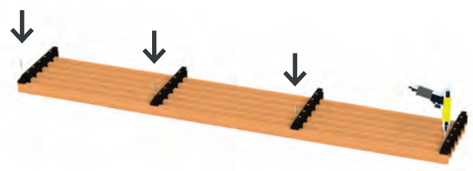


Step 4 : Female cut finish - Unscrew the slat-retaining screws

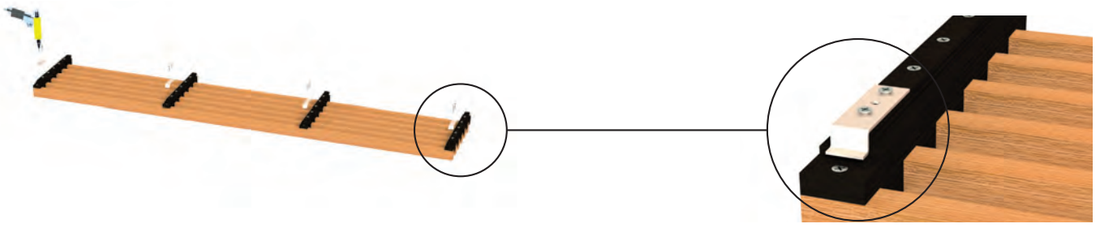


Step 5 : Notch the end of the counter-slat

Step 6 : Screw the slat -retaining screws back in

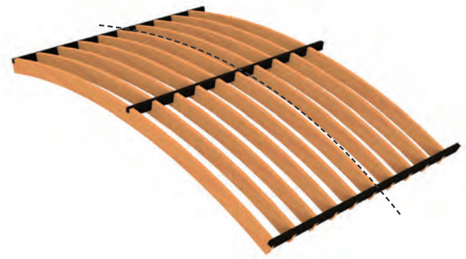


Step 7 : Screw on the edging strip (option). Pre-drill Ø 2 mm

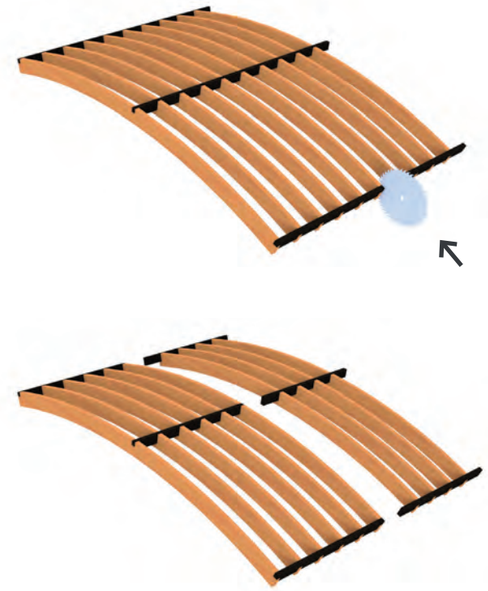


Simple cut of a LINEA SWELL panel across its width

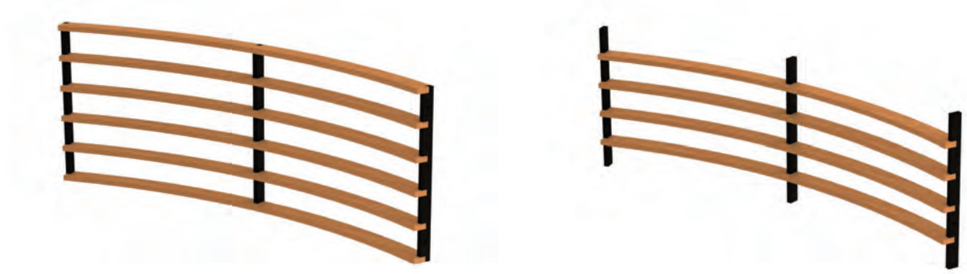
Step 1 : Mark the position of the cut



Step 2 : Cut the panel



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

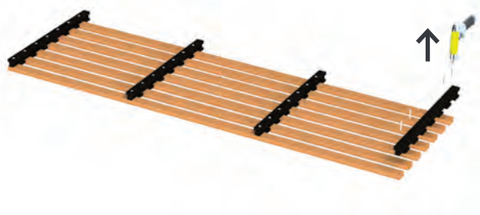


Cutting panels

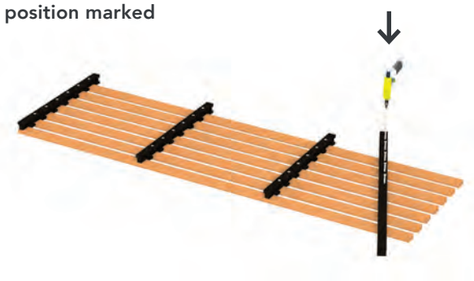
Angled length cut

Step 1 : Mark the position of the cut

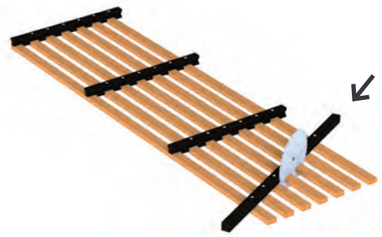
Step 2 : Unscrew the counter-slat



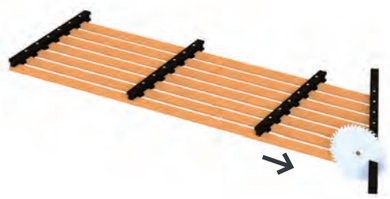
Step 3 : Screw the cutting profile in the position marked



