

## TECHNICAL FILE TWINSON

application: O-Wall  
P9576

date: 24/01/2019  
version: v4



		EN 15534-1	based on	specific property	unit	value	
MATERIAL CHARACTERISTICS	physical properties	density	§ 6.2	ISO 1183-1/A		kg/dm <sup>3</sup>	1.42 ± 0.05
	mechanical properties	flexural properties	§ 7.3.1	ISO 178	flexural modulus	MPa	5000 ± 10%
		flexural properties			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
	PRODUCT REL	durability	natural weathering (1 year Bandol)			bending strength retention	%
boiling test			§ 8.3.3	ISO 1087-1	mass increase	%	< 8
thermal properties		heat reversion	§ 9.3	EN 479		%	< 0.2
		heat build-up	§ 9.4	ASTM D4803		°C	< 40
		single flame source	§ 9.6.1	ISO 11925-2	classification EN 13501-1	class	E

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