

Aluminum composite panels consist of an LDPE core coated both sides with an 0.3 mm aluminium sheet. These panels have a higher stiffness than mere plastic sheets, and are lighter than mere aluminium panels. The thermal expansion is very low, which makes these plates very suitable e.g. for cladding.

Product data:

Cover sheet thickness	0.3 mm
Weight	3.8 kg/m ²
Alloy / Hardness of aluminium cover sheets	EN AW 3105/H44 or 4116/H44
Density LDPE core	0.92 kg/m ³

Panel tolerances:

Thickness	± 0.2 mm	
Width	-0 / +4 mm	
Length	< 4000 mm:	-0 / +4 mm
	> 4001 mm:	-0 / +6 mm
Squareness / Difference of diagonals	≥3 mm	
Coefficient of thermal expansion	2.4 mm/m/100°C	

Surface:

Lacquer density	ECCA T1	22 ± 3 µm
Hardness	ECCA T4	min F
Bend radius	ECCA T7	no cracks at 1.5 T (90°C) or at 3 T (180°C)
Cracking in lacquer at impact	ECCA T17	no cracks at 04 Nm/mm

Typical properties:

Fire class rating	DIN 4102-1	class B2
Temperature range	-50 to +80°C	

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The figures shown are the data of the sheet manufacturers. Values may differ depending on the production batch. This data sheet is not a guarantee for exact compliance with the values!