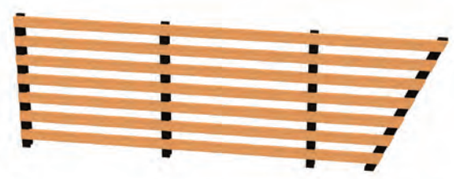
Step 4 : Cut the panel along the cutting profile



Step 5 : Cut the surplus of the cutting profile



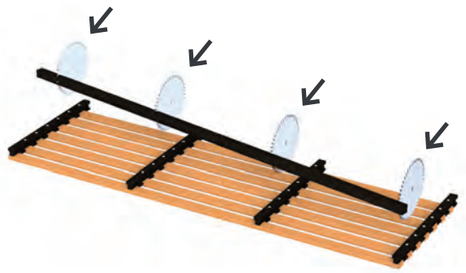
Step 6 : Panel ready to be fitted



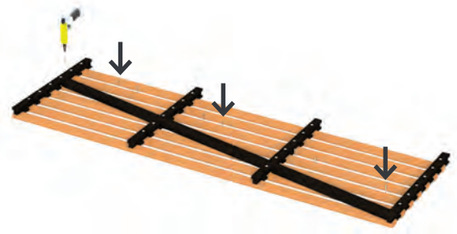
Angled width cut

Step 1 : Mark the position of the cut

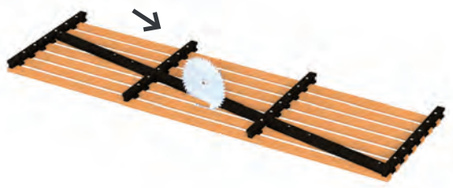
Step 2 : Cut the cutting profile



Step 3 : Screw on the profile to hold the slats



Step 4 : Cut the panel along the cutting profile

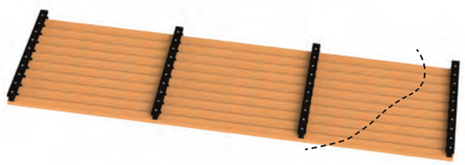


Step 5 : Panel ready to be fitted

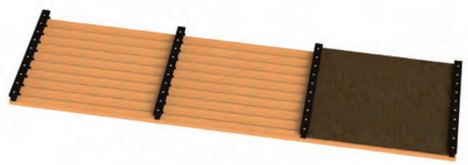
Cutting panels

Random length cut

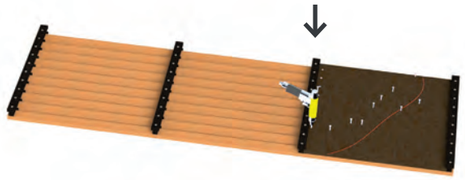
Step 1 : Mark the position of the cut



Step 2 : Insert the particle plate (option)

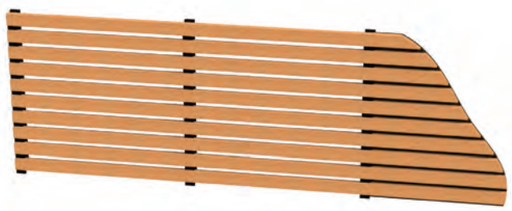


Step 3 : Fix the particle plate on the slats and draw the outline



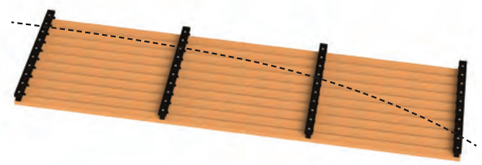
Step 4 : Cut the panel following the outline

Step 5 : Panel ready to be fitted

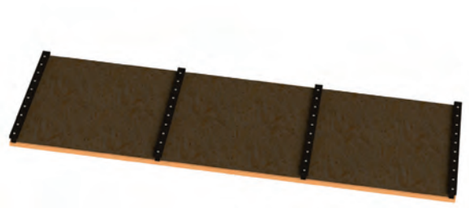


Random width cut

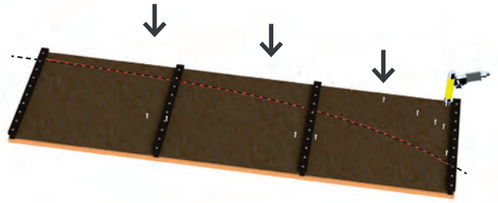
Step 1 : Mark the position of the cut



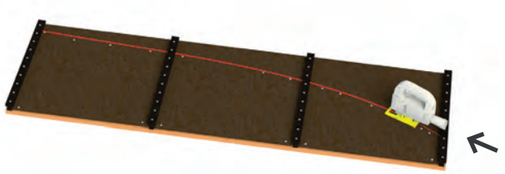
Step 2 : Insert the particle plate (option)



