

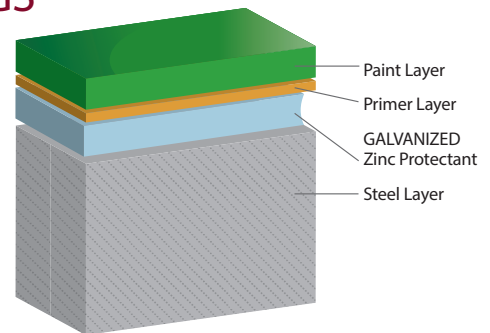


Rust Protection Explained

Along with the paint, a rust-blocking Galvanic coating protects the steel from moisture and the elements. The two most popular rust-inhibitive coatings are Galvalume® and Galvanized zinc coatings. Galvanized coatings use a strictly zinc-based protectant, while Galvalume® uses both zinc and aluminum. Both have benefits that must be considered when choosing the right protection for your job.

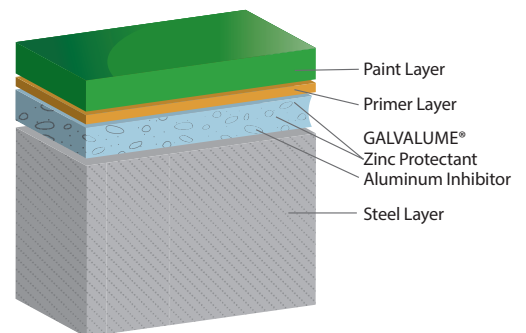
KEY BENEFITS OF USING GALVANIZED COATINGS

- Best protection **short term**: Shows little or no edge-rust for the first 10 years
- Long-term industry standard



KEY BENEFITS OF USING GALVALUME® COATINGS

- Superior protection **long term**. After a small amount of initial edge-rust, has up to 4 times the protection of comparable options.
- 20 year rust-through warranty for painted materials, 25 year for non-painted.

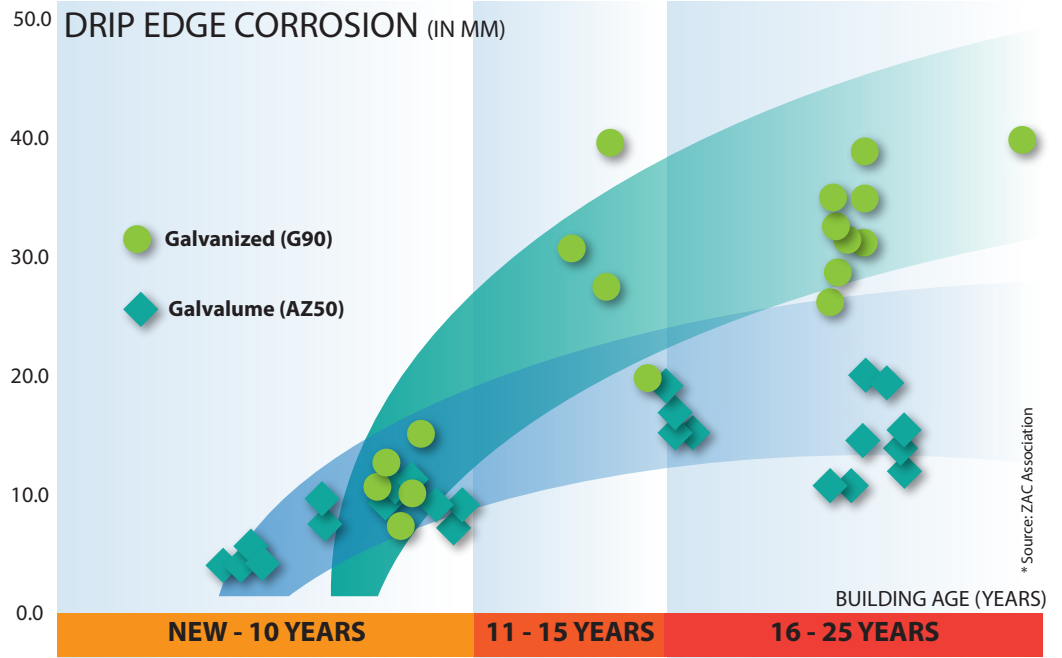


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SOURCE: U.S. Steel Corporation Bulletin: Hail Damage on Coated Steel Roofing
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GALVALUME® AND GALVANIZED PROTECTION OVER TIME

It is important to note that there are various thickness of Galvalume® and Galvanized coatings. Although the chart to the right compares G90 to AZ50, the corrosion protection varies when comparing other thickness of Galvalume® and Galvanized coatings.



