

TABLE 1-ASTM A653/A653M DESIGNATIONS OF ZINC-COATINGS REFERENCED IN HMMA STANDARDS

Type	Coating Designation		Minimum Check Limit Triple Spot Test		Minimum Check Limit Single Spot Test		Average Coating Thickness/Side	
	in-lb	SI	oz./sq.ft.*	g/sq. m*	oz./sq.ft.*	g/sq. m*	inches	mm
Galvanneal	A40*	ZF120	0.40	120	0.30	90	.0003	.009
Galvanized	G90*	Z275	0.90	275	0.80	235	.0008	.019

Table 1 shows the coating rates referenced in HMMA standards. Regular [G (Z)] coatings are applied on continuous coating lines and may have either a regular spangle finish or may be treated to have a duller minimized spangle normally provided only in coating designations G90 (Z275) and lighter. Alloyed [A (ZF)] coatings are provided by special processing which produces an iron-zinc alloy coating that is not spangled but is dull gray in appearance and suitable for immediate painting without further treatment other than normal cleaning.

* A40-Stock Material currently being used by Vision Hollow Metal for Doors & Frames.

* G90-Added value (16&18GA) currently being used by Vision Hollow Metal for frames & doors, only when requested. At a premium rate.



GALVANNEAL ADVANTAGES

Galvanneal Steel is a continuously hot dipped galvanized product with the zinc coating completely converted to a zinc-iron alloy. It is this Galvanneal coating that provides corrosion resistance similar to what you see in the automotive industry. All Vision Hollow Metal steel doors and frames are manufactured using Galvanneal Steel as standard.

Why use Galvanneal Steel instead of cold rolled steel?

Galvanneal Steel compared to cold rolled steel is a far superior zinc-iron coated product. In manufacturing of steel doors and frames, there are two distinct advantages for using Galvanneal Steel.

Superior Corrosion Performance: Galvanneal Steel has improved coating control over the entire product, thus the coating composition is consistent and uniform in appearance. The very fine matte finish acts like a primer and is naturally an excellent shield against rust.

Paint-ability and Long Reliable Service Life: A tightly adherent paint film on Galvanneal Steel lasts longer than it would on non-galvanized steel because the zinc helps prevent rusting and blistering. Paint and zinc together will help to extend the rust free life of the product as compared to unpainted galvanized or painted non galvanized steel products.

Overall, Galvanneal has been developed to specifically address the following characteristics:

- A smooth, consistent paint surface
- A minimum of surface preparation in the field
- Maximum paint adhesion
- Complete corrosion protection, inside and out
- Resilience to job site exposure from humidity and water
- Maximum product performance and warranty