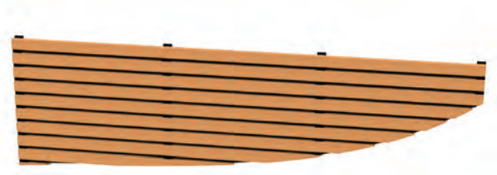
Step 3 : Fix the particle plate on the slats and draw the outline



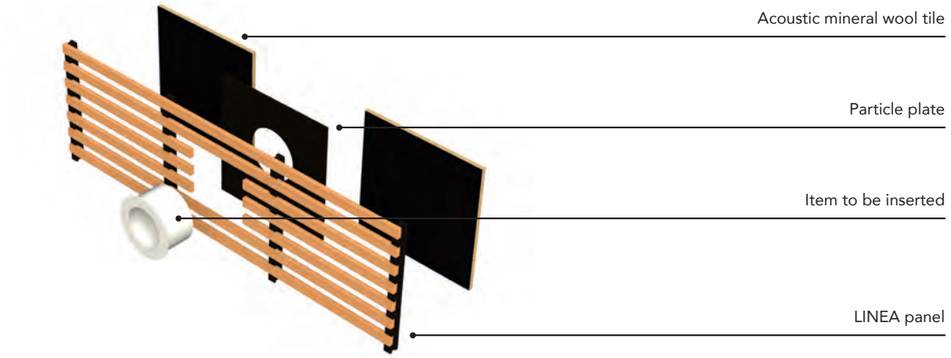
Step 4 : Cut the panel following the outline

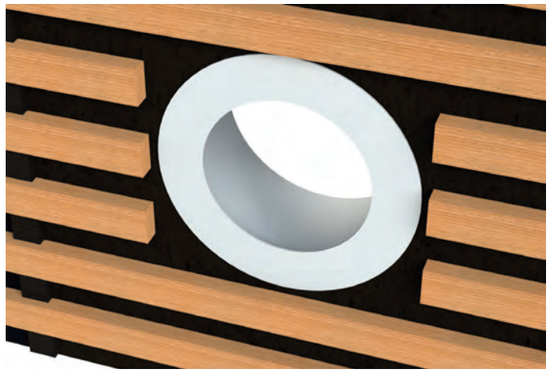


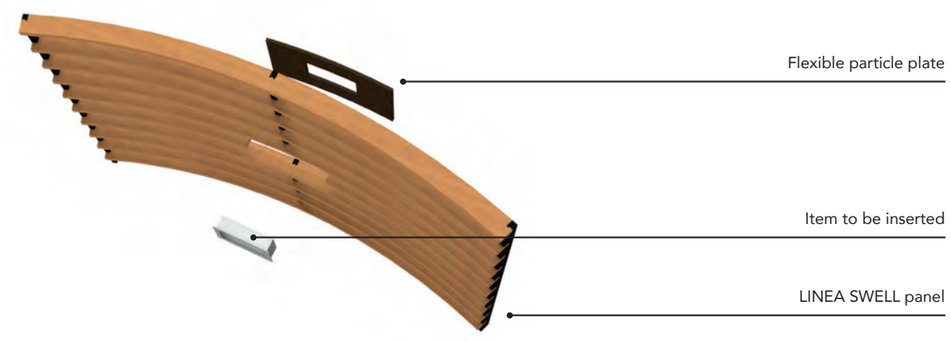
Step 5 : Panel ready to be fitted



Inserting an item

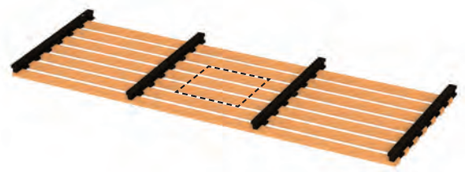




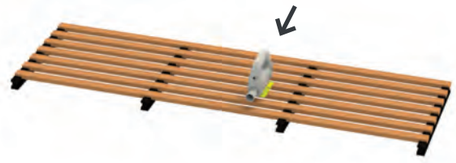


Insertion between two counter-slats

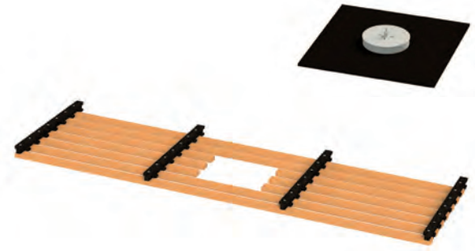
Step 1 : Mark the insertion position



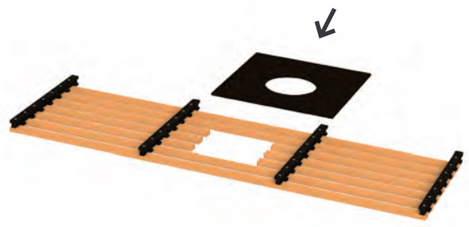
Step 2 : Cut the panel at the position marked



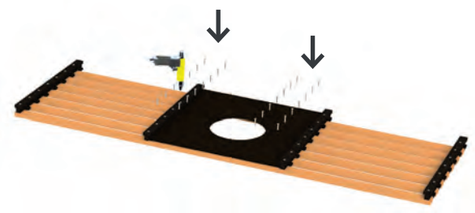
Step 3 : Cut the particle plate at the position marked



