

Garden WPC Co-Estrusion

Product Info Sheet

Outdoor decking created by cohesion of natural wood fibres and a special plastic resin.



FINISHES



Corte



Portico



Patio



Loggia



Galleria

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TITLE AND GENERAL CHARACTERISTICS

The elements are derived from high-pressure hot extrusion of a Wood Plastic Composite (WPC) comprising a combination of natural wood and bamboo fibres, plastics and anti-oxidant additives.

Wood Plastic Composite (WPC) boards are one of the trade's most recent novelties created by hot extrusion of a mixture of natural fibres and anti-oxidant polymer additives.

The excellent quality of the wood fibre mix used by Labor Legno for its Garden WPC Co-Extrusion features good resistance to water and weather conditions, providing particularly outdoor decking with superb performance and guaranteeing greater quality and durability.

USES

Garden WPC Co-Extrusion boards by Labor Legno can be used for outdoor decking and other structures where good resistance to seasonal weather conditions and non-deforming characteristics are required. They are also used for swimming pool surrounds, facades, walls, cladding, fencing, edging, etc.

PRODUCT DESCRIPTION

WPC double-faced honeycomb boards have a wood-effect brushed surface on one side and a non-slip surface on the other, and can be installed on either side.

PRODUCT STRONG POINTS

Garden WPC Co-Extrusion boards by Labor Legno require very little maintenance, are resistant to weather conditions, rot-proof and water repellent. The product withstands temperature swings from - 40 to + 60 degrees centigrade, is not prone to splintering and resists water, mould, termites and other insects. The colour does not easily oxidise, it stabilises a few days after the boards are laid and does not turn grey. The honeycomb section of the boards makes them easy to handle.

FINISHES

Double-faced, non-slip with a brushed wood effect on one side, in the finishes Corte, Portico, Patio, Loggia and Galleria.

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PROPERTIES	METHOD	UNIT	VALUE
Resistance to indentation	EN 15534-1:2014+A1:2017	-	Applying a load of 2000 N, Brinell hardness: 49Mpa. Degree of elastic recovery: 81%
Abrasion	ASTM D4060-14	mg	64,9 (1000 cycles)
Wear index		30	30
Resistance to artificial weathering	ISO 4892-2:2013 Cycle 1	-	No color change at the end of the whole cycle 1.
Density	ISO 1183-1:2012 (Metod A)	g/cm ³	1.198
Flexion strength determination	EN ISO 178	-	-
	Modulo elastico	Mpa	2770
	Resistenza alla flessione	Mpa	28.6
Traction resistance	ISO 527	Mpa	19.6
Water absorption	ISO 62:2008	-	0.61%
Slipperiness (Pendulum test)	EN 15534-1:2014+A1:2017	-	Longitudinal Direction: Mean: 89 Min: 88 Horizontal Direction: Mean: 97 Min: 97
Falling mass impact resistance	EN 15534-1:2014+A1:2017	mm	Max crack length: no crack Max residual indentation: 0,03
Flexural properties	EN 15534-1:2014+A1:2017	-	Bending Strength: 21,8 Mpa Modulus of elasticity: 2,6 Gpa Maximum load: 4500 N Deflection at 500 N: 1,16 mm
	ISO 178	Mpa	Bending Strength: 28,3 Modulus of elasticity: 2863
Creep behaviour	EN 15534-1:2014+A1:2017	mm	Span: 300 Mean ΔS: 3,78 Max ΔS: 4,22 Mean ΔSr: 2,69
Swelling and water absorption	EN 15534-1:2014+A1:2017	-	1) Swelling: 0,23 in length, 0,13 in width, 1,52 in thickness 2) Water absorption Mean: 0,79% Max: 0,83%
Linear thermal expansion coefficient	EN 15534-1:2014+A1:2017	-	48,3 x 10 ⁻⁶ K ⁻¹
Slip resistance (Oil-wet ramp test)	DIN 51130	-	Angle: 10,8 Rating: R12
Reaction to fire	EN 13501-1	-	Bfls-s1
Static electrical propensity	EN 1815:2016 (Metodo A)	kV	0,2

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ACCESSORIES

- 30x40mm WPC framing strips
- 20x40 raw aluminium framing strips
- steel spacing anchor plates in packs of 100 pcs.
- steel screws in packs of 1000 pcs.

INDICATIVE DIMENSIONS AND TECHNICAL DATA

- Length: 2200 mm
- Section: 140x23 mm
- Weight m²: 19 kg

WARNINGS

Store the boards flat so that they cannot flex.
Do not apply products that could damage
and/or stain the WPC.

LAY WITH GREAT CARE, FOLLOWING THE INSTRUCTIONS PROVIDED.

Purchase the necessary quantity and any extra reserves
at the same time to avoid possible colour variations due
to the production process.

MAINTENANCE

Carry out routine maintenance using a damp cloth
and the special mild detergents provided by Labor
Legno. Labor Legno accepts no liability if detergents
other than those it provides are used.
If using a water jet cleaner to remove leaves and/or
dust, hold the jet at a good distance. Do not use
aggressive cleaning products and immediately remove
stains from oil, grease, fruit, wine, rusty objects, glue,
ink, tannins, mould, etc.

DISPOSAL

Do not abandon offcuts and/or excess material in the
environment; take them to your local waste collection
centre, as per current regulations.

N.B.

Labor Legno may amend this product info sheet at its
exclusive discretion. The information herein is given for
the purpose of informing purchasers/users, whose task
is to test and try the WPC product in the environment
where it will be fitted, before laying it.

Garden WPC Co-Estrusion Warranty

WARRANTY

GARDEN WPC Co-Extrusion is covered by a 12-year warranty, when the product is used appropriately, and is limited to splintering, cracking, rotting or decomposition and damage caused by termites. Although colourants and stabilisers are added during production, the colour of GARDEN WPC Co-Extrusion may vary.

As this is a natural process for the fibres and plastics used in production, the warranty does not cover slight alterations in colour.

The structure of the material makes shock resistance the most delicate factor. Please pay careful attention to avoiding knocks, heavy blows and dropping during transport, storage, laying and use.

DO NOT DROP AND TAKE GREAT CARE TO AVOID KNOCKS AND HEAVY BLOWS: FOLLOW SCRUPULOUSLY THE SUPPLIER'S INSTRUCTIONS FOR LAYING.