



ICBO Evaluation Service, Inc.

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ACCEPTANCE CRITERIA FOR RESIDENTIAL CHIMNEY LINERS

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PREFACE

Evaluation reports issued by the ICBO Evaluation Service, Inc. (ICBO ES), are based upon performance features of the Uniform Building Code, Uniform Mechanical Code, Uniform Plumbing Code and related codes. Section 105 of the Uniform Building Code is the primary charging section upon which evaluation reports are issued. Section 105 reads as follows:

The provisions of this code are not intended to prevent the use of any material or method of construction not specifically prescribed by this code, provided any alternate has been approved and its use authorized by the building official.

The building official may approve any such alternate, provided he finds that the proposed design is satisfactory and complies with the provisions of this code and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in suitability, strength, effectiveness, fire resistance, durability, safety and sanitation.

The building official shall require that sufficient evidence or proof be submitted to substantiate any claims that may be made regarding its use. The details of any action granting approval of an alternate shall be recorded and entered in the files of the code enforcement agency.

The attached acceptance criteria for the general code sections noted have been issued to provide all interested parties with guidelines on implementing performance features of the codes. The attached acceptance criteria were developed and adopted following public hearings conducted by the Evaluation Committee. These criteria may be revised from time to time as the need dictates.

ICBO ES may consider alternate criteria, provided the proponent submits valid data demonstrating that the alternate criteria are at least equivalent to the attached criteria and otherwise meet the applicable performance requirements of the codes. Notwithstanding that a material, type or method of construction, or equipment, meets the attached acceptance criteria, or it can be demonstrated that valid alternate criteria are equivalent and otherwise meet the applicable performance requirements of the codes, if the material, product, system or equipment is such that either unusual care with its installation or use must be exercised for satisfactory performance, or malfunctioning is apt to cause unreasonable property damage or personal injury or sickness relative to the benefits to be achieved by the use thereof, ICBO ES retains the right to refuse to issue or renew an evaluation report.

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ACCEPTANCE CRITERIA FOR RESIDENTIAL CHIMNEY LINERS

I. INTRODUCTION

This criteria establishes the basis of recognition in ICBO ES evaluation reports for alternate residential chimney liners. The liners are field installed in new or existing masonry chimneys complying with the code, that vent gas-, liquid- and solid-fuel-fired residential-type appliances where maximum continuous flue gas outlet temperatures do not exceed 1000°F. Chimney liners under this criteria are not intended for use with heating appliances that cause condensation of corrosive acids in the chimney or that create positive pressures in the chimney system.

Any reference to the term "code" is to the Uniform Building Code edition used by the ICBO ES.

Required tests must be conducted by a recognized testing agency having the necessary personnel, experience, equipment and facilities.

A qualified representative of the testing agency shall witness the manufacture and installation of the test specimen. As an option to observing manufacture, the testing agency may randomly select samples for manufacturer's inventory or purchase on the open market. If sampling is to be from manufacturer's inventory, details of the procedure must be submitted for ICBO ES approval prior to sampling. The test report must be in sufficient detail to identify specimen properties that might affect performance including dimensions, weight and other relevant physical properties of the major components; and to describe installation, including a description of fastening elements. Photographs shall be included in the report.

As an alternate, tests may be conducted at the proponent's facility, with prior approval from the ICBO Evaluation Service, Inc., provided the test fixtures and equipment are properly calibrated by an approved agency, and provided sample preparation and tests are observed by an approved independent party who must also issue the test report.

II. BASIC PRODUCT INFORMATION

A complete description of the product is necessary with specifications based on the code or national standards, where feasible. The following illustrates the type of information necessary:

A. Metal liner—Type (alloy), grade, thickness, size, coating, etc.
Cementitious liner—Density, mix design, compressive strength, ingredients, etc.

B. General information on manufacturing process, such as mixing, forming, extruding, firing, curing, coloring, glazing or finishing.

III. REQUIRED TEST INFORMATION AND OTHER DATA

The chimney liner must comply with Underwriters Laboratories Inc. Standard No. 1777, First Edition, dated March 18, 1988, for chimney liners. Sections Nos. 1 through 5 refer to general requirements. Sections Nos. 6 through 13 refer to construction, assembly and accessories and Sections Nos. 14 through 32 refer to test methods and conditions of acceptance. Section No. 33 refers to marking and identification in the field.