



Alubond
U.S.A.
Lite



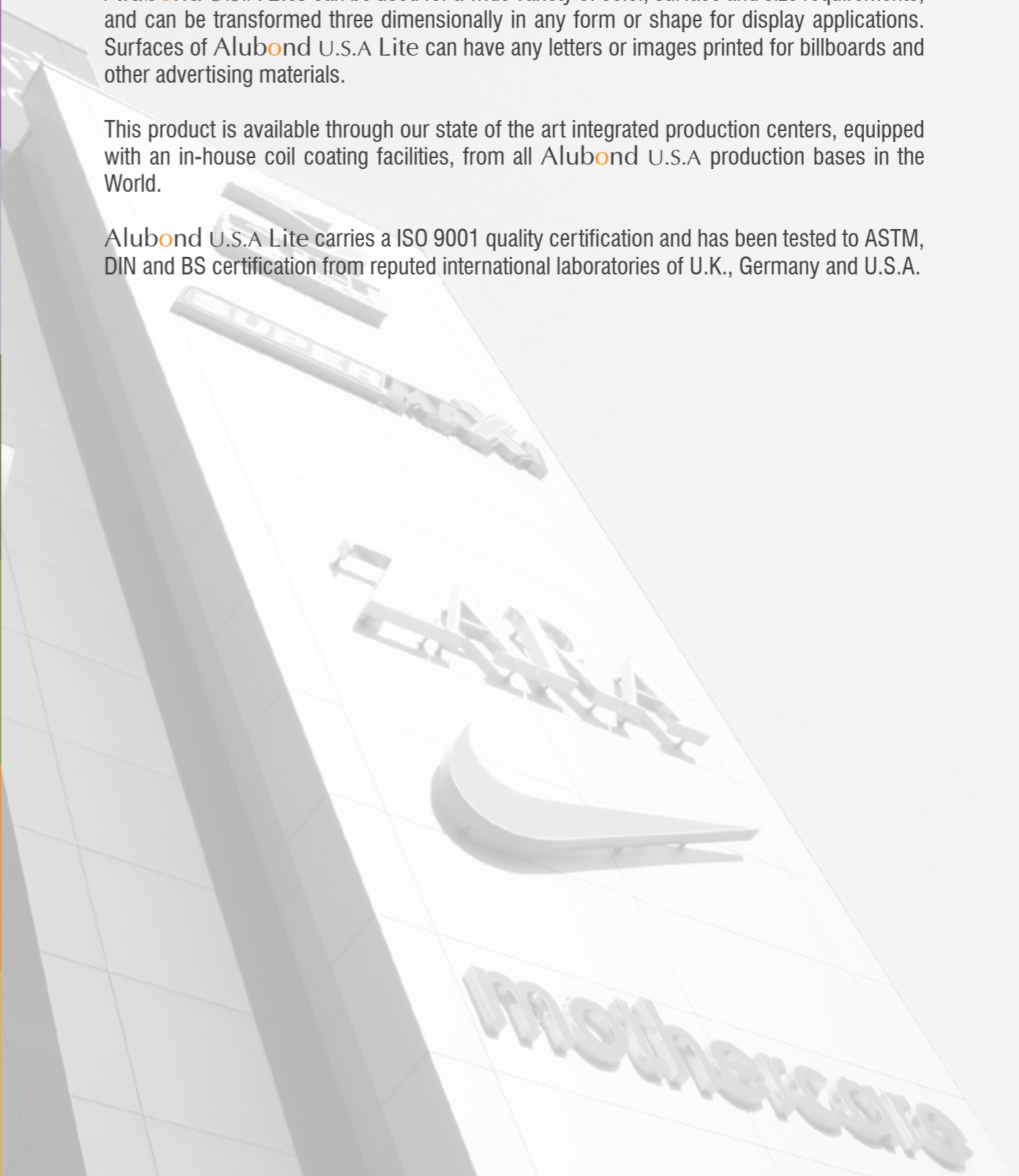
Alubond U.S.A Lite

Alubond U.S.A Lite is a specialized display aluminum Composite panel consisting of 0.3 mm aluminum skin layers on both sides sandwiching a polyethylene core, providing a light, flexible yet sturdy nature. The top surface has a mill finish or stove enameled structural lacquering system.

