

## Precision <u>Points</u>

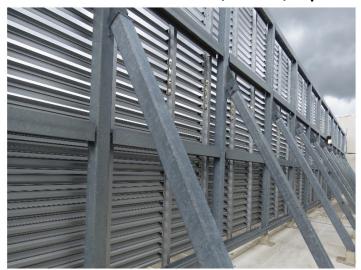
## Compatibility 03 010000 05.04.2025

## **Material Compatibility**

As we discussed before, not all fasteners that are zinc coated are for exterior use...Whenever we are installing fasteners that will be exposed to the exterior,

## we should be asking the question and verifying the fastener.

This includes bolts, screws, expansion type anchors, epoxy type anchors, etc.







Fasteners rated for exterior exposure will be "CORROSION RESISTANT". The fastener should have a salt spray test of over 500 hours per ASTM B117 or have less than 15% surface rust after 15 cycles of salt exposure via the Kesternich Test per FM Global.

	Coating/Plating/Material	% Surface Corrosion
->	Cadium	100% after 4 cycles
DID	~	
NOT	Stainless steel – Type 304	None after 30 cycles
PASS	Stainless steel – Type 316	None after 30 cycles
-	Stainless steel – Type 410	100% after 3 cycles
	Stainless steel – Type 410 with Class 4 coating	5 to 10% after 30 cycles
<b>→</b>	Zinc with clear chromate (ASTM B 633,SC1)	100% after 3 cycles
->	Zinc with yellow dichromate treatment (ASTM B 633,SC1)	100% after 3 cycles
<b>→</b>	Mechanically galvanized, no chromate treatment (ASTM B 695)	100% after 3 cycles

**Electroplated zinc is typically not** 

Hot dipped galvanized, 300 series Stainless Steel, Ceramic Coated *are some examples* 

Please ask your Contractor to verify the corrosion resistance of the fastener with the Mfr technical department (NOT a salesman) and request the *ICC-ES* report for verification, review section #5.

"Corrosion Resistant" and "For Exterior Use"

