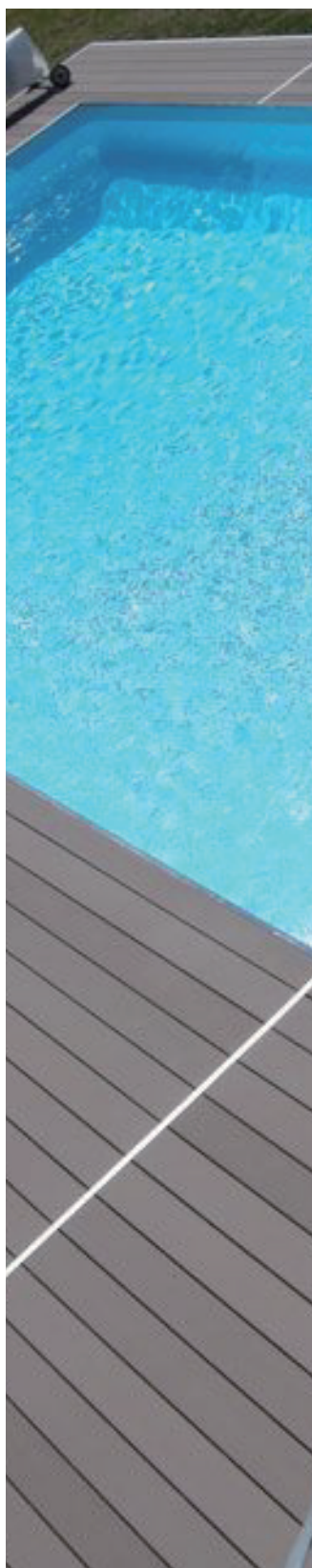




FORESTAR

FOERSTAR[®] Technical Specification

PHYSICAL AND MECHANICAL PROPERTIES OF FOERSTAR DECK



Property	Test method	Typical value
Deviation from straightness	EN15534-1 6.6.3	Max value: 0.5 mm
Cupping	EN15534-1 6.6.4	Max value: 0.2 mm
Slipperiness	EN15534-1 6.4.2	Longitudinal: 75 Horizontal: 86
Falling mass impact resistance	EN15534-1 7.1.2.1	No surface crack Residual indentation Maximum value: 0.48
Resistance to artificial weathering	N15534-18.1 300h EN ISO 4892-2	Value Range: $\Delta L^* = -1.54 \sim -1.74$ $\Delta a^* = -0.04 \sim -0.02$ $\Delta b^* = -0.83 \sim -0.71$ Grey scale 4
Boiling test	N15534-1 8.3.3	Water absorption Mean value: 2. 2%
Linear thermal expansion coefficient (-20°C~80°C)	EN15534-1 9.2	Mean value: $45.0 \times 10^{-6} \text{K}^{-1}$
Heat reversion	EN15534-1 9.3	Mean value: -0.03%
Creep behaviour	EN15534-1 7.4.1	Mean value: $\Delta s = 1.53 \text{mm}$ $\Delta s_r = 1.11 \text{mm}$ Max value $\Delta s = 1.86 \text{mm}$
Moisture resistance under cyclic test conditions	EN 15534-1 8.3.2 and 7.3.2	Original value: 18.4 Mpa After moisture condition 15.3Mpa Mean decrease: 17% Max individual decrease: 19%
Swelling and water absorption (28 days immersion)	EN15534-1 8.3.1	swelling 1. 37% in thickness 0. 21% in width 0. 29% in length water absorption 5.3%
Heat build-up	EN 15534-1 9.4	Mean value: 52°C
Resistance to indentation	EN 15534-1 7.5	Brinell hardness: 121 Mpa Rate of elastic recovery: 44%
Resistance against discolouring micro-fungi	EN 15534-1 8.5.5 ISO 16869	Grade 1 Initial growth (compared with the rest of the agar surface)
Fire Class	EN ISO 9239-1 a And EN ISO 11925-2 d Exposure=15 s	B fl -s1

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FOERSTAR[®] Deck Technical Specification

Specification mm	Span mm	MOR Mpa	MOE Mpa	Load at break N	Extension at break mm	Extension at 50kgload mm	Extension at 100kg load mm	Loading capacity (N/m ²)	Reference loading capacity Kg/m ²)
110*25 Hollow	350	19.0	3022.7	2489.3	11.1	1.34	2.75	61164.5	3058.2
135*25 Hollow	350	14.6	2829.8	2347.4	6.8	1.2	2.31	47619.6	2381.0
140*25 Hollow	350	12.5	2145.9	2282.2	13.4	1.54	3.28	44991.9	2249.6
145*30 Hollow	350	13.0	2234.0	3231.5	8.1	0.91	1.71	61214.0	3060.7
146*25 Hollow	350	17.3	2974.1	2973.5	8.3	1.10	2.04	55902.3	2795.1
150*23 Hollow	350	19.5	3640.1	2949.4	9.2	1.06	2.06	54774.3	2738.7
150*25 Hollow	350	15.6	2990.2	2791.0	6.7	1.00	1.94	51832.3	2591.6
146*20 Solid	350	22.4	3475.1	2765.0	22.5	1.54	3.62	52140.0	2607.0
140*25 Solid	350	23.7	2423.1	4099.1	9.7	0.63	1.50	83653.0	4182.6
Capped Decking 140*22 Hollow	350	29.2	2189.1	4274.9	13.5	1.52	3.13	87242.8	4362.1.0

