

IMPACT RESISTANCE BY DUPONT METHOD

		ALUMICLAD PE		
		DENT DEPTH (x10 ⁻² IN)		
STEEL BALL	HEIGHT	3MM .118"	4MM .157"	6MM .236"
1.10 lb	20 in	6.30	5.51	3.15
2.20 lb	12 in	7.87	6.69	3.93
2.20 lb	20 in	10.23	9.05	5.90

BOND INTEGRITY

			ALUMICLAD PE		
			TOTAL THICKNESS		
PROPERTY	UNIT	ASTM	3MM .118"	4MM .157"	6MM .236"
Vertical Pull	psi	C-297	1906	1806	1664
Drum Peel	in-lb/in	D-1781	33.6	33.6	33.6
Flatwise Shear	psi	C-273	1259	1225	1195

ENGINEERING PROPERTIES

			ALUMICLAD PE		
			TOTAL THICKNESS		
PROPERTY	UNIT	ASTM	3MM .118"	4MM .157"	6MM .236"
Aluminum Thickness	in	-	.020	.020	.020
Specific Gravity	-	-	1.52	1.38	1.23
Weight	lbs/ft ²	-	0.93	1.12	1.50
Coefficient of Expansion	in/in/°F	D-696	13x10 ⁻⁶	13x10 ⁻⁶	13x10 ⁻⁶
Thermal Conductance	BTU/hr/°F/ft ²	C-1363	12.29	10.75	8.53
Tensile Yield Strength	psi	E-8	8321	6429	4466
Tensile Strength	psi	E-8	8747	6913	4978
Elongation	%	E-8	12.1	13.5	17.3
Flexural Elasticity	psi	C-393	7110x10 ³	5770x10 ³	4220x10 ³
Flexural Stiffness	psi	C-393	1.04x10 ⁹	1.99x10 ⁹	4.98x10 ⁹
Punching Shear Resistance					
Maximum Load	lbs	D-732	1847	1920	2121
Shear Resistance	psi	D-732	4950	4025	2816
Deflection Temperature	°F	D-648	231.8	231.8	231.8
Sound Transmission Coefficient	STC#	E-90	25	26	26

SURFACE TREATMENTS

Standard Alumiclad PE with a polyethylene core is available in the following finishes: FEVE (LUMIFLON™) with a wide color and gloss range and PVDF, both fluoropolymer finishes tested to meet AAMA 2605, polyester, and class 1 anodized. Other available Alucalad finishes include Stone and Timber Series and Reflective Finishes (RF).

STANDARD PANEL SIZES

50" x 146"	62" x 146"
50" x 196"	62" x 196"

RANGE OF SIZES

Width 32.5"–62" (826mm – 1575mm)
Length 6'–24' 2" (1829mm – 7315mm)

PRODUCT TOLERANCE

Width:	± 0.08" (2mm)
Length:	± 0.16" (4mm)
Thickness:	3mm: ± 0.008" (0.2mm)
	4mm: ± 0.008" (0.2mm)
	6mm: ± 0.012" (0.3mm)
Bow:	maximum 0.5% of length and/or width
Squareness Maximum	0.2" (5mm)

Alumiclad PE material is trimmed and squared with cut edges to offer the best panel edge conditions in the industry

FIRE PERFORMANCE

Standard Alumiclad PE with a polyethylene core has been tested by independent testing laboratories using the following nationally recognized fire tests.

ASTM E84

Flame spread:	3mm	05
	4mm	00
	6mm	00
Smoke developed:	3mm	15
	4mm	00
	6mm	10

ASTM E108 MODIFIED

	4mm	passed
	6mm	passed

ASTM D1929

Flash:	4mm	716°F
Ignition:	4mm	752°F

ASTM D635

Rate of burning:	4mm	Classified CC1
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ASTM E162

Flame spread:	4mm	0
		listed

UL-879

UL-94	3mm	V-O rating
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