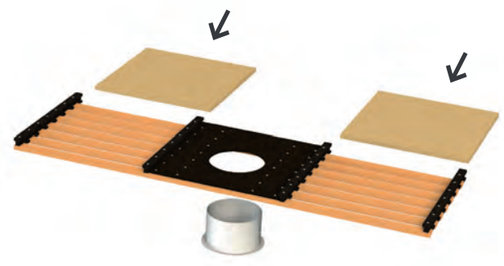
Step 4 : Insert the particle plate on the panel



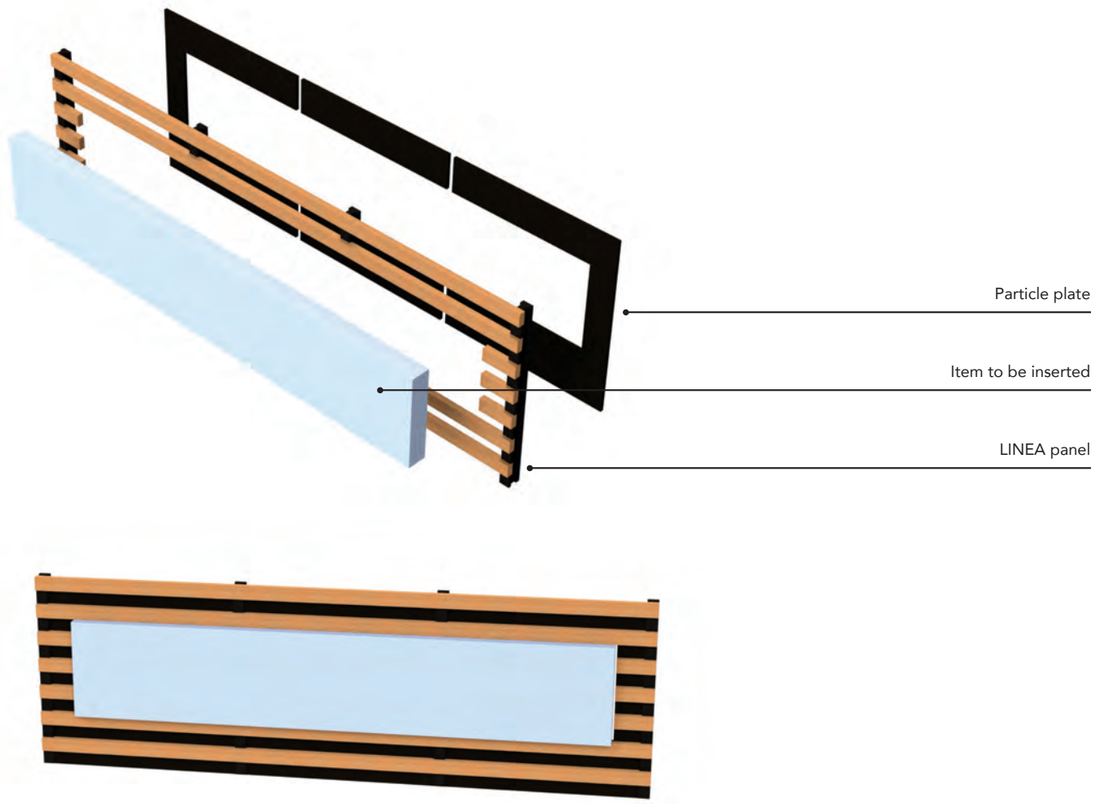
Step 5 : Fix the particle plate on the slats



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

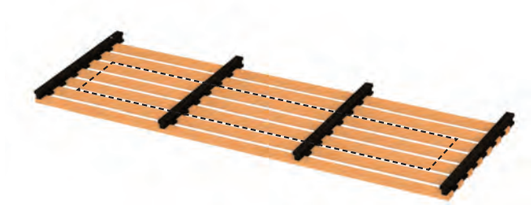


Inserting an item



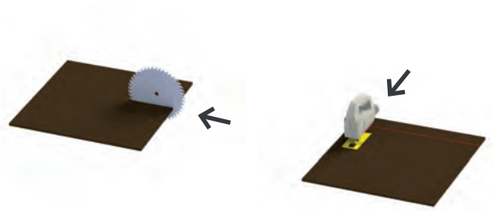
Insertion by modifying counter-slats

Step 1 : Mark the insertion position



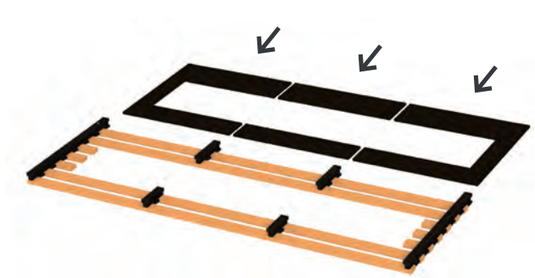
Step 2 : Cut the panel at the position marked

