

TEXAS DEPARTMENT OF INSURANCE

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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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Date: June 12, 2006
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**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:

Method for calculating deflection of perforated shearwalls in IBC

2. Proposed change is to:

**Document IBC
Section 2305.3.8.2.9**

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.

2305.3.8.2.9 Deflection of shear walls with openings. The controlling deflection of a blocked shear wall with openings uniformly fastened throughout shall be ~~taken as the maximum individual deflection of the shear wall segments~~ calculated in accordance with Section 2305.3.2 with the width of the shear wall, b, equal to the sum of the full height shear wall segment widths that meet the aspect ratios of Section 2305.3.4, and the shear demand, v, equal to the adjusted shear resistance determined in accordance with Section 2305.3.8.2.2. divided by the appropriate shear resistance adjustment factors of Table 2305.3.8.2.

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

The current method for calculating deflection of perforated shearwalls does not reflect the newest ideas on the subject. The American Forest and Paper Association has developed a methodology for determining the deflection of a perforated wood shear wall. The current language is somewhat confusing and requires more work. This code change clarifies and simplifies the process to calculate the deflection of a shear wall with openings.

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Item Number: _____
BCAC Form 100-99 Amended January 1, 2005

Page ____ **of** ____

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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.**

Wood Design Focus Magazine, 2002 "Perforated Shearwall Design", written by Phil Line, P.E.

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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Page ____ **of** ____