

TECHNICAL FILE TWINSON

application: P9360

date: 27/11/2024
version: v10



		EN 15534-1	based on	specific property	unit	value	
MATERIAL CHARACTERISTICS	physical properties	density	§ 6.2	ISO 1183-1/A	kg/dm ³	1.44 ± 0.05	
	mechanical properties	flexural properties	§ 7.3.1	ISO 178	flexural modulus	MPa	6300 ± 10%
					bending strength	MPa	> 55
	durability	swelling and waterabsorption (28 days)	§ 8.3.1	EN 317	mass increase	%	< 8
		resistance to termites	§ 8.4	EN 117		class	1
		resistance against basidiomycetes	§ 8.5.2	ENV 12038		class	1
		resistance against soil inhabiting soft rotting micro-fungi	§ 8.5.3	CEN/TS 15083-2		class	1
thermal properties	linear thermal expansion (-20 °C ... +60°C)	§ 9.2	ISO 11359-2	length direction	10 ⁻⁶ m ⁻¹ K ⁻¹	20 - 25	
burning behaviour	oxygen index	§ 9.5	ISO 4589-2		%	> 20	
PRODUCT RELATED CHARACTERISTICS	physical properties	slip resistance	§ 6.4.3	DIN 51097	bare foot ramp test	class	C
				EN 16165 annex B	shod ramp test; riffled surface (lengthwise/crosswise)	class	R12
				EN 16165 annex B	shod ramp test; wood surface (lengthwise/crosswise)	class	R13/R12
			§ 6.4.2	CEN/TS 15676	pendulum (wet) - riffled surface; lengthwise	class	62
			§ 6.4.2	CEN/TS 15676	pendulum (wet) - wood surface; lengthwise	class	64
	mechanical properties	flexural properties (Lv=40 cm)	§ 7.3.2	EN 310	flexural modulus	MPa	6000 ± 10%
		bending strength			MPa		> 45
	durability	creep behaviour (Lv=40 cm/85kg/50°C/ 7 days)	§ 7.4.1	EN 310	additional bending	mm	< 10
		natural weathering (1 year Bandol)			bending strength retention	%	< 20
		cyclic conditions (Lv=40 cm)	§ 8.3.2	EN 321	bending strength retention	%	< 20
	thermal properties	boiling test	§ 8.3.3	ISO 1087-1	mass increase	%	< 4
		heat reversion	§ 9.3	EN 479		%	< 0.2
	burning behaviour	heat build-up	§ 9.4	ASTM D4803		°C	< 45
		single flame source	§ 9.6.1	ISO 11925-2	classification EN 13501-1	class	OK
		radiant heat source	§ 9.6.3	ISO 9239-1	classification EN 13501-1	class	Bfl s1
		roofs/roof coverings exposed to external fire		CEN/TS 1187	classification EN 13501-5	class	Broof (t1)

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