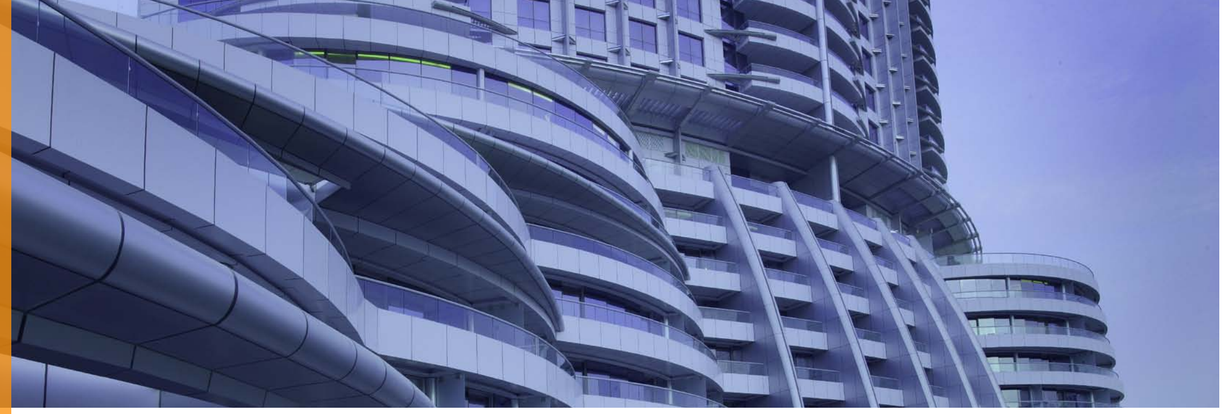
Alubond® U.S.A

Fire Rated Metal Composites

UNBEATABLE FIRE RESISTANCE



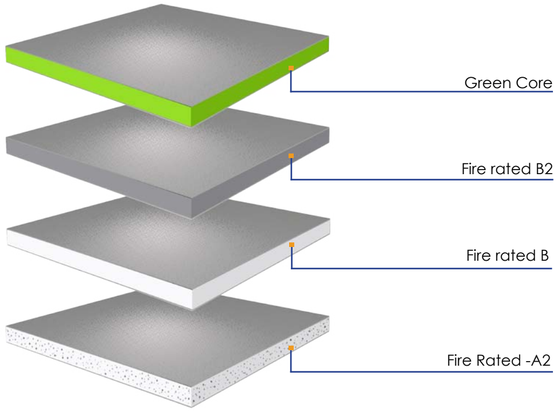
ALUBOND U.S.A

FIRE RATED METAL COMPOSITES

CREATING A SUSTAINABLE FUTURE

ALUBOND U.S.A is a metal composite panel consisting of two layers of a metallic skin like **Aluminum, Stainless Steel, Copper, Zinc, Titanium etc.,** sandwiching a fire rated core in a continuous co-extrusion process.

CORE SELECTIONS



Alubond U.S.A is a registered brand of American Building Technologies located in Rockford Illinois with production bases in Europe, Middle East and India. Alubond U.S.A is committed to a sustainable future and is now available in three fire rated cores and an innovative eco friendly green core.

Alubond U.S.A has emerged as The World's Largest ACP Brand with new expansions under progress in U.S.A, Russia, Saudi Arabia and Sri Lanka. The installed production capacity by June 2011 will be over 11,000,000 M^2 with 10 production lines and two coil coating lines.

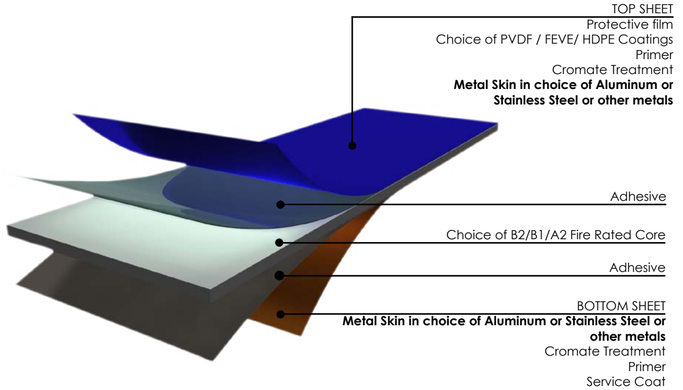
ALUBOND U.S.A

PRODUCT DETAILS

PRODUCT ADVANTAGES

- LIGHTWEIGHT, yet extremely rigid and flat resulting in an economical option for high quality building facades and interior cladding.
- WEATHER RESISTANCE combined with high acoustics, Thermal and Fire rated values.
- EXTENSIVE CHOICE of finishes including Solid, Metallic, Granite, Veneer, and Chameleon Colors.
- HIGHLY MALLEABLE gives flexibility of shapes making it a versatile panel to achieve complex design solutions.

