Reynobond® Aluminum Composite Material
Whether you’re an architect, engineer, designer, fabricator, installer or contractor, each new project presents a fresh set of challenges. And your ability to meet those unique challenges is how your clients measure your work. That’s why we are committed to finding new ways to help you achieve your vision with the beauty, affordability and ease of installation of Reynobond®.

Discover stylish and functional cladding solutions for both interior and exterior applications with our innovative products, including Reynobond Aluminum Composite Material, Reynobond Natural Metal Composite Material, Reynobond with KEVLAR® hurricane impact panels, Reynobond with EcoClean™, Reynobond Design Line, Anodized Reynobond and Reynolux®. And each of our product offerings provide the durability to ensure your project will look pristine for years to come—with minimal maintenance.

We’re constantly extending our range of support services, such as comprehensive CAD drawings, custom design solutions, on-site consultation and more. Discover how we can help expand your design possibilities with many versatile solutions for any project—from inspiration to implementation.
Reynobond® – Make a Statement.

**Exceptionally Flat**
The strong, rigid construction of Reynobond® composite material consists of a polyethylene or fire-retardant compound core between two sheets of aluminum, brushed aluminum, zinc or copper. This creates a flat surface that virtually eliminates dimpling, buckling and oil canning—even retaining its flatness after folding!

**Daringly Formable**
Achieve small-radius curves, reverse curves, angles, tessellated geometric shapes and other contours you never thought possible. Reynobond is easily routed, drilled, punched, cut, bent, curved and formed.

**Distinctively Colorful**
Get outstanding color and gloss retention in a virtually limitless range of hues. Standard and custom finishes are available, including anodic colors and even nature-inspired Design Line advanced polymer finishes. Continuous coil application ensures consistent, long-lasting color.

**Surprisingly Light**
The light weight of Reynobond allows a wide variety of design options, and installation is quick and easy. For renovation work, cladding can often be installed with little or no alteration to existing structural elements.

**Easily Integrated**
Reynobond integrates easily with the curtain wall provided by most manufacturers. The result is a seamless look for a building’s façade—with the added design characteristics that only Reynobond can offer.

**Beautiful Accents**
Reynobond’s family of Natural Metal products allows every component of the structure to become a design element. Reynobond’s strength, weight and formability allow you to achieve designs that are not feasible with other materials.

**A Perfect Match**
Reynolux® Aluminum Wall Panels and Flashing Sheets are the perfect complement to our family of Reynobond Aluminum Composite Material products. The ability to combine these high-quality products in pre-matched or custom colors gives you a number of distinct design advantages.

**Safe & Compliant**
Reynobond is designed and tested to meet safety and environmental building codes around the world. It is available with either a polyethylene (PE) core or a fire-resistant (FR) core material, both of which provide the flatness and formability required for your most demanding applications.
Get all the functional benefits of Reynobond® along with the aesthetic appeal of nature with our Reynobond Natural Metals. Our Brushed Aluminum, Zinc, and Copper composite panels give you bold options for interior and exterior walls and accents. And since it’s Reynobond, you get the flatness and formability you demand that may not be possible with other building products.

**Reynobond Natural Brushed Aluminum**

Reynobond Natural Brushed Aluminum combines the natural beauty of brushed aluminum with a high-performance protective coating to meet your consistency and durability requirements. It’s ideal for exterior architectural wall panel applications, and is fingerprint resistant, making it perfectly suited for interior applications.

**Reynobond Zinc Composite Material**

Made with a metal-zinc alloy that’s stronger than common zinc, ZCM weathers naturally with no coatings required – scratches and imperfections melt away over time. It greatly expands the number of architectural applications where zinc façades and accents can be used on your building’s envelope.

**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. With a natural green patina that develops over time, Reynobond Copper lends a classic look to any architectural project.

When you combine the benefits of Reynobond® with the impact-resistant strength of KEVLAR® you get the first and only aluminum composite panel system that eliminates the need for protective heavy backer materials such as plywood, steel or concrete behind the panel system. DuPont™ KEVLAR® is five times stronger than steel on an equal weight basis, making Reynobond with KEVLAR® the only standalone aluminum composite material that meets the stringent requirements of the Miami-Dade County Building Code. It’s the only light, flexible aluminum composite panel that can withstand hurricane-propelled debris and similar types of impact.

Reynobond with EcoClean™ – Innovation for a greener, cleaner planet.

EcoClean™ is an advanced titanium dioxide coating that, when applied to Reynobond, reacts with NOx (nitrogen oxide), the primary component of smog, breaking it down into harmless nitrates. This proprietary process enables the slightest bit of moisture, such as light rain or morning dew, to wash away organic particles. EcoClean™ is a photocatalytic coating that also destroys organic pollutants in reaction with UV light. Architects and building owners who are looking for positive ways to impact the environment and keep building surfaces looking fresh over time will find Reynobond with EcoClean™ the smart, innovative way to combine form with function.

