



Steel Corrosion Testing with Preservative Treated Wood



Why discuss this issue?

- Many of our products used in exterior/outdoor applications
- Combination with preservative treated wood is common – CCA treated standard for 30 years
- CCA is going to be withdrawn from consumer market at end of 2003
- <u>Some</u> new treatments are <u>likely</u> more corrosive than CCA
- Customers/Specifiers/Industry Groups are asking us what we know and for a recommendation

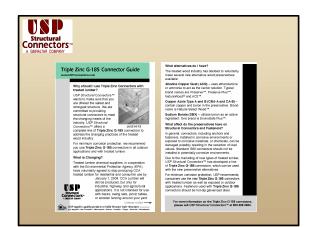


What actions are we taking?

- Developing treating industry contacts and relationships-encouraging cooperation of Chemical Suppliers
- Researching available facts and information
- Raising issue awareness pop bulletin
- Salt Spray testing 500 hour exposure
- AWPA E12 testing 5 woods with 5 steels
- Osmose Research Protocol Nails, screws, hangers









Where is our testing occurring?

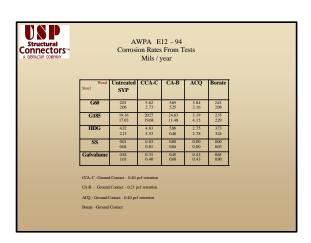
- In back yards all across America
- Laboratory testing Stork Twin Cities in Minneapolis – independent third party
- Retention verification and consultation with TPI

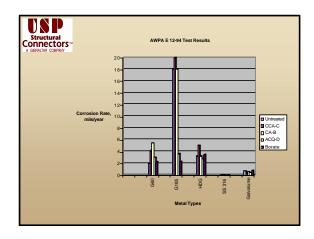


When will test results be available ?

- E 12 samples being prepared 1st week of March – 672 hour (28 day) exposure period – Preliminary results in hand
- Osmose Research Protocol samples in preparation around end of March – 2160 hour (90 day) exposure period - Preliminary Results end of July
- What are we likely to learn?

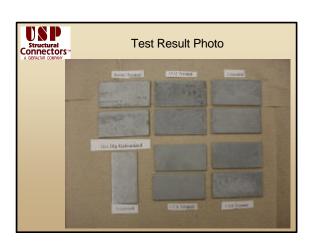






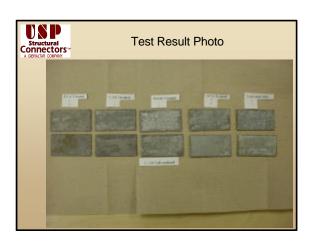






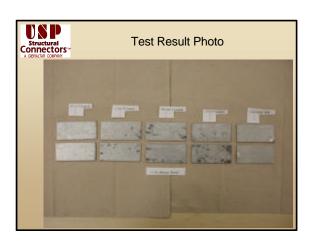


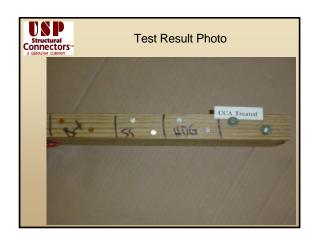


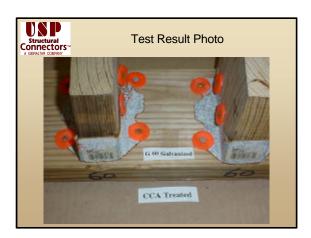


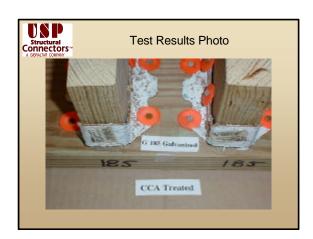




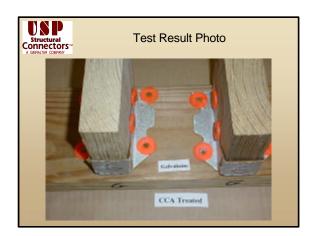
















Current USP Guidelines on Corrosion

- Corrosion Potential should be part of connector selection criteria
- Best available option is to use stainless steel connectors and
- For exterior applications, use of HDG or G185 Triple Zinc connectors with HDG fasteners is advised as minimum corrosion protection
- Ask for and follow the recommendations of the preservative wood company for use of connectors and fasteners in contact with their brand of treated wood
- · Connectors and their fasteners should be of like materials
- USP WS wood screws are not recommended for use with preservative or fire retardant treated wood
 For further questions contact USP Technical Services

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