

# TEXAS DEPARTMENT OF INSURANCE

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Engineering Services / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104  
Phone No. (512) 322-2212 Fax No. (512) 463-6693 TDI website: www.tdi.state.tx.us

OCT 13 2005

Texas Dept. of Insurance  
Engineering Services

## Proposed Change to Windstorm Building Requirements or Procedures in the Texas Windstorm Insurance Association Plan of Operation

Name W. Harvey Cappel P.E. Date 10-10-07  
Organization/Company Raelectric Engineering Telephone 409-939-4271  
Address 2614 Quaker Dr. Fax No. 409-998-3716  
City, State, Zip Texas City, TX 77590

Please complete the following for each proposed change:  
(A separate form must be submitted for each proposed change.)

1. Proposed change to the following building requirement or procedure:

2003 Texas Revisions to the 2003 IRC. Section R329  
Corrosion Resistance.

→ Change requirements for shingle nails having to  
be "Hot Dip Galvanized".

2. Proposed change is to:

Document 2003 Texas Revisions to the 2003 IRC  
Section R329.1.1 Seaward Areas (1.)  
Table \_\_\_\_\_  
Figure \_\_\_\_\_  
Appendix \_\_\_\_\_

3. Please use the following format to present the proposed change:

LINE THROUGH LANGUAGE TO BE DELETED UNDERLINE NEW LANGUAGE TO BE ADDED

4. Proposed Change. Please specify change. Attach additional sheets if needed.

see attached Revised Section R329

5. Reason for Change. Please state purpose and reason for change. Attach additional sheets if needed.

The Hot-Dip Galvanized nails for shingles are not  
available for nail guns so they have to be hand  
nailed, adding to the cost of shingle roofs. This  
extreme corrosion resistant specification is not  
required because shingles are usually replaced long  
before the non galvanized fasteners fail due to corrosion.

For Texas Department of Insurance use only:

Item Number: IRCO9-July 2006  
BCAC Form 100-99 Amended January 1, 2005

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**Proposed Change to Windstorm Building Requirements or Procedures in the Texas Windstorm Insurance Association Plan of Operation**

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6. Attach supporting written or printed information, including, but not limited to, test data, structural calculations, and/or documentation that the proposed change complies with the minimum wind load criteria and design standards specified in the building requirements adopted by the Texas Department of Insurance. Attach supporting written or printed information relating to the proposed changes to the building requirements or procedures contained in the Texas Windstorm Insurance Association Plan of Operation.

*Pursuant to Article 21.49, §6C of the Insurance Code, this proposal form must be complete and submitted to the address specified above not later than the 30<sup>th</sup> day before the date of a scheduled advisory committee meeting for the proposal to be considered at that meeting.*

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Add the following new section:

**SECTION R324  
CORROSION RESISTANCE**

**R324.1 Corrosion resistance.** Metal connectors and fasteners shall be corrosion resistant in accordance with the following:

**R324.1.1 Seaward areas.**

1. **Open Areas:** Metal connectors and fasteners located in open areas shall be either stainless steel and meet ASTM A167; hot-dip galvanized after fabrication and meet ASTM A123 or ASTM A153; or hot-dip galvanized or galvanized prior to fabrication and meet ASTM A653. Open areas shall include porches, exterior coverings, roof coverings, and the underside of elevated structures. *Exception:* →
2. **Vented or Enclosed Areas:** Metal connectors and fasteners located in vented or enclosed areas may meet the requirements of Item 1 above or shall be hot-dip galvanized or electrogalvanized in accordance with ASTM A641; mechanically deposited zinc coatings in accordance with ASTM B695; or electrodeposited zinc coatings in accordance with ASTM B633. Vented or enclosed areas shall include attics, exterior wall stud cavities, and crawl spaces. **Exception:** One-half inch diameter or greater steel bolts are not required to be corrosion resistant.
3. **Conditioned Areas:** Metal connectors and fasteners located in conditioned areas are not required to be corrosion resistant. Conditioned areas include heated and cooled living areas.

**R324.1.2 Inland I and Inland II areas.**

1. **Open Areas:** Metal connectors and fasteners located in open areas shall be either stainless steel and meet ASTM A167; hot-dip galvanized after fabrication and meet ASTM A123 or ASTM A153; hot-dip galvanized or galvanized prior to fabrication and meet ASTM A653; hot-dip galvanized or electrogalvanized in accordance with ASTM A641; mechanically deposited zinc coatings in accordance with ASTM B695; or electrodeposited zinc coatings in accordance with ASTM B633. **Exception:** One-half inch diameter or greater steel bolts are not required to be corrosion resistant. Open areas shall include porches, exterior coverings, roof coverings, and the underside of elevated structures.
2. **Vented or Enclosed Areas:** Metal connectors and fasteners located in vented or enclosed areas may meet the requirements of Item 1 above or shall be epoxy-coated in accordance with ASTM A899. **Exception:** One-half inch diameter or greater steel bolts are not required to be corrosion resistant. Vented or enclosed areas shall include attics, exterior wall stud cavities, and crawl spaces.
3. **Conditioned Areas:** Metal connectors and fasteners located in conditioned areas are not required to be corrosion resistant. Conditioned areas include heated and cooled living areas.

→ Fasteners for shingles are not required to meet this section but must meet the requirements of (2) below. (Vented or Enclosed Areas)

2003 Texas Revisions to the 2003 IRC  
Effective January 1, 2005

IRCO9 - July 2006