

ALUMINIUM COMPOSITE PANEL

etalbond® - A2

	standards	units	
PANEL Thickness		mm	4
1. PANEL DIMENSIONS			
1.1 Aluminium layer thickness		mm	0,5
1.2 Etalbond Weight		Kg/m ²	7.4 ± 0.3
1.3 Max. Standard width		mm	1250, 1500
1.4 Standard length		mm	3200
2. PANEL 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	3.00 mm
3. TECHNICAL PROPERTIES			
3.1 Section modulus (W)	DIN 53293	cm ³ /m	1.54
3.2 Rigidity (Ex J _{eff,calc})		Nm ² /m	206
3.3 Alloy	EN 573-3		EN AW- 3105
3.4 Temper of Aluminium sheets	EN 515/EN 1396		H44 (Painted)
3.5 Modulus of Elasticity (E)	EN 1999 1-1	N/mm ²	70000
3.6 Tensile strength (R _m)	EN 1396	N/mm ²	≥150
3.7 Yield strength (R _{p0.2})	EN 1396	N/mm ²	≥120
3.8 Elongation (A ₅₀)	EN 1396	%	≥3%
3.9 Linear Thermal Expansion	EN 1999 1-1	mm/m	2.4 for temperature difference of 100°C
4. CORE			
4.1 Mineral filled polymer			
5. SURFACE PREPARATION and PAINT CHARACTERISTICS			
5.1 Surface Preparation		With chemical preparation (Degreasing, Passivation)	
5.2 Lacquering		Coil Coating	
5.3 Visible Surface		<ul style="list-style-type: none"> ● PVDF-3/FEVE: 33 µm, tolerances according to EN 1396, complies with AAMA 2605 ● PVDF-2/FEVE: 30 µm, tolerances according to EN 1396, complies with AAMA 2605 ● VHDPE: 25 µm, tolerances according to EN 1396 	
5.4 Back Surface		Protective Primer	
6. TEMPERATURE BEHAVIOUR			
6.1 Excellent behaviour in temperatures		From -20°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. FIRE CLASSIFICATIONS			
COUNTRY	Test Report acc. to	Classification	
7.1 European Union	EN 13501-1	A2- s1,d0	
7.2 Austria	ONORM B3800-5	Pass	
7.3 France	NF P 92-501 NF EN ISO 1716	M ₀	
7.4 Poland	PN-90/B-02867:1990+AZ1:2001	Pass	
7.5 Switzerland	VKF	6q_3	
7.6 UK	BS 476 Parts 6 and 7 BS 8414-2 (SZ-20 system: BML 120)	Class 0 (Combined report) Meets the criteria of BR135	
7.7 UAE	BS8414-1 (cassette system) BS8414-2 (riveted system)	Meets the criteria of BR135 Meets the criteria of BR135	
7.8 USA	ASTM E84 NFPA 285 (cassette with open joints) NFPA 285 (cassette with closed joints)	Class A Passed Passed	
8. APPROVALS			
COUNTRY	Authority	Approval	
8.1 Czech Republic	TZUS	Product conformity No. 060-043949	
8.2 France	CSTB	Avis Technique 2/14-1626*V2, etalbond-PE/FR/A2 Riveté Avis Technique 2/14-1644*V2, etalbond-PE/FR/A2 Cassettes	
8.3 Poland	ITB	National Technical Assessment : ITB -KOT-2017/0140 ed. 1	
8.4 Romania	Ministry of Regional Development Standing Technical Council for Constructions	Technical Approval 002-04/1308-2016	
8.5 Slovak Republic	TSUS	SK Technical Assessment: SK TP-13/0009 -v. 02 of 26/07/2016	
8.6 Singapore	TUV	Certificate Of Conformity No. CLS2 17 11 96957 001	
8.7 Ukraine	Ukrainian requirements	Technical approval UA1.044.0021361-17	
8.8 United Arab Emirates – Dubai	Dubai Civil Defense	License Number: SK75/2018	
8.9 United Arab Emirates – Abu Dhabi	General Department of Civil Defense – Abu Dhabi	License number: 20111112239	



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