PRODUCT COMPOSITES



PANEL DIMENSIONS

STANDARD WIDTH	1250mm
AVAILABLE WIDTH	1000 mm, 1500mm, 1800 mm
STANDARD LENGTH	3200 mm, 4000 mm
AVAILABLE LENGTH	Custom order upto 11000 mm
AVAILABLE THICKNESS	3mm , 4mm , 5mm, 6mm
AVAILABLE SKIN THICKNES	0.3mm - 0.5mm

* Note : FR A2 Max Width 1500 mm

PANEL TOLERANCE

LENGTH	± 4 mm
WIDTH	± 2 mm
THICKNESS	± 0.2 mm upto 4 mm, ± 0.3 mm upto 6 mm
BOW (LENGTH AND OR WIDTH)	Maximum 0.8%
SQUARENESS	Maximum 5 mm
SKIN THICKNESS	As per International Standards

- BUILDING FAÇADE
- CEILINGS AND INTERIORS
- SOLAR MIRRORS
- ACOUSTIC COVERS
- BATHROOMS
- YACHT INTERIORS
- CAR PARK GRILLS
- TRANSPORT
- FIRE RATED DOORS

ALUBOND U.S.A APPLICATIONS

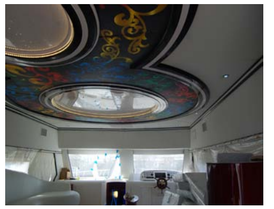
BUILDING FACADE

CEILINGS AND INTERIORS

SOLAR MIRRORS

ACOUSTIC MACHINE COVERS

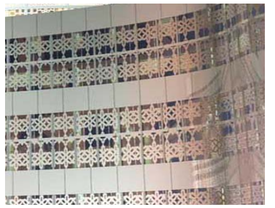
BATHROOMS



YACHT INTERIORS

FIRE RATED DOORS

TRANSPORT



CAR PARK GRILLS

Alubond's array of colors and finishes combined with the inherent capability of forming different shapes and contours with durability and weather resistance makes Alubond an Architect's Dream. Major Corporations and Multi National Companies have a definitive desire to make their structures an expression of Personal Designer Statement. Alubond U.S.A becomes a natural choice to achieve this objective. The possible applications are limited to the architect's imagination. The versatility of Alubond U.S.A Metal composite panels allow the product to have conventional as well as Exotic Applications.

ALUBOND U.S.A

WORLD WIDE PROJECTS

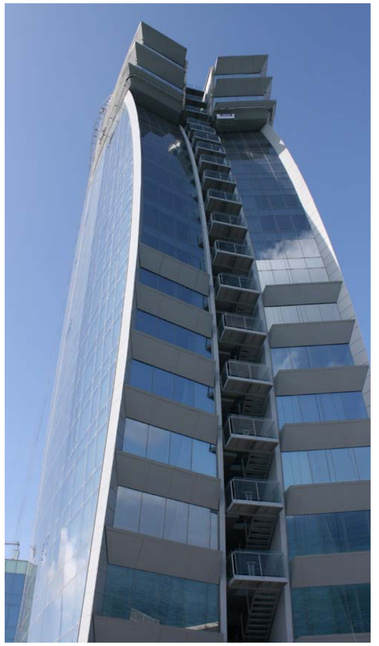
ALUBOND U.S.A has been the face of iconic projects Worldwide extensively specified by World Renowned Architects as their choice for exterior façades and interior ceilings and wall linings. The tallest tower in the world Burj Khalifa by Skidmore, Owings and Merrill (SOM), The Address Hotel by W.S Atkins, The Formula One Yas Island by Burt Hill, Index Tower by Sir Norman Foster, Infosys Training Centre by Hafiz Contractor, International Airports of Dubai, Sharjah, Hyderabad, Mumbai, Cairo, Sharm Al Sheik, Khartoum by Dar Al Handasah and other International Architects are some of the selected project references.