Reynobond Face Fastened Solution – Utility meets style.

Now you can get all the durability, versatility and flexibility of Reynobond in an economical face fastened solution. It’s perfect for new and retrofit projects less than 40 feet (three stories) high. Since it can withstand extreme temperatures and humidity, there are no geographic limitations on where Reynobond Face Fastened Solution can be used. And it’s 100% recyclable.

Colorweld® 500 – High-performance color that lasts.

Reynobond Aluminum Composite Material is protected and colored with enhanced, high-performance Colorweld® 500 coatings, the premier architectural coatings for metal. These finishes feature 70% Kynar 500®/Hylar 5000® polyvinylidene fluoride (PVDF) resins with Fluoropolymer technology, coil coated to ensure the highest color uniformity and quality. They provide excellent flexibility and film adhesion for forming and offer superior resistance to humidity, impact, salt spray, pollution and abrasion. With a 30-year finish warranty, Colorweld 500 coatings exhibit outstanding color and gloss retention and improved hardness and durability.


Now you can enjoy the aesthetic appeal of wood, mineral, granite, stone and natural patina with the durability, flexibility and strength of Reynobond in our nature-inspired Design Line finishes. These striking advanced polymer finishes create endless design possibilities, for both interior and exterior applications. All Design Line coatings are exterior grade and are backed by a 20-year finish warranty.

Anodized Reynobond – Beauty that’s much more than skin deep.

Discover a harder, smoother surface with superior resistance to abrasion and corrosion with our Anodized Reynobond. This environmentally friendly product features an inorganic anodic coating that fully integrates with the aluminum for total bonding and is unaffected by ultraviolet rays. Anodized Reynobond is available in a variety of standard and custom colors.

Innovation Meets Functionality.
### Reynobond® ACM Technical Overview

<table>
<thead>
<tr>
<th>Property</th>
<th>Units</th>
<th>RB120PF-3 mm</th>
<th>RB160PF-4 mm</th>
<th>RB240PF-6 mm</th>
<th>RB160FR-4 mm</th>
<th>Reynobond® with KEVLAR®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>in/mi</td>
<td>0.118</td>
<td>0.167</td>
<td>0.236</td>
<td>0.157</td>
<td>0.157</td>
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<tr>
<td>Weight</td>
<td>lbf/ft</td>
<td>0.94</td>
<td>1.12</td>
<td>1.51</td>
<td>1.53</td>
<td>1.10</td>
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<tr>
<td>Bending Stress</td>
<td>Mpa</td>
<td>4.59</td>
<td>5.47</td>
<td>7.37</td>
<td>7.48</td>
<td>5.27</td>
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<tr>
<td>Min. Bond Strength</td>
<td>lbf/in</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Flatwise Shear</td>
<td>Mpa</td>
<td>1.297</td>
<td>1.221</td>
<td>2.055</td>
<td>928</td>
<td>735</td>
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<tr>
<td>Allowable Bonding Stress (1)</td>
<td>Mpa</td>
<td>11,500</td>
<td>11,500</td>
<td>11,500</td>
<td>11,500</td>
<td>11,500</td>
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<tr>
<td>Coefficient of Expansion E228</td>
<td>in/in°F</td>
<td>1.31x10⁻³</td>
<td>1.31x10⁻³</td>
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<td>1.31x10⁻³</td>
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<tr>
<td>Stiffness (E9)</td>
<td>Mpa/cm/m</td>
<td>807</td>
<td>1,140</td>
<td>1,806</td>
<td>1,282</td>
<td>776</td>
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<tr>
<td>Flexural Modulus</td>
<td>Mpa/cm³</td>
<td>8.3x10⁻⁴</td>
<td>4.5x10⁻⁴</td>
<td>6.7x10⁻⁴</td>
<td>4.0x10⁻⁴</td>
<td>4.0x10⁻⁴</td>
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<tr>
<td>Moment of Inertia</td>
<td>Mpa/m³</td>
<td>0.159</td>
<td>0.310</td>
<td>0.751</td>
<td>0.310</td>
<td>1.08x10⁻⁶</td>
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<tr>
<td>Section Modulus</td>
<td>Mpa/m²</td>
<td>1.65x10⁻³</td>
<td>2.41x10⁻³</td>
<td>3.88x10⁻³</td>
<td>2.41x10⁻³</td>
<td>2.41x10⁻³</td>
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<tr>
<td>Tensile Yield</td>
<td>Mpa</td>
<td>8.300</td>
<td>6.405</td>
<td>6.423</td>
<td>3.317</td>
<td>15.700</td>
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<tr>
<td>Flatwise Tensile</td>
<td>Mpa</td>
<td>1.483</td>
<td>1.371</td>
<td>2.009</td>
<td>0.961</td>
<td>5.13</td>
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</tbody>
</table>

(1) Allowable stress may be increased by 33% for wind load.  
(2) Reynobond with KEVLAR® flex modulus fabric side up.

