



# Sheffield Metals International

A MAZZELLA COMPANY

CLEVELAND: 800.283.5262

ATLANTA: 800.929.9359

DALLAS: 877.853.4904

DENVER: 877.375.1477

SAN JOSE: 408.916.3262

[www.sheffieldmetals.com](http://www.sheffieldmetals.com)

## SPEC DATA

### 1. PRODUCT NAME

COOLR Kynar 500® / Hylar 5000®  
Coated Galvalume Steel or Aluminum,  
Architectural Sheet Metal, Flashing, Roofing

### 2. MANUFACTURER

#### Sheffield Metals International

5467 Evergreen Parkway  
Sheffield Village, OH 44054  
Phone: 800-283-5262  
Fax: 440-934-8506

### 3. PRODUCT DESCRIPTION

Structural Grade 50, extra smooth,  
Galvalume steel or Aluminum, coated with  
70% Kynar 500 / Hylar 5000 fluorocarbon  
coating, 1.0 ± 0.1 mil total dry film thickness  
including primer. The reverse side is coated  
with a primer and off white backer with a  
total of .5 mil dry film for additional  
protection. A strippable film is available  
upon request to protect the finished surface  
during shipping, handling and fabrication.

**(The protective film must be removed  
immediately after installation.)**

**Basic use COOLR** is manufactured for use  
in general building applications, such as  
copings, gravel stops, flashings, mansards,  
fascia's, soffits, standing seam, batten seam  
and flat seam roofing applications.

**Limitations:** Because COOLR is a  
prefinished material, care must be exercised  
during fabrication and erection to avoid  
damage to the surface. The performance of  
the material in the field depends substantially  
on the integrity of the paint film, and in  
Galvalume steel, on the underlying coating  
of aluminum-zinc being intact. Care must  
be taken to avoid scratching or marring the  
finish. Therefore, COOLR should not be used  
in areas of high abrasion or where it will  
be subject to mechanical damage.

#### Composition and Materials:

COOLR consists of Structural Grade 50  
Galvalume steel of prime quality  
manufactured per ASTM A 792 or Aluminum  
Association specification sheet, alloy and  
temper 3003-H14 or 3105 H-14, as  
manufactured per ASTM B 209, coated  
with 70% Kynar 500 / Hylar 5000  
(polyvinylidene fluoride resin) fluorocarbon  
applied over an appropriate primer. An  
exterior off white backer coat is applied to  
the reverse side for additional protection.

**Sizes:** Galvalume steel is available in  
24 GA, 48" sheet and in 48", 44", 40",  
24", 22", 20" and 16" standard coil widths.  
22 GA. bare steel is available to paint in  
44" and 48" coils. Galvalume steel is  
available in 26 GA in 48" sheet and in  
48", 40", 24", 20" and 16" standard  
coil widths. Aluminum is available in  
.032 48" sheet and 48", 40", 23.75",  
20" and 15.833" standard coil widths.  
Aluminum is available in .040 and  
.050 48" sheet and 48", 23.75" and  
15.833" standard coil widths.

**Colors:** There are 44 standard colors:  
Aged Copper, Ash Gray, Burgundy,  
Champagne Metallic, Charcoal gray,  
Colonial Red, Copper Metallic, Dark Bronze,  
Dove Gray, Evergreen, Hartford Green,  
Hemlock Green, Mansard Brown, Matte  
Black, Medium Bronze, Patina Green,  
Pre-weathered Galvalume, Regal Blue, Regal  
Red, Regal White, Sandstone, Sierra Tan,  
Silver Metallic, Slate Blue, Slate Gray, Solar  
White, Stone White, Surrey Beige, Terra  
Cotta, Cor-Ten AZP® Raw, Copper-Ten™ Raw,  
Galv-Ten™ Raw.

**26 GA Low Gloss Colors:** Antique Black,  
Black, Burgundy, Colonial Red, Dark Bronze,  
Dark Gray, Evergreen, Regal White, Seal  
Brown, Sierra Tan, Slate Gray, Terra Cotta.  
Custom colors are available in both steel  
and aluminum.

**Finish:** Smooth, dull matte, low to medium  
gloss, depending on color.

**Applicable Standards:** ASTM A 792  
structural quality steel, sheet and coil, coated  
(Galvalume) by the hot dipping process  
or ASTM B 209 Aluminum sheet 3105-H24  
alloy and temper.

