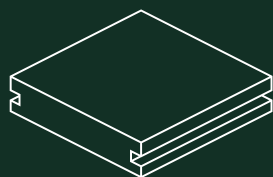


Lydeck Decking

Synthetic outdoor
technological flooring

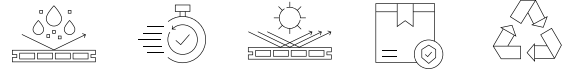


TECHNICAL SPECIFICATIONS

 Pavimentus



Product Description



Synthetic outdoor technological flooring

Lydeck decking is PAVIMENTUS' most advanced solution for outdoor flooring, designed to combine a high level of realism and comfort with unprecedented durability. This decking uses ASA technology for its surface finish, achieving a matte and realistic appearance that resembles that of natural wood, but without using any components derived from it. The result is a sophisticated-looking product that blends seamlessly into any outdoor environment.

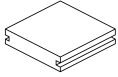
Manufactured with a carbon nanotechnology core, Lydeck decking stands out for its superior resistance to inclement weather, scratches, wear and impacts, maintaining its integrity and appearance even in adverse weather conditions. Thanks to its UV protection, its colour and finish remain intact for years, avoiding discolouration and deterioration due to continuous sun exposure.

Lydeck's robust structure and total waterproofing make it an ideal choice for highly demanding outdoor projects. Its design offers a significantly lower level of thermal absorption than encapsulated decking, which means less heat build-up under the sun, increasing comfort in hot climates. At the same time, its lightness, being 30% lighter than WPC decking, makes it easy to handle and install without compromising robustness and performance.

Lydeck also incorporates advanced anti-slip properties and resistance to mould and termites, ensuring a safe and low-maintenance environment. Its ultra-matte finish and scratch resistance ensure that the decking maintains a flawless appearance, offering an aesthetically appealing and long-lasting environment for any outdoor space.



Technical details



140 mm x 25 mm x 2200 mm
3,5 pieces of 2,2 ml

Properties	Results	Test method
Test of strength	17.8 Mpa	ASTM D638-14
Module test	5075 Mpa	ASTM D638-14
Compressive strength	29.8 Mpa	ASTM D695-15
Compression modulus	27.2 Mpa	ASTM D695-15
Shear strength	26.2 Mpa	ASTM D732-17
Impact resistance	Power failure average: >111 J	ASTM D4495-16
Abrasion resistance	ÍWear index: 237.9	ASTM D4060-19
Moisture absorption and increased thickness	Water absorption: 0.28%	ASTM D1037-12
Coefficient of linear thermal expansion	42.4x10 ⁻⁶ mm/mm/°C	ASTM D696-16
Flexural properties	Stress at 3% strain: 16.6 Mpa Elastic modulus at 3% strain: 785 Mpa	ASTM D6109-16
Freeze-thaw resistance	Stress at 3% strain: 16.69 Mpa Rate of change: 1.8% Elastic modulus at 3% strain: 778 Mpa Rate of change: -0.01%	ASTM D6109-16
Longitudinal static coefficient	Dry: 0.85 Wet: 0.79	ASTM D2394-17
Longitudinal slip coefficient	Dry: 0.68 Wet: 0.68	ASTM D2394-17
Horizontal static coefficient	Dry: 0.83 Wet: 0.92	ASTM D2394-17
Horizontal slip coefficient	Dry: 0.73 Wet: 0.72	ASTM D2394-17
Anti-slip resistance	Clase 3 Rd > 45	
Oil-wet inclined platform test	Angle: 37.4° Classification: R13	AS 4586-2013 Appendix D



