



TECHNICAL DATA SHEET

APL / TDS / 001 / Rev.10 | Date 18.07.2026



ALUCOPANEL® A2

EUROCLASS A2 - (s1,d0)

Physical Properties					
	Test Standard	Tolerance	Result		
			4MM	6MM	
Panel Thickness	...	(±) 0.2 mm	4.0 mm	6.0 mm	
Weight of the Panel	...	± 0.5 kg/m²	8.2 kg/m²	12.0 kg/m²	
Standard Width	...	(±) 2 mm	1000, 1250, 1500, up to 2000 mm		
Length	...	(±) 2 mm	up to 6000 mm Max. 8000 mm		
Skin Thickness	...	(±) 0.02 mm	0.50 mm		
Fire Performance					
	Test Standard	Requirement	Result / Certificate Ref. No.		
			4MM	6MM	
Reaction to Fire	EN 13501-1	Class A2, s1, d0	TBW 0300135		
Surface Burning Characteristics	ASTM E84	(FSI) 25-0 (SDI) 450-0	FSI 15, SDI 15 Class A	FSI 15, SDI 30 Class A	
Self Ignition Temperature (ACP)	ASTM D 1929	Not less than 343°C	SIT (842°F) 450°C, FIT (842°F) 450°C	SIT (842°F) 450°C, FIT (842°F) 450°C	
Self Ignition Temperature (CORE)			SIT (950°F) 510°C, FIT (950°F) 510°C	SIT (950°F) 510°C, FIT (950°F) 510°C	
Non-Loadbearing Ventilated Façade System	BS 8414-1	As per standard	TBW0300140		
Exterior Non-Load Bearing Wall Cladding Assemblies	NFPA 285	As per standard	TBW	CAVITY (mm)	TBW0300224
			TBW0300140	125	
			TBW0300148	75	
			TBW0300204	100	
			TBW0300224	75	
			TBW0300560	250	
			TBW0300620	280	
			TBW0300649	300	
			ESL-25-11883	730	
			ESL-25-11950	840	
Roof Covering Assembly (0-10° from the horizontal plane)	EN 13501-5:2016	B _{ROOF} (t4)	TBW0300648 without any packing material on steel structure with 40 cm Void ideal for canopies and feature.	-	
Roof Covering Assembly with Mineral Wool Insulation (10-70° from the horizontal plane)	EN 13501-5:2016	B _{ROOF} (t4)	TBW0300738 With thermal insulation fixed direct at rear face of ACP, on Alum structure with 300mm Void ideal for Continuous Roof Covering.	-	



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Fire Performance				
Test Standard		Requirement	Result	
			4MM	6MM
Roof Covering Assembly (10–70° from the horizontal plane)	EN 13501–5:2016	B _{ROOF} (t4)	TBW0300739 without any packing material on Alum structure with 300mm Void ideal for canopies and feature.	–
Coil Specification				
Test Standard		Requirement	Result	
			4MM & 6MM	
Alloy / Temper	ASTM B209	...	3105 – H16	5005 – H16
Tensile Strength	ASTM E8	172 – 221 N/mm²	196 N/mm²	188 N/mm²
Yield Strength	ASTM E8	Min. 145 N/mm²	190 N/mm²	183 N/mm²
Elongation	ASTM E8	Min. 1.0 %	4.2 %	3.3 %
Modulus of Elasticity	ASTM E111	Measure Value	69 Gpa	
Mechanical Properties				
	Test Standard	Requirement	Result	
			4MM	6MM
Peel off Strength @ 180°	ASTM D903	10 kg/ 25mm	15.84 kg/25mm	23.2 kg/25mm
Climbing Drum Peel	ASTM D1781	Measure Value	20.6 kg/25mm	20.6 kg/25mm
Shear Strength	ASTM C 273	3.2MPa	3.25 MPa	3.27 MPa
Tensile Strength	ASTM E8	> 35 MPa for 4mm >25 MPa for 6mm	41.23 MPa	29.83 MPa
0.2% Proof Stress	ASTM E8	Measure Value	49.0 Mpa	35.0 Mpa
Punch Shear Test	ASTM D 732	20 MPa	22.23 MPa	20.87 MPa
Modulus of Elasticity	ASTM C393	Measure Value	22,800 Mpa	22,800 Mpa
Flexural Strength	ASTM D790–17	Measure Value	106.1 Mpa	106.1 Mpa
Thermal Properties				
	Test Standard	Requirement	Result	
			4MM	6MM
Deflection Temperature	ASTM D 648	100°C	250°C	250°C
Linear Thermal Expansion per 100°C	ASTM D 696	2.40 mm/m/ °C	2.40 mm/m/ °C	2.47 mm/m/ °C
Linear Thermal Expansion Coefficient		Measure Value	0.024 mm/ (m °C)	0.0247 mm/ (m °C)
Thermal Conductivity	ASTM C 518	Measure Value	0.11 W/mK	0.10 W/Mk