Alubond U.S.A Lite can be used for a wide variety of color, surface and size requirements, and can be transformed three dimensionally in any form or shape for display applications. Surfaces of Alubond U.S.A Lite can have any letters or images printed for billboards and other advertising materials.

This product is available through our state of the art integrated production centers, equipped with an in-house coil coating facilities, from all Alubond U.S.A production bases in the World.

Alubond U.S.A Lite carries a ISO 9001 quality certification and has been tested to ASTM, DIN and BS certification from reputed international laboratories of U.K., Germany and U.S.A.



SALIENT FEATURES

IMAGE PRINTING:

The surface of Alubond U.S.A Lite can have any letters or images printed for billboards and other advertising materials due to its flexible nature.

LIGHT WEIGHT:

Alubond U.S.A Lite weighs 3.8 kg / m for the standard 3 mm thickness panels. It is the lightest in the category, compared to full aluminum, PVC, steel and acrylic.

FLATNESS & RIGIDITY:

The composite structure of Alubond U.S.A Lite gives it a highly rigid and superior flatness as compared to any other signage or facade materials resulting in an optically flat panel.

GLOSSY FINISH:

Alubond U.S.A Lite is available at gloss levels up to 80%, making it an exciting choice for corporate identity applications.

MAINTENANCE:

Due to its nano composition, Alubond U.S.A Lite panels have a self cleaning effect and do not attract dust due to its anti static properties.

OUTDOOR APPLICATIONS:

Alubond U.S.A Lite is ideal for Outdoor application, due to low thermal expansion properties and is weather resistant in temperatures between -50 degree Celsius and +80 degree Celsius.

UV PROTECTION:

Alubond U.S.A Lite is equipped with a special 80 micron UV protected PE film. This prevents the Alubond U.S.A Lite from ageing in harsh weather conditions, particularly in exterior applications.



COLORS AND FINISHES

Alubond U.S.A Lite is available in a wide range of custom ordered and standard colors and finishes. The unique feature of Alubond U.S.A Lite is the Double Color Combo Series, providing a range of two sided paint colors and finishes to the customer. The standard double sided panels are: Platinum white gloss / mat, Platinum White / Light Ivory, Jet Black Gloss / Mat, Traffic Red / Traffic Yellow, Ultra Marine Blue / British Green, Jet Black / Light Ivory. Also, custom ordered double sided panels can be supplied.

DIMENSIONS

Alubond U.S.A Lite is ideal for large format printing and Large sized signs, and is available in standard lengths up to 4 m. Custom orders can be placed with available lengths up to 6 m. Alubond U.S.A Lite sheets maintain excellent and uniform flatness, even at high lengths.

PANEL DIMENSIONS	
Standard width	1250mm
Available width	1000 mm, 1500 mm, *1800 mm
Standard length	3200 mm, 4000 mm
Available thickness	2 mm, 3 mm, 4 mm
Available skin tickness	0.25 mm, 0.3 mm

PANEL TOLERANCE	
Length	± 4mm
Width	± 2mm
Thickness	± 0.2mm up to ± 4 mm, ± 0.3mm up to 6 mm
Bow (Length and/or width)	Maximum 0.8%
Squareness	Maximum 5 mm
Skin thickness	As per International Standards

*Order under special condition. For more info contact SALES.

