

Panel thickness		1,2	2,0	Unit
Aluminium Layers		0,2	0,2	mm
Alloy (EN 485-2)		EN AW-5182 (AlMg4,5Mn0,4)		
Hardness of aluminium layers		hard (H18)		
Core material		Polypropylen PP		
Panel weight		1,8	2,5	kg/m ²
Thickness tolerance (EN 485-4)		+/- 0,09	+/- 0,12	mm
Mechanical properties				
Modulus of elasticity	E	70.000		N/mm ²
Yield strength	R _{p0,2}	≥ 320	≥ 320	N/mm ²
Tensile strength	R _m	≥ 380	≥ 380	N/mm ²
Section modulus	W	0,2	0,36	cm ³ /m
Rigidity (incl. transversal contraction)	E x I	80	230	kNcm ² /m
Ultimate elongation		4	4	%
Thermal properties				
Range of temperature		- 30 bis +120		°C
Temporary temperature (up to 30 minutes)		+ 150 adequate to powder or immersion coating		°C
Flash point of core (DIN 54 836)		300		°C
Thermal expansion coefficient		24 x 10 ⁻⁶		1/K
Thermal resistance (EN ISO 6946)		0,0036	0,0073	m ² K/W
Acoustical properties		Anti-noise compound better structure-borne noise properties in comparison with solid metal sheets		
Electrical properties				
Current flow resistance of core (DIN 53 482)		> 10 ¹⁶		Ωcm
Breakdown voltage of core (DIN 53 481, DIN VDE 0303 T21E)		> 35 ... 40		kV/mm
Delivery conditions				
Width tolerance (EN 485-4)		0 / + 4		mm
Length tolerance (EN 485-4)		0 / + 6		mm
Surface (Standard)		mill finish		
Lacquer (optional)		clear coat		
protection (optional)		self-adhesive PE foil		

Panel thickness	3,0	4,0	Unit
Aluminium layers	0,3		mm
Alloy (EN 485-2)	EN AW-5005A (AlMg1)		
Hardness of aluminium layers	H44		
Core material	Polypropylene PP, foamed		
Panel weight	2,7 +/- 0,1	3,2 +/- 0,1	kg/m ²
Thickness tolerance (EN 485-4)	+/- 0,15	+/- 0,15	mm
Surface			
Lacquer	modified polyester-coating		
Gloss (initial value)	70 – 100 %		
Matt (initial value)	20 – 40 %		
Hardness (pencil hardness)	HB – F		
Mechanical properties			
Modulus of elasticity	E	70.000	N/mm ²
Yield strength	R _{p0,2}	110 – 175	N/mm ²
Tensile strength	R _m	145 – 185	N/mm ²
Section modulus	W	0,76	cm ³ /m
Rigidity (incl. transversal contraction)	E x I	800	kNcm ² /m
Ultimate elongation		≥ 3	%
Thermal properties			
Range of temperature	- 40 to +120		°C
Temporary temperature (up to 30 minutes)	+ 150 adequate to powder or immersion coating		°C
Thermal expansion coefficient	24 x 10 ⁻⁶		1/K
Delivery Conditions			
Width tolerance (EN 485-4)	0 / + 4		mm
Length tolerance (EN 485-4)	0 / + 6		mm
Protection (optional)	self-adhesive PE foil		

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