



Technical Data Comparisons

	larson® by Alucoil®	Alpolic (by Mitsubishi)	Alucobond (by 3A composites)	Reynobond (by Alcoa)
Composition:				
Aluminum Skin	3105 H25	3105 H14	AA3000	3105 H25
Thickness	.020"	.020"	.020"	.020"
Core Material	Extruded LDPE	Extruded LDPE	Extruded LDPE	Extruded LDPE
Thickness	.117"	.117"	.117"	.117"
Lamination Tie Layer	Heat Activated Film	Heat Activated Film	Heat Activated Film	Heat Activated Film
Panel Weight (lbs/ft ²)	1.16	1.12	1.12	1.12
Core Density (lbs/ft ³)	54.5	57.4	65	57.4
Sizes:				
Standard Widths	50",62"	50",62"	50",62"	50",62"
Standard Lengths	96",122",146",196"	96",122",146",196"	96",122",146",196"	96",122",146",196"
Tolerances:				
Width	-0 + .08"	+/- .08"	-0 + .188"	-.032" + .062"
Length	-0 + .12"	+/- .16"	-0 + .375"	-0 + .250"
Thickness	+/- .008"	+/- .008"	+/- .008"	+/- .004"
Squareness	.16"	.20"	.25"	.125"
Test Data:				
Minimum Peel Strength ASTM D1781 (in-lb/in)	>30.0	33.6	22.5	40
Coeff. of Thermal Expansion ASTM 696 (in/in/oF)	1.1 x 10 ⁻⁵	1.31 x 10 ⁻⁵	1.18 x 10 ⁻⁵	1.31 x 10 ⁻⁵
Insulating Value ASTM C518 (hr.ft ² .oF/BTU)	0.14	0.09	0.049	0.051
Heat Deflection Temp D648 (oC)	196	232	260	
Shear Through Resistance D732 (psi)	4502	4000		
Tensile Strength of Skin E8 (psi)	8100	6900	6180	6405
Steiner Tunnel Test ASTM E84 Smoke <450, Flame <25	Passed Class A	Passed Class A	Passed Class A	Passed Class A
Warranty:				
Panel Warranty (bonding)	10	10	5	5
Finish Warranty (paint)	30	30	30	30

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