

Suspended ceiling

Lauder
INEA

LAUESCHER
PROCESS BOIS

Wood species and colour chart

Solid wood

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



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



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



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



Red Cedar
Highly heterogeneous wood, ranging from brown-pink to red-brown and dark brown, straight and regular fine to medium grain

Wax Color finish

Wax Color finish on Pine

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



White



Wenge



Grey

Wax Color MC finish on Pine

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



Oak



Mahogany



Honey



Cherry



Chocolate



Suspended ceiling installation

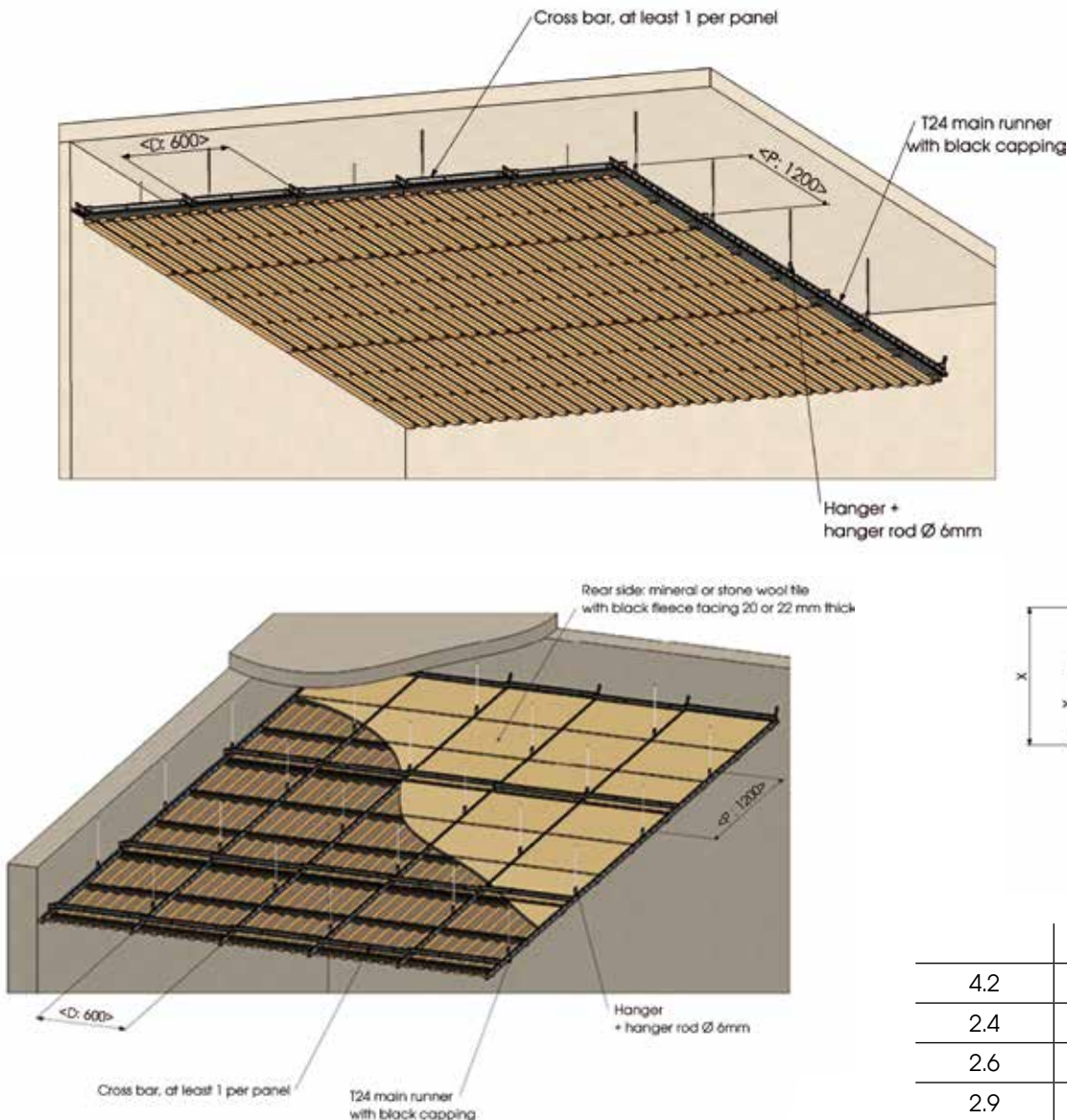
- The ceiling is installed on a grid of T24 main runners with black capping, concealed by a patented system, compliant with current standards and good practice rules in each country (NF P 68203-1 and 2 and DTU 58-1 France 2008 edition)
- The T24 main runners are fixed at a distance of 600 mm, "D1".
- The main runner components are suspended by Ø6 mm threaded rods hung at maximum distance "P" of 1200 mm in a staggered configuration
- The distance between the main runners are maintained by a minimum of 1 cross bar per panel.
- The cross bars must be positioned at a maximum distance of 200 mm from the wall.
- The finishing edge is created using a matt black perimeter trim to provide a bearing surface along the wall.
- The system gives the panels a perfectly flowing and seamless appearance. cf. installation diagram and detailed views