Step 3 : Cut the particles plates to fit

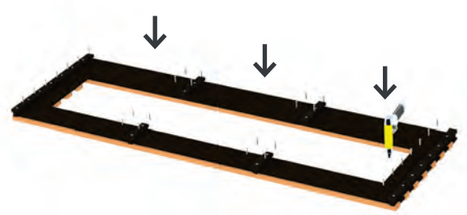


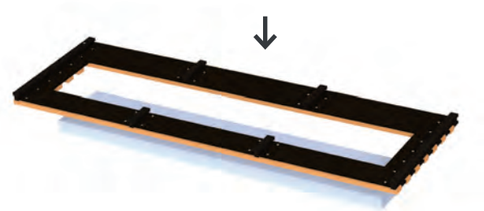
Step 4 : Insert the particles plates on the panel

Step 5 : Fix the particles plates on the slats

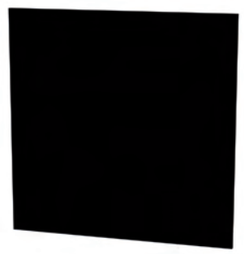


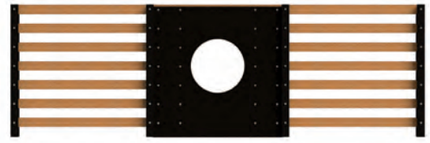
Step 6 : Panel ready to be fitted





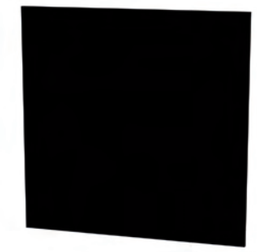
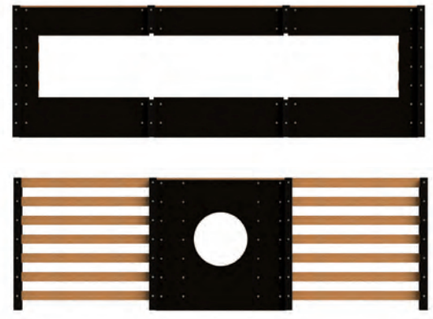
Options & accessories
Ceiling

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

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

Options & accessories
Wall

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

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

Options & accessories
LINEA SWELL

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

*Moist and/or corrosive environment: contact us

Technical comparison
LINEA range

	LINEA 4.2.1	LINEA 4.2.1 Lite	LINEA 4.2.4	LINEA 4.2.4 Lite	LINEA 9.2.1	LINEA 9.2.3	LINEA 9.2.6
Application	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall
TECHNICAL CHARACTERISTICS							
Panel dimensions	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm 1 265 x 600 mm
Cross-section of slats	42 mm (face) x 20 mm (height)	42 mm (face) x 20 mm (height)	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)
Spacing between slats	18 mm	18 mm	43,71 mm	43,71 mm	10 mm	30 mm	60 mm
Centre distance of slats	60 mm	60 mm	85,71 mm	85,71 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	55 mm	55 mm	55 mm	55 mm	60 mm	55 mm	55 mm
Surface mass (pine)	11,8 kg/m²	9,1 kg/m²	8,9 kg/m²	7,8 kg/m²	14,7 kg/m²	12,4 kg/m²	10,4 kg/m²
Surface mass (oak)	13,9 kg/m²	10,7 kg/m²	10,4 kg/m²	9,1 kg/m²	17,5 kg/m²	14,8 kg/m²	12,3 kg/m²
Surface mass (douglas fir)	11,4 kg/m²	8,9 kg/m²	8,7 kg/m²	7,6 kg/m²	14,3 kg/m²	12,1 kg/m²	10,1 kg/m²
Surface mass (silver fir)	–	–	–	–	13,9 kg/m²	11,7 kg/m²	9,8 kg/m²
Openness percentage	30 %	48 %	51 %	58 %	10 %	25 %	40 %
FINISH / REACTION TO FIRE (AS PER EN 13501-1)							
Fire reaction possibilities (according to species and finishes)	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0
ACOUSTIC RESULTS							
CEILING							
Weighted index	α_w = 0,55	α_w = 0,80	**α_w = 0,75***	α_w = 0,85	**α_w = 0,30***	**α_w = 0,50***	**α_w = 0,65***
Absorption class	Class D	Class B	**Class C**	Class B	**Class D**	**Class D**	**Class C**
WALL							
Weighted index	**α_w = 0,85***	α_w = 0,85	**α_w = 0,85***	α_w = 0,90	α_w = 0,20	α_w = 0,50	α_w = 0,70
Absorption class	**Class B**	Class B	**Class B**	Class A	Class E	Class D	Class C

