

TECHNICAL CHARACTERISTICS – COMFODECK POWERED BY ALKUS

Main Parameters	Glass Fiber Reinforcement							Standard
Type of Panel	CD10	CD11	CD14	CD15	CD16	CD18.5 FR	CD30	
Reference of Thickness (mm)	10.0	12.0	15.0	16.0	20.0	18.6	30.0	
Tolerance of Thickness (mm)	+0.5mm							DIN EN ISO 13385-1
Weight (kg/m ²)	4.19	4.31	4.65	4.95	5.5	6.69	8.03	ISO 4605
Maximum production width (mm)	2950 +/- 1 mm							
Maximum production length (mm)	13500 +/- 2mm							
Compressive strength honeycomb (N/mm ²)	2.2	3.0	2.2	2.2	2.2	2.2	2.2	EN ISO 844
Compressive modulus honeycomb (N/mm ²)	80	90	80	80	80	123	123	EN ISO 844
Content of glass fiber (%)	67	67	67	67	67	69	67	ASTM D5630
Tensile strength skin 0° (N/mm ²)	270.6	270.6	270.6	270.6	270.6	270.6	270.6	ASTM D3039
Tensile modulus skin 0° (N/mm ²)	9356	9356	9356	9356	9356	15645	15645	ASTM D3039
Elongation at break skin 0° (%)	2.3	2.3	2.3	2.3	2.3	2.61	2.61	ASTM D3039
Tensile strength 90° (N/mm ²)	441.7	441.7	441.7	441.7	441.7	413.7	413.7	ASTM D3039
Tensile modulus skin 90° (N/mm ²)	16995	16995	16995	16995	16995	14781	14781	ASTM D3039
Elongation at break skin 90° (%)	2.4	2.4	2.4	2.4	2.4	2.47	2.47	ASTM D3039
Bending strength (N/mm ²)	83.9	76.3	56.2	52.1	40.0	46.7	21.6	ISO 14125
Flexural modulus (N/mm ²)	4979	4366	2526	2431	2480	2717	582	ISO 14125
Heat aging ¹⁾	10 years							External test
UV-aging ²⁾	10 years							ISO4892-2:2006
Alkaline ageing ³⁾	10 years							External test

Thermal Properties

Thermal Expansion Coefficient (23°C – 50°C) (10 ⁻⁶ m/mK)	32	DIN 53752
Temperature range (°C)	-40/+80	ISO 75

Other Properties

Load rating	4	4	4	4	/	/	EN 12811-3
Water Absorption (%)	<1.5						ISO 62
Product certification	✓						ISO 9001
Surface anti skid rating	R12						DIN EN 16164
Infammability	B2/F2						DIN 4102/ DIN 53438-1
Treatment for fire retardment	optimal						
Processing	on site: like plywood Industrial production: with optimized cutting and drilling geometries						
Warranty	10 years						

¹⁾ according to external laboratory tests (2000h/80°C)

²⁾ according to external laboratory tests (2000h), for regions with 60–180 Kly/year UV exposition

³⁾ according to external laboratory tests (500h/50°C, milk of lime)

The data presented in this section are to be seen as a guide and may vary depending on the process method and test specimen used.

The suitability of a material for a specific area of application must be checked by the processor or end user. All technical specifications are provided only as a guide for planning purpose. They do not constitute a guarantee of specific properties or qualities.