



# FLUROBOND™

HIGH DEFINITION COATINGS

## 1. Product Name

Kynar 500® or Hylar 5000® coated aluminum-zinc alloy (Galvalume) or aluminum architectural sheet metal flashing, flat sheet, roofing and wall panels.

## 2. Manufacturer

Fabral Architectural Systems  
308 Alabama Blvd  
Jackson, GA 30233  
Phone (800) 884-4484  
Fax (770) 775-6167  
info@fabral.com  
www.fabral.com

## 3. Product Description

### Basic Use:

Since 1967, Fabral Inc. has been the leading provider of steel and aluminum roofing and wall panel systems and flat sheet products for commercial, industrial and architectural applications.

### Limitations:

Because Fabral roofing and wall panel systems and flat sheet products are prefinished material, care must be exercised during fabrication and erection to avoid damage to the finished surface. Care must be taken to avoid scratching or marring the finish. A protective strippable film is available upon request.

### Composition and Materials:

26, 24, 22, 20 or 18 gauge, minimum Grade 40 (40ksi yield strength) or 50 (50ksi yield strength) structural steel with AZ50 aluminum zinc alloy coating, both conforming to ASTM A792, or 0.032", 0.040", 0.050", .063", .080" or .120" alloy 3000 Series – H14 equivalent (18 ksi minimum yield strength) aluminum alloy conforming to ASTM B209.

### Sizes:

Reference availability chart on page 4.

### Colors:

30 colors finished with Flurobond™ (Kynar 500® or Hylar 5000®) are available: reference availability chart on page 4 for standard colors and gauges. Consult for custom finishes and colors.

### Finish:

Medium gloss range 20 - 35, depending upon color. Low gloss is available – please consult with your sales representative. (Low gloss is standard on 26 gauge.) Stucco embossed finish available; minimum quantities apply.

## 4. Technical Data

- Accelerated Weathering – ASTM D 4587 5000 total hours, 8 chalk rating, 5▲ E on galvalume and aluminum. ASTM G 23 5000 total hours, 8 chalk rating, 5▲ E Hunter units max color rating on both steel and aluminum.
- Salt Spray – ASTM B 117 1000 total hours, scribe rating < 1/16" (1.6mm), field rating 10, no blisters on galvalume. 3,000 total hours, scribe rating < 1/16" - field rating 10 - no blisters on aluminum.
- Humidity – ASTM D 2247 2,000 total hours, rating 10 – no blisters on galvalume. 3,000 total hours, rating 10 – no blisters on aluminum.
- Formability – ASTM D 4145 2T on galvalume and aluminum up to .050". 3T on .063", .080" and .120" aluminum. No loss of adhesion.
- Mandrel Bend – ASTM D 522 (Elongation over 1/8" mandrel) – no cracking or loss of adhesion on galvalume or aluminum.
- Pencil Hardness – ASTM D 3363 HB-2H on galvalume and aluminum.
- Abrasion Resistance – ASTM D 968 65±15 liters of falling sand on galvalume or aluminum.

- Specular Gloss – ASTM D 523 20-35 at 60° on galvalume and aluminum. Lower gloss (LG) coatings are available. LG coatings standard on 26 gauge galvalume.
- Reverse Impact – ASTM D 2794 3 x Metal thickness in inch-lbs, no loss of adhesion on galvalume. 1 1/2x metal thickness in inch-lbs, no loss of adhesion on aluminum.
- Flame Test – ASTM E84 Class A rated coating for flame spread and smoke developed on galvalume and aluminum.

### **Approvals**

Consult manufacturer for current industry approval information.

### **Environmental Considerations**

Metal wall panel and roofing systems are the cladding materials of choice for “green” construction. Flurobond™ metal products are recyclable upon final disposal and these products are largely produced of recycled content. Most Fabral Flurobond™ colors are LEED certified and Energy Star approved. Check with your Fabral Territory Manager for more information and technical bulletins that address LEED, Energy Star and recyclability.

### **Physical/Chemical Properties**

Test reports and additional product performance data are available upon request.

### **Fire Performance**

Metal roofing and wall panel systems are inherently fire resistant. UL assembly fire resistance ratings of 1, 2 and 3 hours are available. Consult with Fabral for UL790 Class A Fire Rating construction details and technical support.

## **5. Storage/Installation**

Store the panels properly and adequately to protect from damage on the jobsite or in the warehouse. Protect flat sheet, roofing and wall panels from adverse job conditions, such as moisture, prior to installation. Protect flat sheet, roofing and wall panels from other trades after installation. Factory applied protective strippable film must be removed immediately upon material installation.