*** Acoustic absorption was measured as per the ISO 354 standard.**

Technical comparison LINEA range

	LINEA 2.4.3	LINEA 2.4.3 Lite	LINEA 2.4.5	LINEA 2.4.5 Lite	LINEA 2.6.5	LINEA 2.6.6	LINEA 2.6.6 Lite
Application	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall
TECHNICAL CHARACTERISTICS							
Panel dimensions	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm
Cross-section of slats	20 mm (face) x 42 mm (height)	20 mm (face) x 42 mm (height)	20 mm (face) x 42 mm (height)	20 mm (face) x 42 mm (height)	20 mm (face) x 68 mm (height)	20 mm (face) x 68 mm (height)	20 mm (face) x 68 mm (height)
Spacing between slats	34,54 mm	34,54 mm	55 mm	55 mm	55 mm	65,71 mm	65,71 mm
Centre distance of slats	54,54 mm	54,54 mm	75 mm	75 mm	75 mm	85,71 mm	85,71 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	69 mm	69 mm	69 mm	69 mm	95 mm	95 mm	95 mm
Surface mass (pine)	12,8 kg/m²	9,8 kg/m²	9,9 kg/m²	7,8 kg/m²	14,8 kg/m²	13,2 kg/m²	11,5 kg/m²
Surface mass (oak)	15,2 kg/m²	11,6 kg/m²	11,6 kg/m²	9,1 kg/m²	17,6 kg/m²	15,7 kg/m²	13,7 kg/m²
Surface mass (douglas fir)	12,4 kg/m²	9,5 kg/m²	9,6 kg/m²	7,6 kg/m²	14,3 kg/m²	12,8 kg/m²	11,2 kg/m²
Surface mass (silver fir)	–	–	–	–	–	–	–
Openness percentage	63 %	73 %	73 %	80 %	73 %	77 %	80 %
FINISH / REACTION TO FIRE (AS PER EN 13501-1)							
Fire reaction possibilities (according to species and finishes)	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0
ACOUSTIC RESULTS							
CEILING							
Weighted index	**α_w = 0,90***	α_w = 0,90	α_w = 0,90	α_w = 0,90	**α_w = 0,90***	**α_w = 0,85***	α_w = 0,90
Absorption class	**Class A**	Class A	Class A	Class A	**Class A**	**Class B**	Class A
WALL							
Weighted index	**α_w = 0,90***	α_w = 0,90	**α_w = 0,85***	α_w = 0,90	α_w = 0,90	α_w = 0,85	α_w = 0,90
Absorption class	**Class A**	Class A	**Class B**	Class A	Class A	Class B	Class A

*** Acoustic absorption was measured as per the ISO 354 standard.**

Technical comparison LINEA range

	LINEA 2.6.8	LINEA 2.6.10	LINEA 2.9.8	LINEA 2.9.10	LINEA 2.9.13	LINEA 42 AL	LINEA 422 AL
Application	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall
TECHNICAL CHARACTERISTICS							
Panel dimensions	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm	1 880 x 600 mm	1 880 x 600 mm	1 880 x 600 mm 1 265 x 600 mm	1 880 x 600 mm 1 265 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 90 mm (height)	20 mm (face) x 90 mm (height)	20 mm (face) x 90 mm (height)	42 mm (face) x 20 mm (height) ou 20 mm (face) x 42 mm (height)	42 mm (face) x 20 mm (height) ou 22 mm (face) x 20 mm (height)
Spacing between slats	80 mm	100 mm	80 mm	100 mm	130 mm	19 mm	11,33 mm
Centre distance of slats	100 mm	120 mm	100 mm	120 mm	150 mm	50 mm	53 mm ou 33 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	117 mm	117 mm	117 mm	77 mm	60 mm
Surface mass (pine)	11,6 kg/m²	10,1 kg/m²	14,1 kg/m²	12 kg/m²	9,9 kg/m²	13,5 kg/m²	11,9 kg/m²
Surface mass (oak)	13,8 kg/m²	11,8 kg/m²	16,9 kg/m²	14,3 kg/m²	11,8 kg/m²	–	–
Surface mass (douglas fir)	11,3 kg/m²	9,8 kg/m²	–	–	–	–	–
Surface mass (silver fir)	–	–	–	–	–	–	–
Openness percentage	80 %	83 %	80 %	83 %	87 %	38 %	28 %
FINISH / REACTION TO FIRE (AS PER EN 13501-1)							
Fire reaction possibilities (according to species and finishes)	Up to B-s1,d0	Up to B-s1,d0	Up to B-s2,d0	Up to B-s2,d0	Up to B-s2,d0	Up to B-s1,d0	Up to B-s1,d0
ACOUSTIC RESULTS							
CEILING							
Indice pondéré	**α_w = 0,85***	**α_w = 0,85***	**α_w = 0,85***	**α_w = 0,85***	**α_w = 0,85***	α_w = 0,65	α_w = 0,50
Absorption class	**Class B**	**Class B**	**Class B**	**Class B**	**Class B**	Class C	Class D
WALL							
Indice pondéré	α_w = 0,85	α_w = 0,80	α_w = 0,85	α_w = 0,85	α_w = 0,85	α_w = 0,75	α_w = 0,55
Absorption class	Class B	Class B	Class B	Class B	Class B	Class C	Class D