### 4. KYNAR PAINT TECHNICAL DATA

- ASTM D 968, Method A - Abrasion / Falling Sand
- ASTM D 4587 & ASTM G 154 - Accelerated Weathering
- ASTM D 3359, Method B - Adhesion of Coating by Tape Test
- ASTM D 1308 - Chemical Pollution
- ASTM B 117 - Salt spray
- ASTM D 5894 - Cyclic Salt Fog UV
- ASTM G 7 - Exterior Durability
- ASTM D 4145 - Flexibility T-Bend
- ASTM D 522 - Formability



- ASTM D 4585 - Humidity, Cleveland Condensing
- ASTM D 2247 - Humidity
- ASTM D 2794 - Impact Resistance
- ASTM D 3363 - Pencil Hardness
- ASTM D 523 - Specular Gloss
- ASTM E 84 - Surface Burning
- ASTM D 1735 - Water Resistance of Coating using Fog Apparatus
- ASTM D 822, G 152 & G153 - Weatherometer

Test results available upon request.

### 5. INSTALLATION

Install using Sheffield Metals International's recommended installation details.

### 6. WARRANTY

A 35 Year, non-prorated paint warranty covering color fade, chalking and film integrity is available at no additional cost and is issued on a per project basis upon request. A 25 Year 6 month, Galvalume warranty covering corrosion is available at no additional cost and is issued on a per project basis upon request. A 5 - 35 year Standard Weathertight Warranty and a 10 - 35 year No Dollar Limit Warranty is available for a fee on a per project basis. A Weathertight Warranty application must be submitted to Sheffield Metals International's Technical Department for approval prior to installation of the roof system, warranty terms are in 5 year increments.



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CALL TO LEARN MORE  
ABOUT ELZINC® PRODUCTS!

**1-877-375-1477**

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## ELZINC® SHEET & COIL PRODUCTS

### Advantages:

- Aesthetic, elegant material
- Durable 50 to 100+ years lifespan with adequate design and installation in healthy environments.
- Natural, high-value recyclable material
- Low energy requirement for production
- Low maintenance
- Clear runoff

### Manufacturing Capabilities:

- 0.65 mm (26 Gage)
- 0.7 mm (24 Gage)
- 0.8 mm (22 Gage)
- 1.0 mm (20 Gage)
- 1.2 mm (18 Gage)
- 1.5 mm (16 Gage)



# elZinc®

### Our Wide Range of elZinc Finished Products:



elZinc  
Rainbow®  
Blue



elZinc  
Rainbow®  
Red



elZinc  
Rainbow®  
Gold



elZinc  
Rainbow®  
Green



elZinc  
Rainbow®  
Black



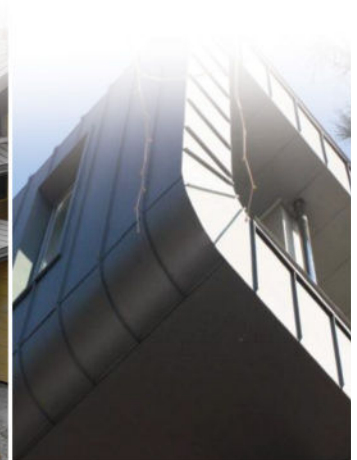
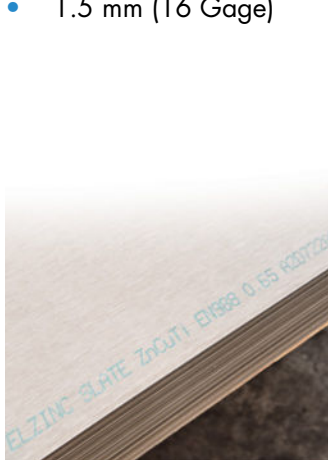
elZinc  
Rainbow®  
Brown



elZinc  
Slate®



elZinc  
Natural®



Colors shown are matched as accurately as possible, but may vary slightly from finished product. Please contact your representative for more information.



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**Sheffield Metals  
International**  
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FLUOROPON®

CERTIFIED LABORATORY  
TEST REPORT

GLOSS

## SPECULAR GLOSS

TEST PROCEDURES:	GLOSS DETERMINATION PER ASTM D523
PRODUCT TESTED:	VALSPAR FLUOROPON COATING
TESTS RESULTS:	SPECULAR GLOSS WAS FOUND TO BE 30 OR LESS ON A 60° GEOMETRY. HUNTER LAB D48D GLOSSMETER. (STANDARDIZATION AT 0 AND 95.3)
SAMPLE NUMBER:	435A871
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FL

The VALSPAR CORPORATION certifies these tests to be true and accurate and performed by our laboratory.



