



Mechanical Properties, Strength values		Air-Dried Teak
Modules of elasticity (MOE), flatwise (MPa-N/mm²) DIN EN 408, TS 2478	-	11,000 – 16,000
Modules of rupture (MOR), flatwise (MPa) DIN EN 408, TS 2474	-	100 – 120

Physical Properties, Moisture content		Air-Dried Teak
Equilibrium moisture content at 20/65 (%) EN 13183-1		12%
Raw density at 20/65 (kg/m³) DIN 52182		660 – 900
Specific Gravity		0,66 – 0,90 %
TS/RS Ratio		1.5-1.8
Volumetric shrinkage coefficient		6-10 %
Total Radial shrinkage (RS)		2-4 %
Typical Height (m)		39-45
Tangential rebound (TS)		6-8 %

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



Air-Dried Teak

DURABILITY CLASS
(EN 350)

Class 1

Nail and screw holding strength
(screw withdrawal strength)



Air-Dried Teak

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

Class A2

Surface contaminations from fixation elements

Not delicate

Glueing



Air-Dried Teak

Fingerjoints
Laminations
Panel production

MUF, Polyuretane

Hardness



Air-Dried Teak

Brinell Hardness

20-40N/mm²,

Janka hardness (kgf (or ~9.8-10.8 kN)

1,000 – 1,100

Emissions



Air-Dried Teak

The emissions are not harmful in fresh air.

Thermal conductivity, Insulation
(Decreased Thermal Conductivity)



Air-Dried Teak

Heat conductivity W/mK
EN 12667

0,22



Colour		Air-Dried Teak
Teak wood color is from golden brown to dark brown		OK
Color can vary slightly depending on origin, age, and drying method.		
Environment <i>(100 % naturel) (recyclable) (from renewable forests)</i>		Air-Dried Teak
100 % naturel		OK
100 % recyclable and biodegradable		OK
Low processing energy demand		OK
Sustainable development and a low carbon future		OK
Healty and safety		Air-Dried Teak
Definitely naturel and harmless.		OK
Completely healthy.		OK
Improving the stability and durability of wood without using any persistent toxic chemicals		OK
Freeze-heat shock treatments		Air-Dried Teak
1 Cycle: Freezing stage: 3 days -40°C as frozen wood and then Heating stage: 30 min 200°C in furnace as thermal shock effects. Novawood R&D test spectes and ASTM-D 143-94 standards.		OK-5 cycle <i>(surfacequility) (no cracks) (no color change).</i>