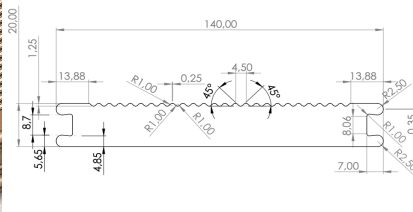
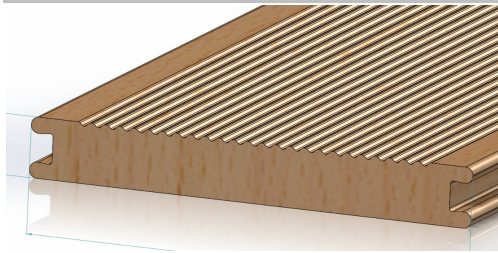


PHYSICAL AND MECHANICAL PROPERTIES FOR  
COMPOSITE DECKING  
20140 140 x 20 Solid Models Deck Profile )



Width : 140 mm  
Thickness : 20 mm  
Length : Available

Property	Based	Method	Remark	Typical value
Density	CEN/TS 15534	EN ISO 1183		1,12 -1,25 g/cm3
Bending Strength	CEN/TS 15534	EN 310		48 Mpa
Linear thermal expansion coefficient (between 60 °C and -20 °C)	CEN/TS 15534	DIN 53752		0,10 mm / m°C
Water Absorption After keeping in water for 24 hour	CEN/TS 15534	DIN EN 317	Volume	No Volumetric Change
			Mass	> 2 %
Dimensional stability and water absorption after 28 days immersion in normal water (23 °C)	CEN/TS 15534	DIN EN 317	Water absorption	4%
			Thickness swelling	1,5%
			Expansion in Width	0,7%
			Expansion in Length	0,3%
Slip Resistance	CEN/TS 15534	CEN/TS 15676	Dry	69.3
			Wet	55.0
Resistance to artificial weathering	CEN/TS 15534	ISO 4892-2: 2013, cycle 1	After 1000h exposure: Value Range: $\Delta E^* = 5,57$ Grey Scale 2~3	$\Delta L^*, \Delta a^*$ and $\Delta b^*$ shall be delared
Moisture resistance under cyclic test conditions	CEN/TS 15534	ISO 4892-2: 2013, cycle 1	Original MOR: 27.4 Mpa. After exposure Mean MOR : 24.8 Mpa Decrease: 9,6 % Min MOR: 23,7 Mpa Decrease: 13.4 %	Decrease of bending strength, Means 20 % Max. $\leq$ 30 %
Flexural Modulus	CEN/TS 15534	EN 310		4.500 - 4.800 Mpa
Tensile Strength	CEN/TS 15534	EN ISO 527-2		15 - 16 Mpa
Impact Strength	CEN/TS 15534	EN ISO 179-2		20 - 30 J/M
Brinell Hardness	CEN/TS 15534	EN ISO 868		80 - 85 Mpa
Creep Recovery Rate	CEN/TS 15534	EN 16659		> 82 %
Fire Class	CEN/TS 15534	EN 13501-1		Dfi
Fire Resistance	CEN/TS 15534	EN ISO 11925-2 t= 15s -20s	Whether the flame tip reaches 150mm above the flame application point	No
			Whether ignition occurs	No
			presence of flaming droplets/particles which cause ignition of the filter paper	No
Durability Of Wood And Wood Based Products	CEN/TS 15534	ISO EN 350-1	Against Fungus	Resistant
		ISO EN 350-1	Against Termite	Resistant
		ISO EN 350-1	Against insect larvae	Resistant

The values above are characteristic values from quality tests and therefore not for strength calculations in the service ability state.

All products are result of extensive research and development. Laboratory continuously monitor and assess product quality at R&D Laboratory.

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