

# Resysta - the future Material

Raw materials used:



approx. 60% rice husks + approx. 22% rock salt + approx. 18% mineral oil = Resysta



**Resysta can do everything that wood can and much more!**

- 100% no wood
- 100% no WPC
- weatherproof
- waterproof
- dimensionally stable
- resistant to salt water
- barefoot-friendly/ no splintering
- no swelling
- no cracking
- no rotting
- slip-resistant
- individual coloring
- recyclable
- low-maintenance
- no insect infestation or fungal damage
- simple assembly
- glueable
- Class A Fire Rating

Resysta impresses with its unique properties not only with its longevity but also in feel, look and the diversity of potential applications for facade or terrace design.

Due to the fact that it does not swell, splinter, shrink or crack, Resysta differs from other material. Resysta does not contain any wood components and will therefore not gray. Resysta has been especially developed for outdoor areas. Therefore Resysta withstands climatically challenging conditions, like aggressive influences caused by weather, environment and temperature. Thanks to these exceptional properties, Resysta represents the ideal material for facades as well as for terrace construction and installation in bathroom units.

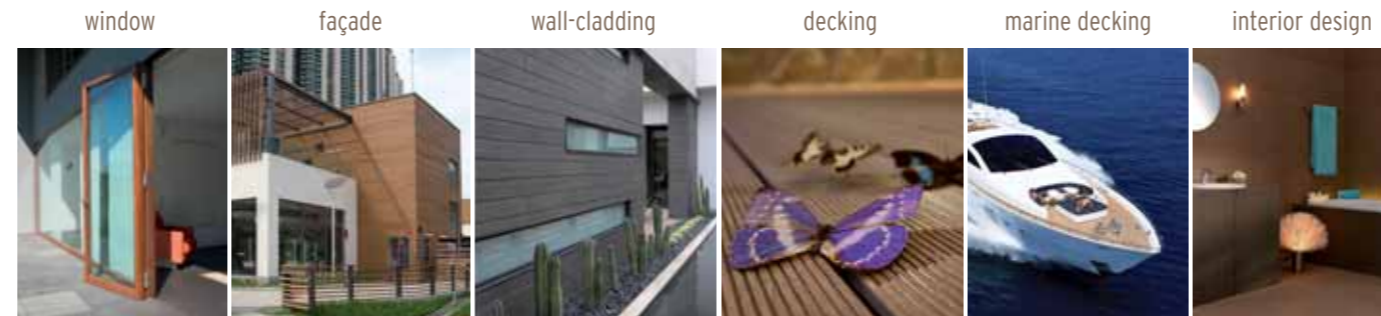


## Resysta Coloring

The polar properties of Resysta allow for the perfect adherence of stains and sealer - the perfect precondition for long-lasting color design of the Resysta facade. Color chipping and flaking of the Resysta surface cannot occur. The stains contain color pigments of highest quality standard and are not destroyed by UV-light.

Facades treated with Resysta stains and sealer display almost no visible changes even after a period of 10 years. Therefore, elaborate refinishing, grinding and painting of the facade is not required in the long-run. Chose from six standard colors or additional 25 special colors.

## Resysta – one material, unlimited possibilities



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**15 YEARS  
MATERIAL  
WARRANTY**

- no swelling
- no cracking
- no splintering
- no rotting



One  
**Material**  
unlimited  
**Possibilities**

# Wall Cladding

## Advantages of Resysta

- due to the polar properties of the material, colors and lacquers adhere optimally to Resysta
- water cannot penetrate Resysta, therefore stain cannot flake like it does with wood
- no weathering is visible
- changes in color barely visible - even after many years
- no costly sanding and painting required
- high screw tensile strength
- no greying of the surface
- durability level 1 (very durable) against fungal decay



