# EDINA BUILDING DEPARTMENT INFORMATION SHEET

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| IS-009 | none | 03/05/04 |

SUBJECT: Connector/Fastener Corrosion Prevention

CODE REFERENCE: Manufacturers installation requirements

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The Pressure-Treated Wood industry has been voluntarily transitioning away from the use of CCA-C treated wood. Some alternate wood preservatives are more corrosive to connectors, fasteners and flashing. Corrosion of connectors, fasteners and flashing may result in failure of structures resulting in property damage, injury or death.

The following table is based on recommendations of a major manufacturer of connectors and fasteners. The recommendations are based on tests performed on product finishes listed in the table by the manufacturer in compliance with American Wood-Preservers' Association Standard E12-94, "Standard Method of Determining Corrosion of Metal in Contact With Treated Wood".

| Product Finishes | Wood Treatment | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Untreated Wood | Chromated Copper Arsenate (CCA-C) | DOT Sodium Borate (SBX) | Alkaline Copper Quaternary (ACQ-C & ACQ-D Carbonate) | Copper Azole (CBA-A & CA-B) | DOT Sodium Borate with $NaSiO_2$ | Ammoniacal Copper Zinc Arsenate (ACZA) | Other Pressure Treated Wood |
| | G60[a] | ✓ | **X Do Not Use With Treated Wood X** | | | | | | |
| | G90[a] | ✓ | ✓ | ✓ | **X** | **X** | **X** | **X** | **X** |
| | G185[a] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | **X** | **X** |
| | Post Hot-Dip Galvanized[b] | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | **X** | **X** |
| | Stainless Steel | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

[a] Represents ounces of zinc per square foot of base material. Example: G90 = .90oz/$ft^2$.

[b] Post Hot-Dip Galvanized products are galvanized after the product is manufactured.

It is critical the installer match appropriate connectors and fasteners and the type of wood preservative during construction to avoid structural failure.