ETALBOND®
Composite material

TECHNICAL DATA SHEET

PANEL Thickness	mm	3	4	6
1. PANEL DIMENSIONS				
1.1 Aluminium layer thickness	mm	0,5	0,5	0,5
1.2 Etalbond Weight	Kg/m²	4.6	5.5	7.4
1.3 Standard width	mm	1250, 1500		
1.4 Standard length	mm	3200		
2. DIMENSIONAL TOLERANCES				
2.1 Panel thickness	mm	± 0.2		
2.2 Panel width	mm	-0.00 / +4.00		
2.3 Panel length	mm	≤ 4000 mm : -0.0 / +4 4001 -6000 mm: -0.0 / +6 6001- 8000 mm: -0.0 / +10		
2.4 Diagonal difference	mm	3 mm		
3. TECHNICAL PROPERTIES				
3.1 Section modulus (W)	cm³/m	1.25	1.75	2.75
3.2 Rigidity (Ex I)	kNcm² / m	1250	2400	5900
3.3 Alloy		EN AW- 3105		
3.4 Temper of Aluminium sheets		H44 (Painted)		
3.5 Modulus of Elasticity €	N /mm²	70000		
3.6 Tensile strength (Rm)	N/mm²	≥150		
3.7 Yield strength (Rp0.2)	N/ mm²	≥120		
3.8 Elongation (A_{50})	%	≥3%		
3.9 Linear Thermal Expansion		2.4 mm/m for temperature difference of 100°C		
4. CORE				
4.1 Density of Polyethylene, Type LDPE	g/cm³	0.92		
5. SURFACE PREPARATION and PAINT CHARACTERISTICS				
5.1 Surface Preparation	With chemical preparation (Degreasing, Chromatisation)			
5.2 Lacquering 5.3 Visible Surface	Coil Coating ● PVDF-3 Paint thickness: Target 32 µm, Tolerances according to EN 1396 ● PVDF-2 Paint thickness: Target 30 µm, Tolerances according to EN 1396 ● VHDPE Paint thickness: Target 25 µm, Tolerances according to EN 1396			
6. TEMPERATURE BEHAVIOUR				
6.1 Excellent behaviour in temperatures	From –50°C to +80°C			
SURFACE QUALITY				
Dents, marks, hits, grooves, stains etc.	Acceptable when not visible at a distance ≥2 m at an angle of 90°			
7. SURFACE BURNING CHARACTERISTICS				
COUNTRY:	Test according to..	Classification		
7.1 Germany	DIN 4102	B2		
7.2 France	NFP 92-501	Class M1		
7.3 United Kingdom	BS 476, Part6 BS 476, Part7	Index 0 Class 1 ►Class 0 (Bldg. Reg.)		
7.4 Italy	CSE RF 2/75/A, RF 3/77	Class 1		
7.5 Switzerland	VKF regulation	Class 4.2		
8. PRODUCT CERTIFICATIONS				
Country	Certification			
Great Britain	BBA Agrément Certificate No. 07/4464			
Poland	APROBATA TECHNICZNA ITB AT-15-6556/2011			
Switzerland	VKF Brandschutzanwendung. Nr.17104			
Slovak Republic	SK Technical Assessment TP-13/0009			

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