

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
DID NOT PASS	Cadium	100% after 4 cycles
	Stainless steel – Type 304	None after 30 cycles
	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
	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
	Mechanically galvanized, no chromate treatment (ASTM B 695)	100% after 3 cycles

Chart by Powers Fasteners

**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"**