

# ALUMINIUM COMPOSITE PANEL

etalbond-d2®

PANEL THICKNESS:		2mm	3mm	4mm	6mm
Aluminium layer thickness mm		0.20			
Panel Weight [Kg/m <sup>2</sup> ]		2.6	3.5	4.4	6.2
PANEL TOLERANCES					
Panel thickness	mm	±0.2			
Panel width	mm	-0.00 / +4.00			
Panel length	mm	≤ 4000 mm : -0.0 / +4 4001 - 6000 mm: -0.0 / +6 6001 - 8000 mm: -0.0 / +10			
Diagonal difference	mm	3.00 mm			
TECHNICAL PROPERTIES					
Alloy/Temper of Aluminium cover sheet		EN AW- 3105/H44 or 4116/H44			
Modulus of Elasticity	<b>E</b> [N/mm <sup>2</sup> ]	70000			
Tensile strength of Al. cover sheets	<b>Rm</b> [N/mm <sup>2</sup> ]	150-200			
0.2% Proof stress	<b>Rp0.2</b> [N/mm <sup>2</sup> ]	120 min			
Elongation	%	A <sub>50</sub> ≥ 3%			
Linear Thermal Expansion		2.4 mm/m for Temperature difference of 100° C			
CORE:					
Density of Polyethylene, Type LDPE [g/cm <sup>3</sup> ]		0.92			
SURFACE PREPARATION and PAINT CHARACTERISTICS					
Visible Surface Preparation:		<u>Pre-treatment of Aluminium :</u> 1 <sup>st</sup> Degreasing 2 <sup>nd</sup> Passivation			
Lacquering Upper Surface/ Lower Surface		Coil Coating <u>Modified Polyester suitable for digital printing - System</u>			
<ul style="list-style-type: none"> <li>Gloss</li> <li>Pencil Hardness</li> <li>Paint Thickness</li> </ul>		Semi gloss Target 35 % , Tolerances according to EN 1396 High gloss Target >80% Tolerances according to EN 1396 Min H 18±3 µm			
TEMPERATURE BEHAVIOUR					
Operational temperature range		From -50° C to +80° C			
SURFACE QUALITY					
Dents, marks, hits, grooves, stains etc.		Acceptable when not visible at a distance ≥1 m at an angle of 90°			
PROTECTIVE FILM					
Transparent unprinted with special adhesive suitable for digital printing / No UV protection		An area of 5 mm max, from each edge might be without protective film			

\*\*Material before use should be stored inside away from direct sunlight.

\*\*\*It is advisable to remove the protective film within 6 months after goods receipt. Beyond this period there is a possibility that the protective film might leave remnants of adhesive on the surface



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