Alubond U.S.A Lite COLORS



Platinum White



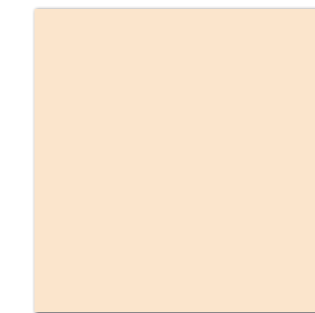
Traffic Red



Traffic Yellow



Ultra Marine Blue



Light Ivory



British Green



Jet Black



Metallic Aluminium



Mayan Gold Metallic



Butler Finish Silver



Butler Finish Gold

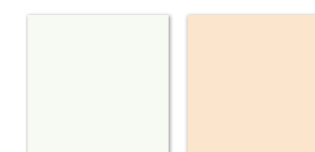


Butler Finish Copper

AVAILABILITY



Platinum white gloss / mat



Platinum White / Light Ivory



Jet Black Gloss / Mat



Traffic Red / Traffic Yellow



Ultra Marine Blue / British Green



Jet Black / Light Ivory

APPLICATIONS



BILLBOARDS

Alubond U.S.A Lite creates eye catching visuals for Billboards and makes for highly noticeable viewing. This has been made possible by its exceptional properties of stability, Printing and Weather resistance. Whats More, It is available in a wide variety of standard colors and finishes, and additionally, any custom color or finish you require. Over the Years, we have proudly been a part of Iconic brands on billboards all over the world !

IMAGE PRINTING

The surface of Alubond U.S.A Lite allows wide possibilities of Image printing and calligraphy. All types of letters and images can be juxtaposed on it, making a noticeable and yet a unique statement for the end user.

LARGE SIZED FACADES

Alubond U.S.A Lite has a low weight to surface area ratio, making it lighter and easy to handle for outdoor installations. At the same time, it maintains high dimensional stability even at large sizes. This is perfectly suited for large format printing, image mounting and advertising spaces.

WEATHER RESISTANT

Alubond U.S.A Lite is amply protected from varied temperature conditions and prevents damage due to sunlight, moisture and heat.



EXTERIOR SIGNAGE, PETROL STATIONS

Alubond U.S.A Lite is ideal for usage in Exterior Signage, Corporate Identity, Shop front and Petrol stations display in outdoor environment.

WEATHER

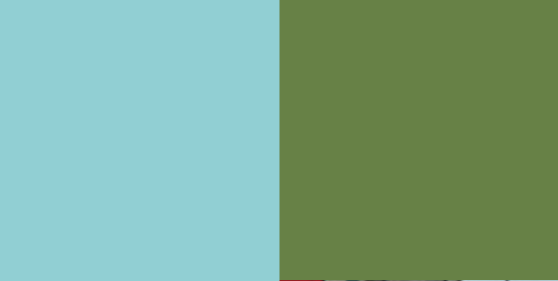
Alubond U.S.A Lite has been built with resistance to varying weather conditions from -50 degree Celsius to +80 degree Celsius, over long periods of time. It contains a special 80 micron UV protection film, preventing color change and ageing of the panels. It shows lower thermal expansion than plastics and has an equivalent degree of expansion as aluminum. It is also possible to have additional laminates for the sheets.

LOOK

It is available in a wide range of colors and finishes, at varying gloss levels. Moreover, this can be made available in large size sheets as well.

WEIGHT

Light and flexible Alubond U.S.A Lite sheets make it cost efficient and easy for the sheet transfer, and makes it easy for creating innovative designs.





INDOOR SIGNAGE

Alubond U.S.A Lite can be used in artistic applications like museums, exhibitions etc. Indoor applications such as Airports, Retail outlets, usage in direction signs, pylons and sign boards.

Alubond U.S.A Lite is a light yet sturdy material. Hence, it reduces cost of manpower, transport and results in the ease of on site processing. Alubond U.S.A Lite can be 3d processed to any shape or form as desired, due to its flexible nature.

Alubond U.S.A Lite maintains a flat and even surface, when it comes to printing and mounting applications, even at high lengths.

Due to Its easy folding and processing possibilities, it can be adjusted to fit and form and design with perfection.



CORPORATE IDENTITY, SHOP FRONTS

Alubond U.S.A Lite can be used for a wide range of advertising and brand visualization possibilities. Creative solutions like lacquering, laminating, mounting, printing and easy processing of the panels enables the customer to create wide, unique designs with a strong recall value. This is value added with a wide range of fixing profiles, accessories and LED lighting to provide the perfect look desired for the brand.

