

Tube profiles

Exterior composite wood
profiles

 Pavimentus



Product description



Exterior composite wood profiles

Unlike natural wood, synthetic or technological wood offers a much longer service life, making it an excellent alternative to other materials.

The synthetic wood Tube profiles have an exterior coating on all four sides, which guarantees total protection against the most common stains. This plastic coating also makes them resistant to scratches, fading, water, and moisture, preventing them from affecting their structure over time.

Its design stands out for its elegant aesthetic and a finish that faithfully reproduces the appearance of natural wood. They are available in Ipe and Teak colors, in two different sizes, adapting to various project needs.

Thanks to their versatility, Tube profiles can be used on terraces, wall and ceiling cladding, fences, garden furniture, and landscaping structures, always providing stable, lightweight, and durable constructions.

In addition, they require minimal maintenance: they are easy to clean and, unlike natural wood, do not require treatments with paints or varnishes. This represents significant savings in conservation. The Tube profiles do not rot, splinter, warp, or crack. They are also not vulnerable to pests such as fungi, insects, or termites, thanks to their composition of high-quality PVC and plastics.



Technical details



Available in:

100mm x 53 mm x 2800mm

60mm x 42 mm x 2800mm

Properties	Results	Test method
Density	1.35g/cm ³	ASTM D792-13
Abrasion resistance	65mg (1000cycles)	ASTM D4060-10
Brinell hardness	83 Mpa	EN15534
Boiling test	Water absorption by weight: 0.95%	EN15534
Adhesion strength	Average adhesion strength>1.78 MPa	EN319
Linear thermal expansion	41.6 × 10 ⁻⁶ K ⁻¹	EN15534
Falling weight impact resistance	Maximum residual indentation 0.13 mm	EN15534
Formaldehyde content	Not detected	ASTM D6007-14
Flexural capacity	Maximum load: Average: 3771N Min.:3622N	EN15534
Heavy metal content	Sb:ND, As:ND, Se:ND, Sn:ND	EPA3051
Heat accumulation	Δ T=-2.9°C	EN15534
Pb, Cd, Hg, Cr6+	Pb:ND, Cd:ND, Hg:ND, Cr6+:ND	RoHs-IEC62321
Moisture resistance	Original MOR: 30.7Mpa After exposure, MOR:28.1Mpa, Decrease: 9%.	EN15534
Indentation resistance	Aplication 2000N Brinell load hardness: 83Mpa, Modulus of elasticity Recovery: 73%	EN15534
Weather resistance	After 2000h Exposure Δ E*=1.45, Greyscale=4	EN1553 4 / ISO4892 -2
Analysis of organisms	Classification 0, No growth	ISO 16869:2008
Moisture content	0.85%	EN15534 / EN322
Swelling and water absorption	1 swelling: 0.94% thickness, 0.2% width, 0.15% in length. 2 Water absorption: 3.18%	EN15534
Water absorption	Water absorption (24h): 0.2%	ASTM D1037- 12B(24h)



Range of finishes



IPE SMOOTH



TEKA SMOOTH



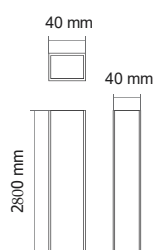
100mm x 53 mm



60mm x 42 mm



Accessories



GALVANIZED IRON PIPE

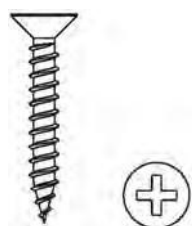
40 mm x 40 mm x 1,5mm de
2800mm in length

30 mm x 10 mm x 1,5mm de
2800mm in length



PROFILE END CAP

100mm x 53 mm
60mm x 42 mm



FLAT HEAD SCREW

M3,9x19



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 supported on a smooth, flat surface and away from direct sun exposure. It is recommended to place the material at the installation site 24 hours beforehand, so the material can adapt to the environmental conditions of the place.

The surface must be flat, stable, and perfectly firm. To guarantee proper water drainage, a slight slope is necessary. In any case, standing water accumulation under the decking must be avoided. The surface can be prepared using a layer of mortar or another firm surface, such as tiles, paving stones, bricks, etc.

Main recommendations

Always use a metal support structure (the profiles alone do not bear load).

