



# **Rough Draft**

## **ICC Standard on Log Construction**

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**ICC/ANSI  
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**American National Standard**

**Log Construction Standard**

**International Code Council  
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# American National Standard

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# FOREWORD

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## **Introduction**

## **Development**

The meetings of the IS-LOG Consensus Committee were open to the public and interested individuals and organizations from across the country participated. The technical content of currently published codes and documents on log construction was reviewed and considered by the committee. While there were many similarities among the practices and documents reviewed, there were marked philosophical differences that were considered by the committee. The requirements in ICC 400-2005 are based on the intent to establish provisions consistent with the scope of the ICC family of codes and standards that 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.

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# CHAPTER 1 ADMINISTRATIVE PROVISIONS

## SECTION 101 ADMINISTRATIVE PROVISIONS

**101.1 Scope.** This standard establishes the minimum requirements for log structures to safeguard the public health, safety and welfare through structural, thermal, and settling provisions. This standard is intended for adoption by local governmental agencies and organizations setting model codes to achieve uniformity in technical design criteria in building codes and other regulations.

## SECTION 102 APPLICABILITY

**102.1 Applicability.** The construction of new log structures shall comply with this standard.

## SECTION 103 PROVISIONS FOR COMPLIANCE

**103.1 Provisions for compliance.** This standard provides the minimum design requirements for log construction. In lieu of these provisions, or where these provisions are not applicable, accepted engineering methods and practices in accordance with the appropriate sections of the International Building Code or the International Residential Code as applicable for the intended use of the structure. Structural elements that meet the applicability provisions of Section 102, but are not within the limits of the design provisions of this Standard shall be designed in accordance with the appropriate sections of the *International Building Code* or the *International Residential Code* as applicable.

## SECTION 104 COMPLIANCE ALTERNATIVES

**104.1 Compliance Alternatives.** Nothing in this standard is intended to prevent the use of designs, products or technologies as alternatives to those prescribed by this standard, where equivalence is provided, and such equivalence is approved by the authority adopting this standard.

## SECTION 105 CONVENTIONS

**105.1 Conventions.** Dimensions that are not stated as “maximum or minimum” are absolute. All dimensions are subject to conventional industry standard.

## SECTION 106 INSPECTIONS

**106.1 Inspections.** During the course of the construction the code official is authorized to make all of the necessary inspections, or the code official shall have the authority to accept reports of inspections by approved agencies or individuals. Reports of such inspections shall be in writing and be certified by a responsible officer of such approved agency or by the responsible individual. The code official is authorized to engage such expert opinion deemed necessary to report upon unusual technical issues that arise.

## SECTION 107 FOUNDATIONS

**107.1 Foundations.** Foundations systems shall be designed in accordance with the appropriate sections of the *International Building Code* or the *International Residential Code* as applicable for the intended use of the structure.

## SECTION 108 DESIGN LOADS

**108.1 Design Loads.** Loads and load combinations shall be in accordance with the provisions of this section.

**108.2 Loads.** Loads applied to log structures shall be in accordance with the International Building Code.

**Exception:** For log structures used as one- and two-family dwellings and their accessory structures, loads shall be permitted to be determined in accordance with AF&PA’s Wood Frame Construction Manual (WFCM)

for One- and Two-Family Dwellings, or the International Residential Code.

**108.3 Load combinations.** Load combinations applied to log structures shall be in accordance with the International Building Code.

**Exception:** For log structures used as one- and two- family dwellings, load combinations shall be permitted to be determined in accordance with the International Residential Code

**108.4 Dead Loads Due to Self Weight.** Dead loads due to self weight of logs shall be in accordance with the provisions of this section.

**108.4.1 Gravity Loads.** The weight of logs used to determine dead loads for calculating foundation and other support conditions shall be based on log profile (size), wood species (density), and moisture content.

**108.4.2 Uplift Resistance.** The weight of logs used to determine dead loads for resisting uplift forces shall be based on the calculated in-service moisture content.

## **SECTION 109 REFERENCE DOCUMENTS**

**109.1 Reference Documents.** The codes and standards referenced in this standard shall be considered part of the requirements of this standard to the prescribed extent of each such reference. Chapter 5 contains a complete list of all referenced standards.