Alubond U.S.A Lite is resistant to harmful UV rays, high temperatures and provides an even and flat surface. It is available in a wide variety of colors and textures to bring the unique design to reality.

Any word or image can be screen printed on Alubond U.S.A Lite panels.



TECHNICAL SPECIFICATION

EXHIBITION DESIGN

Alubond U.S.A Lite due to its flexibility and easy processing nature, can be used for modular exhibition spaces. It is available for standard lengths up to 4 m, and hence, can be used for large sized areas, as well as small applications at the same time. Its availability in a wide range of colors and finishes, makes it possible to realize different kinds of design possibilities.

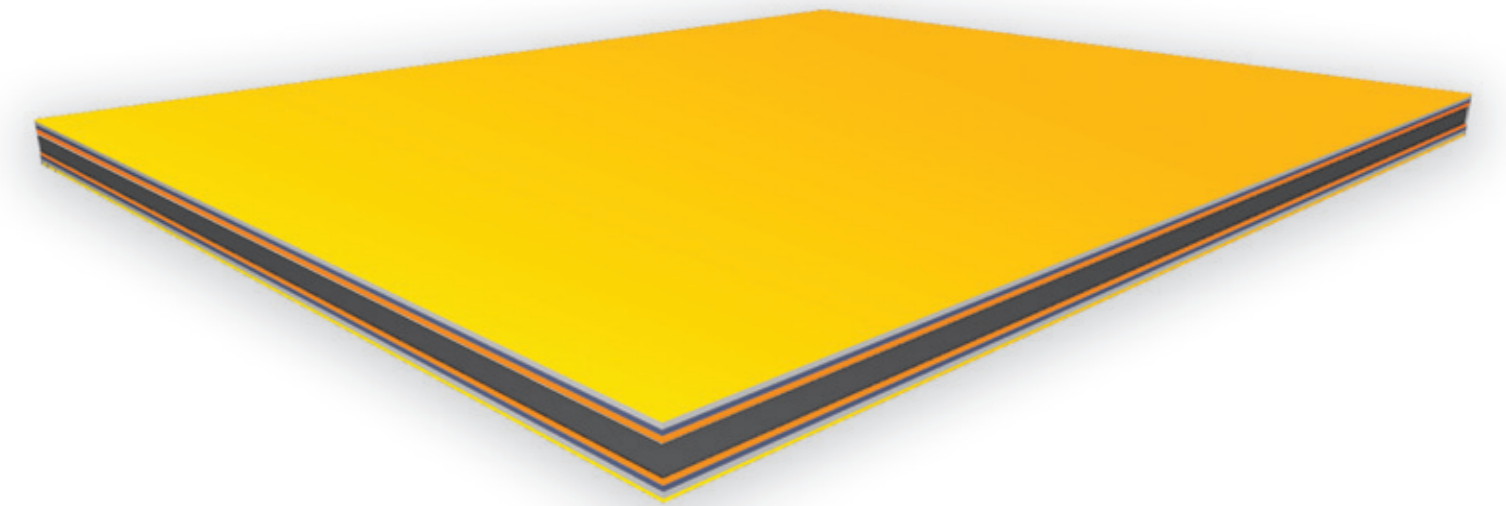
Due to its light weight, flexibility and easy processing nature, the materials can be easily transported and it is possible to size, process and install on site. Last minute design corrections are also possible on site.

OTHER APPLICATIONS

Alubond U.S.A Lite, due to its wide aesthetic appeal and easy processing nature, can also be used for shop fittings, display and POP material and furniture design.



PRODUCT COMPOSITION



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

Alubond U.S.A Lite is also available with fire resistant cores to protect the structure from any fire contingencies.



