



Precision Points

Sheathing 02

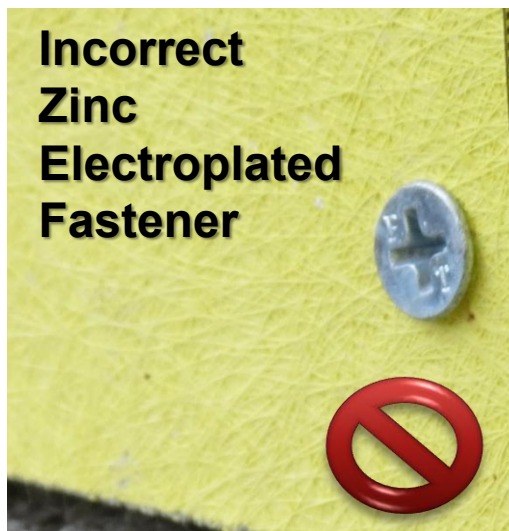
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Exterior Fasteners

Exterior sheathing (*glass mat product or wood*) requires an exterior fastener

A zinc plated screw are for interior use only... (Typically Shinn fasteners)

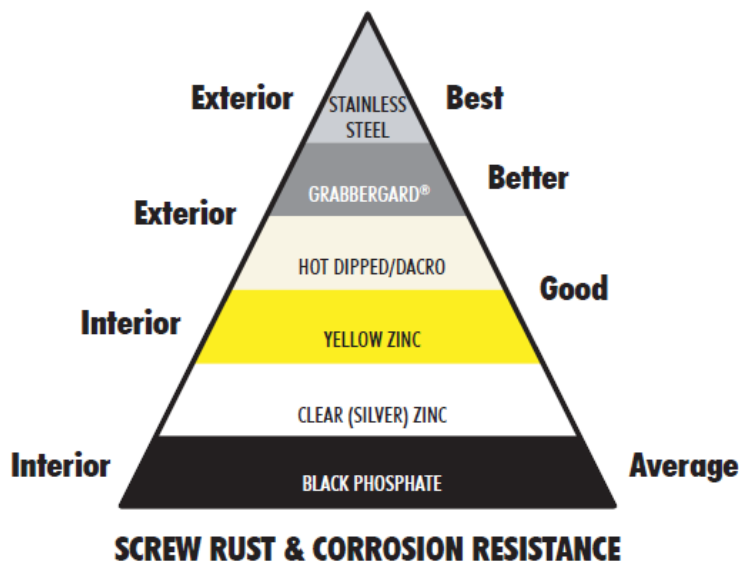


**Incorrect
Zinc
Electroplated
Fastener**

- 4.8 Screw profile must be designed for the framing in use, unless superseded by a more stringent specification. The minimum requirements for sheathing fasteners shall be as follows:
- a. Nails: 11-gauge hot-dipped galvanized roofing nails having a $\frac{7}{16}$ " diameter head, 1- $\frac{1}{2}$ " for $\frac{1}{2}$ " sheathing, 1- $\frac{3}{4}$ " for $\frac{5}{8}$ " sheathing.
 - b. Screws: (1- $\frac{1}{4}$ ") (1- $\frac{5}{8}$ ") #6 buglehead corrosion-resistant fasteners.
 - c. Corrosion Resistance: Where sheet-type weather-resistive barriers or self-adhering membranes are placed over the sheathing, corrosion resistance shall be equal to or greater than a hot-dipped galvanized coating of 1.5 ounces of zinc per square foot of surface area. Where liquid or fluid-applied air and water barriers are applied to the sheathing, or where no sheet-type weather-resistive barrier is used, screws shall have a corrosion resistance of more than 800 hours per ASTM B-117. Stainless steel fasteners may be used in coastal or aggressive environments.
 - d. Edge Distance: The minimum distance from any fastener to the edge or end of the panel is $\frac{3}{8}$ ".
 - e. Spacing: Maximum fastener spacing is 8" o.c.

Zinc plated fasteners have an exposure rating of 24 hours, which is the time that the fastener is typically exposed to wet mud in an indoor environment. Hot dipped galvanized fasteners typically have a 250 hour rating.

Compare these rating with stainless steel (1500-2500hrs) or a coated fastener such as Grabber Gard, which has a 1000+ hr rating.



Several of the sheathing manufacturers have specific requirements for fastener corrosion resistance. Always review the manufacturer specification sheet and the construction documents for more information. If there is a lack of information in these documents, the fastener manufacturer will define the coating requirements for an exterior fastener or the building code.

Please contact the Quality Department if you have any questions.