Seal ends with plastic plugs or caps.

Cut with a circular saw with a carbide blade.

Do not nail or fasten with excessively exposed screws; it is better to use hidden clips or fasteners.

Installation for decorative beams / pergolas

1. Structural support

- The hollow profiles are not structural, so they require a metal frame or steel/aluminum supports
- The profile is 'sheathed' over the structure, serving an aesthetic purpose.

2. Fixing

- Hidden screws, clamps, or internal metal brackets are used
- In some cases, they are filled with a metal strip to provide more rigidity

3. Finish/Finishing

- Place plugs of the same material on the ends to prevent the ingress of water, dust, or insects



Fence and railing installation

1. Fence/Railing posts

- Galvanized steel or aluminum posts are installed every 1.5–2 m, anchored to the ground or wall.
- The Tube profiles are screwed or inserted as crossbars.

2. Assembly of profiles

- For horizontal components: they are fixed with clips or self-tapping screws (with pre-drilling).
- For vertical components: small expansion joints are left at the top and bottom.

• Finish/Finishing

- Fit/Install trims on corners, joints, and exposed ends.

Installation as cladding (walls, ceilings, screens/lattices)

1. Substructure

Install metallic or WPC battens every 40–60 cm. Maintain a 2–3 cm air gap if it is a ventilated facade.

2. Installation of profiles

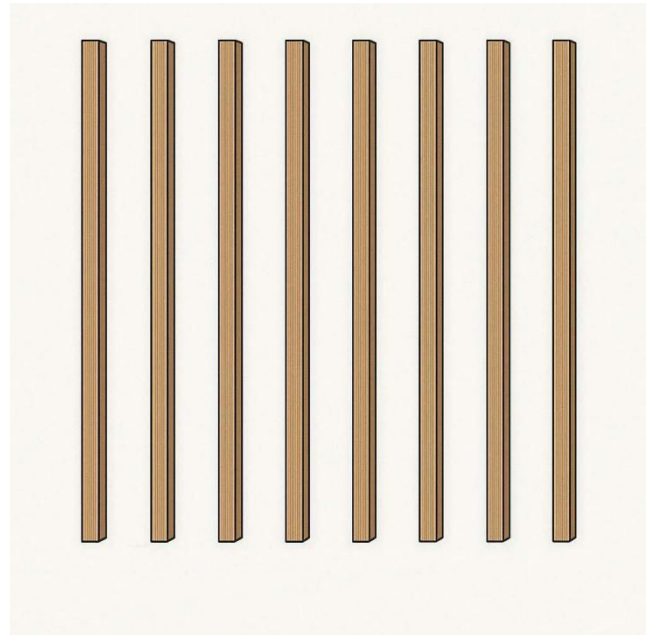
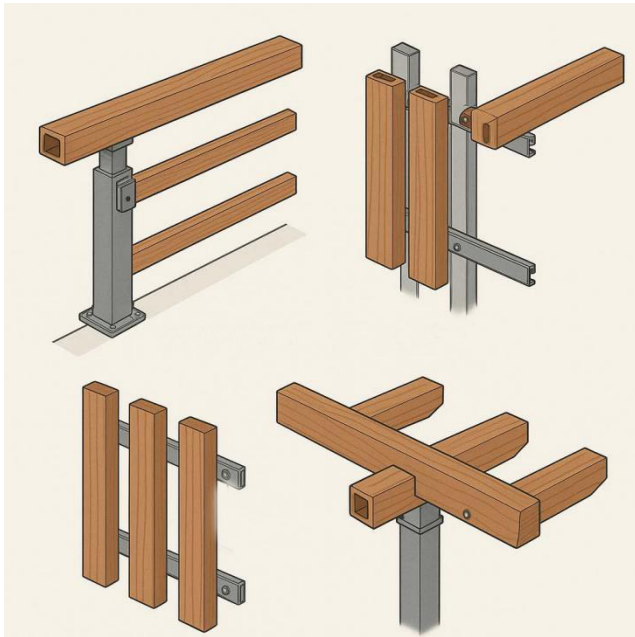
The profiles are fixed with hidden clips or screws on the frame. 3–5 mm expansion joints are left.

3. Trims or Finishes

End and corner caps to provide a finished look.



Visual outline with examples





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