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### General Technical Data

#### Paint Finish Quick Specification Reference

<table>
<thead>
<tr>
<th>Material</th>
<th>Coefficient of Expansion E228</th>
<th>Bending Stress</th>
<th>Flatwise Shear</th>
<th>Allowable Bonding Stress</th>
<th>Coefficient of Expansion E8</th>
<th>Stiffness (E9)</th>
<th>Flexural Modulus</th>
<th>Moment of Inertia</th>
<th>Section Modulus</th>
<th>Tensile Yield</th>
<th>Flatwise Tensile</th>
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</thead>
<tbody>
<tr>
<td>RB120PE-3 mm</td>
<td>3 mm (S 118°C)</td>
<td>1220 mm (48&quot;)</td>
<td>1220 mm (48&quot;)</td>
<td>1220 mm (48&quot;)</td>
<td>1270 mm (50&quot;)</td>
<td>27.6x10⁻⁴</td>
<td>1.31x10⁻³</td>
<td>1.89x10⁻⁴</td>
<td>2.5x10⁻³</td>
<td>8.300</td>
<td>1.483</td>
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<tr>
<td>RB160PE-4 mm</td>
<td>4 mm (S 137°C)</td>
<td>1220 mm (48&quot;)</td>
<td>1220 mm (48&quot;)</td>
<td>1220 mm (48&quot;)</td>
<td>1270 mm (50&quot;)</td>
<td>27.6x10⁻⁴</td>
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<td>2.5x10⁻³</td>
<td>8.300</td>
<td>1.483</td>
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<tr>
<td>RB240PF-6 mm</td>
<td>6 mm (S 155°C)</td>
<td>1220 mm (48&quot;)</td>
<td>1220 mm (48&quot;)</td>
<td>1220 mm (48&quot;)</td>
<td>1270 mm (50&quot;)</td>
<td>27.6x10⁻⁴</td>
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<td>1.89x10⁻⁴</td>
<td>2.5x10⁻³</td>
<td>8.300</td>
<td>1.483</td>
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<tr>
<td>RB160FR-4 mm</td>
<td>4 mm (S 157°C)</td>
<td>1220 mm (48&quot;)</td>
<td>1220 mm (48&quot;)</td>
<td>1220 mm (48&quot;)</td>
<td>1270 mm (50&quot;)</td>
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<td>8.300</td>
<td>1.483</td>
</tr>
</tbody>
</table>

*Consult for program widths including: 1000 mm (39.3") 1200 mm (47.2") 1270 mm (50") 1296 mm (51") 1524 mm (52") 1575 mm (62")

### Building Code Recognition

- **Southwest Research Institute Design Listing**: No. 01.25000.02.197
- **IBC 2009**: MEA 75-91-M, MEA 390-99-M
- **ULC-ES AC25 Report**: Pending
- **State of Wisconsin Approval**: No. 990033-I
- **Miami-Dade N.O.A.***: No. 09-0625.01, No. 10-1114.05, No. 11-1102.01
- **Florida Product Approval**: FL1220 Validated
- **Canadian Fire Test**: CAN S134
- **Australian Building Authority**: No. 4131
- **MEI 390**: Malaysia, France
- **Poland**: Poland
- **Israel**

*The Miami-Dade County Building Code stipulates that panel systems withstand the impact of a 9-pound, 2x4 timber traveling at 50 feet per second.

### Safety/Class A Rating Per ASTM E84

<table>
<thead>
<tr>
<th>Material</th>
<th>Flame Spread</th>
<th>Smoke Developed</th>
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</thead>
<tbody>
<tr>
<td>Reynobond PE without Joint</td>
<td>PASS® CLASS A</td>
<td>PASS® CLASS A</td>
</tr>
<tr>
<td>Reynobond PE with Joint</td>
<td>PASS® CLASS A</td>
<td>PASS® CLASS A</td>
</tr>
<tr>
<td>Reynobond FR with Joint</td>
<td>PASS® CLASS A</td>
<td>PASS® CLASS A</td>
</tr>
</tbody>
</table>

*Flame spread < 25, smoke developed < 450.

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For a complete technical overview of all Reynobond products, visit reynobond.com.
Common Installation Methods

- Wet-Seal System
- Dry-Seal Installation System
- Rainscreen
- Face Fastened Solution
- Curtain Wall Glazed-In Panel
- Curtain Wall Flush Panel