

**TECHNICAL FILE TWINSON**

application: O-Terrace  
P9335

date: 27/11/2024  
version: v3



		EN 15534-1	based on	specific property	unit	value	
MATERIAL CHARACTERISTICS	physical properties	density	§ 6.2	ISO 1183-1/A	core	kg/dm <sup>3</sup>	1,48 ± 0,05
					coex		1,485 ± 0,05
	mechanical properties	flexural properties	§ 7.3.1	ISO 178	flexural modulus	MPa	5000 ± 10%
					bending strength	MPa	> 55
	durability	swelling and water absorption (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 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 <sup>-6</sup> K <sup>-1</sup>	20 - 25
		oxygen index	§ 10.1	ISO 4589-2		%	> 20
		§ 6.4.4	EN 13893	Floor slider 2000	---	> 0.4	
		§ 6.4.2	CEN/TS 15676	pendulum	USRV	> 36	
mechanical properties	flexural properties (Lv=50 cm)	§ 7.3.2	EN 310	flexural modulus	MPa	7000 ± 10%	
				bending strength	MPa	> 50	
durability	creep behaviour (Lv=50 cm/85kg/50°C/ 7 days)	§ 7.4.1	EN 310	additional bending	mm	< 10	
	natural weathering (1 year Bandol)			bending strength retention	%	< 20	
durability	cyclic conditions (Lv=50 cm)	§ 8.3.2	EN 321	bending strength retention	%	< 20	
	boiling test	§ 8.3.3	ISO 1087-1	mass increase	%	< 8	
	heat reversion	§ 9.3	EN 479		%	< 0.2	
thermal properties	heat build-up	§ 9.4	ASTM D4803		°C	< 45	
	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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