Range of finishes



NOGAL LISO
140 mm x 25 mm x 2200 mm
Reference: Nogal Liso



NOGAL MADERA
140 mm x 25 mm x 2200 mm
Reference: Nogal Madera



IPE LISO
140 mm x 25 mm x 2200 mm
Reference: Ipe Liso



IPE MADERA
140 mm x 25 mm x 2200 mm
Reference: Ipe Madera



TEKA LISO
140 mm x 25 mm x 2200 mm
Reference: Teka Liso



TEKA MADERA
140 mm x 25 mm x 2200 mm
Reference: Teka Madera



CREMA LISO
140 mm x 25 mm x 2200 mm
Reference: Crema Liso



CREMA MADERA
140 mm x 25 mm x 2200 mm
Reference: Crema Madera



CENIZA LISO
140 mm x 25 mm x 2200 mm
Reference: Ceniza Liso



CENIZA MADERA
140 mm x 25 mm x 2200 mm
Reference: Ceniza Madera



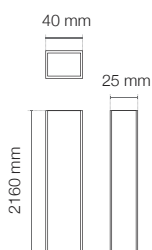
GRIS LISO
140 mm x 25 mm x 2200 mm
Reference: Gris Liso



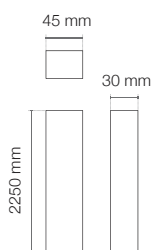
GRIS MADERA
140 mm x 25 mm x 2200 mm
Reference: Gris Madera



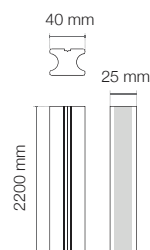
Accessories



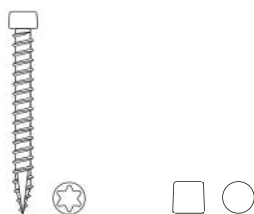
RAW ALUMINUM RASTREL
40 mm x 25 mm x 2160 mm
50 mm x 25 mm x 2160 mm
3,5 ml



R4 PINE RASTREL
45 mm x 30 mm x 2250 mm
3,5 ml

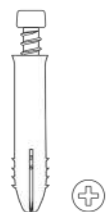


WPC RASTREL
40 mm x 25 mm x 2200 mm
3,5 ml

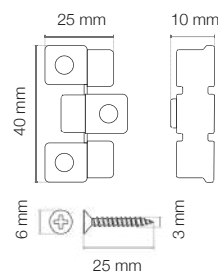


SCREW
3,9 x 45

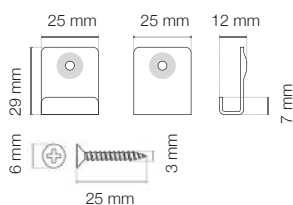
**SCREW
PLUG**



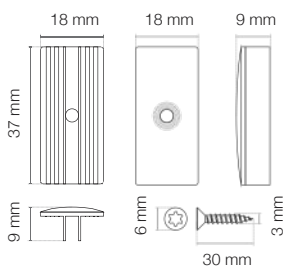
**SCREW AND
WEDGE PLUG**
M8 x 80
9 ud



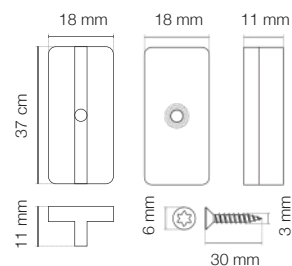
**STAINLESS STEEL
CLIP CONCEALED
FIXING 24 sets**



**STAINLESS
STEEL CLIP
START**
3 ud/ml



**ALUMINUM LIP
VISIBLE FIXING**
24 sets



**PLASTIC CLIP
FIXING VIEW**
24 sets



Assembly instructions

Before beginning the installation, it is essential to read the entire installation manual carefully to comply with the basic assembly rules. Failure to comply will result in the cancellation of the Limited Warranty.

Always store the boards resting on a smooth, flat surface and out of direct sunlight. It is advisable to place the material in the installation site 24 hours before starting, so that the material will adapt to the environmental conditions of the site.

The surface must be flat, stable and perfectly firm. To ensure proper drainage of water, a slight slope is necessary. In any case, the accumulation of stagnant water under the board must be avoided. The surface can be prepared using a layer of mortar or another firm floor such as slabs, tiles, brick, etc.

The orientation of the battens (always placed between 30 and 36.6 cm between them) must respect the drainage slopes of the supporting surface. Otherwise, the battens should be raised and leveled using leveling wedges, thus allowing natural drainage. Where the project requires it, it is also permitted to work with a batten made of another material such as treated wood or aluminum, galvanized iron, etc. (It is always necessary to pre-drill the battens in order to be able to screw the clips correctly.)