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CERTIFIED LABORATORY  
TEST REPORT

FILM HARDNESS

## PENCIL HARDNESS

TEST PROCEDURES:	FILM HARDNESS BY PENCIL TEST PER ASTM D 3363
PRODUCT TESTED:	VALSPAR FLUROPON COATING
TESTS RESULTS:	PENCIL HARDNESS (GOUGH AND SCRATCH HARDNESS) IS HB MINIMUM USING EAGLE TURQUOISE PENCILS
SAMPLE NUMBER:	433B365
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FL

The VALSPAR CORPORATION certifies these tests to be true and accurate and performed by our laboratory.



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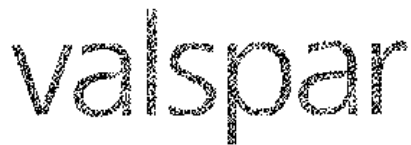
CERTIFIED LABORATORY  
TEST REPORT

ADHESION

## MEASURING ADHESION BY TAPE

TEST PROCEDURES:	ADHESION OF COATING BY TAPE-OFF PER ASTM D 3359, METHOD B
PRODUCT TESTED:	VALSPAR FLUROPON COATING
TESTS RESULTS:	NO COATING WAS REMOVED BY SCOTCH TAPE ON THE TESTED AREA
SAMPLE NUMBER:	432B198
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FL

The VALSPAR CORPORATION certifies these tests to be true and accurate and performed by our laboratory.



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TEST REPORT

IMPACT

## IMPACT RESISTANCE

TEST PROCEDURES:

REVERSE AND DIRECT IMPACT USING 3X  
METAL THICKNESS IN INCH LBS.  
(KILOGRAM-METERS) 1/2 INCH (13 MM)  
BALL INDENTER (GARDNER IMPACT  
TESTER), PER ASTM D 2794

PRODUCT TESTED:

VALSPAR FLUROPON COATING ON  
GALVALUME® STEEL SUBSTRATE

TESTS RESULTS:

REVERSE IMPACT:

- NO CRACKING
- NO LOSS OF ADHESION

DIRECT IMPACT:

- NO CRACKING
- NO LOSS OF ADHESION

SAMPLE NUMBER:

433B175

LOCATION:

THE VALSPAR CORPORATION  
FT. MYERS, FL

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TEST REPORT

100% Humidity

## HUMIDITY

TEST PROCEDURES:	HUMIDITY TEST RUN FOR 2000 HOURS AT 100° F, PER ASTM D 2247 APPARATUS A1
PRODUCT TESTED:	VALSPAR FLUOROPON COATING ON GALVALUME® SUBSTRATE
TESTS RESULTS:	ACCEPTABLE
FIELD:	TEST RATING OF 10, NO BLISTERING, CRACKING, CREEPAGE, OR CORROSION PER ASTM D 1654
SAMPLE NUMBER:	456A354
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FL

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TEST REPORT

SALT SPRAY

## SALT SPRAY

TEST PROCEDURES:	SALT SPRAY- 1000 HOURS PER ASTM B 117, INCLUDING SCRIBE REQUIREMENT
PRODUCT TESTED:	VALSPAR FLUROPON COATING ON GALVALUME® SUBSTRATE
TESTS RESULTS:	ACCEPTABLE
SCRIBE:	TEST RATING OF 7, 1/16 INCH (2MM) CREEPAGE FROM SCRIBE PER ASTM D 1654, PROCEDURE A
FIELD:	TEST RATING OF 10, NO BLISTERING PER ASTM D 1654 PROCEDURE B (REF. ASTM D 714)
SAMPLE NUMBER:	435A871
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FL

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TEST REPORT

SURFACE BURNING

**TUNNEL TEST**

TEST PROCEDURES: SURFACE BURNING CHARACTERISTIC OF BUILDING MATERIALS PER ASTM E 84

PRODUCT TESTED: VALSPAR FLUROPON COATING

TESTS RESULTS: RESULTS ARE EXPRESSED AS RATIO WITH STANDARD MATERIALS: ASBESTOSCEMENT= 0; RED OAK FLOORING= 100

FILM APPEARANCE:

