

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.



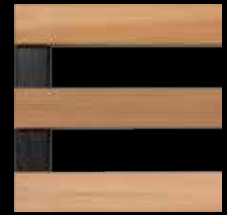
**Pine**  
Homogeneous, knot-free pale wood, clearly visible grain patterning, straight fine to medium grain



**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

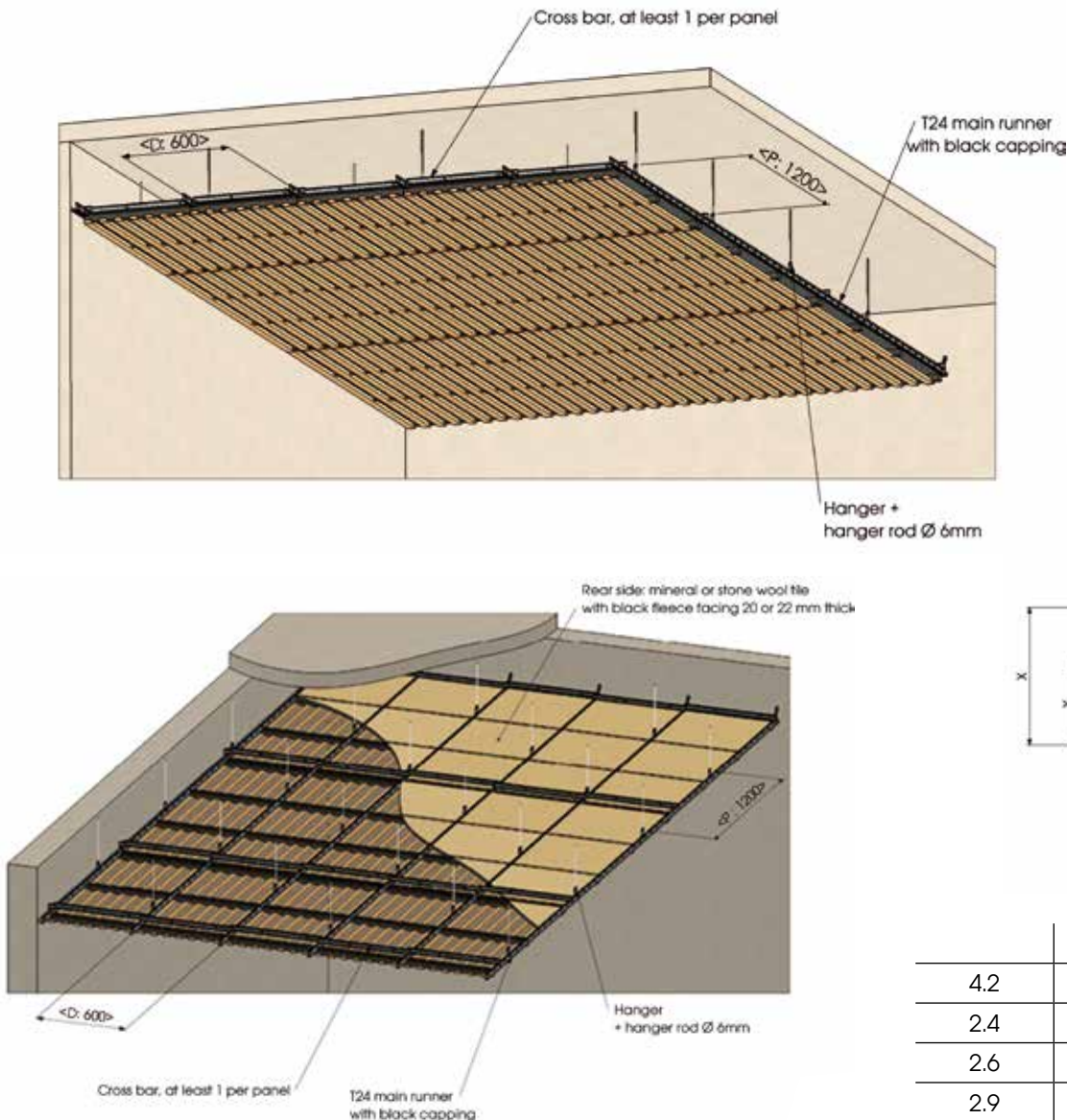
- The ceiling is installed on a grid of T24 main runners with black capping, concealed by a patented system, compliant with current standards and good practice rules in each country (NF P 68203-1 and 2 and DTU 58-1 France 2008 edition)
- The T24 main runners are fixed at a distance of 600 mm, "D1".
- The main runner components are suspended by  $\varnothing 6$  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

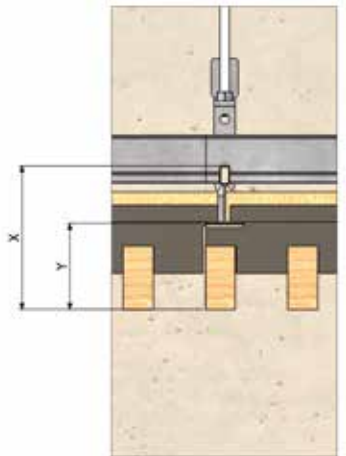
All of the grid and hanging system must be appropriate for use in moist and/or corrosive environments, moisture-resistant or corrosion-resistant type DONN ranges or equivalent. *(Laudescher does not supply all of the grid system)*

