

PEELING BACK THE LAYERS

to understand how all metal is not created equal

PAINT - It's the first thing that you see; and if you want it to look as good as it does now in 15 years, **what type of paint matters.**

Kynar = best protection from fading and chalking

Siliconized Polyester = most widely used with good protection against fading and chalking

Polyester = poorest performance of the 3 types

- Chalk is the white powdery residue that is caused by degradation of the resin system at the surface of the finish, mainly due to UV rays.
- Fade is caused when environmental substances attack the pigment and cause the color to change over time.

PAINT THICKNESS - The thicker the paint, the better the panel can weather the elements and protect the substrate.

For prime material, the primer should be at least .2 mils thick and the paint at least .8 mils for a total of 1 mil thickness.

Prime = .2-.3 mils top primer, .7-.8 mils top paint, .5-.7 mils bottom paint including clear coat and backer paint

Thrifty = .1-.2 mils top primer, .5-.6 mils top paint, .5-.7 mils bottom paint including clear coat and backer paint

SUBSTRATE COATING - This is the rust-inhibitor coating. It is under the paint and covers the steel. **Galvalume® outperforms long-term and has a 20-year "rust-through" warranty**

Galvanized does NOT have this warranty, but is better suited for animal confinement

METAL STRENGTH - Metal is made with a "minimum yield strength." Strength or "grade" affects denting and deformation. The higher the grade, the stronger the material.

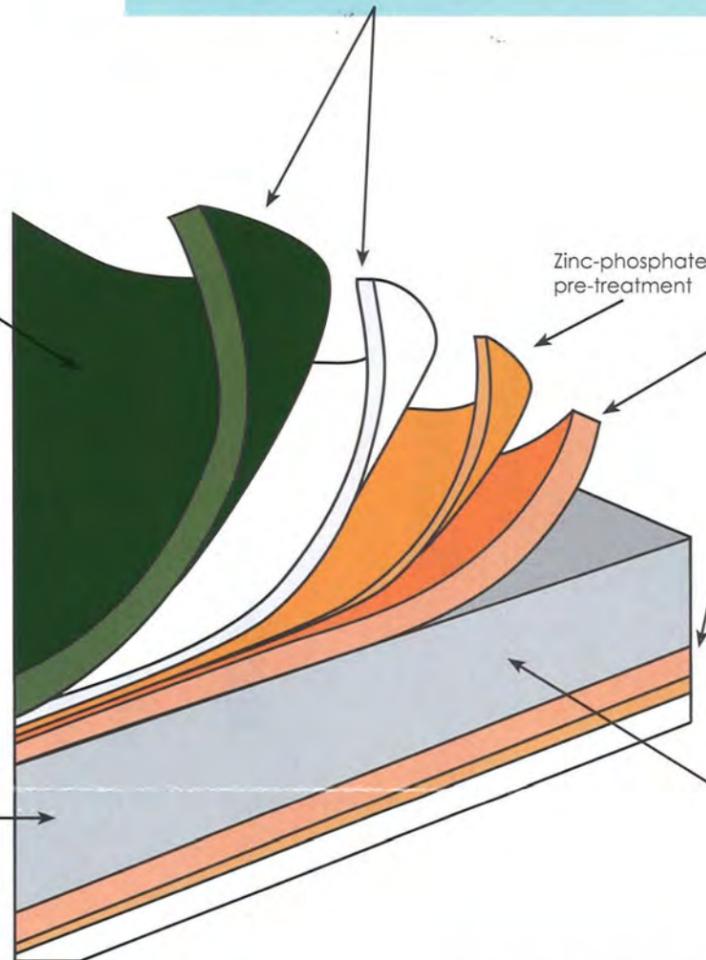
Panels = Minimum grade 80 (80,000 psi minimum)

Trim = Minimum grade 50 (50,000 psi minimum)

METAL THICKNESS - The metal thickness determines the panel's rigidity and strength. The higher the decimal number, the thicker the material.

	29 gauge	26 gauge
Prime	.015" min	.0185" min
Thrifty	.0142" nom	.018" nom

The difference between a .0142 nom and a .015 min equates to 210 pounds more metal on a 40-square roof.



CONSISTENCY - A guarantee that you are getting the same material with each order. Quality can vary greatly from one order to the next with some suppliers. Central States is MCA-certified, which means a consistent quality metal product with every order.



WARRANTY - A guarantee on purchased goods that they will be replaced or repaired if found to be faulty. Paint warranties from the paint supplier do NOT transfer to the end user. The metal panel manufacturer gives a paint warranty to the buyer, which is only valid as long as the manufacturer is in business.

Prime = 40 year paint adhesion warranty; 30 year paint fade and chalk warranty

Thrifty = 10 year paint adhesion warranty

Make sure you know what you are getting for your money. Less expensive metal is usually less expensive for a reason.

Will you still think your less expensive metal purchase is a deal when it looks like this?



Fade



Chalk



Edge Creep



Rust