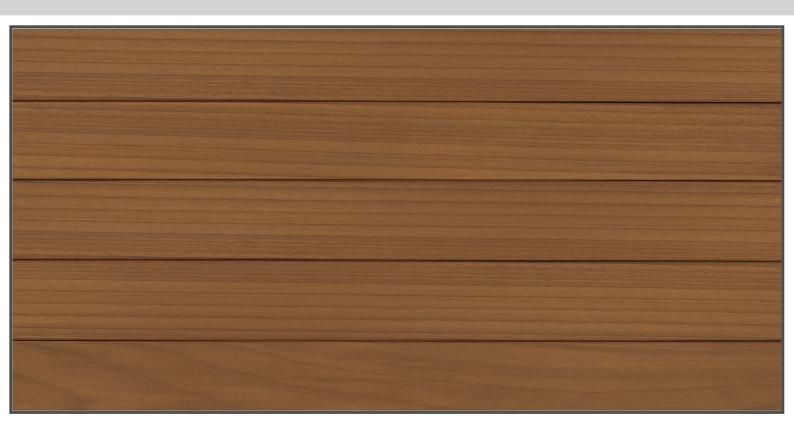
NOVA-AYOUS THERMO-D DATA SHEET





Mechanical Properties, Strength values	Ayous, Kiln-dried	Ayous, Thermowood
Modules of elasticity (MOE), flatwise (MPa-N/mm²) DIN EN 408, TS 2478	5.800	5200
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 (Increased Stability) (Minimized deformations) (Minimized Expansion and Shrinkage)	Ayous, Kiln-dried	Ayous, Thermowood
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	0,80	0,20

Physical Properties, Moisture content	Ayous, Kiln-dried	Ayous, Thermowood
Equilibrium moisture content at 20/65 (%) EN 13183-1	11 (9-12)	4.6 (4-7)
Raw density at 20/65 (kg/m³) DIN 52182	490	430



NOVA-AYOUS THERMO-D DATA SHEET



Biological durability against wood-decaying basidiomycetes (Increased durability to decay) (Resins and sugars removed) (Low moisture content prevents decay and fungi growth)



Ayous, Kiln-dried

Ayous, Thermowood

Preliminary durability classification Median mass loss (< 5 %) CEN/TS 15083-1

Class 2

Nail and screw holding strength



Ayous, Kiln-dried

Ayous, Thermowood

a. Stainless steel or galvanised screws and plastics clips are recommended. Hidden and face fixing systems EN 1383, NEN 6562

b. Steel material standard 10088-3

1.800 N

907 N

Glueing



Ayous, Kiln-dried

Ayous, Thermowood

Fingerjoints Laminations

Panel production

MUF, Polyuretane

Brinell Hardness



Ayous, Kiln-dried

Ayous, Thermowood

HB10/100

1,3

0,95

Emissions



Ayous, Kiln-dried

Ayous, Thermowood

The emissions are not harmful in fresh air.

OK

The smell of thermowood products may disappear within a few days but with the surface treatment or rain it may raise up again.

Short Time

Thermal conductivity, Insulation (Decreased Thermal Conductivity)



Ayous, Kiln-dried

Ayous, Thermowood

Heat conductivity W/mK TS EN 12667

1,2

0,099

Ayous, Thermowood

Colour



Ayous, Kiln-dried

Colour of the wood changes (Ayous colour is dark brown)

OK

Oil and water based coatings

OK



NOVA-AYOUS THERMO-D DATA SHEET



Environment (100 % naturel) (recycleable) (from renewable forests)	Ayous, Kiln-dried	Ayous, Thermowood
100 % naturel	-	OK
100 % recyclable and biodegradable	ОК	OK
Low processing energy demand	ОК	OK
Sustainable development and a low carbon future	ОК	OK

Healty and safety	Ayous, Kiln-dried	Ayous, Thermowood
Definitely naturel and harmless. Free of chemicals.	ОК	ОК
Completely healthy.	OK	ОК
Improving the stability and durability of wood without using any persistent toxic chemicals	ОК	OK