

EVO PI285

BUILDING ENVELOPE SOLUTIONS

NFPA 285 WALL SOLUTION



etalbond® FR
COMPOSITE MATERIALS

	standards	units		
Panel Nominal Thickness		In	0.157	0.236
Min Bond Strength	ASTM D1781	In-lb/in	22.9	22.9
1. PANEL DIMENSIONS				
1.1 Aluminium layer thickness		in	0.01968	
1.2 Etalbond nominal Weight		lb/ft²	1.5	2.15
1.3 Max. Standard width		in	49.212, 59.055	
1.4 Standard length		in	125.984	
2. PANEL TOLERANCES				
2.1 Panel thickness		in	0.0079	
2.2 Panel width		in	-0.00 / +0.157	
2.3 Panel length		in	≤ 157.48 in: -0.0 / +0.157 157.52 -236.22 in: -0.0 / +0.236 236.26- 314.96 in: -0.0 / +0.394	
2.4 Diagonal difference		in	0.118	
3. TECHNICAL PROPERTIES				
3.1 Moment of Inertia		in³/in	0.308	0.758
3.2 Section modulus		in³/in	2.39 x10 ⁻³	3.92 x10 ⁻³
3.3 Tensile strength (Rm)	ASTM E8 /E8M-09	MPa lb/in²	151	
3.4 Yield strength (Rp0.2)	ASTM E8/E8M-09	MPa	130	
3.5 Elongation (A ₅₀)	ASTM E8/E8M-09	%	3.9%	
3.6 Linear Thermal Expansion		in/in/°F	1.31 x 10 ⁻⁵	
4. SURFACE PREPARATION and PAINT CHARACTERISTICS				
4.1 Surface Preparation		With chemical preparation (Degreasing, Passivation)		
4.2 Lacquering		Coil Coating		
4.3 Visible Surface		PVDF-3 / FEVE-3: 38 µm (Depending on Colour shade), Tolerances according to EN 1396. Comply with AAMA 2605. PVDF-2 / FEVE-2: Target 30 µm (Depending on Colour shade), Tolerances according to EN 1396. Comply with AAMA 2605.		
4.4 Back Surface		Protective Primer		
5. TEMPERATURE BEHAVIOUR				
5.1 Excellent behaviour in temperatures		From -20°C to +80°C		
6. SURFACE QUALITY				
6.1 Dents, marks, hits, grooves, stains etc.		Acceptable when not visible at a distance ≥2 m at an angle of 90°		
7. FIRE CLASSIFICATION				
Flame Spread Index	ASTM E84	5	5	
Smoke Developed Index		15	10	
Flash Ignition Temperature	ASTM D1929	878 °F	-	
Self Ignition Temperature		878 °F	-	
Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components (Intermediate Scale Multi-story test)	NFPA 285	4 Hours rated*	NA	
(*) The test is not relevant for metallic cladding materials				

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AP™ Foil-Faced Polyiso Foam Sheathing provides continuous insulation for maximum efficiency, as well as exceptional moisture, heat and air control. It features a reflective foil facer on one side and a nonreflective facer on the other.



PROPERTY	UNITS	TEST METHOD	RESULT
Thermal Resistance, 1 inch	°F-ft²-hr/BTU	ASTM C5181	6.0
Compressive Strength	psi	ASTM D1621	≥ 16
Flexural Strength	psi	ASTM C203	≥ 40
Water Absorption	% by volume	ASTM C209	0.1
Water Vapor Permeance	perms	ASTM E96	0.05
Air Barrier	L/(s-m²)	ASTM E2178	< 0.02
Mold Resistance	rating	ASTM D3273	10, no defacement
Sound Transmission Class for R-5 to R-13	STC	ASTM E90	34-55²
Surface Burning Characteristics			
Flame Spread	index	ASTM E84	≤ 25
Smoke Developed	index	ASTM E84	≤ 450
Service Temperature	°F		-100 to 250

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