PANEL # 1- COATED ALUMINUM  
 PANEL # 2- COATED GALVANIZED STEEL WITH RUBBER SEALANT AT THE INTERLOCKING JOINT

	<u>PANEL # 1</u>	<u>PANEL # 2</u>
FLAME SPREAD RATIO	0	10
FUEL CONTRIBUTED FACTOR	0	0
SMOKE DENSITY FACTOR	0	0

\*RUBBER SEALANT CONTRIBUTES SOME FLAME AND SMOKE NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) HAS ADOPTED THE FOLLOWING SURFACE BURNING CLASSIFICATION SYSTEM BASED ON TUNNEL TEST FLAME SPREAD RATIO:

- CLASS A- 0-25
- CLASS B- 25-75
- CLASS C- 75-100
- CLASS D- 200-500
- CLASS E- OVER 500

VALSPAR'S FLUROPON COATING SYSTEM RATES AS A CLASS A

SAMPLE NUMBER: 433X403

LOCATION: UNITED STATES TESTING COMPANY, INC.  
FAIRFIELD, NEW JERSEY

The VALSPAR CORPORATION certifies these tests to be true and accurate and performed by our laboratory.



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TEST REPORT

ACCELERATED WEATHERING

## ACCELERATED WEATHERING

TEST PROCEDURES:	ACCELERATED WEATHERING 1000 HOURS PER ASTM D 3361
PRODUCT TESTED:	VALSPAR FLUOROPON COATING
TESTS RESULTS:	ACCEPTABLE
FILM INTEGRITY:	NO CRACKING, PEELING, BLISTERING, LOSS OF ADHESION OF THE PROTECTIVE COATING, OR CORROSION OF THE BASE METAL
CHALKING:	CHALK RATING OF 8 OR BETTER PER ASTM D 4214, METHOD A (ASTM D 659)
COLOR CHANGE:	LESS THAN 5ΔE HUNTER UNITS PER ASTM D 2244
SAMPLE NUMBER:	432B198
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FL

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TEST REPORT

FALLING SAND

## ABRASION RESISTANCE

TEST PROCEDURES:	FALLING SAND ABRASION TEST PER ASTM D 968 METHOD A
PRODUCT TESTED:	VALSPAR FLUOROPON COATING
TESTS RESULTS:	TOTAL SAND = 67 LITERS
SAMPLE NUMBER:	431A641
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FL

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## CERTIFIED LABORATORY TEST REPORT

### ABRASION - FALLING SAND

TEST PROCEDURES:

FALLING SAND PER  
ASTM D 968

PRODUCT TESTED:

VALSPAR FLUROPON<sup>®</sup>

SUBSTRATE:

GALVALUME

TEST RESULTS:

ACCEPTABLE  
88 LITERS / MIL

LOCATION:

THE VALSPAR CORPORATION  
FT. MYERS, FLORIDA, USA

*Marlene Garrow 6/4/12*

Marlene Garrow - Ft. Myers  
Valspar Corporation

Date

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# FLUROPON<sup>®</sup>

## CERTIFIED LABORATORY TEST REPORT

### FORMABILITY

TEST PROCEDURES:	1/8 INCH (3 MM) MANDREL TEST 180° BEND PER ASTM D 522
PRODUCT TESTED:	VALSPAR FLUROPON <sup>®</sup>
SUBSTRATE:	HDG – HOT DIP GALVANIZE
TEST RESULTS:	ACCEPTABLE (NO LOSS OF ADHESION)
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FLORIDA, USA

*Marlene Garrow* 6/4/12  
\_\_\_\_\_  
Marlene Garrow - Ft. Myers                      Date  
Valspar Corporation

The VALSPAR CORPORATION certifies these test to be true and accurate and performed by our laboratory.



# FLUROPON<sup>®</sup>

## CERTIFIED LABORATORY TEST REPORT

### EXTERIOR DURABILITY

TEST:	FLORIDA EXTERIOR DURABILITY, PER ASTM D 2244 and D 4214 Method A
TEST PROCEDURE:	COATED STEEL OR ALUMINUM, PROPERLY COATED AND WEATHERED IN FLORIDA AT 45° FACING SOUTH FOR 5 YEARS
PRODUCT TESTED:	VALSPAR FLUROPON <sup>®</sup>
TEST RESULTS:	NO MORE THAN FIVE (5) ΔE HUNTER UNITS COLOR CHANGE AND CHALK RATING NO LESS THAN EIGHT (8)
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FLORIDA, USA

  
\_\_\_\_\_  
Marlene Garrow - Ft. Myers                      Date  
Valspar Corporation

The VALSPAR CORPORATION certifies these test to be true and accurate and performed by our laboratory.