

ETALBOND® -FR

Aluminium Composite material

# Technical Data Sheet

<b>PANEL Thickness</b>	mm	4	6
<b>1. PANEL DIMENSIONS</b>			
1.1 Aluminium Thickness	mm	0,5	0,5
1.2 Etalbond Weight	Kg/m <sup>2</sup>	7.6	11.2
1.3 Max. Standard width	mm	1250, 1500	
1.4 Standard length	mm	3200	
<b>2. PANEL TOLERANCES</b>			
2.1 Panel thickness	mm	±0.2 (±0.3 for 6mm)	
2.2 Panel width	mm	-0.00, +2.00	
2.3 Panel length	mm	(1250-4000mm) -0.00, +4.00 (4001-8000mm) -0.00, +10.00	
2.4 Diagonal difference	mm	3.00 max for ≤ 4000 mm 10.00 max for ≤ 8000 mm	
<b>3. MECHANICAL CHARACTERISTICS OF ALUMINIUM COVER SHEETS (0.50 mm)</b>			
3.1 Tensile strength (Rm)	N/mm <sup>2</sup>	≥150	
3.2 Yield strength (Rp0.2)	N/ mm <sup>2</sup>	≥120	
3.3 Elongation A <sub>50</sub>	%	≥4%	
3.4 Modulus of Elasticity	N/ mm <sup>2</sup>	70 000	
3.5 Rigidity (EJ)	KN m <sup>2</sup> / m	0.25	0.60
4. ALLOY	Al. 3105 / H44 (Painted)		
<b>5. ETALBOND- FR, VISIBLE SURFACE, Chemical treatment and Coil Coating characteristics , Non Visible surface</b>			
5.1 Visible Surface	<p>Either</p> <ul style="list-style-type: none"> <li>● PVDF-3 (70/30) Dry film thickness = 32 (+/-3) µm Gloss =35(+/-7) %</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>● PVDF-2 (70/30) Dry film thickness = 30 (+/-2) µm Gloss =30(+/-7) %</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>● VHDPol Dry film thickness = 30 (+/-2) µm Gloss =35(+/-7) %</li> </ul>		
5.2 Surface Preparation	With chemical preparation (Degreasing, Chromatisation)		
5.3 Non Visible Surface	Protective backer		
<b>6. TEMPERATURE BEHAVIOUR</b>			
6.1 Excellent behaviour in temperatures	From -50°C to +80°C		
6.2 Thermal Expansion (Aluminium cover sheets)	2.4 mm per linear meter for temperature difference of 100°C		
<b>7. SURFACE BURNING CHARACTERISTICS</b>			
<b>COUNTRY:</b>	<b>Test according to..</b>	<b>Classification</b>	
7.1 Switzerland	VKF fire regulations	Class 5.3	
7.2 Austria	OENORM 3800 part1,2	Class B1/Q1/Tr1	
7.3 Germany	Din 4102 -1	Class B1	
7.4 Russia	ГОСТ, 30244-94 ГОСТ, 30402-96 ГОСТ, 12.1.044-89 п.4.18	Fire Classification G1 Flash classification B2 Δ2	
7.5 European Union	EN 13501-1	Euroclassification B, s1,d0	