Accessories and trim components should be factory fabricated or field formed in same finish and metal thickness as the panels except as otherwise noted on the drawings.

Verify that the substrate layout complies with the shop-drawing layout. Do not start work until all unsatisfactory conditions have been corrected.

### **Methods**

Flashings should be shop fabricated from material that is the same thickness and finish as the panels to which they are attached. Where practical, flashings should be furnished in 10' (3 m) lengths. Exposed flashings should be lapped 6" (152mm). Use premolded polyethylene or EPDM closures to match the profile of the panel in lengths as supplied by the manufacturer.

Caulking should be polyurethane where it is exposed to the weather and there is no thermal movement. Caulking should be non-skinning, nonhardening gun grade butyl sealant or butyl sealant tape with a minimum thickness of 3/32" where it is concealed and where thermal movement must be accommodated. All caulking or sealant should be applied in a neat manner with excess caulking or sealant removed from exposed surfaces.

The roofing and wall panel system should be installed plumb, straight and true to adjacent work. Polyethylene or EPDM profile closures should be provided and used as needed. No perforations should be made in roofing, wall panels or flashings by fasteners except as shown on the drawings. Complete installation recommendations are available from the manufacturer.

### **Precautions**

Observe all industry recognized, jobsite requirements and OSHA safety practices.

### **Building Codes**

Current data on building code requirements and product compliance may be obtained from Fabral technical support specialists. Installation must comply with the requirements of the code authorities having jurisdiction.

## 6. Availability and Cost

### **Availability:**

Flurobond™ products are sold through Fabral or qualified architectural dealers.

### **Cost:**

Budget installed cost information and life cycle costing information may be obtained from a local Fabral dealer or through Fabral.

## 7. Warranty

The Flurobond™ paint finish has a manufacturer's standard 30-year warranty. See full warranty details for specifications and limitations. Some colors will be limited to a standard 20-year warranty.

## 8. Maintenance

Flurobond™ prefinished metal roof, wall panel and flashing systems require very low maintenance. Periodic inspection to ensure panel, sealant and flashing integrity is advisable. Depending on local environmental conditions, occasional pressure washing using a mild detergent solution can be effective in removing dust and dirt. Consult Fabral for panel system cleaning instructions.

## 9. Technical Services

A staff of Fabral engineering professionals offers design assistance and technical support. For technical assistance, contact Fabral.

## 10. Filing Systems

- Fabral website, [www.fabral.com](http://www.fabral.com)
- Additional product information is available from the manufacturer upon request.
- BIM
- ARCAT®
- MASTERSPEC®
- BSD SPECLINK®

**FABRAL**®  
METAL WALL AND ROOF SYSTEMS



**FLUROBOND**™  
HIGH DEFINITION COATINGS

## Flat Sheet Color Availability

	Steel				Aluminum					
	26ga	24ga	22ga	18ga	.032"	.040"	.050"	.063"	.080"	.120"
Regal White		•	•	•	•			•	CONSULT FOR AVAILABILITY	CONSULT FOR AVAILABILITY
Bone White		•	•	•	•	•	•			
Almond		•			•	•	•			
Sandstone		•	•		•	•	•			
Surrey Beige		•	•		•	•	•			
Sierra Tan	LG	•			•	•	•			
Medium Bronze	LG	•	•	•	•	•	•	•		
Mansard Brown		•			•	•	•			
Dark Bronze	LG	•	•	•	•	•	•	•		
Extra Dark Bronze		•			•		•			
Patina Green		•			•					
Hemlock Green		•								
Classic Green	LG	•	•		•	•				
Hartford Green	LG	•			•		•			
Teal		•								
Slate Blue	LG	•			•					
Regal Blue		•			•					
Terra Cotta		•								
Banner Red		•			•					
Colonial Red	LG	•			•					
Brandywine		•			•					
Dove Gray		•			•		•			
Slate Gray	LG	•			•	•				
Charcoal		•	•		•	•	•			
Matte Black	LG	•	•		•	•	•			
Bright Silver		•			•	•	•			
Silversmith		•			•					
Champagne		•			•					
Pewter		•			•					
Bright Copper	•	•			•					

### Notes on Availability

1. 24ga steel and .032", .040", .050" and .063" aluminum are standard 48.25" wide; .080" and .120" aluminum are 48.00" wide; 26ga, 22ga and 18ga steel are standard 44.375" wide.
2. Standard inventory is non-embossed. Please contact Fabral for the availability of stucco embossing and applicable minimums.
3. Protective strippable film is available upon request.
4. Color availability is subject to change without notice.