

TEXAS DEPARTMENT OF INSURANCE

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

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

Name: Engineering Staff _____ Date: May 2, 2006 _____
Organization/Company: Texas Department of Insurance _____ Telephone: (512) 322-2212 _____
Address: 333 Guadalupe _____ Fax No.: (512) 463-6693 _____
City, State, Zip: Austin, TX 78714 _____

**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:

Refer to attached pages.

2. Proposed change is to:

Document: 2006 International Building Code _____
Section: 1716 (new section) _____
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.

Refer to attached pages.

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

Refer to attached pages.

For Texas Department of Insurance use only:

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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 30th 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 1716
CORROSION RESISTANCE

1716.1 Corrosion resistance. Metal connectors and fasteners shall be corrosion resistant in accordance with the following:

1716.1.1 Seaward areas.

1716.1.1.1 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:

1. Porches
2. Decks
3. Carports
4. Exterior wall coverings
5. Roof coverings
6. Metal ties for stone and masonry veneer
7. The underside of elevated structures
8. Anchors for securing mechanical equipment
9. Garage door attachments
10. Roof vent attachments
11. Skylight attachments
12. Impact protective systems (shutters)

1716.1.1.2 Vented or Enclosed Areas. Metal connectors and fasteners located in vented or enclosed areas may meet the requirements of Section 1716.1.1.1 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:

1. Attics
2. Exterior wall stud cavities
3. Crawl spaces
4. Window and exterior door attachments
5. Roof sheathing
6. Wall sheathing

Exception (corrosion resistance not required):

1. One-half inch diameter or greater steel bolts

1716.1.1.3 Conditioned Areas. Metal connectors and fasteners located in conditioned areas are not required to be corrosion resistant. Conditioned areas include:

1. Heated and cooled living areas

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1716.1.2 Inland I and Inland II areas.

1716.1.2.1 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. Open areas shall include:

1. Porches
2. Decks
3. Carports
4. Exterior wall coverings
5. Roof coverings
6. Metal ties for stone and masonry veneer
7. The underside of elevated structures
8. Anchors for securing mechanical equipment
9. Garage door attachments
10. Roof vent attachments
11. Skylight attachments
12. Impact protective systems (shutters)

Exception (corrosion resistance not required):

1. One-half inch diameter or greater steel bolts

1716.1.2.2 Vented or Enclosed Areas. Metal connectors and fasteners located in vented or enclosed areas may meet the requirements of Section 1716.1.2.1 or shall be epoxy-coated in accordance with ASTM A899. Vented or enclosed areas shall include:

1. Attics
2. Exterior wall stud cavities
3. Crawl spaces
4. Window and door attachments
5. Roof sheathing
6. Wall sheathing

Exception (corrosion resistance not required):

1. One-half inch diameter or greater steel bolts

1716.1.2.3 Conditioned Areas. Metal connectors and fasteners located in conditioned areas are not required to be corrosion resistant. Conditioned areas include:

1. Heated and cooled living areas

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Reason for Texas Revision:

The proposed revision to the IBC provides much needed guidance for corrosion resistance for fasteners and metal connectors. As currently written, the IBC does not provide clear guidance for corrosion resistance of metal connectors and fasteners when used on all types of structures that are built in an environment where fastener and connector corrosion is likely. The proposed clarification provides guidance for the different levels of corrosion resistance as a function of the geographic location of the structure as well as the location on and within the structure. The proposal itemizes type of construction and building products that are applicable under each category.

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