

**DECK-ER PERGOLA PROFILES****Technical Data Sheet**

***DECK-ER WPC PROFILES®** is an environmentally innovative composite material that combines the best qualities of polymer and engineered fibers which fall as surplus by-products in self-adhesive label manufacture and processing. The material contains no harmful chemicals.*

**MATERIAL** WPC profiles made by extrusion technology. About 25% recycled content. Ingredients: Polyvinyl Chloride, wood powder & natural fibers and functional quality additives.

**STRUCTURE** Profiles have functional with different groove pattern and **all surface can be brushing with optional by request.**

**DIMENSIONS**

Profile lengths can be varied according to the order or request.

No	Product	Dimensions (Width*Thickness*Length) mm	Weight Per Meter
1	Rafter	150*60*6000	3,1 kg/m
2	Post	150*150* 2500 or 3000	10,3 kg/m
3	Roof Cladding	244*32*6000	3,6 kg/m
4	Beam	220*60*6000	6,2 kg/m
5	Wall Profile	250*58*6000	6,6 kg/m
6	Support Profile	38*45*2100	3,2 kg/m

**Size Tolerance:**

Thickness;  $\pm 0,5$  mm    Length;  $\pm 5$  mm    Width;  $\pm 0,5$  mm    Deviation;  $\pm 0,5$  mm

**COLOR**

Profile can be produced with different color (Coffee, Gray, Cream, Anthracite and special request)

**PHYSICAL AND MECHANICAL PROPERTIES OF PERFOLA PROFILES\***

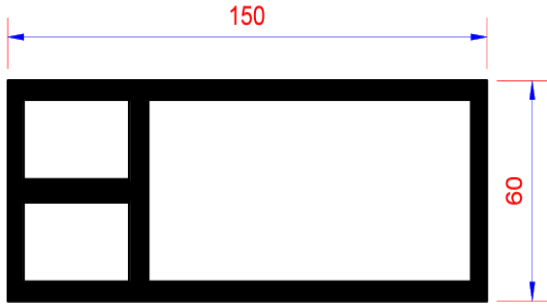
Property	Test Method	Unit	Value
Density	EN ISO 1183-1	g/cm <sup>3</sup>	1.40
Flexural Properties	EN 15534-1:2014 –4.5.2	Gpa	4.20
Bending Strength	EN 310	N/mm <sup>2</sup>	45
Modulus of elasticity in bending	EN 310	N/mm <sup>2</sup>	6000
Screw Holding Capability	EN 15534	N	3140
Surface Hardness (Brinell)	EN 15534-1:2014	N/mm <sup>2</sup>	82
Wear Resistance	EN 438-2	mm	0.25
Point Load Capacity	EN 1533	N	5850
Boiling Test	EN 15534-1:2014	%	<2,5
Swelling and Water Absorption Test	EN 15534-1:2014	%	< 1,5
Linear Thermal Expansion Coefficient	ISO 11359-2	1/ °C	4.3x10 <sup>5</sup>
Screw And Nail withdrawal test	EN 13446	N	412-315
Flame Spread Index (FSI)	ASTM E84-2017	-	18 (Class A)
Humidity Behavior	ASTM D570	Very low humidity absorption ■ no dimensional change	
Falling Mass Impact Resistance	EN 15534-1:2014: 7.1.2.1	No Crack. None of test specimens shall show a failure with a crack length ≥ 10 mm or a depth of residual indentation ≥ 0.5 mm	

\*Based on European Standard Norm (EN 15534) Wood Plastic Composites (WPC). Values are characteristic from quality tests.

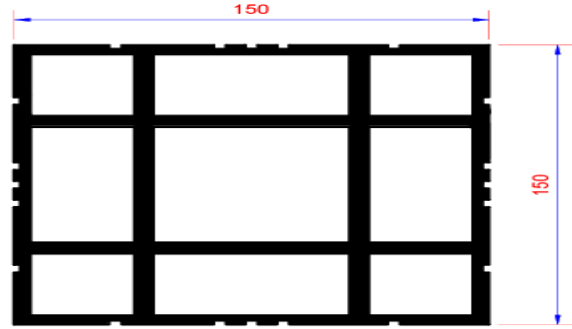
\*EN 15534-1:2014 Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fiber composites (NFC) Part 4: Specifications for decking profiles and tiles.

**DRAW OF PERGOLA PROFILE :**

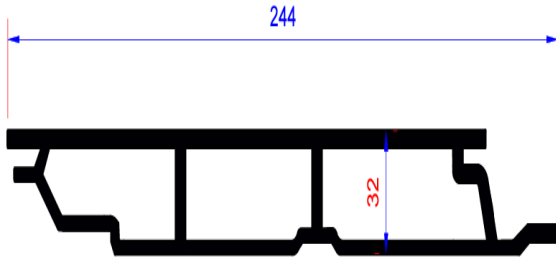
**Rafter**



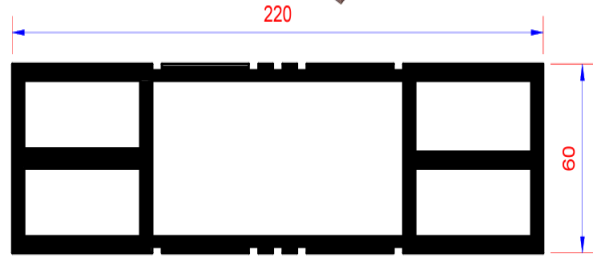
**Post**



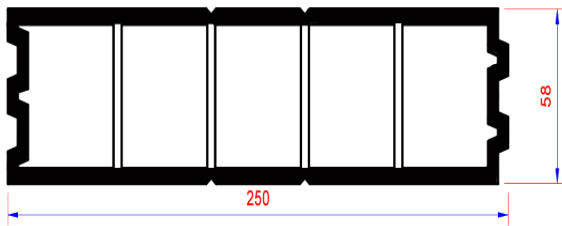
**Roof Cladding**



**Beam**



**Wall Profile**



**Support Profile**