Burj Khalifa, UAE
Skidmore, Owings and Merrill (SOM)

Sharm El Sheikh Airport, Egypt
Dar Al Handasah

Address Hotel, Dubai
WS Atkins

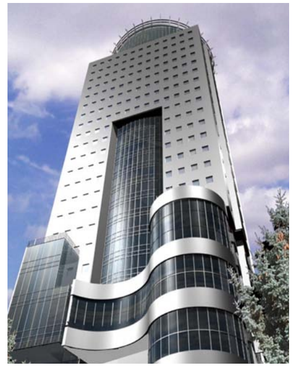
Infosys Training Centre
India



The Wella Hotel
Spain

QIPCO Tower
Qatar

ADOC
Serbia



Negor Tower
Ghana

F1 Yas Island, Abu Dhabi
Burt Hill

Index Tower, UAE
Foster & Partners

ALUBOND U.S.A
STAINLESS STEEL SERIES

Alubond U.S.A offers an option for stainless steel Composite Panels (SCP) using three type of coil finishes: Brushed Hairline, Dull and High Mirror. They are designed to provide sophisticated look to exterior and interior cladding, accenting natural beauty and metal shade of stainless steel. This composite also maintains flatness, rigidity combined with light weight and easy fabrication which are necessary features for advanced architectural and technical designs

MATERIAL COMPOSITES

Alubond U.S.A Stainless Steel Composite Panel is made of fire rated core, sandwiched between stainless steel sheets in grade 304 or 316 in thickness 0.3 mm. For exterior usage, top and bottom coils are both in stainlesssteel. For interior applications, economical options of aluminum, Aluzinc, Galvanized Steel as bottom skin in combination of stainless steel on the top is available.

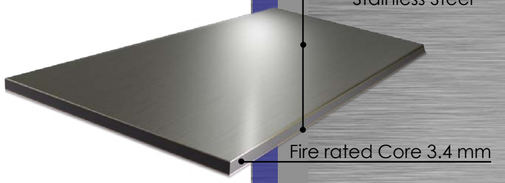
MATERIAL SPECIFICATION

CORE	Fire Rated Core
SKIN FINISHES	High Mirror, Brushed Hairline, Dull Finish
STEEL ALLOY	304, optional 316

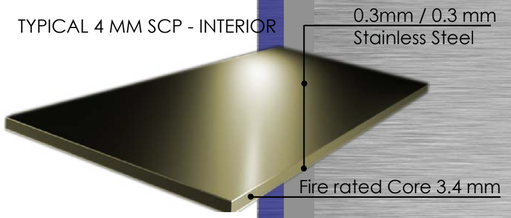
PANEL DIMENSIONS

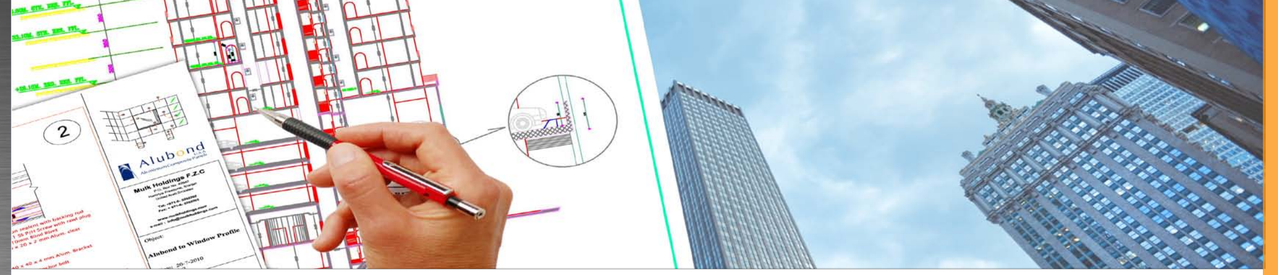
WIDTHS	980 mm, 1200 mm
LENGTHS	Any length upto 6000 mm
Skin Thickness	0.3 mm and 0.4 mm

TYPICAL 4 MM SCP - EXTERIOR



TYPICAL 4 MM SCP - INTERIOR





ALUBOND U.S.A
TOTAL SOLUTIONS

ALUBOND U.S.A Total solution concept is designed to offer a complete Turnkey package of engineering, supply and installation of Alubond U.S.A Fire rated Metal Composites / Alubond U.S.A Solid Aluminum panels using an open joint silicon free ventilated Substructure system with a full system warranty of 15 years.

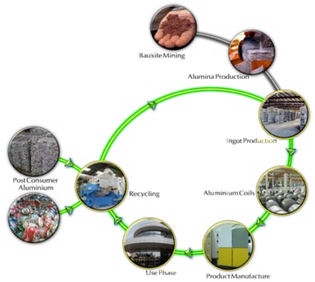
The Total Solutions concept includes services from façade engineering, onsite building survey, engineering drawings of project specific fixing details, structural analysis of full system of panels with ABTI substructure, fabrication of panels and substructure, supply of full system including accessories to site, installation services by approved installers, Alubond U.S.A approval of installed system and release of 15 years warranty for the full system.

