

Arconic  
Architectural  
Products

Reynobond<sup>®</sup> Composite  
Material Brochure

**Transform. Create. Fascinate.**



**ARCONIC**

# Complete Versatility in Exterior Applications – with Reynobond® Composite Material.

Reynobond® composite panels consist of two coated aluminium sheets that are laminated to both sides of a fire-resistant (FR) core. Flatness, lightweight, minimal expansion, high corrosion and weather resistance are some of the advantages that make it an outstanding product. Please ask for the product datasheet for more information.

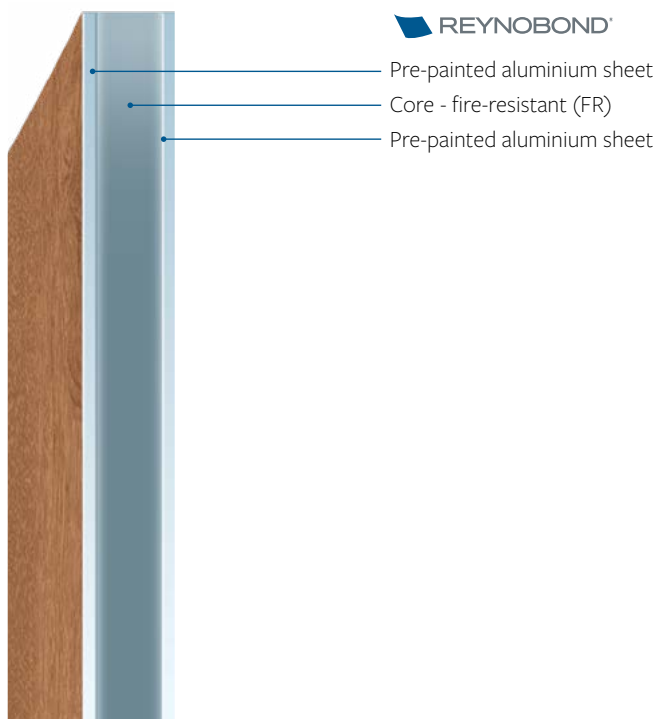
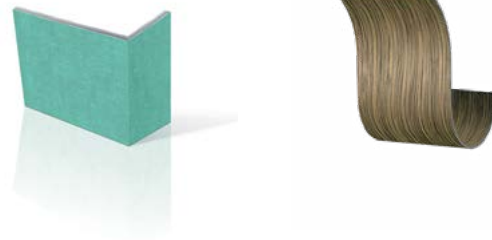
## Versatile and Easy to Fabricate.

Reynobond® composite panels enable flexibility in fabrication allowing freedom in design for unusual shapes.

## Reynobond® Composite Material

### FABRICATION

- Bending
- Rolling



### Advantages:

#### • Products:

- ✓ Cost-effective: easy and quick installation and maintenance
- ✓ Highly UV and weather resistant
- ✓ Warranty up to 30 years
- ✓ Easy to fabricate and bend: freedom in design for unusual shapes

#### • Service:

- ✓ In widths up to 62 in and lengths up to 360 in
- ✓ Flexible and short lead times for standard stocking items



Economical



Easy maintenance



UV resistance



30 years  
Warranty surface durability

## Paint Qualities & Technical Coatings

Good resistance to corrosion, UV and weathering, flexibility required for fabrication, and a wide range of colors are some of the advantages offered by our paint qualities. They come with a 20 or 30 year warranty.

- **Colorweld® 500/500XL:**

High-performing, coil-coated finishes that allow color matching at the highest uniformity and quality. They feature 70% Kynar 500®/ Hylar 5000® polyvinylidene fluoride (PVDF) resins with fluoropolymer technology, providing excellent flexibility and film adhesion for forming, with superior resistance to humidity, impact, salt spray, pollution and abrasion. Colorweld® 500/500XL paint is specifically developed for outdoor applications such as facades and roofing, both in the area of new buildings as well as refurbishment.

- **Duragloss® DL/PFX:**

A high-tech coating especially developed for architectural applications such as facades and roofs, both in the area of new buildings as well as refurbishment. These advanced polymer coatings provide a high resistance to aging, UV and corrosion making them an attractive option for large outdoor applications, which place exceptionally high demands on evenness in colors.

Ask for the paint datasheet for more information.

