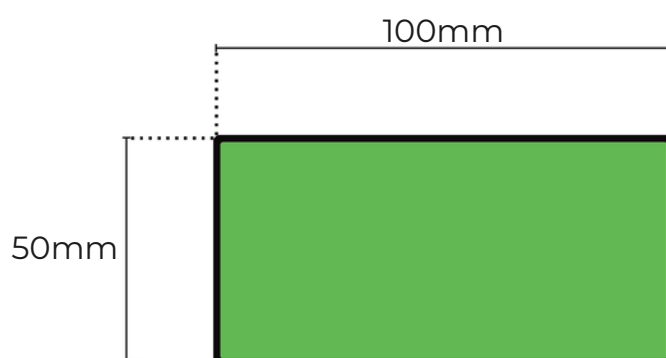
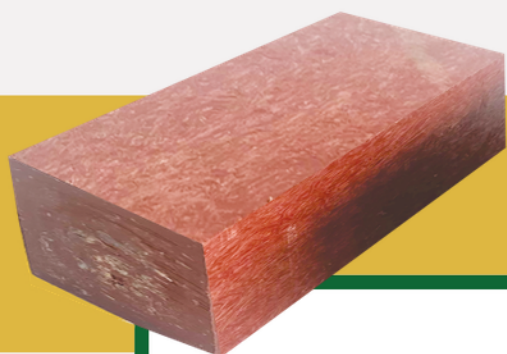


Post 100x50



Name	Post 100x50
Catalogue name	Ecoplank Post 100x50
Material	98% post-industrial recycled polyolefins (PE, PP); the remaining 2% is colourant and trace amounts of other plastics
Width	100 mm
Thickness	50 mm
Length	available between 100 and 3870 mm
Colour	Black, grey, brown, other colours on request – shade differences may occur, as this is a feature of all materials made from recycled content
Dimensional tolerance	up to 3% (including cross-section)
Machining	Standard tools from the woodworking industry
Density	0.98 kg/dm ³
Application	Outdoor use only – decking, terraces, stairs, footbridges, paths and promenades, fencing and small architecture elements
Resistance properties	Water resistant, oil resistant, resistant to light solvents, 100% recyclable



Mechanical properties and testing

Post 100x50

Flexural strength	20.5 MPa
Modulus of elasticity in bending	719 MPa
Compressive strength at 10% deformation	20.9 MPa
Modulus of elasticity in compression	506 MPa
Deflection under 500 N load (support spacing 450 mm)	1.12 mm
Hard body impact resistance (7 J energy)	No damage at +23 °C and -20 °C
Fastener pull-through resistance (90 × 90 mm joist)	4854 N
Coefficient of linear thermal expansion	0.1 mm/m/°C
Reaction to fire class	E (according to EN 13501-1:2019)
Hygiene	Hygienic Certificate NIPH PZH – NRI no. B.BK.60111.0467.2026, valid until 23.07.2031
Heavy metals and PAH	Below the limit of quantification (PN-EN 71-3+A2:2025-05 cat. III; AfPS GS 2019:01 PAH)
Recycled content	98% post-industrial recycle, EN 15343 certificate no. SRC/2026/02/17/15343/02

Testing was carried out on a 150 × 32 mm board made of the same material. The values are material properties and apply to all Ecoplank profiles.

Source of data

- ITB test report no. LZM01-01807/25/Z00NZM of 30.09.2025 – mechanical properties, slip resistance, impact resistance, ageing
- ITB test report no. LZM02-01807/25/Z00NZM of 30.09.2025 – deflection and strength under 500 N, fastener pull-through
- Fire-Lab classification report no. RKM-1/07/2025 of 28.07.2025 – reaction to fire
- Hygienic Certificate NIPH PZH – NRI no. B.BK.60111.0467.2026 of 23.07.2026
- J.S. Hamilton Poland test report no. 649254/26/MAL of 07.08.2026 – heavy metals, PAH, PCB, chromium VI, formaldehyde
- Silk Road Certification EN 15343 certificate no. SRC/2026/02/17/15343/02 of 17.02.2026



Permissible material characteristics

Post 100x50

Surface structure

The phenomena listed below are a natural property of recycled polymer and do not constitute a product defect. They do not affect strength or load-bearing capacity. The scope matches the Ecoplank Warranty Card.

An uneven surface structure is a natural characteristic of products made from recycled materials.

Colour variations

Products may show slight variations in colour shade – the material is stored under different lighting conditions after production. With uniform exposure to sunlight the colour gradually becomes more even over time. Differences between production batches are also possible.

Shrinkage cavities

Small cavities may occur within the material structure as a result of the production process. They do not affect the strength or load-bearing capacity of the product.

Dimensional deviations

Up to 3%, including in cross-section. This is natural for plastic products and does not affect the strength of the material.

Lengthwise deviation

In profiles over 150 cm a slight lateral deviation may occur due to the natural thermal expansion of the material. After proper installation this deviation corrects itself.

Thermal expansion

Dimensional changes with temperature, slight deformations and the expansion and contraction of the boards are properties of the material. Installation must allow for expansion gaps.

Fading and oxidation

Colour change caused by exposure of the product to UV radiation and water is a natural ageing process of the polymer.

Traces of use

Mechanical scratches, stains and other changes resulting from normal use of the system.

Installation and care

The product must be installed in accordance with the Ecoplank board installation instructions and the principles of good construction practice, maintaining the expansion gaps required for the thermal expansion of the material. Clean with water and mild detergents. Installation contrary to the instructions, inadequate maintenance and the use of unsuitable care or cleaning agents exclude the manufacturer's liability for any resulting damage.

Source: Ecoplank Warranty Card. This data sheet describes the properties of the product and does not limit the purchaser's statutory rights.