*** Acoustic absorption was measured as per the ISO 354 standard.**

Technical comparison LINEA range

LINEA SHAPE and LINEA SWELL models

	LINEA 3D EDGE	LINEA 3D PIX	LINEA 3D SCALE	LINEA 3D BAMBOO	LINEA 3D BAMBOO WAVE	LINEA 3D JUNGLE	LINEA SHAPE	LINEA SWELL
Application	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling / Wall	Ceiling	Ceiling
TECHNICAL CHARACTERISTICS								
Panel dimensions	2495 x 600 mm 1880 x 600 mm 1 265 x 600 mm	2495 x 600 mm 1880 x 600 mm 1 265 x 600 mm	2495 x 600 mm 1880 x 600 mm 1 265 x 600 mm	2495 x 600 mm 1880 x 600 mm 1 265 x 600 mm	2495 x 600 mm 1880 x 600 mm 1 265 x 600 mm	2495 x 600 mm 1880 x 600 mm 1 265 x 600 mm	1880 x 1800 mm composé de 3 panneaux 1880 x 600 mm	1700 x 1200 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)	40 mm (face) x 41 mm (height)	20 mm (face) x 68 mm (height)	20 mm (face) x 68 mm (height)
Spacing between slats	35 mm	35 mm	35 mm	35 mm	35 mm	35 mm	65,71 mm	100 mm
Centre distance of slats	75 mm	75 mm	75 mm	75 mm	75 mm	75 mm	85,71 mm	120 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	20 x 42 mm
Overall thickness	75 mm	67 mm	67 mm	75 mm	91 mm	76 mm	Selon module	213 mm
Surface mass (pine)	11,9 kg/m²	13,2 kg/m²	14,8 kg/m²	14,8 kg/m²	17,8 kg/m²	14,1 kg/m²	15,5 kg/m²	9,8 kg/m²
Surface mass (oak)	14,3 kg/m²	15,9 kg/m²	17,9 kg/m²	17,8 kg/m²	21,5 kg/m²	16,9 kg/m²	19,7 kg/m²	12,4 kg/m²
Surface mass (douglas fir)	–	–	–	–	–	–	–	–
Surface mass (silver fir)	–	–	–	–"	–	–	–	–
Openness percentage	47 %	47 %	47 %	47 %	47 %	47 %	77 %	83 %
FINISH / REACTION TO FIRE (AS PER EN 13501-1)								
Fire reaction possibilities (according to species and finishes)	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s1,d0	Up to B-s2,d0	Up to B-s2,d0
ACOUSTIC RESULTS								
CEILING								
Weighted index	α_W = 0,70	α_W = 0,75	α_W = 0,75	α_W = 0,70	α_W = 0,65	α_W = 0,70	α_W = 0,80	**α_W = 0,95***
Absorption class	Class C	Class C	Class C	Class C	Class C	Class C	Class B	**Class A**
WALL								
Weighted index	α_W = 0,80	α_W = 0,85	**α_W = 0,8***	α_W = 0,85	α_W = 0,85	α_W = 0,85	–	–
Absorption class	Class B	Class B	**Class B**	Class B	Class B	Class B	–	–