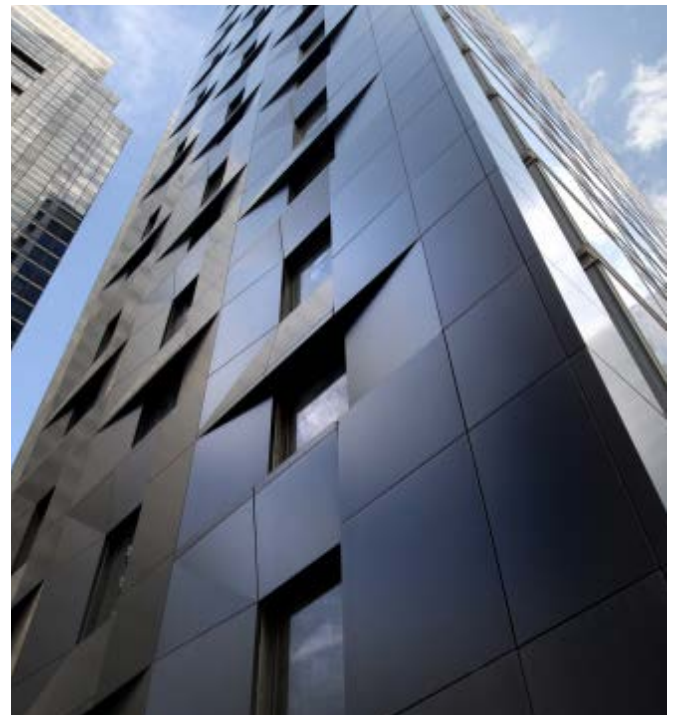


## Wide Range of Colors.

You can find all standard finishes in our color chart:

- **Colorweld® 500:** Solid, Mica, Metallic
- **DesignLine™:** Wood, Mineral, Patina, Stone, Concrete
- **PrismFX™:** Color Shifting
- **Colorweld® LF:** Brushed Aluminum
- **Colorweld® Brite:** Brite Mirror
- **Anodized:** Clear

Custom color matching also available.



# Technical Data Reynobond® Composite Material

| Products composition                          |   | Reynobond® FR   |
|---|---|---|
| Thickness composite panel                     |   | 0.157 in<br>4 mm  |
| Thickness pre-painted aluminium sheet         |   | 0.020 in (± 0.002 in)<br>0.5 mm (± 0.2 mm)  |
| Alloy & temper                                |   | Series 3000   |
| Core  |   | FR  |
| Front side finish                             |   | Anti-corrosive treatment plus:<br>COLORWELD® 500/500XL or<br>DURAGLOSS® DL/PFX        |
| Reverse side finish                           |   | Washcoat - Other on request   |
| Products characteristics                      |   |   |
| Width   |   | 62 in<br>1575 mm  |
| Length  |   | 243 in<br>6172 mm   |
| Weight  |   | 1.55 lb/ft <sup>2</sup><br>7.57 kg/m <sup>2</sup>                                     |
| Tolerance in squareness                       |   | <0.118 in<br>< 3 mm   |
| Tolerance in bow                              |   | + 1/8"  |
| Products performance                          |   |   |
| Tensile strength (R <sub>m</sub> )            | lb/in <sup>2</sup><br>MPa                     | 6.3 ksi<br>43.90 MPa  |
| Flexural Modulus<br>(Core Yield Shear stress) |   | 176 psi<br>1.21 MPa   |
| Stiffness (EI)                                | lb-in <sup>2</sup> /in<br>MPa/cm <sup>2</sup> | 1,133 lb-in <sup>2</sup> /in <sup>2</sup><br>1.28x10 <sup>4</sup> MPa/cm <sup>2</sup> |
| Thermal expansion                             |   | 0.0288 in/ft OR 2.4 mm/m for<br>a temperature variation of<br>100°C (212°F)           |
| Temperature resistance                        |   | -40°F/+180°F<br>-40°C/+80°C   |
| Maximum allowable deflection                  |   | L/30  |
| Fire classification                           |   |   |
| Flame Spread Index                            | ASTM E84                                      | <25   |
| Smoke Developed Index                         |   | <450  |
| Self Ignition Temperature                     | ASTM D1929                                    | 824°F<br>440°C  |

Check model building code for acceptable deflection limits.

Our paint datasheets are also available, please ask for the dedicated datasheet.

The technical data refers to currently available products. Please note that the specific characteristics of each project have to be taken into account (country, delivery time, size of transport containers, etc.).

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## Disclaimer

Laws and building and safety codes governing the design and use of AAP's products, and specifically aluminum composite materials, vary widely. It is the responsibility of the owner, the architect, the general contractor, the installer and the fabricator/transformer, consistent with their roles, to determine the appropriate materials for a project in strict conformity to all applicable national, regional and local building codes and regulations. REYNOBOND® FR AND AS3000B HAVE SUCCESSFULLY PASSED US NFPA 285, E84 AND CANADA S134, S102 TESTS AS A PART OF AN ASSEMBLY. ENSURE THE PRODUCT IS USED IN A SYSTEM THAT COMPLIES WITH ALL APPLICABLE REGULATIONS. REYNOBOND® PE IS COMBUSTIBLE; IT COULD CATCH FIRE AND BURN. ANY LABORATORY TESTING INFORMATION PROVIDED BY AAP LLC APPLIES ONLY TO THE PARTICULAR PRODUCT OR ASSEMBLY TESTED AND DOES NOT NECESSARILY REPRESENT HOW PRODUCTS WILL ACTUALLY PERFORM IN USE. REPORTS AND TEST DATA CORRESPONDING TO A PARTICULAR TESTED PRODUCT SAMPLE OR ASSEMBLY ARE NOT A GUARANTEE THAT THE SAME PRODUCT OR ASSEMBLY WOULD ALWAYS ACHIEVE THE SAME TEST RESULT.



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