Reynobond®
Architecture

Natural Metal Composite Materials

ALCOA

Dedicated to your Success

Reynobond®
Architecture

Naturally beautiful and long lasting

Product Information

When you want to make a design statement, Reynobond is the natural choice, allowing you the flexibility to achieve whatever your mind can conceive.

Natural Metal Panels are ideal for:

- **Interior Wall Panels**
- **Exterior Wall Panels**
- **Interior Accents**
- **Exterior Accents**

Invite Mother Nature to be part of your next project with Reynobond Natural Metal composite panels. These unique composite panels provide all the functional benefits of Reynobond with the clean, aesthetic impact that can come only from nature's finest elements. Reynobond Zinc, Copper, Titanium, Stainless Steel and Natural Brushed Aluminum composite panels allow you to incorporate curves, angles and other design elements not possible with heavy plate and sheet. It's the same Reynobond you have come to trust. Only now, it's au naturel.

Reynobond ZCM

Made with a titanium-zinc alloy that's stronger than common zinc, ZCM allows you to specify a pre-weathered zinc panel with the flatness and benefits of ACM. This innovative product ages naturally in the environment. It greatly expands the number of architectural applications where zinc façades and accents may be used.

Product Basics

Thickness	4 mm
Core	Fire-Resistant (FR)
Skin Thickness	0.028" (0.7 mm)
Skin Alloy	RHEINZINK,® Titanium Zinc (Ti < 1%, Zn > 99%, Cu < 1%)
Skin Finish	Pre-Weathered
Available Width	39.37" (1000 mm)
Maximum Length	243" (6172 mm)
Weight	FR Composite 2.99 lb/ft^2
Coefficients of Thermal Expansion *ASTM E228*	Longitudinal 12.2 x 10^{-6} in/in/ºF Transverse 9.4 x 10^{-6} in/in/ºF

Performance & Application Basics

- Pre-weathered zinc is a self-healing material – it naturally develops a protective zinc carbonate layer or patina as it ages. Scratches and imperfections seem to melt away as the patina develops, giving a rich gray-blue hue to the metal.
- Zinc is a non-corrosive, environmentally friendly natural product with a 100%-clear water runoff.
- ZCM can be installed with fasteners and extrusions made of aluminum, stainless steel and galvanized steel.
- ZCM is very flexible in design application. It can be used in modern urban districts or in historic settings where a natural surface is desired to blend into the surroundings.

Shania Twain Centre,

Reynobond Copper

Created specifically for use as an interior or exterior wall accent panel, Reynobond Copper blends the natural beauty of copper with the flatness and formability of composite panels. This timeless metal lends a classic look to any architectural project.

Product Basics

Thickness	4 mm
Core	Polyethylene (PE) or Fire-Resistant (FR)
Skin Thickness	0.019" (0.48 mm)
Skin Alloy	Copper 110 G2
Skin Finish	Natural mill finish
Available Width	36" (914 mm)
Maximum Length	243" (6172 mm)
Weight	PE Composite 2.54 lb/ft^2 FR Composite 3.05 lb/ft^2
Coefficients of Thermal Expansion *ASTM E228*	Longitudinal 14.39 x 10^{-6} in/in/ºF Transverse 9.56 x 10^{-6} in/in/ºF

Performance & Application Basics

- Reynobond Copper is created specifically for use as an interior or exterior wall accent panel, providing the flatness and formability of Reynobond at a lighter weight than heavy-gauge copper sheet and plate.
- Reynobond Copper forms a natural green patina, transforming its bright natural finish to a distinguished, classic look.
- Reynobond Copper should be installed only with fasteners and extrusions made of stainless steel or copper.
- Special machining and fabrication guidelines need to be taken into consideration due to the unique metallurgical properties of copper.

Reynobond Titanium

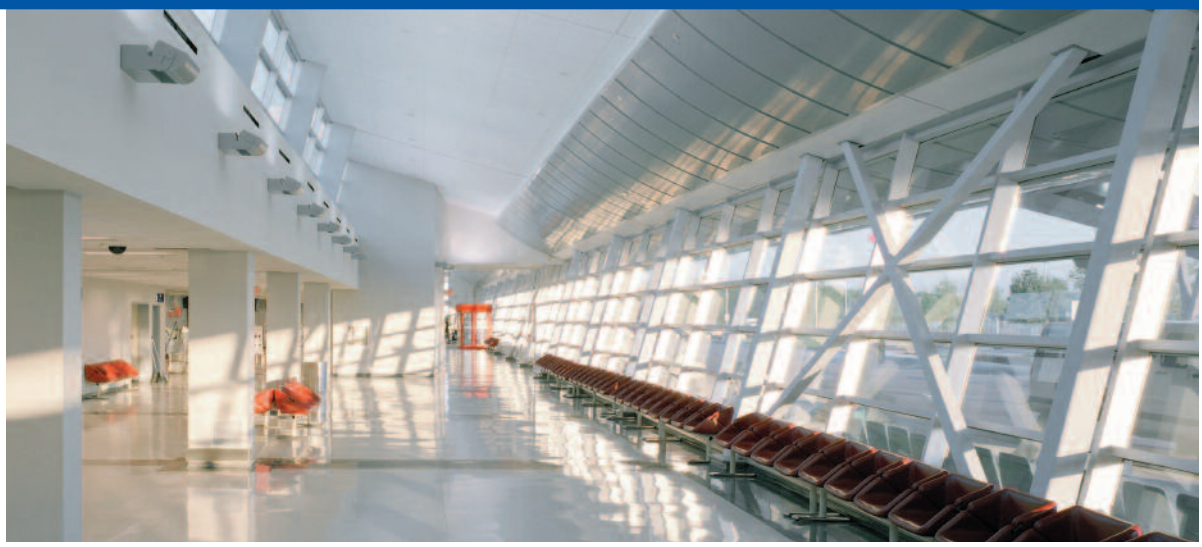
Combines an exceedingly strong and exotic natural metal finish with the flatness and formability of composite panels. Nothing communicates strength and longevity like a titanium wall or accent panel.

