



No Wood. No Plastic. No Worries.





Woodgrain



Sand Finish



Embodies the warmth and beauty of natural wood.

The natural alternative to timber deck.

Naxan Deck made with Resysta® is a natural fibre hybrid material that has the look and feel of timber. Naxan Deck is weather and water resistant.

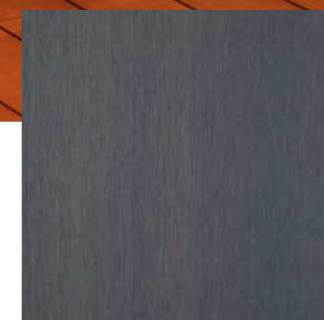
It does not swell, splinter and crack and has high mechanical strength and thermal stability, making it suitable for indoor and outdoor applications. Naxan Deck can be laid on concrete or directly onto structural bearers and joists. It can also be used for cladding, fencing, gates and seating.



C02, Pale Golden



C51, Walnut



C53, Dark Grey



Natural



Product Properties

- UV, weather, water resistance including salt and chlorine
- Does not gray
- No pest infestation or fungal decay
- Fire rating – BAL 40
- High mechanical strength and thermal stability

Naxan Deck is not a wood plastic composite (WPC) and yet surpasses all known alternative wood materials in feel and durability.

Surface and Design

- Natural wood feel and look
- Slip resistant
- No splintering
- Low heat retention when exposed to sun
- Individual colour choice or natural
- Length: 3600 or 4800 x 140 x 25mm



**Eco-Conscious
Material**
**It is not just
about making a
quick buck, it is
about making
the world better.**

Handling

- Process like timber
- Sawing, drilling, sanding, oiling
- No rotting
- Easy care with low maintenance



Sustainability

- Made from rice husk
- 100% no wood and recycled plastic
- Janka hardness 13.07 kN

Xenon Test

15 Years of Inimitable Color Stability

TEAK

Initial State

After 2000h



Teak

Completely bleached surface, major structural differences early wood / late wood

WPC

Initial State

After 2000h



WPC

Very severe change in color (bleaching), several white particles individually visible

naxan[®]
Lifestyle Products

Initial State

After 2000h



Naxan + Stain (Walnut)

Very slight change in color, individual white particles slightly visible

Material Properties

Density	ASTM D2395:2002	Approx. 1.46 g/cm ³
Coefficient of Linear Thermal Expansion	ASTM D696	3.6x10 ⁽⁻⁵⁾ 1/K
Water Absorption & Humidity	ASTM D1037:2006a	Little up to no water absorption (only surface moistening)
Weathering and UV Resistance	QUV Test	With glaze treatment, Resysta surfaces are extremely resistant
Slippery Test (wet area barefoot)	DIN 51097	Class C (highest class)
Fire Rating	EN ISO 11925-2	B2 (E) - standard flammable (with additional treatment B1 reachable)
Fire Rating according NFPA (US Norm)	ASTM E84	Class A (flame propagation 25, smoke emission 450)
Fire Rating (British Standard)	BS 476 Part 6 & 7	Class 1
Fire Rating (Australian Standard)	AS 1530.8.1 – 2007 Bush Fire Test	Up to and including BAL 40
Durability - Resistance against wood-destroying fungi	DINV ENV 12038:2002	No attack by the test fungi, highest durability class 1 (very durable)
Emission	LGA-tested safety & contamination	LGA test passed
Brinell Hardness (HB)	EN 1534	81.1 N/mm ²
Coefficient of sliding and friction μ untreated	EN 13893	0.46
Coefficient of sliding and friction μ with 2k varnish	EN 13894	0.52
Axial Withdrawal Force (of Screws)	EN 320.2011-07	5777 N
Thermal Conductivity (λ)	EN 12664	0.199 W/(mK)
Water Vapor Transmission	DIN EN ISO 12572	$\mu=1300 \rightarrow$ sd 7.22m diffusion blocking
Bending Strength	ISO 178	46 N/mm ²
Bending Modulus	ISO 178	3850 N/mm ²
Tensile Strength	ISO 527	21.8 N/mm ²
Tensile Modulus	ISO 527	2340 N/mm ²
Shearing Strength	ISO 527	16.8 N/mm ²
Durability - Resistance against rotting fungi	CEN/TS 15083-2	No attack by the test fungi, highest durability class 1 (very durable)
Durability against mold and wood discoloring fungi	EN 15534-1:2012	Durability against the wood discoloring fungi (very durable)
Durability against subterranean termites	ASTM D3345-08	High Durability against subterranean Termites - nearly no weight loss
Specific Surface and Volume Resistances	DIN IEC 60093 Measuring voltage 100 V	Surface resistance $R_x=8,0 \cdot 10^{13} \Omega$ Specific surface resistance $\alpha=8,1 \cdot 10^{14} \Omega$ Volume resistance $R_x=2,2 \cdot 10^{13} \Omega$ Specific volume resistance $\alpha=6,3 \cdot 10^{14} \Omega$

Comparison

PROPERTIES	NAXAN DECK	TROPICAL WOOD	INDIGENOUS LUMBER	WPC (WOODPLASTIC-COMPOSITE)
Haptics	++	++	+	-
Water resistance	++	-	-	-
UV resistance	++	--	--	-
No fungal decay	++	+	+ / -	+
No Graying and Fading	++	-	-	-
Processing	+	+	+	+
Life Time	++	-	-	+
Recyclability	++	+ / -	-	-
Paintability	+	+	+	-
No cracking	++	-	-	+
No splintering	++	-	-	+
No swelling	++	-	-	-
Glueability	+	+ / -	+	-
Fire resistance	+	+	+	-

* Test details and performance results were determined in laboratory conditions using standard test specimens. Information contained herein is to be used for general reference only.

* No plastic refers to recycled or reused plastic materials.

**25 years warranty -
Swell, crack, splinter and rot free.**

Refer to Progeneus website for Limited Product Warranty Statement.

Progeneus■

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