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ACOUSTICAL PROPERTIES			
	TEST STANDARD	REQUIREMENT	RESULT
			4MM6MM
Sound Transmission Class	ASTM E413	...	STC 19
COATING PROPERTIES AND PERFORMANCE (TOP COAT)			
	TEST STANDARD	REQUIREMENT	RESULT
			4MM6MM
Coating Thickness	ASTM D 1400	≥ 25µm	≥ 25µm
Weathering Resistance	ASTM C 481	A. Shear Strength B. Film Adhesion C. Impact Resistance	A. 3.20 Mpa (after exposure) B.1.Dry Adhesion - No removal of film B.2. Wet Adhesion - No removal of film B.3. Boiling Water - No removal of film C. Impact Resistance - No removal of film
Corrosion Resistance (Humidity Resistance & Salt Spray)	AAMA 2605 ASTM D 2247 ASTM D 714 ASTM B 117	A. Humidity Resistance (@4000 hours exposure) B. Salt Spray Resistance (@4000 hours, 35°C)	A. No formation of blisters B.1 Scribed - rating of 9 B.2. Unscribed - rating of 10
Chemical Resistance	ISO 2812 -1: 2014	A. Acid Resistance B. Alkali Resistance C. Oil Resistance D. Solvent Resistance	A. NO CHANGE B. NO CHANGE C. NO CHANGE D. NO CHANGE
Abrasion Resistance	ASTM D 968	≥ 50 L/mil	52.1 L/mil
T-Bend Test	ASTM D 522	2T (No Cracks)	2T (No Cracks)
Pencil Hardness	ASTM D 3363	≥ H	≥ H
Film Adhesion DRY (@27 °C) WET (@38 °C, 24hrs) BOILING (@100 °C, 20hrs)	AAMA 2605 (Clause 7.4)	No removal of film	No removal of film within or outside of the cross- hatched area; No blistering was observed
Impact Resistance Test 50 kg-cm	AAMA 2605 (Clause 7.5)	No removal of film	No removal of film
REMARK: Coating Performance results are complying with AAMA 2605-13 Requirements			



