

NAXAN Universal Performance Board (UPB) are natural fiber boards made of Resysta® utilizing the proprietary EcoPlus3 process technology. NAXAN UPB is light weight, 100% recyclable, waterproof, low maintenance and has similar visual and tactile properties as natural timber.

### NAXAN UPB Specification

No.	Test	Lab	Standard	Value
	<b>Mechanical Properties</b>			
1	Density		ISO 1183	0,55 - 0.60 g/cm <sup>3</sup>
2	Tensile E-Modulus	eph	EN 789	587 N/mm <sup>2</sup>
3	Tensile Strength	eph	EN 789	6,73 N/mm <sup>2</sup>
4	Bending E-Modulus	eph	EN 789	717 N/mm <sup>2</sup>
5	Bending Strength	eph	EN 789	9,51 N/mm <sup>2</sup>
6	Shear Modulus	eph	EN 789	161 N/mm <sup>2</sup>
7	Shear Strength	eph	EN 789	2,73 N/mm <sup>2</sup>
8	IZOD Impact Strength notched	PC	ISO 180/1eA	2 KJ/m <sup>2</sup>
9	Brinell hardness (HB)	eph	EN 1534	12,1 N/mm <sup>2</sup>
10	Axial Withdrawal Force of Screws - Surface	eph	EN 320	1112 N
11	Axial Withdrawal Force of Screws - Edge	eph	EN 320	1121 N
12	Axial Withdrawal Force of Nails - Surface	eph	EN 320	165 N
13	Axial Withdrawal Force of Nails - Edge	eph	EN 320	286 N
	<b>Physical Properties</b>			
15	Coefficient of Linear Thermal Expansion , Profil	SKZ	ISO 11359-2	5,2 *10(-5) m/m°C
16	Thermal Conductivity (λ)	ZAE	Anlehnung an EN 12667	0,0688 W/(mK)
17	Thermal Capacity	ZAE		1,02 J/(gK)
18	Expansion Force	SKZ	Intern	1230 N
19	Water vapour transmission	TÜV Nord	DIN EN ISO 12572	μ=1000
20	Air sound insulation	PFB	ISO-10140-2	32 Rw(dB) - 18mm
21	Water Absorption (24 h) - Change in weight	Waler	EN 317	< 3 %
22	Water Absorption (24 h) - Change in length	Waler	EN 317	< 0,1 %
23	Water Absorption (24 h) - Change in weight	SKZ	EN 317	3.0%
24	Water Absorption (24 h) - Change in length	SKZ	EN 317	0.1%
25	Water Absorption (24 h) - Change in width	SKZ	EN 317	0.2%
26	Water Absorption (24 h) - Change in thickness	SKZ	EN 317	< 0,1 %
27	Fire Rating standard - UL V94	Exova	UL V94	V0
28	Fire Rating standard - EN 13501	Exova	Din EN 13501	D,s3,d0

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No.	Test	Lab	Standard	Value
	<b>Environmental Resistance</b>			
30	Durability/Resistance against wood-destroying fungi (basidiomycetes)	eph	EN 15534-1:2014- 9.5.2 (basierend auf ENV 12038)	Klasse 1 / Class 1
31	Durability/Resistance against rotting fungi	eph	EN 15534-1:2014, Abschnitt 8.5.3 basiert auf CEN/TS 15083-2	höchste Dauerhaftigkeitsklasse / highest durability class
32	Durability against subterranean termites	BAM	EN 117	Versuchter Angriff (Nagespuren) - kein Befall
33	Resistance against staining fungus	eph	EN 15534-1:2012 basiert auf ISO 16869	Bewertungszahl 0 - Kein Bewuchs / Verfärbung
34	Resistance against algae	eph	EN 15534.1:2014 - 8.5.6 (basierend auf EN 15458)	Beständig gegen Algenbefall / Resistant to algae infestation
35	Moisture resistance under cycle conditions	eph	DIN EN 15534-1:2014-04, 8.3.2	Abnahme Bruchkraft: 11-12 %
				Abnahme Biegefestigkeit: 14-15 %
				Abnahme Biege E-Modul: 24-25 %
	<b>Various</b>			
36	VOC - Emission	LGA	AgBB Prüfkonzept/ DIN EN ISO 16000-3/6/9 u.a.	bestanden/passed
37	VOC - Emission	LGA	Französische Verordnung Nr. 2011-321 /DEVL1104875A	bestanden/passed
38	Welding factor - Tensile Strength	SKZ	DVS 2203 Teil 2	0.68
39	Welding factor - Bending Strength	SKZ	DVS 2203 Teil 2	0.76
40	Heat Deflection Temperature , at 1.81 MPA (A)	PC	ISO 75-2 - Verfahren A	61,9°
41	Static Thermostability	SKZ	HCI Test (EN ISO 182-3:2000)	32 min
42	Mathis Test	SKZ	EN ISO 305:1999 (200°)	35 min

Note: Above values were determined in laboratory conditions using standard test specimens. This specification is intended to be used for general reference only and not for specification purposes. User will have to ascertain the suitability of the material for final application.