G90 (Galvanized) initially out-performs AZ50 (Galvalume®) in edge-rust protection.

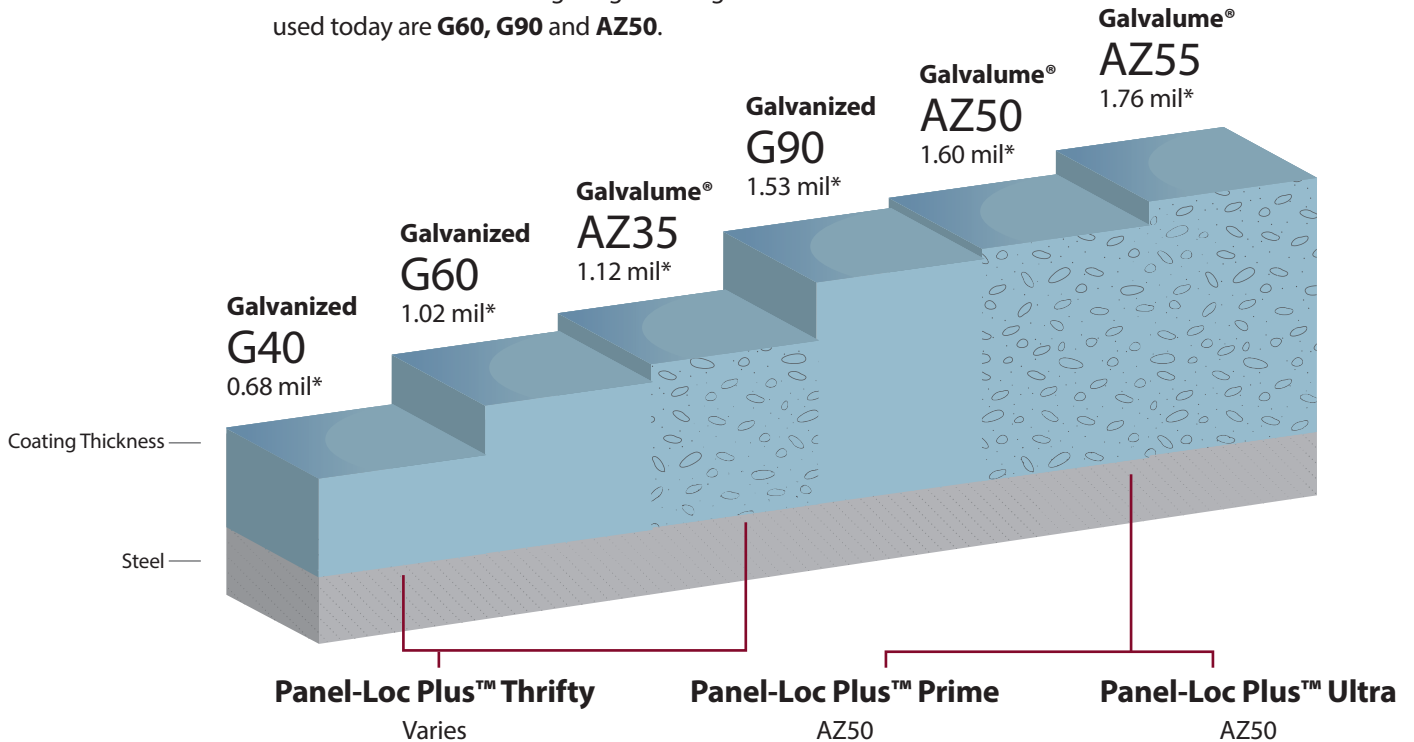
At 10 years there is no discernible difference in performance between these two materials.

After 15 years AZ50 begins to outperform G90.

COATING THICKNESS

Coating thickness is an important factor in the effective application of the protectant layer to the substrate.

The most common coating weights being used today are **G60, G90** and **AZ50**.



* Total minimum thickness for both sides of the substrate
Source: United States Steel Corporation Technical Bulletin - TCP 2012.4