



## ArmorGalv® for nails

Many of the structural failures, and particularly roof failures, in hurricanes and other storms, are due to corroded fasteners, no longer able to hold structures in place.



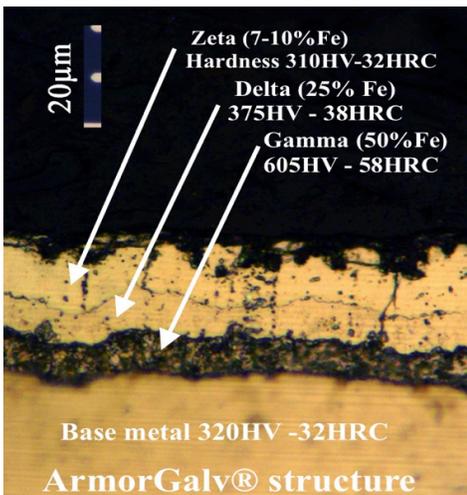
Typical deck collapse due to corroded fasteners



This is what happens in a storm, if fasteners corrode and no longer have the holding power required to hold the roof in place.

The **ArmorGalv®** technology is the solution.

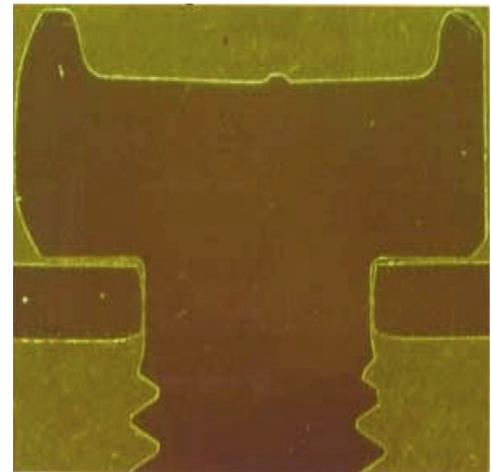
**ArmorGalv®** is not merely a sacrificial coating. It diffuses zinc atoms into the surface of any steel part, creating a zinc/iron alloy, which has proven to last decades in the most severe environments.



**ArmorGalv®** Cross section



*M6 cap head screw with captive washer*



Cross section of cap screw showing precision and uniformity of coating



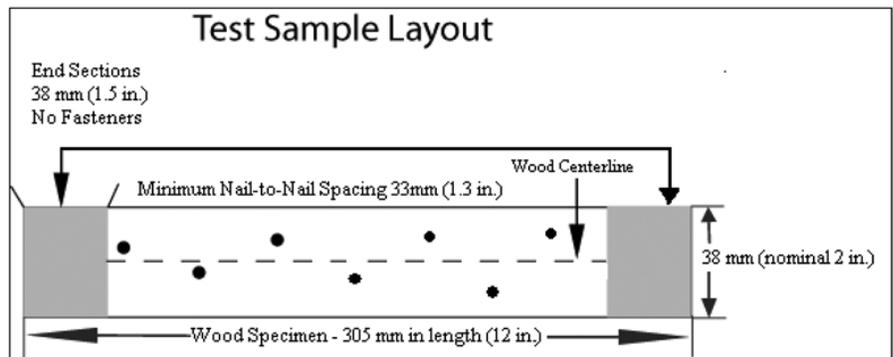


**ArmorGalv® will pass the toughest tests in the business**

The new ASTM G-198 test, which is the new designated test for fasteners in pressure treated wood states:

**9.3.2 The evaluation of the fasteners shall be conducted by installing them into the treated wood specimen as done in application, that is, by hand driving or power driving with no pre-drilled pilot holes.**

Wood test sample with driven nails is exposed to a cyclic salt test for 120 days. This is a far more severe test than the procedures used up to now.



Driving nails into wood with a nail gun, or even by hand, exerts a great deal of friction on the coating and will cause most coatings to be damaged or scraped off. Since **ArmorGalv®** is a zinc iron alloy, with a surface hardness of 31 HRC, rather than a coating, it does not get damaged during the driving process.

**ArmorGalv® has already passed the Dade county tests for roofing and siding nails.**

**From the Dade county test report:**

- 6.2 The acceptance criteria is defined as any test specimen that exhibits corrosion on an area in excess of 5% of its total surface area shall be considered as failing this test.
- 6.3 Based on the acceptance criteria the following conclusions were made:

Product	Status
1-1/4" Ring-Shanked, ArmorGalv®-Coated, Roofing Nails	PASS
2-1/2" x 0.131" Ring-Shanked, ArmorGalv®-Coated, Sheathing Nails	PASS

**ArmorGalv® is the solution to fastener corrosion**

