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Suspended ceiling installation

The ceiling will be 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 will be fixed at a distance of 600 mm, "D1".

The main runner components will be suspended by Ø6 mm threaded rods hung at maximum distance "P" of 1200 mm in a staggered configuration.

The distance between the main runners will be 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 shadow line along the wall. The system gives the panels a perfectly flowing and seamless appearance.

Cf. installation diagram and detailed views.

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Grid 1880 x 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main runner</td>
<td>1.67 ml / m²</td>
</tr>
<tr>
<td>Cross bar</td>
<td>0.54 ml / m²</td>
</tr>
<tr>
<td>Perimeter trim</td>
<td>According to wall requirements</td>
</tr>
<tr>
<td>Hanger</td>
<td>1.40 p / m²</td>
</tr>
</tbody>
</table>

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)
Installation general view

Installation bottom view

Installation top view

<table>
<thead>
<tr>
<th></th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2</td>
<td>81</td>
<td>43</td>
</tr>
<tr>
<td>2.4</td>
<td>95</td>
<td>57</td>
</tr>
<tr>
<td>2.6</td>
<td>121</td>
<td>83</td>
</tr>
<tr>
<td>2.9</td>
<td>143</td>
<td>105</td>
</tr>
</tbody>
</table>

Dimensions in mm
Minimum plenum necessary for installing and removing the panel

View of panel junction

Main runner distance maintained by cross bars

1879 / 1264 mm

D: 600 mm
Detail of finishing edge

Longitudinal finishing edge

Transverse finishing edge
Removal of Lauder LINEA panels

Step 1: Lift the panel

Step 2: Shift the panel sideways

Step 3: Lower the panel to remove it

Step 4: Note that the cross bar is detached

Step 5: Position it on the adjacent panel

Step 6: Attach the cross bar above the adjacent panel
Inserting a small unit

Maximum size of a unit for insertion in a panel
Inserting a long unit

Maximum size of a unit for insertion in a panel

1. Insertion in a standard panel
2. Remove the mineral or stone wool tiles
3. Cut the panel at the insertion location
4. Insertion window completed
5. Cut the particle black plates to size
6. Cut hole to size
7. Put the particle black plates in place
8. Screw the particle black plates and slats in place
9. Lay the mineral or stone wool tiles and insert the unit
SWELL suspended ceiling installation

The ceiling will be hung on two Ø6 mm threaded rods per panel, 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 system gives the panels a perfectly flowing and seamless appearance.

Cf. installation diagram and detailed views.

Grid system in moist and/or corrosive environments

The 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)
Installation general view

Installation bottom view

Installation top view

D: Hanging distance
Hanging detail

1. Threaded rod Ø6 mm (hanging option)
2. Lock nut Ø6 mm (hanging option)
3. Black wooden counter-slat
4. Combix Ø6 mm (hanging option)
5. Dowel
6. Combix
Detailed view of finishing edge

Finishing edge created by adding extra slats (option) fixed in place with the assembly strips supplied.

Acoustic version

Open version
Inserting a small unit

Front view
Wall cladding installation

Screw-mounted onto a separate grid at distance "D" of 615 mm, in line with the recessed black wooden counter-slats of the panel (black screw heads or screws with black covers / 2 screws per counter-slat), as specified in DTU 36.2. The system gives the panels a perfectly flowing and seamless appearance.

Moist and/or corrosive environments

All of the grid system and fixing points must be appropriate for use in moist and/or corrosive environments. The wood used in the grid must be class 4. (Laudescher does not supply all of the framework)
Installation general view

Installation general horizontal view

Installation general vertical view
Sectional view

Mounting detail with screw + black screw cover

Screwed into the profile framework through the black wooden counter-slat
Detail of plinth (horizontal)

Detail of internal corner (horizontal)
Detail of external corner (horizontal)

Detail of window surround (horizontal)
Detail of plinth (vertical)

Detail of internal corner (vertical)
Detail of external corner (vertical)

Detail of window surround (vertical)
Inserting a small unit

Maximum size of a unit for insertion in a panel

1. Insertion in a standard panel
2. Remove the mineral or stone wool tiles
3. Cut the panel at the insertion location
4. Insertion window completed
5. Cut hole to size
6. Put the particle black plate in place
7. Screw the particle black plate and slats in place
8. Lay the mineral or stone wool tiles and insert the unit
Inserting a long unit

Maximum size of a unit for insertion in a panel

1. Insertion in a standard panel
2. Remove the mineral or stone wool tiles
3. Cut the panel at the insertion location
4. Insertion window completed
5. Put the particle black plates in place
6. Screw the particle black plates and slats in place
7. Insert the unit
Panel modifications, options and accessories

The panels in the Lauder LINEA range can be easily modified for perfect adaptation to the installation constraints of a project.

Lauder LINEA SWELL panels can be easily cut to width for perfect adaptation to the installation constraints of a project.

Adjustable panel:
The panels in the Lauder LINEA range are designed for perfect flexibility of use and/or modification on site.

