FSC® Thermo-treated Ash

Once completely dried, the wood is subject to a heat treatment at a temperature of about 200° and a final moisture of around 5%.

Thanks to this treatment the material gets an excellent dimensional stability and a brownish color.



physical properties

botanical name	Fraxinus excelsior		
average mass density	590 kg/m³		
imensional stability stable			table
dry climate deformations	type deformation	values detected	out- come
	bow	max 1%	
	spring	1.5 mm/m	
average Brinell hardness (EN 1534)		3.4 N/	/mm²
average volumetric shrinkage coeffi- cient		0	0.30%
average total tangential shrinkage (TS)			5%
average total radial shrinkage (RS)		3	8.40%
average TS/RS ratio			1.5



mechanical properties

average bending strength	68 MPa
average modulus of elasticity	10,814 MPa
average crushing strength	61 MPa

natural durability (UNI EN 335, UNI EN 350)

fungi	very durable - class 1
dry wood borers	not durable - class S
termites	not durable - class S
use class	outside not in contact with the ground - class 3

properties by conditions of use

solar reflective index (DM 11/10/2017) (*)	value	out- come
	<29	
average solar reflectance (*)		0.25
average thermal emissivity (*)		0.77

Data source: manufacturer, except for items marked with an asterisk (*).

(*) Data source: Ravaioli Legnami. Values obtained from technical laboratory tests carried out directly on samples.

FSC® Thermo-treated Ash is not included in the product category regulated by the UNI 11538-1 as it is a wood subjected to heat treatment.

Tolerance: the dimensions of the boards indicated by Ravaioli Legnami are nominal, with variations up to a maximum of 5% in case of milling.

Color changes and the greying process are natural effects on wood when it is exposed to atmospheric agents: in order to avoid this, a regular maintenance with specific products is recommended.



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