

Alubond
U.S.A
Lite

Display Aluminum

Composite Panels



Alubond U.S.A Lite

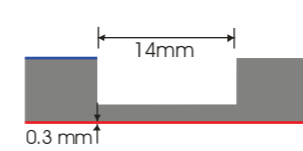
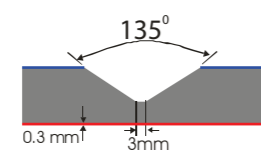
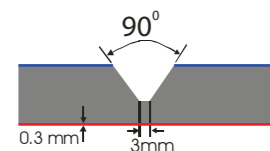
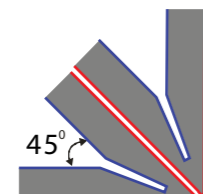
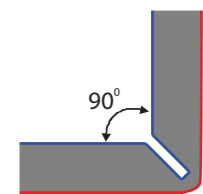
Alubond Lite is a specialized display aluminum Composite panel developed for corporate identity signage's and display applications. It consists of two layers of aluminum skins in varying gloss levels of 30 to 80% sandwiching a polyethylene or fire rated core. The top surface has a mill finish or stove enameled structural lacquering system. The unique feature of Alubond Lite is the Double Color Combo Series. This has a standard range of two sided paint finishes in Red-Yellow, Green-Blue, and Ivory-Black. Also custom ordered double sided colored panels can be supplied. The product carries the ISO 9001 quality certification and tested to ASTM, DIN and BS certifications from reputed international laboratories of U.K., Germany and U.S.A

APPLICATIONS

Some of the popular Alubond Lite applications are:

- Petrol Stations
- Retail Outlets
- Interior and Exterior Signs
- POP Displays
- Exhibition stands
- ATM machines
- Channel letters
- Commercial Vehicle
- Interior linings
- Truck Bodies
- Elevators
- Kiosks
- Stair wells
- Ceiling and Partition panels

FOLDING & ROUTING TECHNIQUES



V shaped groove for 90° folding

V shaped groove for 45° folding

V shaped groove for Folding up to 150°

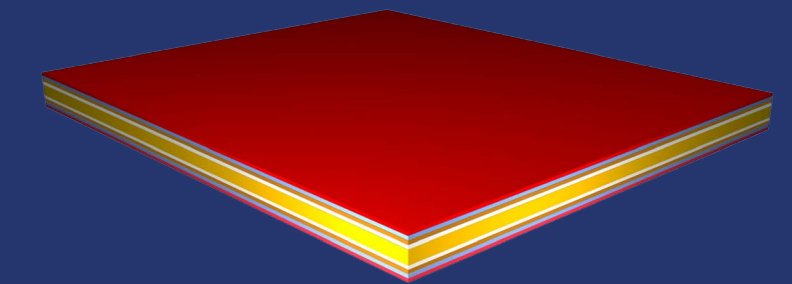
PRODUCT ADVANTAGES

- ◆ **LIGHT WEIGHT:** Alubond Lite only weights 3.8 kgs / m² for the standard 3 mm thickness panels
- ◆ **FLATNESS & RIGIDITY:** The composite structure of Alubond Lite gives it a highly rigid and superior flatness as compared to any other signage or facade materials resulting in an optically flat panel
- ◆ **EXTENSIVE CHOICE:** The vivid range of colors and the possibility of varying gloss levels up to 80% makes Alubond Lite an exciting choice for corporate identity programs
- ◆ **MAINTENANCE:** Alubond Lite panels are easy to clean and maintain due to its antistatic properties and do not attract dust
- ◆ **COLOR COMBO SERIES:** It is available in standard range of double colored panels of Red - Yellow, Green - Blue and Ivory - Black Different Combination of double colored panels can be custom ordered in gloss level of up to 80%

TECHNICAL DATA

- ◆ **COATING:** PVDF / PUPA / SOLAR COOL COATING
- ◆ **PANEL DIMENSIONS**
 - Thickness: 2mm and 3mm
 - Width: 1220 mm, Available widths: 1000, 1250 and 1500mm
- ◆ **BASIC ALLOYS:** AA 1100, 3003, 3105, 3005 and 5005 (chemical composition EN 573-3 Standard)
- ◆ **PHYSICAL STATE:** H44, H46 (in accordance with EN 485-2 Standard)
- ◆ **DIMENSIONAL TOLERANCES:** Width: ± 2.0 mm, Thickness: ± 0.2 mm, Length: ± 3.0 mm, Squareness: ≤ 5 mm
- ◆ **PROTECTIVE FILM FEATURES:** 80 micron UV treated PE Film

PRODUCT COMPOSITION



- STOVE LACQUERED POLYESTER LACQUERING SYSTEM
- EPOXY RESIN PRIMER
- CHROMATE TREATMENT
- ALUMINUM SKIN
- P.E. OR FIRE RATED MINERAL CORE 3MM
- ALUMINUM SKIN
- CHROMATE TREATMENT
- EPOXY RESIN PRIMER
- MILL FINISH OR STOVE LACQUERED POLYESTER LACQUERING SYSTEM

Description	Reference Standard	UoM	Alubond STANDARD 3mm		
			Alloy 1100	Alloy 3105	Alloy 5005
Weight	--	Kg/m ²	4.5	4.7	
Mechanical Properties					
section modulus(W)	DIN 53293	cm ³ /m	1.62	1.7	1.75
Rigidity	DIN 53294	KN cm ² /m	2300	2320	2400
Modulus of Elasticity	EN 1999 1-1	N/mm ²	68900		
Tensile Strength of Aluminum	EN 485-2	N/mm ²	Rm = 130 ~ 165	Rm = 150 ~ 200	Rm = 145 ~ 185
0.2% Proof Stress	EN 485-2	N/mm ²	Rpo ≥ 115	Rpo ≥ 120	Rpo ≥ 110
Elongation	EN 485-2	%	A50 ≥ 2	A50 ≥ 3	A50 ≥ 3
Linear Thermal Expansion	EN 1999 1-1	mm/m @100°C	2.36		2.4
Peel strength 180°	ASTM D 903	N/mm	Min. 7		
Core Properties					
Core	ASTM D 1238	--	Recycled LDPE		
Density	ASTM D792	gm/cm ³	0.92-0.94		
Hardness	ASTM D 2240	Shore D	55 - 65		
Color	--	--	Black		
Coating Properties					
Coating	AAMA 2605	--	PE		
Coating thickness	ECCA T1	µm	Min 16 µm		
Gloss	ECCA T2	%	20 - 80		
Pencil Hardness	ECCA T4	--	Min. HB		
Acoustical Properties					
Sound absorption factor	ISO 354	--	0.04	0.05	
Sound transmission Loss (Rw)	ASTM E90	dB	STC: 25 OITC: 22	STC: 30 OITC: 24	
Thermal Properties					
Thermal resistance R	ASTM C518	M ² K/W	0.007	0.009	
Temperature resistance	ASTM C518	°C	-50 - +80		
Corrosion and Chemical resistance					
Detergent Resistance	D 2248-89	--	No Change		
Mortar Resistance	D 3260-82	--	No Change		
Acid Resistance	D 1308-87	--	No Change		
Alkali Resistance	D 1308-87	--	No Change		
Humidity Resistance	ECCA T9	hrs	2000 hrs. No Change		
Salt Spray Resistance	ECCA T8	hrs	2000 hrs Passed		
Accelerated Weathering					
Color Retention	ECCA T3	units	Max. 5 units		
Gloss Retention	ECCA T2	%	80 %		
Chalking Resistance	ECCA T14	units	Max. 8 units		



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