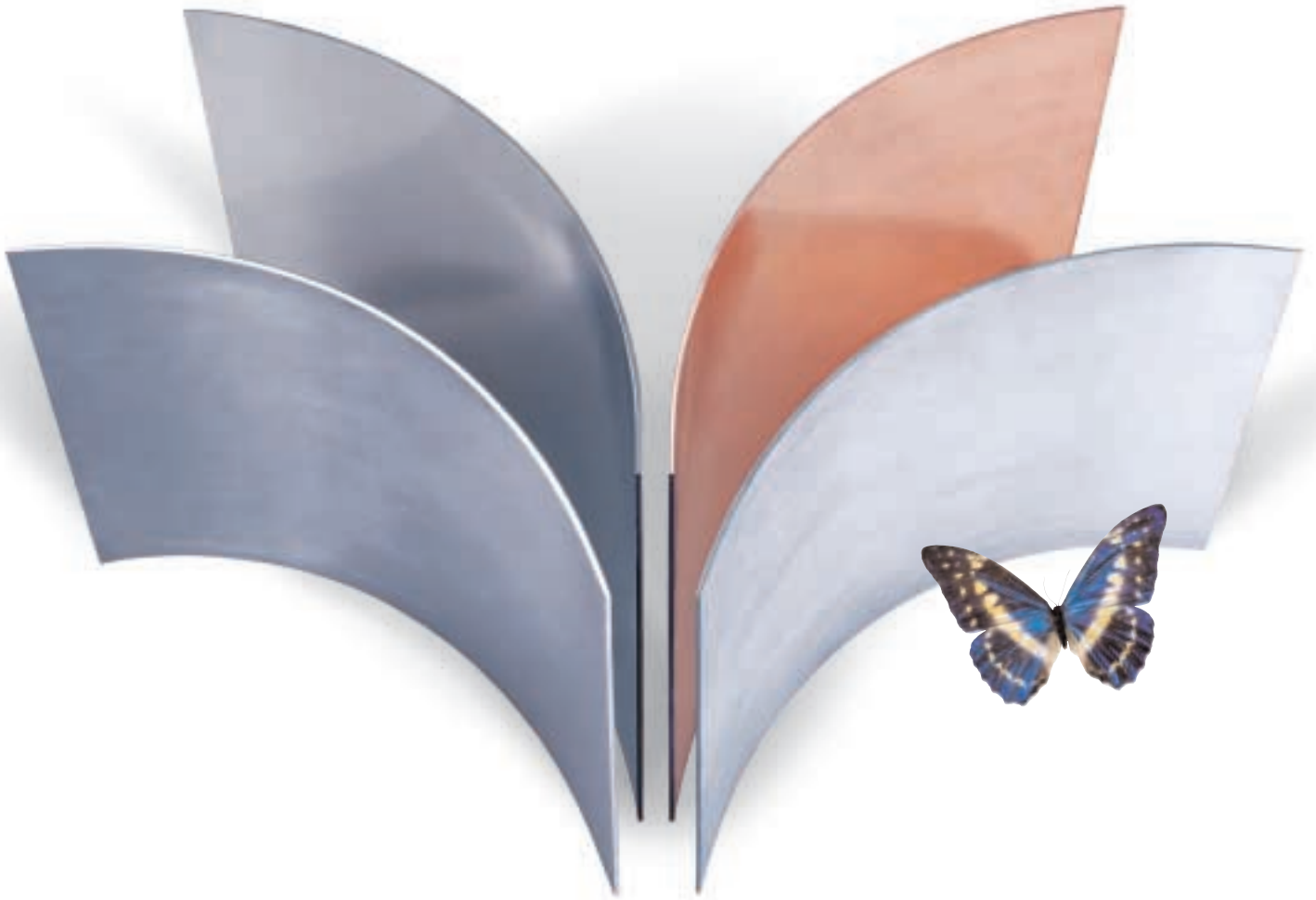


Reynobond® Natural Metal  
Composite Materials





# Naturally Beautiful. 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 only come from nature's finest elements. Reynobond Zinc, Copper, Natural Brushed Aluminum and Stainless Steel 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 natural.

**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 all the benefits of ACM. This innovative product ages naturally in the environment. It greatly expands the number of architectural applications where zinc facades and accents may be used.

### Product Basics

Thickness	4mm
Core	FR Fire Resistant Core
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)
Coefficients of Thermal Expansion ASTM E228	Longitudinal 12.2 x 10 <sup>-6</sup> in/in/°F Transverse 9.4 x 10 <sup>-6</sup> in/in/°F

### 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 grey-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.

**Reynobond Natural Brushed Aluminum.** The newest member of the Reynobond family 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	4mm
Core	PE or FR Fire Resistant Core
Skin Thickness	0.020" / .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)
Coefficients of Thermal Expansion ASTM E228	13.1 x 10 <sup>-6</sup> in/in/°F

### 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 as it resists fingerprints.
- Reynobond Natural Brushed Aluminum is an Alcoa product from mining the bauxite, rolling, brushing, and coating the aluminum coils, to the manufacturing of Reynobond; every step is performed and controlled by Alcoa.



**NATURAL METAL PANELS  
ARE IDEAL FOR:**

Interior Wall Panels

Exterior Wall Panels

Interior Accents

Exterior Accents

**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.

**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*

<b>Thickness</b>	<b>4mm</b>
<b>Core</b>	<b>PE or FR Fire Resistant Core</b>
<b>Skin Thickness</b>	<b>0.019" / .48 mm / 16 oz</b>
<b>Skin Alloy</b>	<b>Copper 110 G2</b>
<b>Skin Finish</b>	<b>Natural Mill Finish</b>
<b>Available Width</b>	<b>36" (914mm)</b>
<b>Maximum Length</b>	<b>243" (6172 mm)</b>
<b>Coefficients of Thermal Expansion</b> ASTM E228	<b>Longitudinal <math>14.39 \times 10^{-6}</math> in/in/°F</b> <b>Transverse <math>9.56 \times 10^{-6}</math> in/in/°F</b>

*Product Basics*

<b>Thickness</b>	<b>4mm</b>
<b>Core</b>	<b>PE or FR Fire Resistant Core</b>
<b>Skin Thickness</b>	<b>0.018" / .45 mm / 26 gauge</b>
<b>Skin Alloy</b>	<b>304 standard; 316 L available per request</b>
<b>Skin Finish</b>	<b>#4 Brushed</b>
<b>Available Width</b>	<b>48" (1220 mm)</b>
<b>Maximum Length</b>	<b>243" (6172 mm)</b>
<b>Coefficients of Thermal Expansion</b> ASTM E228	<b><math>9.2 \times 10^{-6}</math> in/in/°F</b>

*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 only be installed 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.

*Performance & Application Basics*

- Stainless steel allows designers to capture a clean and bold look with a modern feel, providing a contrast to other materials in almost any environment.
- 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 hail storms or heavy pedestrian traffic.
- Due to the extreme toughness of stainless steel, special fabrication guidelines need to be taken into consideration.

For more information, visit [www.alcoaarchitecturalproducts.com](http://www.alcoaarchitecturalproducts.com).  
Or contact your Alcoa Architectural Products representative.



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