*** Acoustic absorption was measured as per the ISO 354 standard.**

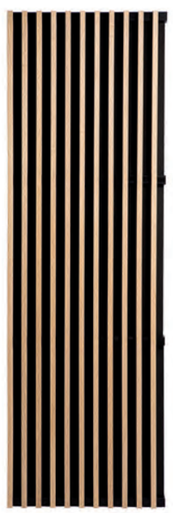
Visual comparison
LINEA range

LINEA 4.2.1

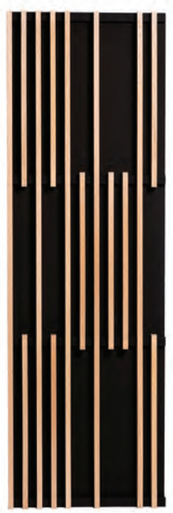
LINEA 4.2.1 Lite

LINEA 4.2.4

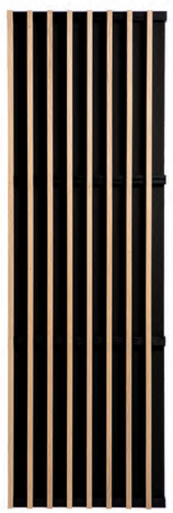
LINEA 2.4.3



LINEA 2.4.3 Lite

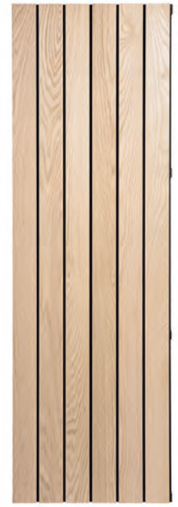


LINEA 2.4.5



LINEA 4.2.4 Lite

LINEA 9.2.1



LINEA 9.2.3

LINEA 9.2.6

LINEA 2.4.5 Lite

LINEA 2.6.5

LINEA 2.6.6

LINEA 2.6.6 Lite

Visual comparison
LINEA range

LINEA 2.6.8

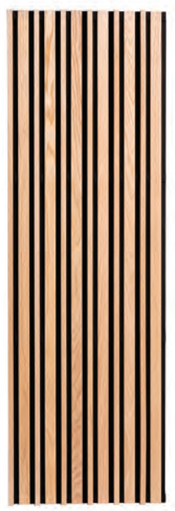
LINEA 2.6.10

LINEA 2.9.8

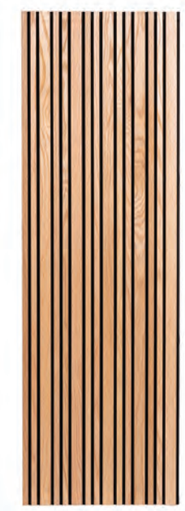
LINEA 2.9.10

LINEA 2.9.13

LINEA 42 AL

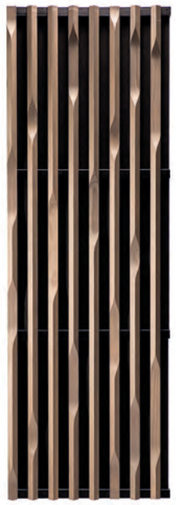


LINEA 422 AL



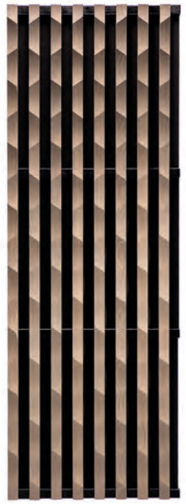
Visuel comparison
LINEA 3D range

LINEA 3D EDGE



LINEA 3D PIX

LINEA 3D SCALE



LINEA 3D BAMBOO

LINEA 3D BAMBOO WAVE

LINEA 3D JUNGLE

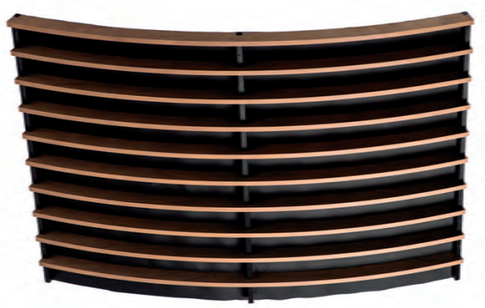
LINEA SHAPE and
LINEA SWELL models

LINEA SHAPE – module 1

LINEA SHAPE – module 2

LINEA SHAPE – module 3

LINEA SWELL – convexe (or concave) module



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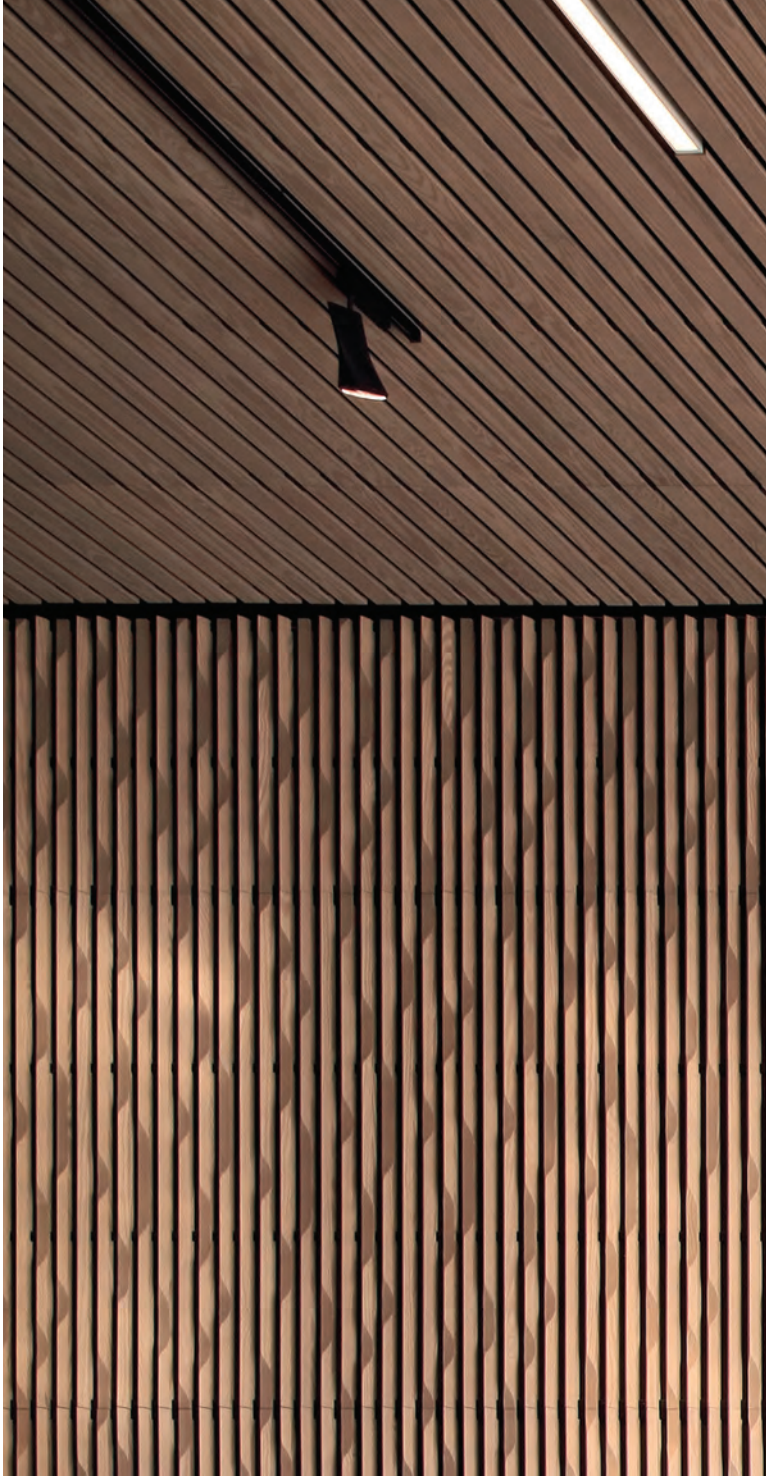

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