



NOVA- RADIATA PINE DATA SHEET



Mechanical Properties, Strength values		Radiata Pine, Kiln-dried	Radiata Pine, Thermowood
Thermal Modification		-	Intense 230 °C
Standard Lengths		-	3.0-5.7 m; lengths are subject To availability/ Lengths Are subject to availability
Use Class		-	Exterior, above ground, Exposed to the weather. Limited wetting conditons.
Modulus of Elasticity (N/MM ²)* EN 408:2010		-	10377 ± 703.7
Compressive strength (N/MM ²)* EN 408:2010		-	50.8 ± 2.6
Scratch resistance (N)* EN 15186:2012		-	0.2
Acidity (PH)* ISO 6588-2:2021		-	3.74

Physical Properties, Moisture content		Radiata Pine, Kiln-dried	Radiata Pine, Thermowood
Raw density (kg/m ³) DIN 52182		480- 510	405-455
Initial moisture content (%)*		-	11.3 ± 2
Equilibrium moisture content at 21°C, (%)* At: RH 35%- ISO 13061-1:2014		-	4.4 ± 0.3
Equilibrium moisture content at 21°C, (%)* At: RH 60%- ISO 13061-1:2014		-	7.5 ± 0.2
Equilibrium moisture content at 21°C, (%)* At: RH 35%- ISO 13061-1:2014		-	12.5 ± 0.1

**Dimensional Stability 65%Rh 20°C**
(Increased Stability)
(Minimized deformations)
(Minimized Expansion and Shrinkage)

Radiata Pine, Kiln-dried

Radiata Pine, Thermowood

Swelling Dimensions in radial fiber direction
At 21 °C (%)* At: RH 35% ISO 13061-15:2017

0.6 ± 0.1

-

Swelling Dimensions in radial fiber direction
At 21 °C (%)* At: RH 60% ISO 13061-15:2017

0.8 ± 0.1

-

Swelling Dimensions in radial fiber direction
At 21 °C (%)* At: RH 90% ISO 13061-15:2017

1.3 ± 0.1

-

Swelling Dimensions in tangential fiber direction
At 21 °C (%)* At: RH 35% ISO 13061-15:2017

1.3 ± 0.1

-

Swelling Dimensions in tangential fiber direction
At 21 °C (%)* At: RH 60% ISO 13061-15:2017

1.7 ± 0.1

-

Swelling Dimensions in tangential fiber direction
At 21 °C (%)* At: RH 90% ISO 13061-15:2017

2.4 ± 0.1

-

Bending strength (N/MM²)*
EN 408:2010

-

40 ± 4.6

Surface burning characteristics of buildings material- Fire resistance.
(Improved fire-resistance)

Radiata Pine, Kiln-dried

Radiata Pine, Thermowood

REACTION TO FIRE CLASSIFICATION :
Thickness: ≥18 mm-min thickness within
Profile: 9 mm-valid for profiled claddings and
Straight edged boards without air gap-without
surface coating

B-S1-D0

Nail and screw holding strength
(screw withdrawal strength)

Radiata Pine, Kiln-dried

Radiata Pine, Thermowood

SCREW TRACTION RESISTANCE (N/MM²)-3
EN 1382:2016

18.3 ± 0.8

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

Radiata Pine, Kiln-dried

Radiata Pine, Thermowood

DURABILITY CLASS (CATAS)
EN 350:2016 2 - durable

1- Durable

Hardness

Radiata Pine, Kiln-dried

Radiata Pine, Thermowood

JANKA HARDNESS (N)*
ISO 13061-12:2017

-

1763 ± 119.7

BRINELL HARDNESS (N/MM²)*
EN 1534:2010

-

15.39



SURFACE			Radiata Pine, Kiln-dried	Radiata Pine, Thermowood
Planed and brushed surface			-	OK
GRADING			Radiata Pine, Kiln-dried	Radiata Pine, Thermowood
Grades "Clear" and "Country"			-	OK
Colour			Radiata Pine, Kiln-dried	Radiata Pine, Thermowood
Golden Brown with a slight bronze glow. Colour variations in thermally modified wood are a result of variations in growth conditions of the Tree and are fully acceptable. Wood will weather to grey unless an UV resistant coating is applied and maintained.			-	OK
Many colour options available			-	OK
Environment <i>(100 % naturel) (recycleable) (from renewable forests)</i>			Radiata Pine, Kiln-dried	Radiata Pine, Thermowood
FSC certified			OK	OK
100 % naturel			OK	OK
100 % recyclable and biodegradable			OK	OK
Low processing energy demand			OK	OK
Sustainable development and a low carbon future			OK	OK
Wood industries on fast grown plantation wood			OK	OK
From sustainably managed forests			OK	OK
ISO 9001			OK	OK
ISO 14001			OK	OK
ISO 45001			OK	OK
Healty and safety			Radiata Pine, Kiln-dried	Radiata Pine, Thermowood
Definitely naturel and harmless. Free of chemicals.			OK	OK
Completely healthy.			OK	OK
Improving the stability and durability of wood without using any persistent toxic chemicals			OK	OK