

ICC-600

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Standard for Residential Construction in High Wind Regions

Fourth Public Comments Draft
March 2008

ICC-600-_____

**Standard for
Residential Construction
In High Wind Regions**

**International Code Council
4051 West Flossmoor Road
Country Club Hills, IL 60478-5795**

FOREWORD

[The information contained in this foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, this foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to this standard.]

Introduction

In 2002, upon direction from the International Code Council (ICC) Board of Directors, the ICC Standards Council appointed a consensus committee to write a standard for the design and construction of residential buildings in high wind regions. The scope of the standard is to specify prescriptive methods to provide wind resistant designs and construction details for residential buildings constructed in high wind regions.

Development

This is the first edition of ICC-600 *Standard for Residential Construction in High Wind Regions*. This standard was developed by the ICC Consensus Committee on Hurricane Resistant Construction (IS-HRC) that operates under ANSI Approved ICC Consensus Procedures for the Development of ICC Standards. The consensus process of ICC for promulgating standards is accredited by ANSI. The IS-HRC Committee is a balanced committee formed and operated in accordance with ICC rules and procedures.

The meetings of the IS-HRC Committee were open to the public and interested individuals and organizations from across the country participated. The technical content of currently published documents on residential construction in high wind regions, including hurricane prone regions, was reviewed and considered by the committee. The information from these documents helped form a basis for the regulations provided in ICC-600, but the exact provisions adopted by the committee were determined based upon the scope and intent of ICC-600. The requirements of ICC-600 are based on the intent to establish provisions consistent with the scope of the ICC family of codes and standards that are written to adequately protect public health, safety, and welfare; provisions that do not necessarily increase construction costs; provisions that do not restrict the use of new materials, products or methods of construction; and provisions that do not give preferential treatment to particular types or classes of materials, products, or methods of construction.

Adoption

ICC-600 *Standard for Residential Construction in High Wind Regions* is available for adoption and use by jurisdictions throughout the United States. Its use within a governmental jurisdiction is intended to be accomplished through adoption by reference in accordance with proceedings establishing the jurisdiction's laws. At the time of adoption, jurisdictions should insert the appropriate information in provisions requiring specific local information, such as the name of the jurisdiction.

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This document reflects the changes to the ICC-600 Standard For Residential Construction In High Wind Regions based upon committee meeting on public comments 2/14/08. Only those sections affected are shown and are subject to public comment at this time.

**CHAPTER 2
BUILDINGS WITH CONCRETE OR MASONRY
EXTERIOR WALLS**

202 GENERAL

202.1.7.3.1 Screws, bolts and nails shall be corrosion resistant by coating, galvanization, or composition (stainless steel, nonferrous metal, or other suitable corrosion resistant material). The corrosion resistance of galvanized fasteners with diameters over 3/8 inch shall be equal to or equivalent to that provided demonstrated by compliance with ASTM A153. The corrosion resistance of fasteners with diameters of 3/8 inch or less shall be demonstrated through one of the following methods:

1. Compliance, or Corrosion resistance equivalent, to with ASTM A153.
2. Compliance, or Corrosion resistance equivalent, to with ASTM A641 Class 1.
3. Corrosion resistance exhibiting not more than 5% red rust after 1000 hours exposure in accordance with ASTM B117.
4. Corrosion resistance exhibiting not more than 5% red rust after 280 hours exposure for nails, 1000 hours for roof tile fasteners or 360 hours exposure for other carbon steel fasteners in accordance with ASTM G85, ANNEX 5.

202.1.7.3.2 Metal plates and connectors shall be stainless steel, hot dipped galvanized prior to fabrication to meet ASTM A653 Coating Designation G185, ~~or~~ hot dipped galvanized after fabrication to meet ASTM A123, or provided with a protective coating as specified by ANSI/TPI 1.

**CHAPTER 3
BUILDINGS WITH WOOD OR STEEL LIGHT-FRAMED EXTERIOR WALLS**

304 FASTENERS AND CONNECTORS

304.3.1 Screws, bolts and nails shall be corrosion resistant by coating, galvanization, or composition (stainless steel, nonferrous metal, or other suitable corrosion resistant material). The corrosion resistance of galvanized fasteners with diameters over 3/8 inch shall be equal to or equivalent to that provided demonstrated by compliance with ASTM A153. The corrosion resistance of fasteners with diameters of 3/8 inch or less shall be demonstrated through one of the following methods:

1. Compliance, or Corrosion resistance equivalent, to with ASTM A153.
2. Compliance, or Corrosion resistance equivalent, to with ASTM A641 Class 1.
3. Corrosion resistance exhibiting not more than 5% red rust after 1000 hours exposure in accordance with ASTM B117.
4. Corrosion resistance exhibiting not more than 5% red rust after 280 hours exposure for nails, 1000 hours for roof tile fasteners or 360 hours exposure for other carbon steel fasteners in accordance with ASTM G85, ANNEX 5.

304.3.2 Metal plates and connectors shall be stainless steel, hot dipped galvanized prior to fabrication to meet ASTM A653 Coating Designation G185, ~~or~~ hot dipped galvanized after fabrication to meet ASTM A123, or provided with a protective coating as specified by ANSI/TPI 1.