TECHNICAL DATA

COATING:

PVDF / PE / HDP / EPOXY

PANEL DIMENSIONS:

Thickness: 2 mm, 3 mm and 4 mm
Width: 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

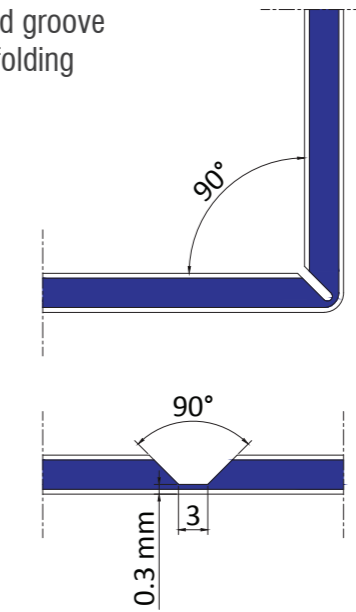
PROTECTIVE FILM FEATURES:

80 micron UV treated PE Film

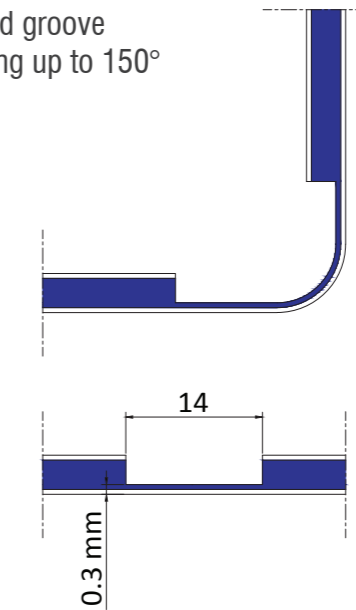
Description	Reference Standard	UoM	Alubond STANDARD 3mm		
			Alloy 1100	Alloy 3105	Alloy 5005
Weight	--	Kg/m ²	4.5	4.7	
Mechanical Properties					
section modulus(W)	DIN 53293	cm ³ /m	1.62	1.7	1.75
Rigidity	DIN 53294	KN cm ² /m	2300	2320	2400
Modulus of Elasticity	EN 1999 1-1	N/mm ²	68900		
Tensile Strength 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 at 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	μ m	Min 16 μ m		
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		

FOLDING AND ROUTING TECHNIQUES

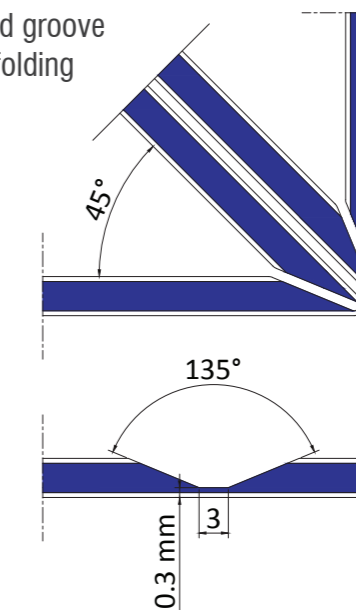
V shaped groove for 90° folding



V shaped groove for folding up to 150°



V shaped groove for 45° folding



Eurocon Building Industries F.Z.C
Mulk Holdings F.Z.C
P.O. Box 42642, Hamriyah Free Zone, Sharjah, U.A.E
Tel : + 971-6-5262202
Fax : + 971-6-5262203
E-mail : info@alubond.com

Alubond Middle East L.L.C
P.O. Box No. 30103, Al Jurf, Ajman, U.A.E
Tel: +971-6-5262202
Fax : +971-6-5262203
E-mail : alubondmiddleeast@alubond.com

Alubond DACS India (P) Ltd
Enpar House, Ambika Mills Compound,
Senpati Bapat Marg, Lower Parel,
Mumbai 400013, India
Tel: +91 22 4321 1400
Fax: +91 22 4321 14444
E-mail : alubonddacs@alubond.com

Alubond Europe doo
Nemanjina 130, 26320 Banatski Karlovac, Serbia
Tel | Fax: + 381 13 652 852
E-mail: info@alubondeurope.com

American Building Technologies Inc
6957 Olde Creek Road Rockford, Illinois 61114, U.S.A
Tel : 815 331 4121
Fax : 815 713 4525
E-mail: greeninfo@alubond.com

www.alubond.com
www.mulkholdings.com



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