

## **UNA-CLAD** Architectural Zinc Alloy Sheet & Coil

TIS #2020

### **Description:**

Firestone UNA-CLAD Architectural Zinc Alloy Sheet and Coil is 99.995% pure electrolytic high-grade zinc alloyed with small quantities of titanium and copper. The alloying elements are necessary for transforming the properties for use in exterior architectural applications. Firestone UNA-CLAD Architectural Zinc Alloy Sheet and Coil is environmentally friendly, recyclable, and is superior to zinc coatings applied to other base metals. Firestone UNA-CLAD Architectural Zinc Alloy Sheet and Coil is for general sheet metal use in building applications and can be utilized for fascia panels, soffits, gravel stops, copings, store fronts, 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. UNA-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. A ventilation mat or backside coating is recommended in all architectural applications.

### **Storage:**

- Firestone metal sheet and coil should be stored in a well ventilated, dry place where no moisture can contact them. 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.
- 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.
- Maximum 2,000 lb of sheets per pallet.

### **Precautions:**

- Protective film may degrade or become brittle with exposure to direct sunlight. Therefore, it must be removed immediately.
- Product should not be used in areas of high abrasion or where it is subject to mechanical damage.
- Care must be exercised during fabrication and erection to avoid surface damage.
- Firestone recommends a minimum bend radius of 2T. Anything less than a 2T bend radius can cause crazing to the material.
- Attention should be paid to good house-keeping practices.
- Tools must be clean and properly dressed.
- Avoid dragging sheets over surfaces which may scratch or mar the finish.
- Product shall be 50 °F (10 °C) or above prior to forming to prevent fracturing.

### **Manufacturing Location:**

- Anoka, MN

### **Compliance:**

Recycled Content: 90.0%

# TECHNICAL INFORMATION SHEET

## Product Data:

<b>Finish:</b>	Shiny, Pre-Weathered Blue-Gray, Pre-Weathered Graphite-Gray	
<b>Gauge:</b>	Weight	
	lb/Ft <sup>2</sup> :	kg/M <sup>2</sup> :
0.7 mm (24 ga)	1.03	5.03
0.8 mm (22 ga)	1.18	5.77
1.0 mm (20 ga)	1.48	7.23
1.2 mm (18 ga)	1.76	8.60
1.5 mm (16 ga)	2.21	10.79
	Dimensions	
<b>Shiny &amp; Pre-Weathered Blue-Gray</b>	Slit Coil:	Sheet:
0.7 mm (24 ga)	4.0" (0.1 m) – 39.4" (1.0 m)	39.4" (1.0 m) x 120" (3.1 m)
0.8 mm (22 ga)	4.0" (0.1 m) – 39.4" (1.0 m)	39.4" (1.0 m) x 120" (3.1 m)
1.0 mm (20 ga)	4.0" (0.1 m) – 39.4" (1.0 m)	39.4" (1.0 m) x 120" (3.1 m)
1.2 mm (18 ga)	4.0" (0.1 m) – 39.4" (1.0 m)	39.4" (1.0 m) x 120" (3.1 m)
1.5 mm (16 ga)	4.0" (0.1 m) – 39.4" (1.0 m)	39.4" (1.0 m) x 120" (3.1 m)
<b>Pre-Weathered Graphite-Gray</b>		
0.7 mm (24 ga)	4.0" (0.1 m) – 27.6" (0.7 m)	27.6" (0.7 m) x 120" (3.1 m)
0.8 mm (22 ga)	4.0" (0.1 m) – 27.6" (0.7 m)	27.6" (0.7 m) x 120" (3.1 m)
1.0 mm (20 ga)	4.0" (0.1 m) – 27.6" (0.7 m)	27.6" (0.7 m) x 120" (3.1 m)

*Note: Material not guaranteed to be in stock. Minimum quantities and lead times may apply. Contact your Firestone Roof System Advisor for additional information.*

## Physical Properties of Base Material:

<b>Density:</b>	0.26 lbs/in <sup>3</sup> (7.2 g/cm)
<b>Tensile Strength:</b>	21.8 KSI (150 N/mm)
<b>Yield Strength:</b>	15.95 KSI (110 N/mm)
<b>Coefficient of Thermal Expansion:</b>	12.0 x 10 <sup>-6</sup> in/in/F° (0.022 mm/m°)
<b>Modulus of Elasticity:</b>	11.6 KSI (80,000 N/mm)
<b>Melting Point:</b>	784 °F (418 °C)
<b>Re-crystallization:</b>	572 °F (300 °C)

Please Contact your Firestone Roof System Advisor at 1-800-428-4511 for further information.

*This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.*