Remember to keep a minimum distance of 10 mm between the ends of the battens and any fixed element such as a wall, fence, etc. When joining two boards at the end, 2 battens must always be placed to serve as support for each of the boards. The boards can be delivered in different ways.

Start of flooring installation

Screw in the starter clip, but remember to pre-drill the batten. Make sure the clip is centered on the batten. Leave a minimum gap of 10 mm if you start the installation on a wall, partition or any vertical fixed element. Leave this same space next to doors and entrances to ensure proper water drainage.



Installation with plastic/aluminum clip

Once the first board has been laid, screw in the connecting clip. Screw the screws only halfway, DO NOT tighten them completely. The distance between the boards ($\approx 6-8$ mm depending on the clip) is marked by the clip itself and to ensure an even finish it is important that each clip fits well into the side slot of the board before screwing. Each board has to be fixed to each batten.

Place the second board in the correct position and screw in the next row of connecting clips on the other side of the second board. Do not tighten the screws completely. Finally, screw in the connecting clips of the first row completely. Repeat these steps for the following boards. This fixing system allows for normal expansion of the boards.

Installation with stainless steel clip

Once the first board has been laid, screw in the connecting clip. The distance between the boards ($\approx 3-5$ mm depending on the clip) is marked by the clip itself and to ensure a uniform finish it is important that each clip fits well into the side slot of the board. Never hit the clip against the board to avoid damage, always insert the clip manually and then screw it onto the batten. Each board must be fixed to each batten. This fixing system allows for normal expansion of the boards.

How to replace a board with a plastic/aluminum clamp

Remove the screws from the clamps on both sides of the board to be replaced and remove the board. Position the new board. Insert a clamp on both sides of the board for each batten. It is sometimes necessary to slightly loosen the adjacent boards so that the clamps can be placed correctly. Finally, screw all the clamps to their corresponding batten.

Distances between heads

Particular attention must be paid to butt joints between boards, as the spacing between them varies depending on the temperature of the board at the time of installation. Example: for 2m boards installed with an ambient temperature of 10°C and a maximum possible temperature of 40°C, a spacing of 6 mm must be foreseen between butts.