Grid system in moist and/or corrosive environments

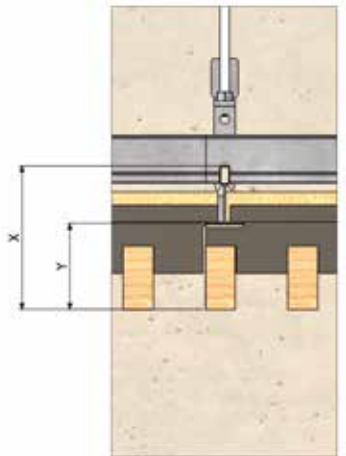
All of the grid and hanging system must be appropriate for use in moist and/or corrosive environments, moisture-resistant or corrosion-resistant type DONN ranges or equivalent. *(Laudescher does not supply all of the grid system)*

Material required for grid system (per m² of ceiling)
Maximum load 22Kg/m² uniformly distributed

	Grid system 1880 x 600
Main runner	1.67 ml / m ²
Cross bar	0.54 ml / m ²
Perimeter trim	According to wall requirements
Hanger	1.40 p / m ²



Sectional view



	X	Y
4.2	81	43
2.4	95	57
2.6	121	83
2.9	143	105

Dimensions in mm

Lauder LINEA suspended ceiling range



		4.2		2.4			2.6			2.9	SWELL	
Product reference		4.2.4	4.2.1	2.4.3	2.4.5	2.4.6	2.6.6	2.6.8	2.6.10	2.9.10	SWELL	
Slat section	Facing side	42 mm	42 mm	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm	20 mm	
	Thickness	20 mm	20 mm	42 mm	42 mm	42 mm	68 mm	68 mm	68 mm	90 mm	68 mm	
Spacing between slats		43.71	18 mm	34.54 mm	55 mm	65.71 mm	65.71 mm	80 mm	100 mm	100 mm	100 mm	
Slat distance		85.71 mm	60 mm	54.54 mm	75 mm	85.71 mm	85.71 mm	100 mm	120 mm	120 mm	120 mm	
Total thickness		55 mm	55 mm	69 mm	69 mm	69 mm	95 mm	95 mm	95 mm	117 mm	68 mm	
Average void area		51%	30%	63%	73%	77%	77%	80%	83%	83 %	83 %	
Modular dimensions		1 880 x 600 mm and 1 265 X 600 mm										
Acoustic 20 mm MW or SW on E50 mm plenum	Weighted index	$\alpha_w = 0.75$	$\alpha_w = 0.50$	$\alpha_w = 0.90$	$\alpha_w = 0.90$	$\alpha_w = 0.90$	$\alpha_w = 0.90$	$\alpha_w = 0.90$	$\alpha_w = 0.90$	$\alpha_w = 0.90$	$\alpha_w = 0.90$	$\alpha_w = 0.65/1^*$
	Absorption class	Class C	Class D	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class A	Class C/A
	ASTM C423	NRC = 0.85	NRC = 0.70	NRC = 0.90	NRC = 0.90	NRC = 0.90	NRC = 0.90	NRC = 0.90	NRC = 0.90	NRC = 0.90	NRC = 0.90	NRC = 0.65/0.95
Reaction to fire		B-s1,d0 / B-s2,d0 as defined in standard EN 13501-1										
Humidity resistance		For high indoor humidity buildings, use of class 3 wood. Risk classes as defined in standard EN 335-2										
PEFC		PEFC certification no. BV/CdC/6004780										
Indoor air quality		VOC: A+ and A as defined in ISO 16000-3, 6, 9 and 1										
Formaldehyde release		E1 as defined in standard EN 717-2										
Installation system		T24 main runner with black capping D/C edge										
Weight in Kg/m ²	Pine	8.50	11.40	12.6	9.7	8.8	13	11.5	9.9	12.5	9.8	
	Douglas Fir	8.40	11.20	12.4	9.6	8.65	12.9	11.3	9.8	12.35	9.7	
	Oak	10.75	14.60	16.1	12.25	11	16.7	14.6	12.5	15.95	12.4	
	Red Cedar	-	-	9.5	7.45	6.8	9.8	8.75	7.6	9.45	-	