The standard offer consists of two modular dimensions:
• 1880 x 600 mm
• 1265 x 600 mm

Usage warning:
Slat not held in place by black wooden counter-slat: maximum permitted overhang 150 mm
Cutting a panel to length

1. Determine the cutting location
2. Unscrew the black wooden counter-slat to be moved
3. Move the counter-slat
4. Refix the counter-slat
5. Cut slats to length
6. Panel ready for installation
Ceiling: cutting a panel to width

1. Determine the side and location of the cut.

2. Cut the panel following the line of the framework.

3. Cut 1 finishing: drill 2 mm Ø pilot holes then screw down the edging strips (optional extra). 2 screws per strip.

4. Cut 2: unscrew the slat retaining screws.

5. Cut the black wooden counter-slat in both directions.

6. Reinsert the slat screws.

7. Drill 2 mm Ø pilot holes then screw down the edging strips (optional extra). 2 screws per strip.
Curved ceiling: cutting a panel to width

1. Determine the cutting location
2. Cut the panel following the line of the framework
3. Cutting completed
4. Panels ready for installation
Wall: cutting a panel to width

1. Determine the cutting location
2. Cut the panel following the line of the framework
3. Cutting completed
4. Panels ready for installation
Cutting to length at an angle
Cutting to width at an angle
Irregular cutting to length

1. Determine the location of the irregular cut

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

3. Fix and mark the cut
   Screws fixed into the slats

4. Cut following the marking with a jigsaw

5. Panel ready for installation
Irregular cutting to width

1. Determine the location of the irregular cut
2. Insert the panel for cutting (option)
   Coloured particle or plywood board 12 mm thick
3. Fix and mark the cut
   Screws fixed into the slats
4. Cut following the marking with a jigsaw
5. Panel ready for installation
## Ceiling options and accessories

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional black wooden counter-slat</td>
<td>The additional counter-slat gives greater flexibility for panel cutting, adapting to opening frames and reconstituting or reusing panel offcuts.</td>
</tr>
<tr>
<td>Additional slat</td>
<td>The additional slat can be used to complete a project with profiles identical to the panels for a good finish.</td>
</tr>
<tr>
<td>Profile for angled cutting</td>
<td>The profile provides greater panel cutting flexibility for perfect adaptation to the constraints of the site.</td>
</tr>
<tr>
<td>Edging strip</td>
<td>The edging strip is used to extend the edging system on ceiling panels. Material: 316 L stainless steel.</td>
</tr>
<tr>
<td>Particle black plate</td>
<td>The particle black plate can be used to create various insertions and irregularly cut shapes or can be used to close off the void and diffuse sound (reverberation).</td>
</tr>
<tr>
<td>Internal/external corner profile</td>
<td>This profile is used to finish wall corners.</td>
</tr>
<tr>
<td>Extension finishing profile</td>
<td>This accessory is used to finish returns (openings, etc.).</td>
</tr>
<tr>
<td>Particle black plate machining option</td>
<td>Contact us</td>
</tr>
<tr>
<td>Panel machining option with insertion of particle black plate</td>
<td>Contact us</td>
</tr>
<tr>
<td>Finishing option</td>
<td>Finishing tin for touching up cut slats and black wooden counter-slats. Varnish, Wax Color, Wax Color MC, 1 litre tin.</td>
</tr>
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## Curved ceiling options and accessories

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<th>Description</th>
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</thead>
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<tr>
<td>Additional slat</td>
<td>The additional slat can be used to complete a project with profiles identical to the panels for a good finish (1 slat, 3 assembly strips + 12 screws 3.5 x 20 mm)</td>
</tr>
<tr>
<td>Hanging option*</td>
<td>Hanging kit containing 2 threaded rods 1 m in length, 2 lock nuts and 2 Combifix</td>
</tr>
<tr>
<td>Joining kit*</td>
<td>Kit of 10 joining assemblies containing 20 Combifix and 10 threaded rods Ø6 x 30 mm</td>
</tr>
<tr>
<td>Assembly strips*</td>
<td>Kit of 10 assembly strips + 40 screws 3.5 x 20 mm</td>
</tr>
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<td>Particle black plate</td>
<td>The particle black plate can be used to create various insertions in a panel</td>
</tr>
<tr>
<td>Particle black plate machining option</td>
<td>Contact us</td>
</tr>
<tr>
<td>Panel machining option with insertion of particle black plate</td>
<td>Contact us</td>
</tr>
<tr>
<td>Finishing option</td>
<td>Finishing tin for touching up cut slats and black wooden counter-slats</td>
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*Moist or corrosive environment, 316 L stainless steel, contact us
### Wall options and accessories

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<tr>
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<td>Additional black wooden counter-slat</td>
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<td>Finishing option</td>
<td>Finishing tin for touching up cut slats and black wooden counter-slats</td>
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Varnish, Wax Color, Wax Color MC, 1 litre tin