



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. Supplier

N. B. Handy Company
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www.sentriclad.com
Manufactured by:
Fabral Architectural Systems

3. Product Description

Basic Use:

The N.B. Handy Company is a leading provider of steel and aluminum roofing, wall panel and flat sheet products for commercial, industrial and architectural applications.

Limitations:

Because roofing wall panel 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) structural steel with AZ50 aluminum zinc alloy coating, both conforming to ASTM A792, or 0.032", 0.040", 0.050" or .063 alloy 3105 – H14 equivalent (18 ksi yield strength) aluminum alloy conforming to ASTM B209.

Sizes:

Reference availability chart on page 4.

Colors:

30 colors finished with Sentriclad™ (Kynar 500®/Hylar 5000®) are available: Bone White, Regal White, Almond, Stone White, Sandstone, Surrey Beige, Sierra Tan, Mansard Brown, Medium Bronze, Dark Bronze, Old Town Gray, Slate Gray, Charcoal Gray, Musket Gray, Matte Black, Colonial Red, Terra Cotta, Banner Red, Burgundy, Patina Green, Hemlock Green, Hartford Green, Classic Green, Teal, Slate Blue, Regal Blue, Apothecary Blue, Bright Silver, Bright Copper and Pewter. Other finishes and colors are available.

Finish:

Medium gloss range 20–35, depending upon color. Low gloss is available — please consult with your sales representative. Stucco embossed finish available; minimum quantities apply.

4. Technical Data

- **Accelerated Weathering** – ASTM D 4587 3000 total hours, 8 chalk rating, 5 E on hot dipped galvanized steel, galvalume and aluminum. ASTM G 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 7 (1/16") (1.6mm), field rating 10, not blisters on hot dipped galvanized steel and galvalume. 3,000 total hours, scribe rating 10 - no creepage, field rating 10 - no blisters on aluminum.
- **Humidity** – ASTM D 2247 2,000 total hours, rating 10 – no blisters on hot dipped galvanized steel and galvalume. 3,000 total hours, rating 10 – no blisters on aluminum.
- **Formability** – ASTM D 4145 2T on hot dipped galvanized steel, galvalume and aluminum.
- **ASTM D 522** (Elongation over 1/8" mandrell) No cracking or loss of adhesion on hot dipped galvanized steel, galvalume or aluminum.
- **Pencil Hardness** – ASTM D 3363 HB-2H on hot dipped galvanized steel, galvalume and aluminum.
- **Abrasion Resistance** – ASTM D 968 50-80 liters of falling sand on hot dipped galvanized steel, galvalume or aluminum.
- **Specular Gloss** – ASTM D 523 20- 35 at 60° on hot dipped galvanized steel, galvalume and aluminum. Lower gloss coatings are available.
- **Reverse Impact** – ASTM D 2794 3 x Metal thickness in inch-lbs, no loss of adhesion on hot dipped galvanized steel or galvalume. 1 1/2x metal thickness in inch-lbs, no loss of adhesion on aluminum.
- **Flame Test** – Class A rated coating on hot dipped galvanized steel, galvalume and aluminum.

Approvals

Consult manufacturer for current industry approval information.

Environmental Considerations

Metal wall panels and roofing systems are the cladding materials of choice for "green" construction. Sentriclad™ metal products are recyclable upon final disposal and these products are largely produced of recycled content. Call your sales representative to learn which products qualify to earn LEED points.

Physical/Chemical Properties

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

Fire Performance

Sheet metal roofing and wall panels are inherently fire resistant. UL assembly fire resistance ratings of 1,2 and 3 hours are available. Consult with N.B. Handy for 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 finish and metal thickness, same 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 sealing 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 safety practices.

Building Codes

Current data on building code requirements and product compliance may be obtained from N. B. Handy. Installation must comply with the requirements of the code authorities having jurisdiction.

6. Availability and Cost

Availability:

Sentriclad™ products are sold through our network of service centers throughout the Mid-Atlantic and Southeastern United States.

Cost:

Budget installed cost information and life cycle costing information may be obtained from N. B. Handy.

7. Warranty

The Sentriclad™ paint finish has a manufacturer's standard 30-year warranty. See full warranty details for specifications.

8. Maintenance

Metal roof, wall panel and flashing systems offer 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.

9. Technical Services

A staff of factory trained service personnel offers design assistance and technical support. For technical assistance, contact N.B. Handy

Flat Sheet Color Availability

PVDF	Steel			Aluminum			
	24ga	22ga	18ga	.032"	.040"	.050"	.063"
Regal White	•	•	•	•			•
Bone White	•	•		•	•	•	
Stone White	•			•	•	•	
Almond	•			•	•		
Sandstone	•	•		•	•	•	
Surrey Beige	•	•		•	•	•	
Sierra Tan	•				•		
Slate Gray	•	•		•	•		
Musket Gray	•			•			
Medium Bronze	•	•		•	•	•	
Mansard Brown	•			•	•	•	
Dark Bronze	•	•	•	•	•	•	•
Old Town Gray	•			•			
Hemlock Green	•						
Patina Green	•			•			
Teal	•						
Classic Green	•			•	•		
Hartford Green	•			•			
Charcoal Gray	•						
Matte Black	•			•	•		
Slate Blue	•						
Regal Blue	•			•			
Apothecary Blue +	•						
Burgundy	•						
Colonial Red	•			•			
Terra Cotta	•				•		
Banner Red +	•			•			
PVDF MICA							
Pewter +	•						
Bright Silver +	•			•	•		
Bright Copper +	•						
POLYESTER							
White/White				•			
Dark Bronze/White				•			
Matte Black/White				•	•		
000250" ANODIZED							
Clear				•	•	•	
Dark Bronze					•		

Notes on availability:

- 24ga, .032", .040", .050" & .063" are standard 48.25" in width, 22ga & 18ga are 44.375" in width for painted items.
- Standard inventory is non-embossed. Please contact us for the availability of stucco embossing.
- Protective strippable film is available upon request.
- Apothecary Blue, Banner Red, Pewter, Bright Copper and Bright Silver are subject to premium pricing.
- Subject to change without notice.
- Unpainted, acrylic coated, Aluminum-Zinc Alloy steel (AZ-55) is maintained in: 26ga x 20", 26ga x 28", 26ga x 48.25", 24ga x 20", 24ga x 24", 24ga x 28", 24ga x 48.25", 22ga x 44.375", 22ga x 48.25", 20ga x 44.375", and 18ga x 44.375".
- All colors are supplied in Medium Gloss (20-35 at 60 degrees). Low Gloss available subject to minimum coating run.
- The following colors are also maintained in 24ga x 40.25": Regal White, Bone White, Stone White, Sandstone, Slate Gray, Medium Bronze, Dark Bronze, Patina Green, Teal, Classic Green, Hartford Green, Matte Black, Slate Blue, Colonial Red, Terra Cotta, Banner Red, Bright Copper.