Material required for grid system (per m<sup>2</sup> of ceiling)  
Maximum load 22Kg/m<sup>2</sup> uniformly distributed

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



## 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 <sup>2</sup>              | 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/m<sup>2</sup> in conformity with standard EN 13964. Some references are classed 2/C/50N/m<sup>2</sup> (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

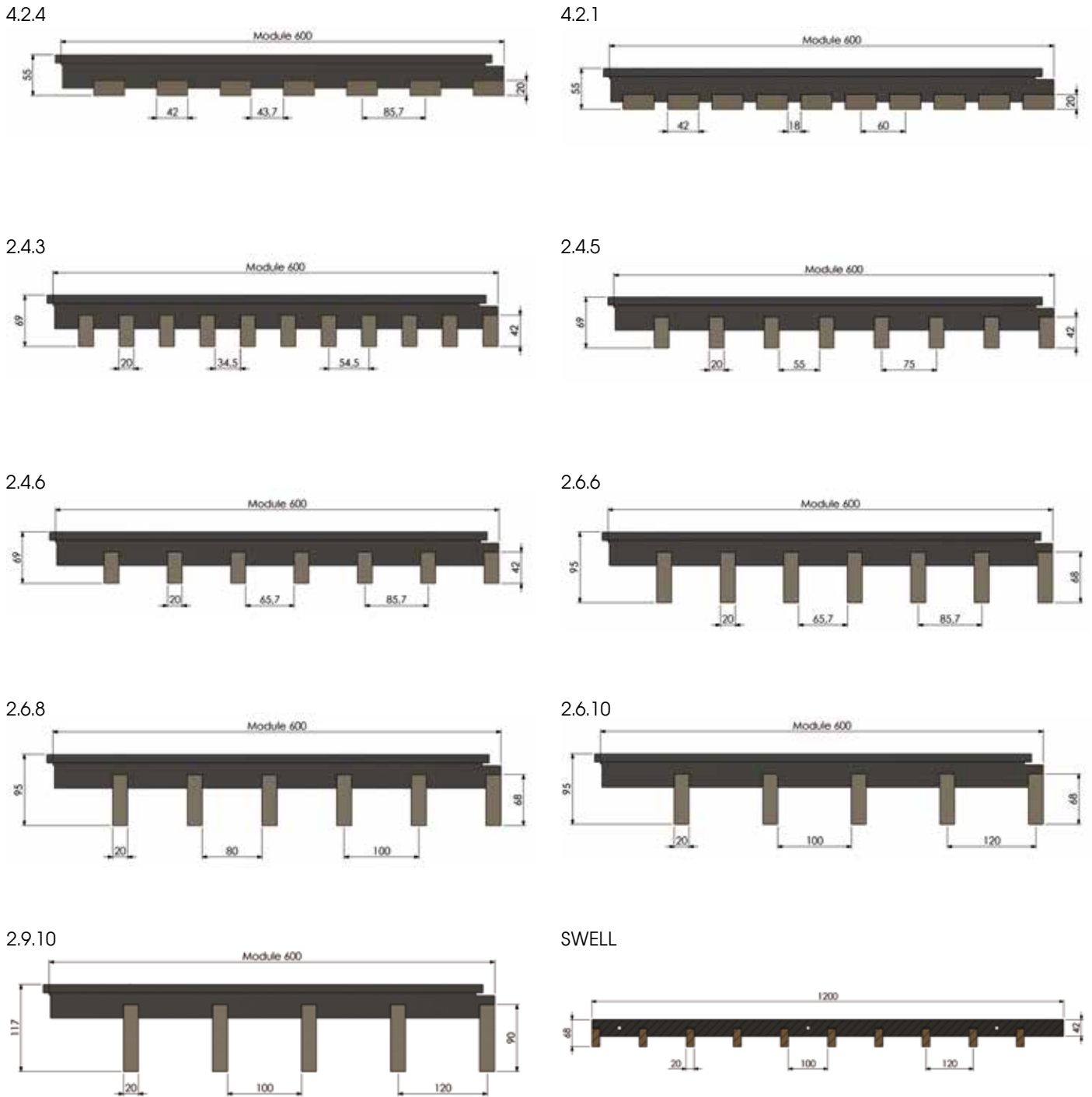
The panel design of suspended ceilings makes them easy to mount and adaptable to each application. The ceiling is installed on a standard grid system of T24 main runners with black capping, according to the manufacturer's recommendations and countries building installation guidelines or similar (NF P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

## Acoustic performance

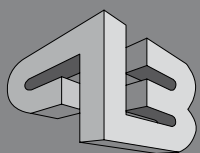
Sound absorption is measured as defined in standard ISO 354. Acoustic data is calculated as defined in standard ISO 11654. Acoustic performance class from A to D depending on the average void area of the products. Performance obtained with insertion of 120 Kg / m<sup>3</sup> rigid mineral or stone wool 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



Non-contractual document - AFCP - +33 (0)4 50 60 63 40



Process Bois  
by Laudescher

Phone : +33 (0)2 33 42 09 52 - Fax : +33 (0)2 33 42 15 69  
Email : info@laudescher.com - www.processbois.com

