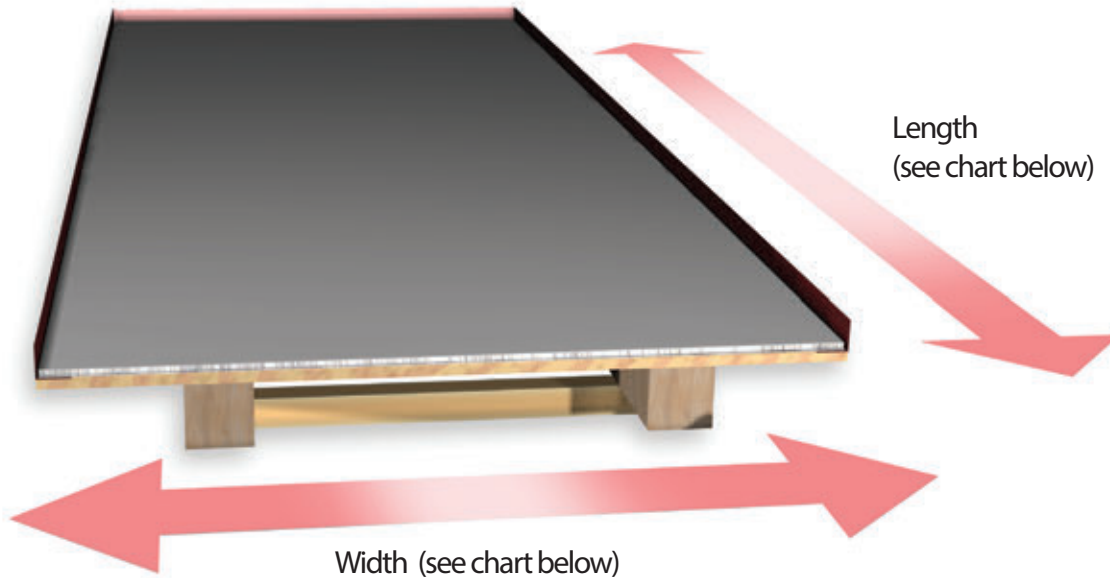




FLAT SHEETS



MPI offers a wide range of colors, paint systems and gauges of flat sheets for your projects, many of which are available in stock or available from stock coil. Special orders for nonstocked items are available - please contact your MPI representative.



Flat sheets are available in standard lengths based upon gauge and coatings, and are listed below:

Width:

41 9/16" = 26 ga. SMP & GLM

48 3/8" = 22 ga. & 24 ga. GLM

24 ga. PVDF

22 ga. PVDF*

*(special order only; 5K lbs min.)

Length:

10' 1" = 26 ga.

10' 0" = 22 ga. & 24 ga.

Finishes:

Acrylic Coated Galvalume®

Polyvinylidene Fluoride (Kynar 500® PVDF)

Silicone Modified Polyester

NOTE:

All data represented on this sheet may not be applicable to all widths and gauges. Please contact your MPI representative for more information.

Galvalume® Sheet Steel

Material Description

Common ASTM designations for the construction industry are Commercial Steel (CS) types A and B, Forming Steel (FS), and Structural Steel (SS) Grades 33,37, 40, 50, and 80. U.S. Steel also offers customized grades upon request, contact the U. S. Steel Construction Sales Group. GALVALUME® Sheet Steel may be temper passed and/or tension leveled to improve sheet shape and surface finish.

GALVALUME® coatings are approximately 43% zinc, 55% aluminum, with the balance containing primarily silicon and iron for good coating adhesion. U. S. Steel uses low silicon for improved coating ductility (see U. S. Steel Technical Bulletin on “Tension-Bend Staining of Prepainted GALVALUME® Sheet” for more information). U. S. Steel recommends chemical treatment for bare and painted applications. GALVALUME® Sheet Steel is produced to customer specifications, often in conformance with ASTM A792. Table 1 lists ASTM coating weights.

Coating Weight	Triple-Spot Total both Sides (oz/ft²)	Single-Spot Total both Sides (oz/ft²)	Triple-Spot Minimum Per Side (oz/ft²)
AZ 50	0.50	0.43	Not Specified
AZ 55	0.55	0.50	Not Specified
AZ 60	0.60	0.52	Not Specified

Corrosion Protection

Bare GALVALUME® Sheet Steel has exceptional corrosion protection. Samples from the initial GALVALUME® Sheet production are still in outdoor exposure testing and are performing very well. Figure 1 shows recent results. Inspections of 25-year-old bare GALVALUME® roofs support these tests. For most environments, the full lifetime of the product has not yet been determined.

With GALVALUME® Sheet Steel’s excellent bare corrosion resistance, it is typically only painted for aesthetic reasons in high slope roofing applications. U. S. Steel qualifies paints that provide the best corrosion protection. Using these paints with qualified coil coaters ensures the best corrosion performance

Quality Control

U. S. Steel GALVALUME® Sheet Steel is tested for coating adhesion, surface appearance, hardness, tensile and coating weight before shipping, ensuring customers only the highest quality product.

Formability

GALVALUME® Sheet Steel is easily roll-formed or stamped. Vanishing oil can be mill applied as a lubricant to assist in roll forming the unpainted product. Also available for enhanced formability and corrosion resistance is a mill-applied acrylic coating on the surfaces of GALVALUME® Sheet Steel, referred to as ACRYLUME® Sheet Steel (see U. S. Steel Technical Bulletin on ACRYLUME® Sheet Steel for more information). Prepainted GALVALUME® Sheet Steel can be roll formed without the need for additional lubricants. Formability help is available through the U. S. Steel Construction Group.

Warranty

U. S. Steel warrants GALVALUME® Sheet Steel AZ55 for 25 years and 6 months against perforation and AZ50 for 20 years and 6 months against perforation. This warranty applies to unpainted product and painted material only when an approved paint is applied by a qualified coil coater. It only applies for normal exposure conditions. In highly corrosive environments or situations where design issues control the product life, the warranty may not be in effect.