* Addition of mineral or stone wool

General performance

Suspended ceiling conformity

The products in the Lauder LINEA Ceiling range are compliant with standard EN 13964 Suspended ceilings, mandatory since July 2007. It defines the specifications of the products that can or are required to appear on labelling and documentation.

Industrial manufacturing process

Rebated using halved joint assembly guaranteeing a perfect hold.

Solid wood

All of our solid wood is rigorously selected to guarantee the quality of our finished products (dry wood 10 to 12%, 1st choice). It is PEFC/FSC certified. Our production unit is also PEFC/FSC certified, guaranteeing use of wood harvested from sustainably managed forests in our Laudescher Process Bois product ranges. (Plant certification no. BV/CdC/6004780 for PEFC and no. BV-COC-004780 for FSC). The wood used to manufacture Lauder LINEA Pine, Douglas Fir, Oak and Red Cedar products is durability class 3 as defined in standard EN 335-2.

Maintenance

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

Environment - Health

Laudescher Process Bois panels produce little waste and are recyclable. They allow excellent air circulation for improved ventilation and a healthier environment. Lauder LINEA panels have been issued with an Environmental and Health Declaration Datasheet validated by the AIMCC and compliant with standard NF P01-010. An EPD (Environmental Product Declaration) is in the process of being created as defined in standard EN 15804.

Storage

Products in the Lauder LINEA range must be stored flat, in premises with constant indoor humidity sheltered from water and blown air heating. Products in the Lauder LINEA range must be stabilised in the destination premises for at least 48 hrs prior to installation.

Performance and conformity

Panel reaction to fire

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

PEFC

PEFC certification no. BV /CdC/6004780

Formaldehyde release

E1 as defined in standard EN 717-2

Indoor air quality

VOC

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

Sag resistance

The references in the Lauder LINEA range are mainly classed 1/C/50N/m² in conformity with standard EN 13964. Some references are classed 2/C/50N/m² (4.2.4 and 4.2.1)

