

ZM60 VALUE IN THE AGRICULTURAL MARKET

DURABILITY

Everlast Roofing now offers ZM60 (.60 oz/ft²) zinc–aluminum–magnesium coated steel, manufactured in accordance with ASTM A1046. This advanced metallic coating provides substantially improved corrosion protection compared to traditional hot-dipped galvanized coatings.

Unlike conventional galvanized steel, which relies solely on zinc for sacrificial protection, ZM60 combines zinc, aluminum, and magnesium to create a multi-layered corrosion defense system. Aluminum enhances barrier protection, while magnesium promotes the formation of a dense, stable corrosion layer that actively protects cut edges and scratches.

In real-world agricultural environments, ZM60 delivers approximately two to four times the service life of G100 galvanized steel with the same nominal coating weight, with significantly reduced red rust and superior resistance to ammonia, chlorides, and fertilizer exposure.

PROVEN PERFORMANCE IN AGRICULTURAL ENVIRONMENTS

Corrosion Resistance

ZM60 forms a stable, adherent corrosion layer that resists attack from ammonia vapors, animal waste, fertilizers, and salts.

Ammonia Resistance

Ammonia is one of the most aggressive corrosive agents in barns and livestock facilities. ZM60's magnesium-enhanced coating chemistry significantly slows zinc depletion and prevents premature red rust formation, making it ideal for animal confinement applications.

Cut-Edge Protection

The magnesium component promotes a self-healing effect at cut edges and scratches, dramatically reducing localized corrosion.

Formability

Maintains coating integrity and corrosion resistance when roll-formed into complex panel profiles.

Reduced Maintenance

Longer service life reduces repainting, repair, and replacement costs.

CORROSION TESTING PERFORMANCE

ASTM B117 Salt Spray Test

ASTM B117 is the industry-standard accelerated corrosion test used to compare metallic coatings under identical conditions. In this test, ZM60 demonstrates up to 8x greater corrosion resistance than traditional hot-dipped galvanized steel.

Additional Testing Results (ZM60 vs. G100):

- Salt Spray Test: 8x improvement
- Cyclic Salt Spray Test: 6x improvement
- Cyclic Corrosion Test: 3x improvement
- Natural Exposure: 2x improvement

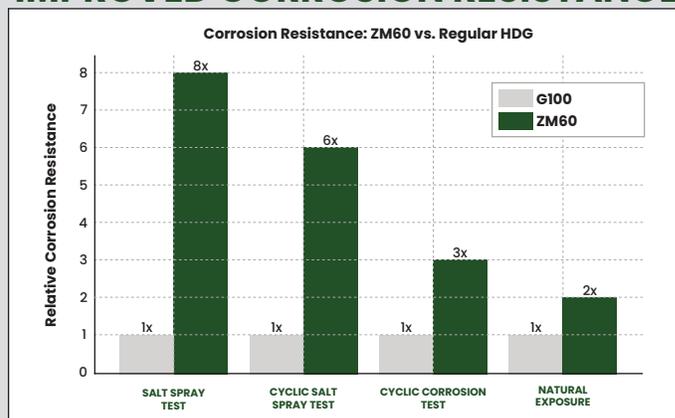
These results confirm ZM60's superior performance in environments that closely resemble agricultural, coastal, and chloride-rich conditions.

This bulletin is not to question whether corrosion will occur, but rather to determine how quickly it progresses and how long the building materials will continue to perform.

ZM60 VS. G100

| CATEGORY | G100 | ZM60 Zn-Al-Mg (ASTM A1046) |
|------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------|
| COATING COMPOSITION | Zinc only (sacrificial protection) | Zinc + ~5-6% Aluminum + ~1-2% Magnesium |
| CORROSION RESISTANCE | Degrades rapidly in barns, manure, fertilizer and chloride exposure | 2-4x longer service life in agricultural and fertilizer applications |
| CUT-EDGE PROTECTION | Exposed edges corrode quickly; red rust forms early | Magnesium-based corrosion layer provides self-healing cut-edge protection |
| SERVICE LIFE IN BARNs | 5-10 years typical before red rust | 15-20+ years depending on ventilation and exposure |
| SERVICE LIFE IN FERTILIZER ENVIRONMENTS | <10 year with direct contact | Significantly extended life with improved chemical resistance |
| AVAILABILITY | Common worldwide, lower cost | Growing availability, modest premium (~10-20% higher) |
| BEST USES | General construction, ductwork, non-aggressive environments | Animal confinement, fertilizer storage, coastal and high-corrosion environments |

IMPROVED CORROSION RESISTANCE



WHY EVERLAST ZM60 PANELS?

- ASTM A1046 Certified metallic coating
- 15-20+ year service life in aggressive environments
- Superior resistance to ammonia, salts, and fertilizers
- Exceptional cut-edge and scratch protection
- Lower total lifecycle cost despite modest initial premium

For over 27 years, Everlast Roofing has delivered products that combine strength, performance, and innovation. Our ZM60-coated panels provide long-term protection and durability where traditional galvanized coatings fall short.

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