



## Technical data sheet

Tubond® Slim aluminium composite panels with polyethylene core and 0.21 aluminium layer recommended for 2D applications. Due to their structure the aluminium composite panels are characterized by exceptional material rigidity while maintaining low weight. These characteristics together with its ideally smooth surface, make this material broadly applied in advertising, printing, construction, industrial disciplines as well as in many other similar fields. Due to the fact that our white panels have special polyester coating we hereby guarantee that our panels will not fade, peel off paint and delaminate within 5 years.

Characteristics	Standard index	Method	Value / Thickness	
			2mm	3mm
DESIGNATION	Tubond® Slim			
<b>PHYSICAL</b>				
Aluminium thickness			0,21 mm	
Face finish			matt/matt gloss/matt one side coating*	
Weight			t2mm=3.15kg/m <sup>2</sup>	t3mm=4,2-4,3kg/m <sup>2</sup>
Core composite			PE	
Length			± 3mm	
Width			± 2mm	
Thickness			±0,2mm	
Diagonal			≤ 5mm	
Edge non-straightness			≤ 1 mm/m	
Warpage			≤ 5mm/m	
Standard width			1250/1500/2000	
<b>MECHANICAL</b>				
Surface pencil hardness	≥H	ASTM D3363-00		
Coating thickness	2 coating ≥25 um 3 coating ≥ 35 um			
T-Bending	2T no rift	ASTM 4145		



Impact resistance	no cracing	ASTM D2794 (50kg.cm)		
Adhesive	no pick off	ASTM 3359		
Minimal bending radius	45mm 70mm			
<b>THERMAL</b>				
Temperature resistance	-50°C to 70°C			
Thermal expansion	2.4mm/m by 100°C temperature difference			
Thermal deformation temperature	115°C	ASTM D 648		
<b>CHEMICAL RESISTANCE</b>				
Boiling water resistance	after 2h in boiling water no change			
Chemical resistance: - muriatic acid 5% HCL 24 hrs - sodium hydroxide 5% NaOH 24 hrs	no change	ASTM D 308		
Solvent resistance	no change	ASTM D 2248 (100times)		
Humidity resistance	no change	ASTM D 2247-02 ASTM D 714 (4000hrs)		
<b>FLAMMABILITY</b>				
Fire propagation	qualified	ASTM E84		
<b>OTHER</b>				
Sound insulation	27 acc.	ASTM E413		
Water resistance	passed	ASTM E331		

\*single-sided panel, one side foil - the bottom layer of the aluminium is covered with a protective layer