Humidity resistance

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

Suspended ceiling installation

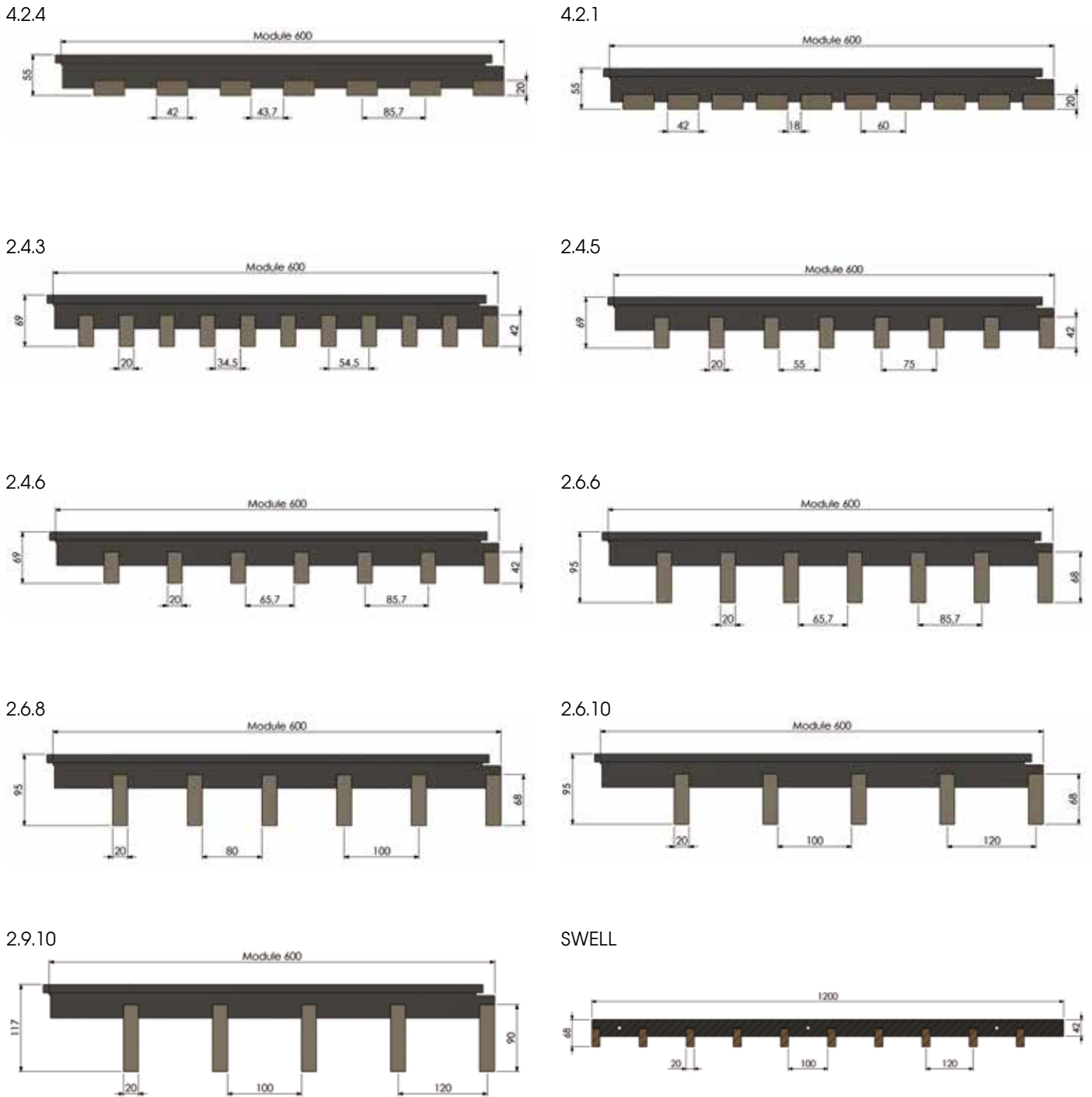
The panel design of suspended ceilings makes them easy to mount and adaptable to each application. The ceiling is installed on a standard grid system of T24 main runners with black capping, according to the manufacturer's recommendations and countries building installation guidelines or similar (NF P 68203-1 and 2 DTU 58-1 France)

Acoustic performance

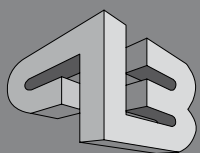
Sound absorption is measured as defined in standard ISO 354. Acoustic data is calculated as defined in standard ISO 11654. Acoustic performance class from A to D depending on the average void area of the products. Performance obtained with insertion of 120 Kg / m³ rigid mineral or stone wool acoustic tiles with black fleece facing (600 x 600 mm format; 20 or 22 mm thick)

Lauder LINEA product references

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



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