FPH 7020/3.5  
(WxHxL) 70 x 20 x 2900mm



FPH 9015  
(WxHxL) 90 x 15 x 2900mm



FPHG 14020  
(WxHxL) 140 x 20 x 2900mm



FPH 7038  
(WxHxL) 70 x 38 x 2900mm



FPHR 6520  
(WxHxL) 65 x 20 x 2900mm



FPHR 10520  
(WxHxL) 105 x 20 x 2900mm



CP 95  
(WxHxL) 95 x 14 x 2900mm



CP 140  
(WxHxL) 140 x 14 x 2900mm



CS 124  
(WxHxL) 124 x 19 x 2900mm



# The Decking System

DKG 5.5/1

(WxHxL) 140 x 25 x 2900mm



DKG 7.5/1

(WxHxL) 190 x 25 x 2900mm



DKG 14025

(WxHxL) 140 x 25 x 2900mm



DKG 14038

(WxHxL) 140 x 38 x 2900mm



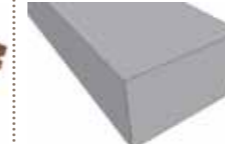
DKN 12520

(WxHxL) 125 x 20 x 2900mm



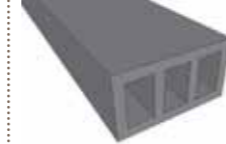
RUS 5528

55 X 28 X 2900MM



RUH 7038

(WxHxL) 70 x 38 x 2900mm

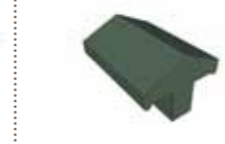


FPS 7020

(WxHxL) 70 x 20 x 2900mm



T4A CLIP



## An outstandingly awarded material

red dot award: product design 2012  
for Resysta Marine



Nominated for the design award of  
the Federal Republic of Germany



Innovation award architecture and building  
industry for sustainability



Major anniversary completion in  
the category »construction«



Design & Product Award  
in the category »Design Materials«



»Resysta is extremely resistant and has an exceptional eco-balance«

»Resysta deserves the title »The better wood« in all aspects«



# Technical Data

Density	ASTM D2395:2002	approx.1.46 kg/m <sup>3</sup>
Coefficient of Linear Thermal Expansion	ASTM D696	3.6x10(-5)m/C
Water Absorption and Air Humidity Behaviour	ASTM D1037:2006a	none or very low water absorption (only surface wetting)
Weathering and UV Resistance	QUV Test	Resysta surfaces treated with glaze show extremely high resistance
Slip Resistance	ASTM D2047-04	> 0,6
Fire Behaviour (British Standard)	BS 476 Part 6 & 7	B2, normal flammability (by adding flame retardants, a higher rating of B1 can be reached)
Fire Behaviour (US Standard)	ASTM E84	A Rating (flame propagation 25, smoke emission 450)
Fire Behaviour (British Standard)	BS 476 Part 6&7	Rating 1
Durability (Resistance to Wood-Destructive Fungi)	DIN EN 12038:2002	the material has not been affected, highest durability - Class 1
Emission	DIN EN ISO 9001/14001	passed
Brinell Hardness (HB)	EN 1534	81,1 N/mm <sup>2</sup>
Friction Coefficient $\mu$ untreated	EN 13893	0,46
Friction Coefficient $\mu$ with 2K	EN 13894	0,52
Screw Withdrawal Resistance	EN 320:2011-07	5777 N
Heat conductivity ( $\lambda$ )	EN 12664	0.199 W/(mK)
Water vapor permeability	DIN EN ISO 12572	$\mu=1300 \rightarrow$ sd 7.22m diffusion inhibiting
Bending Strength	ISO 178	46 N/mm <sup>2</sup>
Bending Modulus	ISO 178	3850 N/mm <sup>2</sup>
Tensile Strength	ISO 527	21,8 N/mm <sup>2</sup>
Tensile Modulus	ISO 527	2340 N/mm <sup>2</sup>
Shearing Strength	EN 392	16,8 N/mm <sup>2</sup>
Resistance to Mould Fungal Decay	CEN/TS 15083-2	The material features almost no mass loss, highest durability classification 1 (very durable)
Resistance to termites	ASTM D3345-08	Resistant to termite infestation (coptotermes curvignathus), very little loss of mass - very high durability
Electric surface resistance and volume resistivity	Specific surface resistance and volume resistivity	Surface resistance $R_x=8,0*10(13) \Omega$ Specific surface resistance $\alpha=8,1*10(14) \Omega$ Volume resistivity $R_x=2,2*10(13) \Omega$ Specific volume resistivity $\alpha=6,3*10(14) \Omega$

Resysta is tested by renowned institutes worldwide according to German, British, European and American standards.

