

Corrosion of Galvanized Fasteners used in Cold-Formed Steel Framing

by
Steel Framing Alliance and
University of Hawaii at Manoa

Funded by US Dept. of Housing and Urban
Development

2000-2003



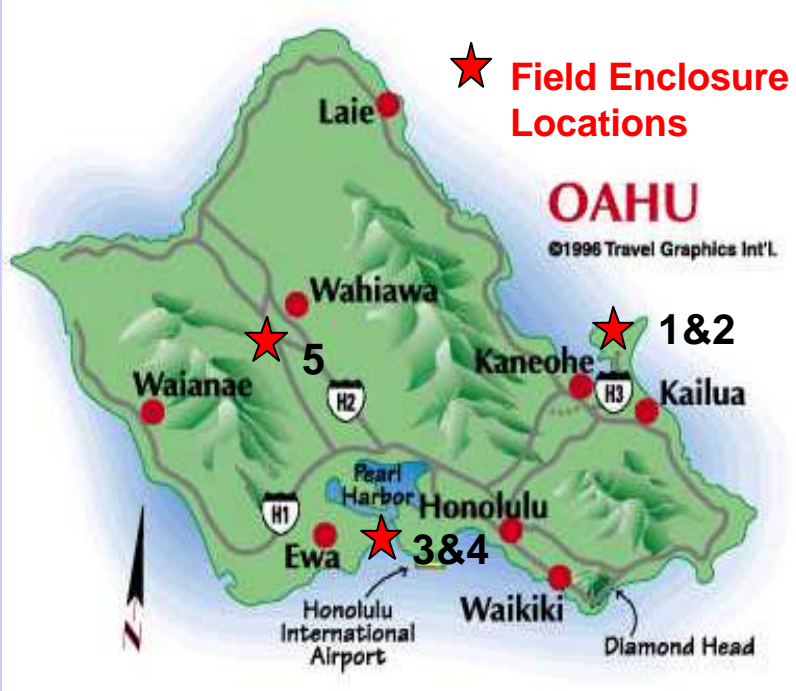
Steel Framing Alliance™

Steel. The Better Builder.

Department of Civil Engineering
University of Hawai'i at Manoa



**Light Gauge Steel
Engineers Association**



★ **Field Enclosure Locations**

Field Enclosures

- Five sites on Oahu
- Coastal and inland
- Monitor weather and atmospheric chloride content
- Connection coupons in various locations in enclosure
- Tested at 6 month intervals
- Correlate with corrosion chamber results



Weather Station



Datalogger



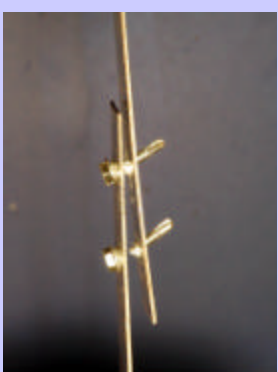
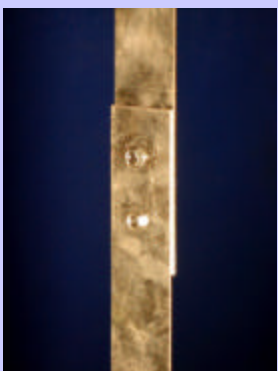
Typical Field Enclosure

Corrosion Chamber

- Cyclic salt-spray, 100% humidity and heated drying
- Various fasteners & coatings
- Correlate with Field Enclosures



Corrosion Chamber



Connection Coupon



Typical Connection Test