

TECHNICAL DATA SHEET

MATERIAL APPROVAL ACC. TO DIN EN 12899-1

THICKNESS AND WEIGHT				
Material thickness	mm	2	3	4
Thickness of aluminium layers	mm	0,3	0,3	0,3
Thickness tolerance sheet	mm	±0,2		
Weight	[kg/m²]	2,9	3,8	4,75
CORE				
Typ LDPE, New PE, UV-Blocker	g/cm³	0,9		
SURFACE				
Front side		Washed millfinished surface for direct lamination		
Back side		High weatherproof lacquer in all kind of colors		
RESISTANCE				
Corrosion resistance	DIN EN ISO 9227 AASS	Corrosion quota of <0,2% of the total specimen area after 1000h		
Durability		Tested according to DIN EN 12899-1:2007 (4.1.1.5.3 artificial Accelerated Weathering, 4.1.1.5.2 natural weathering) DIN EN 12899-1:2001 (5.3.5 Corrosion resistance, 5.3.7 Impact resistance)		
Range of application	[°C]	-50...+80		
TECHNOLOGICAL VALUES				
Section modulus (W)	[cm³/m]	0,5	0,8	1,1
Rigidity (E•I)	[kNcm²/m]	345	865	1620
Alloy of aluminum layers		EN AW-5005A (AlMg1)		
Modulus of elasticity	[N/mm²]	70'000		
Tensile strength of layers and panel	[N/mm²]	R _m	145 - 185	
Proof stress (0,2 limit)	[N/mm²]	R _{p0,2}	110 - 175	
Elongation	%	A50 ≥ 3		
Linear thermal expansion		2,4 mm/m at 100°C temperature difference		
NOTE				
12 years product warranty Inspection certificate 3.1 according DIN EN 10204 Manufacturing controlled by workforce classified according DIN 6701-2 (Step 2)				

Note: These technical data are typical guidelines. The actual readings are subject to minor production-related fluctuations.