



## **POST HOT-DIPPED GALVANIZED FASTENERS & CONNECTORS ARE APPROPRIATE FOR USE WITH CHEMONITE®ACZA TREATED WOOD**

- **Post Hot-Dipped Galvanized (HDG) connectors, fasteners and bolts: G90 minimum standard in accordance with ASTM A153 (which specifies the post or batch dipped galvanizing process) should be used with ACZA treated wood. This minimum requirement is particularly important for exterior applications where exposure to various elements exist.**
- **In the most highly corrosive environments, such as exposure to salt air and water, industrial fumes or fertilizer storage, high humidity or constant wetting, stainless steel (Type 304 or 316) should be used. For below grade Permanent Wood Foundations, building codes generally require stainless steel.**
- **Always use the same type metal for assembly of connectors and fasteners as dissimilar metals can accelerate corrosion. Aluminum or electroplated galvanized metals should never be used in contact with any treated wood. These metals are not accepted by the building codes for use in exterior applications.**

**The above recommendations are based upon years of field experience and laboratory testing.\* These recommendations are consistent with the recommendations made for other ammonia-based preservatives and has been an industry practice spanning several decades.**

**IMPORTANT NOTE:** Products which are cut, stamped or manufactured from continuous HDG steel (i.e. G185 HDG per ASTM A653) result in raw or exposed edges. Such products are not "post Hot-Dipped Galvanized" and are likely to exhibit greater corrosion. By definition, galvanizing is the act of coating steel with zinc. Post Hot-Dipped Galvanizing (ATSM Standard A153) specifies total emersion in a molten zinc bath followed by a centrifuging process to ensure a smooth and uniform coating of equal thickness on all surfaces including edges and threads. One of the most important benefits of a HDG coating is the uniform application of zinc, even on edges and corners - the most likely place for corrosion to begin.

Simpson Strong-Tie has published several technical bulletins indicating that only its stainless steel fasteners are appropriate for use with ACZA treated wood. This recommendation is based upon Simpson's interpretation of its own data from accelerated testing it performed in 10 days. Simpson maintains the only fasteners manufactured by Simpson that are appropriate for use with ACZA treated wood are stainless steel.† Acceptable (ASTM A153) Post Hot-Dipped Galvanized fasteners are available from a number of other manufacturers.

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\* *Corrosion tests were conducted over 60 days (i/a/w Military Specification MIL-L-19140E) on post HDG fasteners used with ACZA treated wood (and ACA, the original formulation). The test results indicate that Post HDG fasteners are appropriate for use with ACZA treated wood.*

† *Based upon long term testing and years of experience, J.H. Baxter believes the accelerated tests performed by Simpson do not appropriately evaluate corrosion characteristics of ammonia-based preservative systems. In these systems, there is an initial sacrifice of some portion of the zinc galvanizing, and then corrosion slows dramatically. This differs from other systems, which exhibit greater corrosion over time. For this reason, the accelerated test performed by Simpson does not yield results indicative of fastener life with ACZA treated wood. However, if you choose to use Simpson's fasteners, you should follow Simpson's recommendations.*