

Arconic  
Architectural  
Products

Reynobond® 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.

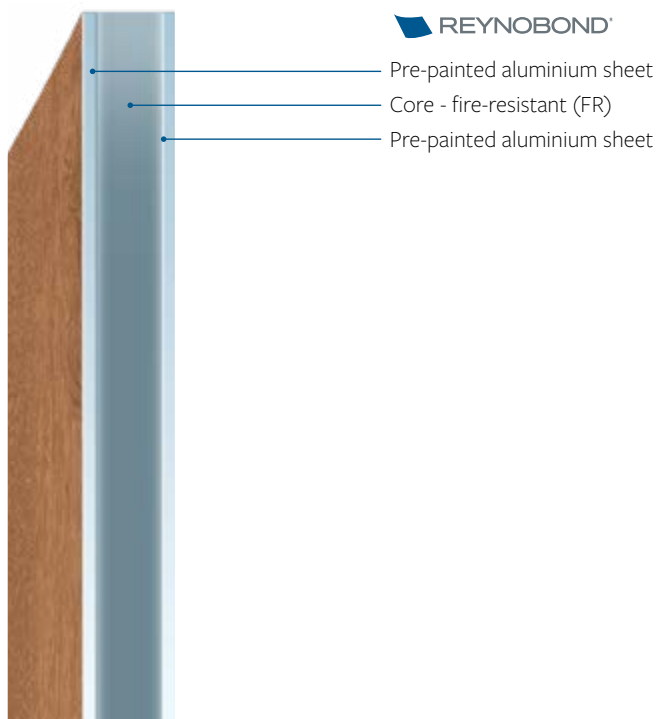
## Versatile and Easy to Fabricate.

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



## 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.

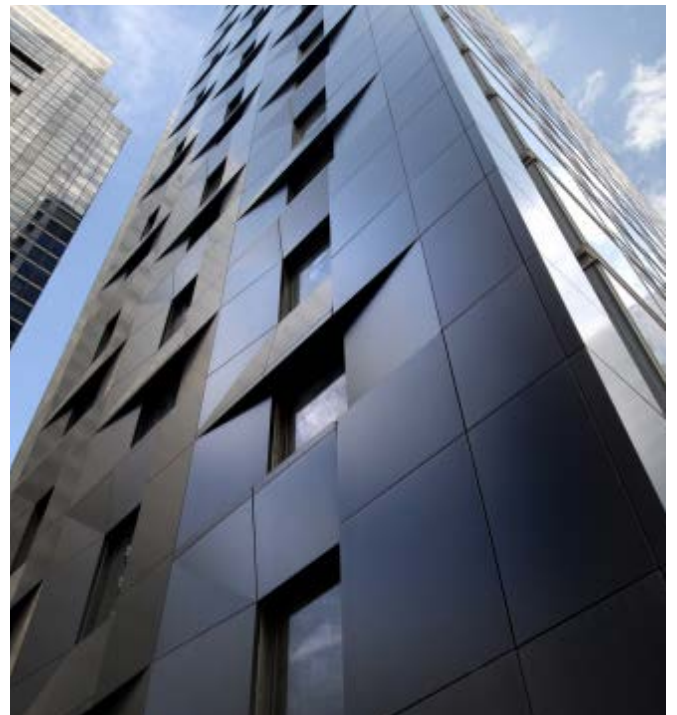


## Wide Range of Colors.

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 4 mm
Thickness pre-painted aluminium sheet		0.020 in (± 0.002 in) 0.5 mm (± 0.2 mm)
Alloy & temper		Series 3000
Core		FR
Front side finish		Anti-corrosive treatment plus: COLORWELD® 500/500XL or DURAGLOSS® DL/PFX
Reverse side finish		Washcoat - Other on request
Products characteristics		
Width		62 in 1575 mm
Length		243 in 6172 mm
Weight		1.58 lb/ft <sup>2</sup> 7.7 kg/m <sup>2</sup>
Tolerance in squareness		<0.118 in < 3 mm
Tolerance in bow		≤ 2 mm/500 mm over lengths and widths
Products performance		
Tensile strength (R <sub>m</sub> )	lb/in <sup>2</sup> Mpa	6.3 ksi 43.90 Mpa
Flexural Modulus (Core Yield Shear stress)		176 psi 1.21 Mpa
Stiffness (EI)	lb-in <sup>2</sup> /in kN-m <sup>2</sup> /m	0.035 lbf/in <sup>2</sup> 0.242 kN.m <sup>2</sup> /m
Thermal expansion		0.0288 in/ft OR 2.4 mm/m for a temperature variation of 100°C (212°F)
Temperature resistance		-40°F/+180°F -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 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.).

Information contained herein or related hereto is intended only for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. Such information is believed to be reliable, but AAP shall have no responsibility or liability for results obtained or damages resulting from such use. AAP grants no license under, and shall have no responsibility or liability for infringement of, any patent or other proprietary right. Nothing in this document should be construed as a warranty or guarantee by AAP, and the only applicable warranties will be those set forth in AAP acknowledgment or in any printed warranty documents issued by AAP. The foregoing may be waived or modified only in writing by an AAP officer.

## 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 IS COMBUSTIBLE; IT COULD CATCH FIRE AND BURN. SEE AAP WEBSITE FOR PRODUCT WARNINGS. ANY LABORATORY TESTING INFORMATION PROVIDED BY AAP APPLIES ONLY TO THE PARTICULAR PRODUCT OR ASSEMBLY TESTED AND DOES NOT NECESSARILY REPRESENT HOW PRODUCTS WILL ACTUALLY PERFORM IN USE.



### ARCONIC ARCHITECTURAL PRODUCTS, LLC

50 Industrial Boulevard  
Eastman, GA 31023  
Tel. 1.800.841.7774

samples.literature@arconic.com  
www.reynobond.com