

TECHNICAL FILE TWINSON

application: P9369

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version: v4



		EN 15534-1	based on	specific property	unit	value	
MATERIAL CHARACTERISTICS COEX	physical properties	density	§ 6.2	ISO 1183-1/A	core	kg/dm ³	1,48 ± 0,05
					coex		1,21 ± 0,05
	durability	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	
PRODUCT RELATED CHARACTERISTICS	physical properties	slip resistance	---	DIN 51130	riffling surface	class	R10
			---	DIN 51130	wood structure	class	R11
			§ 6.4.2	CEN/TS 15676	pendulum (wet) - riffling surface; lengthwise	class	36
			§ 6.4.2	CEN/TS 15676	pendulum (wet) - wood surface; lengthwise	class	42
	mechanical properties	flexural properties (Lv=50 cm)	§ 7.3.2	EN 310	flexural modulus	MPa	6000 ± 10%
					bending strength	MPa	> 40
		creep behaviour (Lv=50 cm/85kg/50°C/ 7 days)	§ 7.4.1	EN 310	additional bending	mm	< 10
	durability	natural weathering (1 year Bandol)			bending strength retention	%	< 20
		cyclic conditions (Lv=50 cm)	§ 8.3.2	EN 321	bending strength retention	%	< 20
		boiling test	§ 8.3.3	ISO 1087-1	mass increase	%	< 4
	thermal properties	heat reversion	§ 9.3	EN 479		%	< 0.2
		heat build-up	§ 9.4	ASTM D4803		°C	< 45
		linear thermal expansion (-20 °C ... +60°C)	§ 9.2	ISO 11359-2	length direction	10 ⁻⁶ K ⁻¹	20 - 25
	burning behaviour	single flame source	§ 9.6.1	ISO 11925-2	classification EN 13501-1	class	Bfl s1
radiant heat source		§ 9.6.3	ISO 9239-1	classification EN 13501-1	class		
roofs/roof coverings exposed to external fire			CEN/TS 1187	classification EN 13501-5	class	Broof (t1)	

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