TECHNICAL CHARACTERISTICS - AL PANEL

Main Parameters	Aluminum Reinforcement										Norm
Type of Panel	AL10	AL11	AL12.9	AL15	AL17	AL18	AL19	AL20	AL22	AL27	
Reference Thickness (mm)	10.0	11.0	12.9	15.0	17.0	18.0	19.0	20.0	22.0	27.0	
Tolerance on thickness (mm)	+0/-0.6+0.5mm										
Weight (kg/m²)	8	8.4	10.5	11.5	12.5	13	14	14.5	15.5	19.6	DIN EN ISO 845
Maximum production width (mm) [1]	1370										
Maximum production length (mm) [1]	4000										
Module of Elasticity (3-Points) 21 ° (N/mm²) [3]	6650	6100	5650	5400	5850	5500	5300	5100	4600	3900	DIN EN ISO 178
Flexural Strength 21 ° (N/mm²)	45	42	36	37	44	43	42.5	42	40	33	DIN EN ISO 178
Shear Resistance (N/mm²)	>6										DIN EN 789

Thermal Properties		
Thermal Conductivity (W/(mK))	0.13	DIN EN 12667
Thermal Expansion Coefficient (23 °–50 °C), (10EXP-6 m/(mK))	42	DIN 53752
Temperature Range	-20 °C – +90 °C	DIN ISO 75

Other Properties		
Water Absorption	0 %	DIN EN ISO 62
Nail Holding Ability	comparable with plywood sheets coated with phenolic resin	
Scratch Reistance (N)	0.5	DIN 53799
Abrasion Resistance (AT 1 / Rot.)	>8.800 [2]	DIN 53799
Surface Hardness (Shore D)	68	DIN EN ISO 868
Inflammability	B2	DIN 4102
Processing	on site: like plywood Industrial production: with optimized cutting and drilling geometries	

[1] Special formats available on request. Panels with a width exceeding 1370 mm (AL) are manufactured by welding together multiple panels.
[2] Based on a face sheet thickness of 1 mm
[3] Support spacing 350 mm
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.