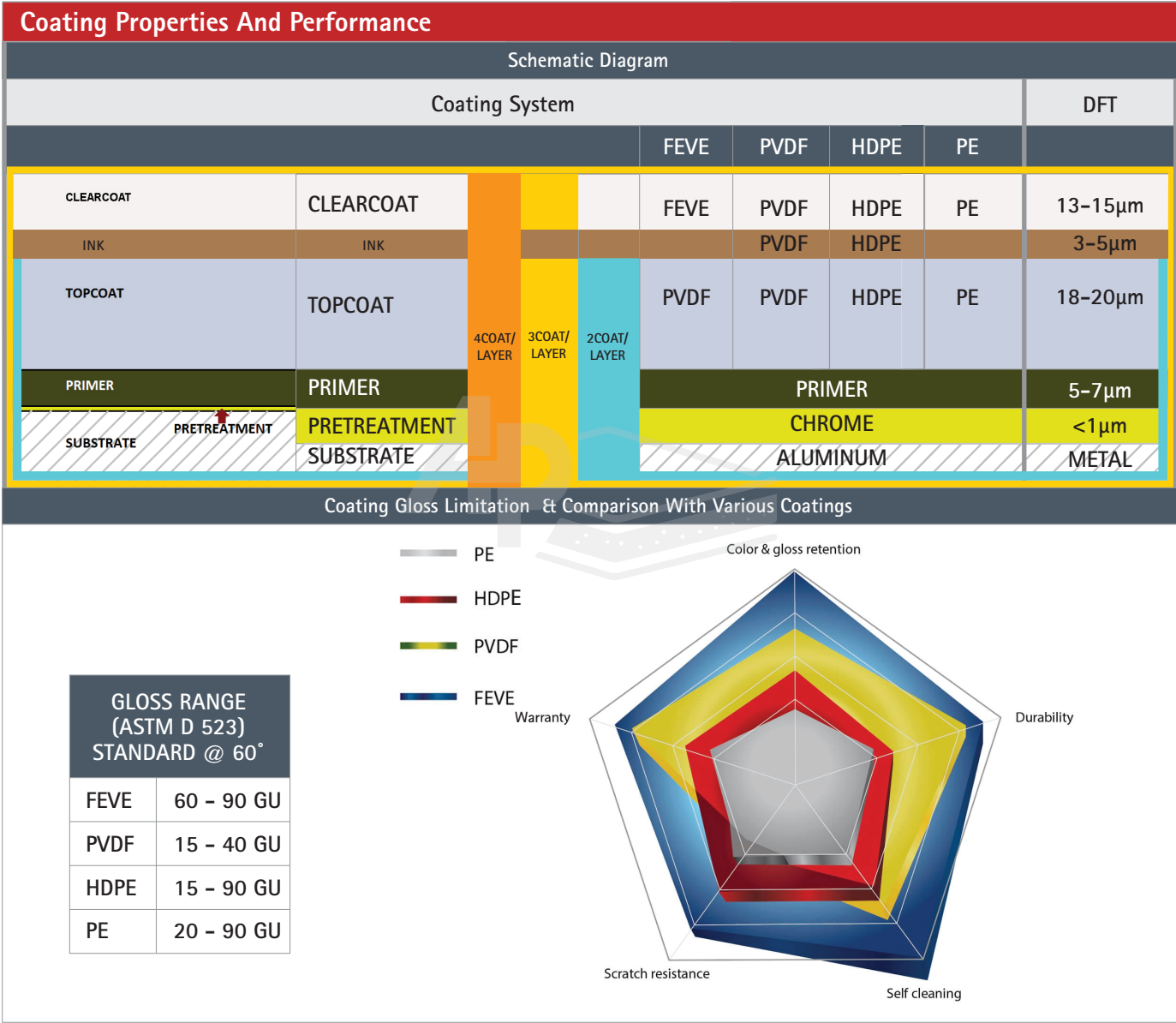
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Coating Properties And Performance (Bottom/Service Coat)			
	Test Standard	Requirement	Result
Dry Film Thickness	ASTM D 7091	5-7 µm	6 µm
Coating Flexibility T-bend Test	ASTM D 4145	2T	2T
Solvent Resistance Test	ASTM D 4752	Bearable @ 50X Rubbing	> 50 DR
Film Adhesion Test by Crosshatch	AAMA 2605; ASTM D3359-09e2	No Removal of Paint	PASSED
Film Adhesion Test by Boiling Water	AAMA 2605	No Removal of Paint	PASSED
Backside Printing Information & Direction		As per Material Description	PASSED
Coating type			Polyester

Important Note: Backside of the panels are pre-coated and may come in different colors to embellish the surface Appearance because the back of the cladding is not meant for display purposes.



REPORTS ARE BASED ON THE AVERAGE ANALYSIS RESULT