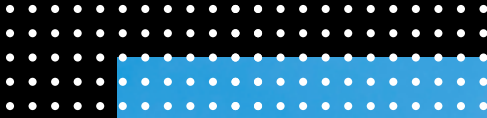


THERMOWOOD

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Thermowood Ayous Data Sheet





Mechanical Properties, Strength Values	Kiln-Dried Ayous	Thermowood Ayous
Modules of elasticity (MOE), flatwise (MPa-N/mm ²) DIN EN 408, TS 2478	5.800	5.200
Modules of rupture (MOR), flatwise (MPa) DIN EN 408, TS 2474	64	40
Impact bending strength (IBS), flatwise (MPa) TS 2477	-	-
Compressive strength (CS), (MPa) TS 2595	-	-

Dimensional Stability 65%Rh 20° C	Kiln-Dried Ayous	Thermowood Ayous
Change in length swelling (mm/m) TS 4083, 4084	0.65	0.38
Change in length shrinkage (mm/m) TS 4083, 4084	0.30	0.25
Change in thickness swelling (mm/m) TS 4083, 4084	0.90	0.26
Change in thickness shrinkage (mm/m) TS 4083, 4084	0.90	0.20

Thermowood Ayous has enhanced dimensional stability: Increased Stability | Minimized Deformations | Minimized Expansion and Shrinkage

Physical Properties, Moisture Content	Kiln-Dried Ayous	Thermowood Ayous
Equilibrium moisture content at 20/65 (%) EN 13183-1	11 (9-12)	4.6 (4-7)
Raw density at 20/65 (kg/m ³) DIN 52182	490	430

Biological Durability Against Wood-Decaying Basidiomycetes	Kiln-Dried Ayous	Thermowood Ayous
Increased durability to decay	No	Yes
Resins and sugars removed	No	Yes
Preliminary durability classification Median mass loss (< 5 %) CEN/TS 15083-1	-	Class 2

Thermowood Ayous has low moisture content that prevents decay and fungi growth.

Nail and Screw Holding Strength	Kiln-Dried Ayous	Thermowood Ayous
a. Stainless steel or galvanised screws and plastic clips are recommended. Hidden and face fixing systems EN 1383, NEN 6562 b. Steel material standard 10088-3	1.800 N	907 N

Thermowood Ayous has screw withdrawal strength.

Glueing	Kiln-Dried Ayous	Thermowood Ayous
Fingerjoints Laminations Panel production	-	MUF, Polyurethane

Brinell Hardness	Kiln-Dried Ayous	Thermowood Ayous
HB10/100	1.3	0.95

Thermal Conductivity, Insulation	Kiln-Dried Ayous	Thermowood Ayous
Heat conductivity W/mK TS EN 12667	1.2	0.099

Emissions

- The emissions are not harmful in fresh air.
- The scent of thermo products may disappear within a few days, but with the surface treatment or rain it, may return.

Color

- Color of the wood changes (Ayous color is dark brown).
- The coatings are oil and water based.

Environment

- 100% natural
- 100% recyclable and biodegradable
- Low processing energy demand
- Sustainable development and a low carbon future

Health and Safety

- Natural, harmless, and free of chemicals
- Completely healthy
- Improves the stability and durability of the wood without the use of persistent toxic chemicals

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