The last table

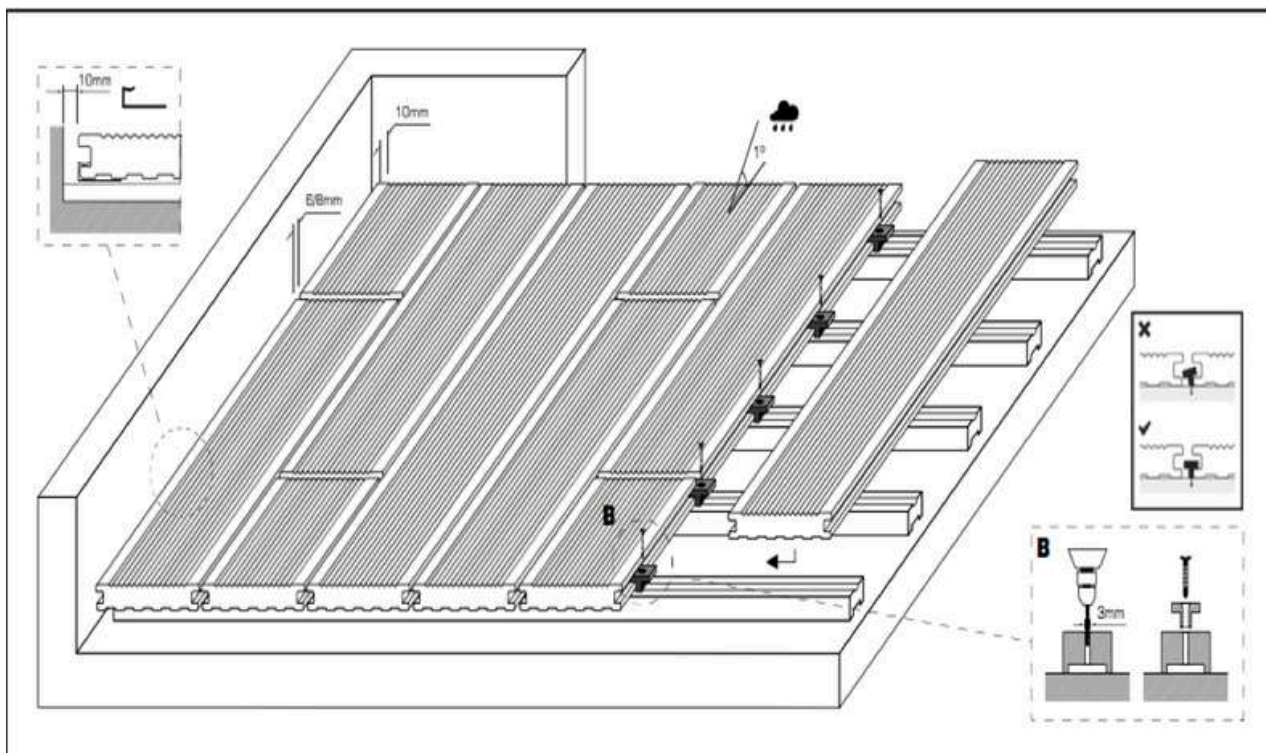
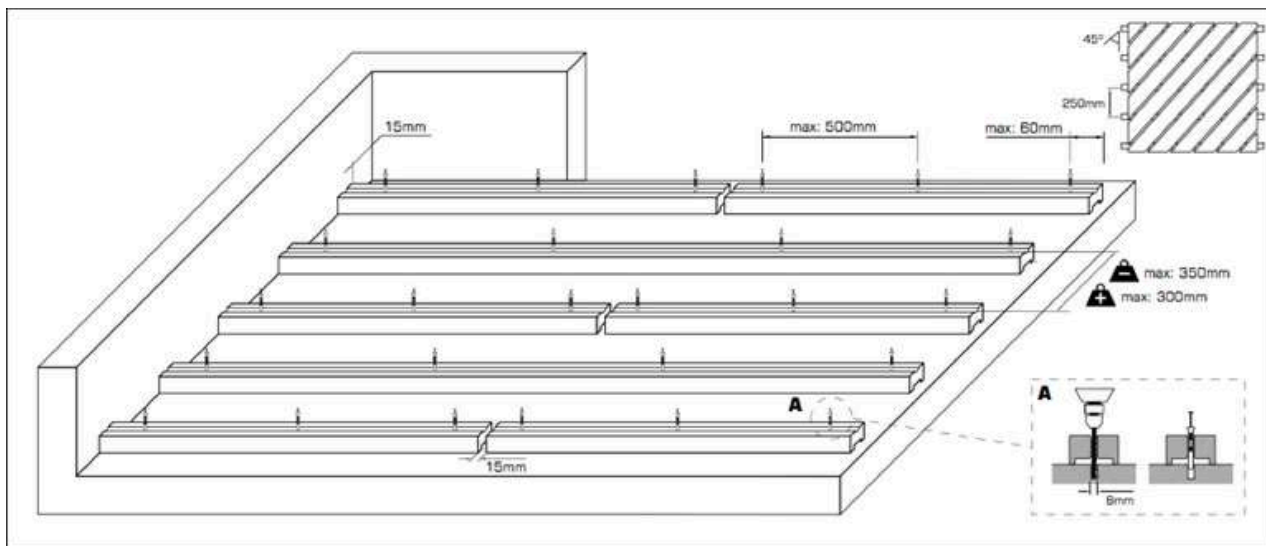
Cut the last board to the required length and attach it to the battens using an elastic adhesive putty. It can also be screwed directly onto the batten. Don't forget to pre-drill the board and the batten.



Our LYDECK series, using the PAVIMENTUS FIX system (Screw and Cover Plug), allows the board to be screwed directly to the batten at each end (2 screws and 2 plugs on each side), achieving a stronger fixation and reducing expansion to almost zero.

Assembly sketch

Follow the same steps to install the entire deck (see figure below).



Distance between boards with plastic clip: 6 mm

Distance between boards with stainless steel clip: 3 mm



TECHNICAL SPECIFICATIONS



Web

Mail

Telèfon

www.pavimentus.com

comercial@pavimentus.com

(+34) 931 351 005
