

UNITED ZINC

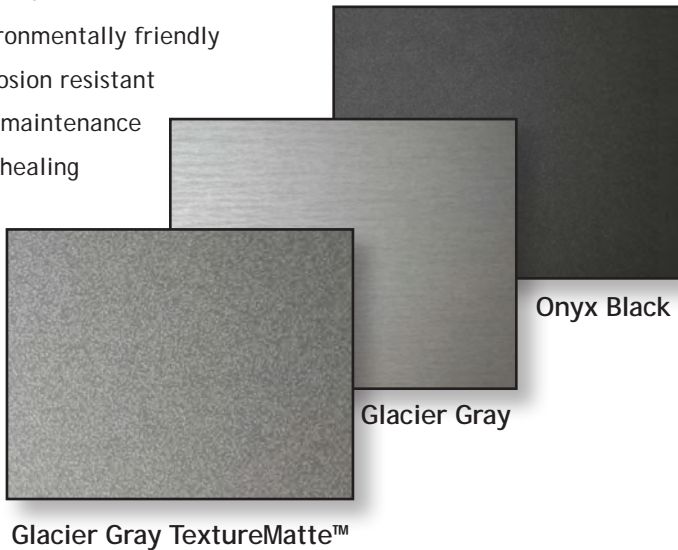


IMETCO is Proud to Bring You United Zinc - The *Only* Architectural Zinc Mined and Produced in America!

Available exclusively from IMETCO, this exquisite material is mined and produced right here in the United States! United Zinc™ is:

- Timeless
- Environmentally friendly
- Attractive
- Corrosion resistant
- Formable
- Low maintenance
- Durable
- Self-healing

United Zinc's longevity as a building material is measured not in years, but generations; zinc roofs that are hundreds of years old are still in use. A natural metal, United Zinc retains its beauty over its entire life span. It is pre-treated for immediate aesthetic appeal and continues to develop its blue-gray patina as it ages.



In addition to being non-corrosive and environmentally-friendly, United Zinc is virtually maintenance free; zinc's self-healing nature can even make scratches disappear over time. As a fungistat, United Zinc resists mold, mildew and fungus, but its runoff is "clean" and will not harm desirable vegetation like other exotic metals can.

In terms of recyclability, United Zinc not only has extremely high recycled content (more than 30% comes from recycled or secondary zinc), it is also 100% recyclable and has a high scrap value.

United Zinc's flexibility and formability make it an ideal material for a variety of design styles and manufacturing techniques. Since its natural patina creates a durable, corrosion resistant surface, United Zinc is a long-lasting material that is suitable for most climates.

United Zinc LEED Contribution

LEED MR 2.1 Construction Waste Management:
Zinc can easily be separated from other materials for recycling. Zinc has a very high scrap value, and can be recycled indefinitely.

LEED MR 4.1 Recycled Content:
More than 30% recycled content comprises United Zinc

LEED MR 5.1 Regional Materials:
Extracted & processed into zinc ingot in Clarksville, TN

Additional Information:
Water runoff from United Zinc is completely harmless to vegetation and groundwater.

Upon completion of its useful service, all United Zinc materials are 100% recyclable.



SERIES 300

One of the greatest benefits of United Zinc is symmetry - the symmetry of IMETCO's Series 300 standing seam roofing system.

The precision engineering of Series 300 delivers long-term weather-tight performance. The strong yet workable properties of zinc make it an ideal material for specialty manufacturing processes available with the Series 300 system, such as tapering and curving. Together, Series 300 and United Zinc offer a lifetime of protection and incomparable beauty.

In addition to the Series 300 system, IMETCO offers a variety of products made with United Zinc:

- TwinLok standing seam roofing
- Wall panels
- Fascia & coping
- Gutters & downspouts
- Coil & flat stock (27.5" max width)



800.646.3826 (p) • 770.908.2264 (f)

www.imetco.com

A recognized leader in the metal roofing industry, IMETCO™ offers a full range of standing seam metal roofing, metal wall panels, fascia and coping systems, and a variety of accessories.

For more than a decade, we at IMETCO have enjoyed our reputation as a manufacturer committed to providing only the highest quality of products. Our staff comprises expertise in metal roofing, design, drafting, engineering, testing, code compliance, manufacturing, and more. Above all, our staff excels in providing unparalleled customer service.

Our special capabilities, such as curving, tapering and field forming, allow you to realize your creativity through the beauty and strength of our metal systems. Our product lines include:

- Architectural and structural standing seam roofing systems
- Symmetrical and asymmetrical profiles
- Wall panels
- Fascia and coping systems
- Accessories
- And more!

All systems are available in a variety of materials and specialty finishes. Our in-house engineering team provides project support and produces custom shop drawings for each and every job. Our project managers work as an extension of your organization to streamline the procurement and delivery of materials. Our value-added production services help us accommodate even the most aggressive installation schedules.

With a zeal for excellence, the IMETCO team is dedicated to offering a level of service and support that exceeds expectations.

Your satisfaction is our only measure of success!



Material

United Zinc's custom alloy is crafted using 99.995% pure special high grade zinc, and the continuous introduction of titanium and copper. It is then continuously cast and rolled into solid zinc strip. This custom alloy and rolling process ensures its stability and uniformity, and the standard of excellence for which IMETCO is known.

Copper % by wt.	0.10 - 0.25
Titanium % by wt.	0.06 - 0.10
Zinc % by wt.	balance

Gauges

Roofing:	027 (.7 mm); 032 (.8 mm); 039 (1.0 mm)
Wall panels & formed trim:	027 (.7 mm); 032 (.8 mm); 039 (1.0 mm); 047 (1.2mm)
Coil & flat stock:	027 (.7 mm); 032 (.8 mm); 039 (1.0 mm); 047 (1.2mm)

Physical Properties

Density:	0.259
Melting Point (°F):	792
Coefficient of Thermal Expansion (µin/in-°F):	15.4

Mechanical Properties

Tensile Strength (ksi):	21-28
% Elongation (in 2"):	30-45
Hardness (R15T):	50-68
Shear Strength (ksi):	24-28

Special Mechanical Test Parameters: Ref. ASTM B69-98a, Section 7.1.1: for tensile properties testing, the recommended rate of separation of the heads should be 0.125 in./min., which is equivalent to a cross head speed of 0.250 in./min.; and Section 7.1.2: for hardness testing, the dwell time of the major load should be 15 seconds.

Corrosion Performance

United Zinc is resistant to weather and atmospheric corrosion. Exposure causes a zinc carbonate film to form, which provides long-term protection.

Installation

United Zinc features a high-performance plastisol back coating to protect the material from interior surface corrosion. While a degree of ventilation is still recommended, IMETCO's United Zinc panels can typically be installed in the same manner as other metal roofing and wall systems.

Maintenance

United Zinc is essentially maintenance free. If desired, the surface may be cleaned with any detergent solution that does not contain alkalines, acids or chlorides. Acetone solvents can be used to remove contaminants like adhesive residue.

High-Performance Metal Roofing, Wall and Edge Systems & Accessories

www.imetco.com | 800.646.3826 | learn@imetco.com