# **TECHNICAL INFORMATION SHEET**



## COATED METALS GROUP

## Durapon70® Ultra-Clad PVDF Pre-Finished Galvanized Steel Architectural Sheet & Coil

#### **DESCRIPTION:**

CMG Ultra-Clad PVDF Coated Steel Architectural Sheet & Coil is extra smooth, tension leveled, hot-dipped G90 coated steel that is primed and coated on one side with Ultra-Clad full strength 70% polyvinylidene fluoride (PVDF) resins premium fluoropolymer coating system of 1.0 ( $\pm$  0.1) mil total dry film thickness. For additional protection, a wash coat of .03 - .04 mil dry film thickness is applied to the reverse side. An optional strippable PVC protection film is applied for protection during fabrication and installation. Coated Metals Group Ultra-Clad PVDF Coated Galvalume® Steel Architectural Sheet & Coil is for general sheet metal use in building applications and can be utilized for fascia panels, soffits, gravel stops, copings, and roofing such as flat seam, standing seam, batten seam, and mansards.

#### METHOD OF APPLICATION

- 1. Install in accordance with recognized sheet metal practices.
- 2. CMG Ultra-Clad can be cut, formed, and fastened using conventional hand or power tools.
- 3. For best results cutting tool edges should be kept sharp, clean, properly dressed, and closely aligned.
- 4. Fabrication and erection can be accomplished with strippable plastic film in place. Film should be removed from areas of concealed or joined pieces.

#### STORAGE AND PACKAGING:

- 1. CMG metal sheet and coil should be stored in a well-ventilated, dry place where no moisture can contact the sheet. Moisture (from rain, snow, condensation, etc.) trapped between layers of material may cause water stains or white rust, which can affect the service life of the material and will detract from its appearance.
- 2. If outdoor storage cannot be avoided, protect the sheet and coil with a ventilated canvas or waterproof paper cover. Do not use plastic, which can cause condensation. Keep the material off the ground in an inclined position with an insulator such as wood.
- 3. Maximum 2,000 lbs. of sheets per pallet.

#### **PRECAUTIONS & LIMITATIONS:**

- 1. Protective film may degrade or become brittle with exposure to direct sunlight.
- 2. The performance of this material in the field depends substantially on the integrity of the paint film and on the underlying zinc-aluminum coating being intact. Therefore, this Ultra-Clad product should not be used in areas of high abrasion or where it is subject to mechanical damage.
- 3. Product is pre-finished material; care must be exercised during fabrication and erection to avoid surface damage.
- 4. Attention should be paid to good housekeeping practices.
- 5. Tools must be clean and properly dressed.
- 6. Avoid dragging sheets over surfaces which may scratch or mar the finish.
- 7. For general sheet metal use in building applications.
- 8. Do not use with power saws or abrasive blade.

## **PRODUCT DATA**

**Color:** 34 standard colors; 7 ultra low-gloss colors;

see current Ultra-Clad Color Chart

Finish: Extra Smooth Matte - Low to Medium Gloss

Optional Finish: Inquire

Wash Coat: Polyester

Weight:

 Gauge:
 lb/SF:

 22ga
 1.25

 24ga
 1.00
 .0225min - .0254max

 26ga
 0.75
 .0172min - .0194max

 28ga
 0.59
 .0142min - .0162max

**Dimensions:** 

Gauge In: Slit Coil: Sheet

22, 24, 26ga 4"-48" 48" x 96", 120, & 144"\* (10.16cm -121.92cm) (1.2m x 2.4, 3.1, & 3.7m)

28ga 4"- 42" 42" x 96", 120, & 144"\*

(10.16cm - 106.68cm) (1.2m x 2.4, 3.1, & 3.7m)

.0285min - .0313max

### **Physical Properties of Durapon70® PVDF Coating:**

Property Abrasion Resistance	Test Method ASTM D 968	Typical Abrasion Coefficient: 108 80 liters / mil of sand dropped
Accelerated Weathering	ASTM D 4587	10,000 Hours Exposure <u>Chalk</u> : rating of 8 or  better per ASTM D4214  method A (ASTM D659)
		<u>Fade</u> : <5ΔE Hunter units per ASTM D2244,
		No loss of adhesion, softening Of film or blisters.
UV Exposure	ASTM D 2244	Chalk: rating of 8 or better
45° South Florida Exposure		per ASTM D4214,
		method A (ASTM D 659)
		Color: <5∆E Hunter units
		per ASTM D 4214;
		no loss of adhesion
Surface Burning	ASTM E 84	Class A Flame spread rating

<sup>\*</sup>May not be available in all colors, gauges, or widths.

Additional lead times may apply. Contact Coated Metals Group for additional information.

Smoke Development Index = 0

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## PRODUCT DATA (cont.)

Adhesion ASTM D 3359 No loss of adhesion with

removal of tape

Natural Weathering ASTM D 4214 <u>Chalk</u>: Rating of 8 or Exterior Durability ASTM G7 better per ASTM D 4214

<u>Fade</u>: <5∆E Color change for non-exotic colors per ASTM

D 4214

Chemical/Acid ASTM D 1308 70% Nitric Acid:

Pollution Resistance No more than  $5\Delta E$  color change.

10% Muriatic Acid

No color change, no blistering.

Weatherometer ASTM G 155 Acceptable film

integrity, no blistering and no loss of adhesion

T-Bend Flexibility ASTM D 4145 180° bend around 1/8"

mandrel no cracking No adhesion loss 2T bend

Specular Gloss ASTM D 523 Good - Gloss readings from

30 +/- 5 at 60° Geometry; 55 +/- 5 at 85° Geometry

Hardness ASTM D 3363 Good – H Pencil

Humidity Resistance ASTM D 2247 No loss of adhesion. No

discernable color change. Acceptable corrosion. Acceptable blistering per

ASTM D 714.

Impact Resistance ASTM D 2794 Reverse and Direct Impact

no cracking, no loss of

adhesion

Salt Spray Resistance ASTM B 117

5% Salt Fog @95°F

2000 hours exposure Scribe and cut edge corrosion rating = 7

per ASTM D 1654.
Minimum blisters,
rating = 8

## **PRODUCT DATA (cont.)**

Cleveland Condensing ASTM D 4585 No Loss of adhesion,

ASTM D 714 passes blisters, no

discernable color

change.

Solvent Resistance ASTM D 5402 100+ MEK double rubs

with no breakthrough

Cyclic Salt Fog UV ASTM D 5894 Acceptable Corrosion.

2016 Hours

Field Rating = 8 Scribe Rating: 1/32" Rust 10 per ASTM 610

### **Physical Properties of Base Metal:**

Base Metal: G90 coated hot-dipped Galvanized steel sheet;

commercial weight, meeting

ASTM A 653 CS Type B for hot-dipped Galvanized coated

steel sheets & coil

Minimum Yield: 50 KSI (310 MPa)

Coefficient of  $6.7 \times 10^{-6}$  in/in/°F. (13.9m/m.K x 106)

Thermal Expansion:

Modules of Elasticity: 27,000 KSI (186 GPa)

Specification: ASTM E111-04

## COATED METALS GROUP

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