ALUBOND U.S.A Green

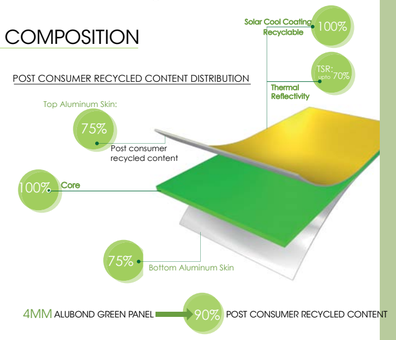
The Eco-Friendly Composite Panel

THE ECO FRIENDLY COMPOSITE PANEL that focuses on minimizing a building's CARBON FOOTPRINT significantly contributiing to the SUSTAINABILITY of a building structure.

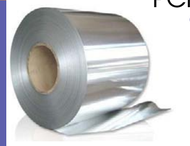
PRODUCT CYCLE



PANEL COMPOSITION



PCR – POST CONSUMER RECYCLE CONTENT

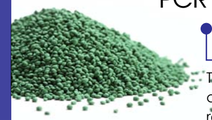


ALUMINUM

The Aluminium used in the Alubond U.S.A Green façade panel consists of up to 75% post consumer recycle content. Sources of the PCR content vary from used beverage cans to recycled aluminium bales.

During the production of raw material maximum PCR percentage is targeted with a strict focus on quality control of the final product to ensure sustainability and quality are achieved hand in hand.

PCR – POST CONSUMER RECYCLE CONTENT



LDPE

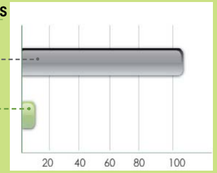
The source of the Core in the Alubond Green Panel is an inhouse plastic recycling facility with an annual capacity of 15,000 Tons production to cater to Alubond Green's core raw material requirements. The state of the art facility located at Bureimi, Oman and independently located on site recycling units at Alubond U.S.A production facilities convert used plastic to sustainable building panels.

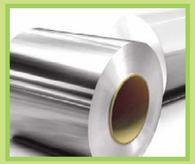
The core formula is perfected to maximize quality while using recycled plastic content, the final product adhering to Alubond's global quality standards.

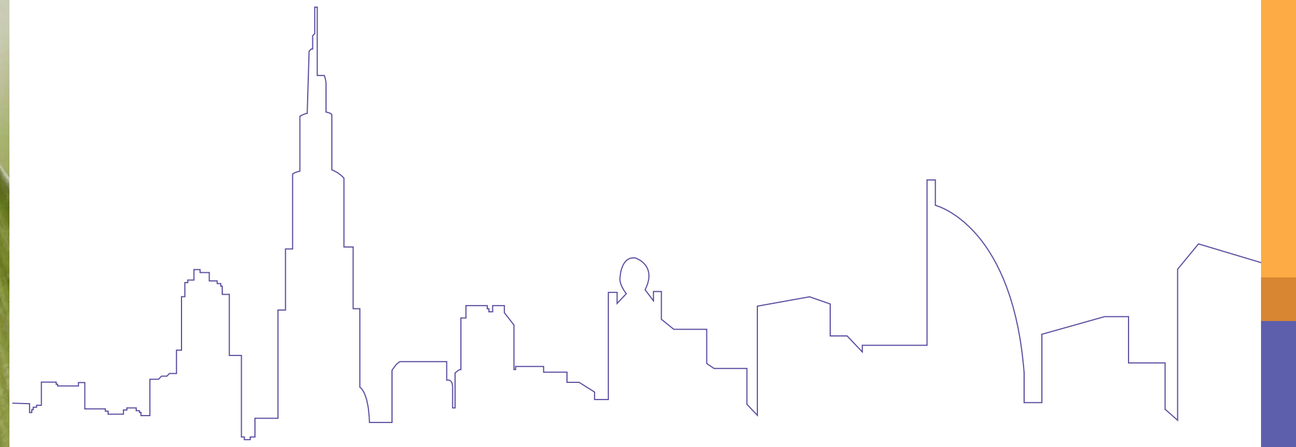
ENERGY CONSUMPTION ANALYSIS

STANDARD ACP
TOTAL = 110.95 KWH/M2

ALUBOND GREEN
TOTAL = 9.03 KWH/M2







Alubond®
U.S.A
Fire Rated Metal Composites

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