Product Basics

Thickness	4 mm
Core	Polyethylene (PE) or Fire-Resistant (FR)
Skin Thickness	0.012" (0.3 mm) 0.016" (0.4 mm) Titanium 0.018" (0.46 mm) Stainless Steel
Skin Alloys	Top: Commercially pure Titanium (TIMETAL® 35A, ASTM B265 Grade 1) Bottom: 430 Alloy Stainless Steel
Skin Finish	BA Titanium natural finish
Available Width Maximum Length	39.37" (1000 mm), 48" (1220 mm) 243" (6172 mm)
Weight	PE Composite 1.68 lb/ft^2 FR Composite 2.10 lb/ft^2
Coefficients of Thermal Expansion *ASTM E228*	5.8 x 10^{-6} in/in/ºF

Performance & Application Basics

- Reynobond Titanium allows architects to capture the unique look and feel of titanium while taking advantage of the superior flatness and design possibilities inherent in Reynobond.
- Titanium is composed of one sheet of commercially pure titanium and one sheet of 430 alloy stainless steel permanently bonded to an extruded thermoplastic or fire-resistant core.
- Reynobond Titanium utilizes TIMET titanium and is available in the BA natural finish. Other special finishes such as G1 and A1 are available on special request and subject to extended lead times. Please inquire with your Alcoa rep for specific details.
- Reynobond Titanium can be fabricated to accommodate the most challenging design elements, from flat or curved panels to complex geometric designs.
- Titanium is an inert, highly corrosion-resistant metal and can be installed utilizing fasteners and extrusions made of aluminum, stainless steel and galvanized steel.



London Ontario Airport,
Flynn Canada

Reynobond Stainless Steel

With its clean, bold look, Reynobond Stainless Steel brings a modern feel to any environment – and provides a superb contrast to wood and other natural elements. It offers extreme formability at a weight much lighter than traditional plate steel.

Product Basics

Thickness	4 mm
Core	Polyethylene (PE) or Fire-Resistant (FR)
Skin Thickness	0.018" (0.45 mm) 26 gauge
Skin Alloy	304 standard; 316 L available per request
Skin Finish	#4 Brushed
Available Width	48" (1220 mm)
Maximum Length	243" (6172 mm)
Weight	PE Composite 2.60 lb/ft^2 FR Composite 3.11 lb/ft^2
Coefficients of Thermal Expansion *ASTM E228*	9.2 x 10^{-6} in/in/ºF

Performance & Application Basics

- Compared with stainless steel plate, stainless steel composite offers increased formability and lighter weight, greatly expanding design possibilities and facilitating installation and handling.
- Stainless steel is a neutral metal and can be installed with fasteners and extrusions made of aluminum, stainless steel or galvanized steel.
- Reynobond Stainless Steel utilizes heavier gauge sheet compared to competitive stainless steel composite products, giving it greater dent resistance and making it more suitable for areas prone to hailstorms or heavy pedestrian traffic.
- Due to the extreme toughness of stainless steel, special fabrication guidelines need to be taken into consideration.

Reynobond Natural Brushed Aluminum

Reynobond Natural Brushed Aluminum combines the natural beauty of brushed aluminum with a high-performance protective sealant to meet the consistency and durability requirements of architectural exterior wall panels.

Product Basics

Thickness	4 mm
Core	Polyethylene (PE) or Fire-Resistant (FR)
Skin Thickness	0.020" (0.50 mm)
Skin Alloy	3105 H25
Skin Finish	#4 Natural Brushed Aluminum *(an Alcoa Product)*
Durabrite® C, Sealant	10-year interior/exterior performance guarantee
Available Width	50" (1270 mm)
Maximum Length	243" (6172 mm)
Weight	PE Composite 1.12 lb/ft^2 FR Composite 1.63 lb/ft^2
Coefficients of Thermal Expansion *ASTM E228*	13.1 x 10^{-6} in/in/ºF

Performance & Application Basics

- Reynobond Natural Brushed Aluminum combines the beauty of brushed aluminum with a Durabrite C clear protective sealant and a 10-year exterior performance guarantee, making it ideal for exterior architectural wall panel applications.
- The Durabrite C high-performance sealant will not yellow under UV light exposure and impedes the staining and corrosion consistent with anodized and bare aluminum surfaces.
- Reynobond Natural Brushed Aluminum is practical for interior applications since it resists fingerprints.
- Reynobond Natural Brushed Aluminum is an Alcoa product from mining the bauxite; to rolling, brushing and coating the aluminum coils; to the manufacturing of Reynobond; every step is performed and controlled by Alcoa.

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