

UPB BOARDS made of Resysta®

BIOBASED AND CIRCULAR WATER-RESISTANT PANEL IT IS NO WOOD BUT HAS THE NATURAL LOOK & FEEL OF IT

READY AND EASY TO USE

UPB Boards made of Resysta are 100 % water-resistant and can be processed with or without surface treatment by means of common wood working machines. Simple to mill, grind, screw, nail, tacker or glue with a wide variety of adhesives. After processing, the edges can be ground easily and do not require edge foil.

ADVANTAGES AT A GLANCE



100% WATER-RESISTANT
water- and weather-resistant
saltwater- and
chlorine-water-resistant
UV-resistant | no swelling



SUSTAINABILITY
100% recyclable
100% no wood



FLEXIBLE GESTALTUNG
Großzügiges Plattenmaß
Einfaches Handling



RESISTANCE AGAINST TERMITES AND FUNGI
resistant against fungal decay and
termite attack



NEW SCOPE OF APPLICATION
provides new possibilities, which
would not be possible with wood



NO CRACKING & SPLINTERING
smooth surface, as cracking does
not take place
no splinters



COLOR CONCEPT
surface can be colored individually
with Resysta colors, varnish and oils



NO ROTTING
can be installed directly
in the ground



THERMOFORMABLE
Resysta can be formed by
application of heat

UPB BOARDS MADE OF RESYSTA

are available with the following dimensions and are ground on both sides by default ex factory.

Thickness in mm	Toleranz in mm*	Width x Length in mm	Width Tolerance* according to DIN EN 324 in mm/m	Length Tolerance* according to DIN EN 324 in mm/m	Edge Straightness Tolerance* according to DIN EN 324 in mm/m	Standard Grinding Grit
8	± 0,2	1220 x 2440	± 2,0	± 2,0	≤ 1,5	P 36-40
12	± 0,2	1220 x 2440	± 2,0	± 2,0	≤ 1,5	P 36-40
20	± 0,3	1220 x 2440	± 2,0	± 2,0	≤ 1,5	P 36-40

* independent of temperature-affected tolerances

PROCESSING

UPB Boards made of Resysta are supplied ex works with a structure ground surface and can be re-ground manually or mechanically by means of coarse abrasive paper. For processing, commercially available woodworking machines are used.

For color design, the surface of UPB boards made of Resysta can be colorized transparent with stain, varnish, glaze or oil especially selected for Resysta. A variety of different grades and degrees of gloss are available. Treatment will result in a transparent surface, hardly distinguishable from wood, with perfect protection appropriate for the required application.

TECHNICAL PRODUCT DATA SHEET

Properties	Standard	Data*
Density	ISO 1183	0,6 (+/- 0.05) g /cm ³
Tensile Modulus	EN 789	≥ 700 N/mm ²
Tensile Strength	EN 789	≥ 9,0 N/mm ²
Flexural Modulus	EN 789	≥ 800 N/mm ²
Flexural Strength	EN 789	≥ 10 N/mm ²
Rigidity Modulus	EN 789	≥ 160 N/mm ²
Shear Strength	EN 789	≥ 2,7 N/mm ²
Brinell Hardness	EN 1534	≥ 20 N/mm ²
Screw Withdrawal Resistance - Surface	EN 320	≥ 1200 N
Screw Withdrawal Resistance - Narrow Side	EN 320	≥ 1200 N
Nail Withdrawal Resistance - Surface	EN 320	≥ 200 N
Nail Withdrawal Resistance - Narrow Side	EN 320	≥ 300 N
Coefficient of Thermal Linear Expansion	ISO 11359-2	5,2 *10(-5) m/m°C
Thermal Linear Expansion Force	RES 101 SKZ	≈ 1.500 N
Heat Conductivity (λ)	based on EN 12667	≥ 0,07 W/(mK)
Heat Capacity		1,02 J/(gK)
Diffusion Resistance (Water Vapor Permeability)	DIN EN ISO 12572	μ=1000
Airborne Sound Insulation	ISO-10140-2	32 Rw(dB)
Water Absorption 24 h (Weight)	EN 317	≤ 2,0%
Water Absorption 24 h (Elongation)	EN 317	≤ 0,1%
Water Absorption 24 h (Change in Width)	EN 317	≤ 0,2%
Water Absorption 24 h (Change in Thickness)	EN 317	≤ 0,1 %
Fire Behaviour Standard - UL V94	UL V94	V0
Fire Behaviour Standard - EN 13501	Din EN 13501	D,s3,d0
Short-Time Weld Factor - Traction Test	DVS 2203 Part 2	0,68
Short-Time Weld Factor - Flexural Test	DVS 2203 Part 2	0,76
Resistance Against Termites	EN 117	Attempted Attack - No Infestation
Resistance Against Wood-Discoloring Fungi	EN 15534-1:2012 based on ISO 16869	Evaluation Number 0 - No Mildew / No Discoloring
VOC - Emission	AqBB evaluation concept/DIN EN ISO 16000-3/6/9	Test Passed
VOC - Emission	French Regulation No. Nr. 2011-321 /DEVL1104875A	Test Passed

* The data contained in above table are based on the values of the 20mm board;were performed by well-known testing institutes according to internationally valid test methods and are based on our experience. Varying material thickness, processing and application areas can possibly influence the results. Therefore no liability is accepted for the specified values. With a reissue of technical data, the above data will become invalid. The user is responsible for proper storage, processing, use and disposal of the product. All values are subject to common tolerances of nature-orientated material.



red dot award: winner in category "product design" 2017
Resysta UPB Board

