

Alubond
U.S.A
SOLID
Solid Aluminum Panels

NON-COMBUSTIBLE

CLASS A1



Alubond U.S.A SOLID

Alubond U.S.A SOLID is the latest offering in high performance solid aluminum panel technology set to cater to the designer requirements of modern architectural facades. Alubond U.S.A SOLID is a Class A1 Non Combustible material and hence suitable in all Fire Rated Applications. Alubond's unique continuous coil coating process and choice of high strength alloys like 3003 and 5005 series has given a new performance dimension to the use of solid aluminum in Architectural Facades and Solid Metal Applications.

With a wide range of selection in PVDF coatings and Innovative Thermal Reflective Solar Cool Coatings, Alubond U.S.A SOLID offers aluminum panels of thickness 2mm & 3mm with the following attributes:

- Economical as compared to previous coated solid aluminum panels
- Perfectly flat façade panel
- Available in 3000 & 5000 alloy series
- PVDF / PUPA / Solar Cool Coating applied in 2, 3 or 4 coats.
- In line with Alubond U.S.A world class quality standards.
- 100% Recyclable and qualifies for LEED certified green buildings.

APPLICATIONS

Alubond U.S.A SOLID's array of colors and finishes combined with the inherent capability of forming different shapes and contours with durability and weather resistance makes Alubond U.S.A SOLID an Architect's Dream! Major Corporations and Multinational Companies have a definitive desire to make their structures an expression of a Personal Designer Statement. Alubond U.S.A becomes a natural choice to achieve this objective. The possible applications are limited only to the Architect's imagination...

Common applications of Alubond U.S.A SOLID are:

- Circular Columns
- Building Façades
- Wall Paneling Concepts
- Soffits and Beams
- Metal Ceilings and Partitions

PRODUCT INSTALLATION



R Type Digital Grooving Machine for Aluminum Solid Panels

Punching of Solid Panel Before Grooving

Grooving of Solid Panel

Grooved Solid Panel

Panel Ready to Install

End Product, Solid Panel Applied

PRODUCT ADVANTAGES

- LIGHT WEIGHT:** yet extremely rigid and flat resulting in an economical option for high quality building façades and interior cladding.
- WEATHER RESISTANCE:** Combined with high acoustics and thermal values
- NON COMBUSTIBLE:** High fire rating value, Class A1
- EXTENSIVE CHOICE:** of finishes including Metallic, Granite & Veneer.
- HIGHLY MALLEABLE:** High product flexibility, The panel can be fabricated into complex shapes and designs allowing the panel to have versatile applications.
- 100% RECYCLABLE:** Giving the building a high post usage value
- ALUBOND U.S.A SOLID GREEN:** Made using 75% Post Consumer Recycled content

TECHNICAL DATA

COATING: PVDF / PUPA / SOLAR COOL COATING

PANEL DIMENSIONS

Thickness: 1mm, 2mm and 3mm

Width: up to 1250 mm

BASIC ALLOYS: 3003/5005

PHYSICAL STATE: H42/H44/H46/H48 (in accordance with EN 485-2 Standard)

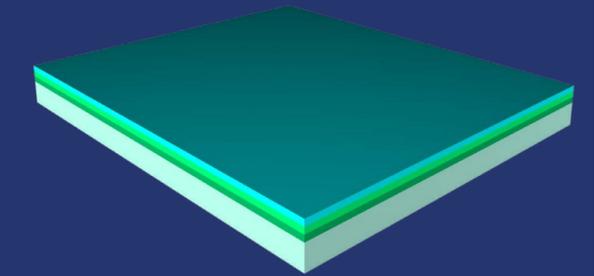
DIMENSIONAL TOLERANCES: Width: + 2.0, -0.0 mm, Thickness: ± 0.12 mm, Length: + 3.0, -0.0 mm, Flatness: 0.4 %, Squareness: ≤ 5 mm

CHEMICAL PRE-TREATMENT:

Mill finish aluminum coil is cleaned for dust, oil, grease etc with degreasing chemicals. After cleaning it is treated with chrome free conversion chemical like Zirconium to activate the surface for better adhesion and corrosion resistance.

PROTECTIVE FILM FEATURES: 80 micron UV treated PE Film

PRODUCT COMPOSITION



- PVDF or Equal (to customer's requirements)
- PRIMER
- TREATMENT
- ALUMINUM SOLID LAYER

Description	Reference Standard	Alubond U.S.A SOLID Properties	
Coating	AAMA6205/ECCA	70% Kynar 500 PVDF	PUPA
Coating thickness	ECCA T1	Min. 25 µm for two coat Min. 35 µm for three coat	
Gloss	ECCA T2	25 - 40 % for PVDF	20 - 80 %
Color Difference	ECCA T3	≤0.6 for Solid colors ≤1.0 for Metallic colors	
Pencil Hardness	ECCA T4	Min, HB	Min, H
Cross Hatch Test	ECCA T6	100% pass	
Reverse Impact	ECCA T5	50 Kg cm	
Solvent Resistance	ECCA T11	100 DR	
Abrasion Resistance	D 968-81	40 lit	
Flexibility T bend	ECCA T7	2 T No Peel off / No crack	1 T No Peel off / No crack
Scratch Resistance	ECCA T12	1 kg, Pass	
Taber Resistance	ECCA T16	1000cycles, 1 kg	< 20 mg
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	3000 hrs, NoChange	2000 hrs, No Change
Salt Spray Resistance	ECCA T8	3000 hrs, Passed	2000 hrs, Passed
Accelerated Weathering			
Color Retention	ECCA T3	Max. 5 units	
Gloss Retention	ECCA T2	80 %	
Chalking Resistance	ECCA T14	Max. 8 units	



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