



# ICBO Evaluation Service, Inc.

A subsidiary corporation of the International Conference of Building Officials

5360 WORKMAN MILL ROAD

• WHITTIER, CALIFORNIA 90601-2299

• (310) 699-0543  
FAX (310) 695-4694

## ACCEPTANCE CRITERIA FOR CELLULAR (FOAMED) THERMOPLASTIC TRIM MOLDING

AC110  
January 1995

Revised May 1995\*

### PREFACE

Evaluation reports issued by the ICBO Evaluation Service, Inc. (ICBO ES), are based upon performance features of the *Uniform Building Code*<sup>™</sup>, *ICBO Uniform Mechanical Code*<sup>™</sup> and related codes. Section 104.2.8 of the Uniform Building Code is the primary charging section upon which evaluation reports are issued. Section 104.2.8 reads as follows:

The provisions of this code are not intended to prevent the use of any material, alternate design 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 the building official 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.

Published by the

### International Conference of Building Officials

5360 WORKMAN MILL ROAD • WHITTIER, CALIFORNIA 90601-2298

Copyright © 1995 ICBO Evaluation Service, Inc.

PRINTED IN THE U.S.A.

\*Editorially revised to reflect 1994 code references.

# ACCEPTANCE CRITERIA FOR CELLULAR (FOAMED) THERMOPLASTIC TRIM MOLDING

## 1. INTRODUCTION

**Scope:** The purpose of these criteria is to establish requirements for ICBO Evaluation Service, Inc. (ICBO ES), recognition of cellular thermoplastic interior trim moldings under Sections 601.5.5 and 2602.6 of the 1994 Uniform Building Code.

## 2. REFERENCE DOCUMENTS

- 2.1 ICBO ES Acceptance Criteria for Test Reports.
- 2.2 ICBO ES Acceptance Criteria for Quality Control Manuals.
- 2.3 ICBO ES Test Protocol for Video Recording of Tests.

## 3. BASIC INFORMATION AND REPORT OF TESTS

**3.1 Definition:** Cellular thermoplastic trim moldings are foamed thermoplastic moldings of various lengths, profiles and finishes. The moldings are decorative interior trims for inside corners, crown, baseboard and inside door casings.

**3.2 Testing:** An ICBO ES or NES recognized independent testing agency shall sample test specimens, conduct tests and prepare test reports.

**3.3 Test Reports:** Test reports shall comply with the ICBO ES Acceptance Criteria for Test Reports. Reports of room corner tests shall include a video tape following the ICBO ES Test Protocol for Video Recording of Tests dated July, 1994.

## 4. REQUIRED DATA

**4.1 Room Corner Test:** A typical system of trim moldings as shown in Figure 1 Test Arrangement, shall be installed and tested in accordance with U.B.C. Standard 26-3 and meet the conditions of

acceptance therein. (Inside corner molding is optional and will only be recognized if tested.)

**4.2 Ignition Properties:** The self-ignition temperature of the molding shall be determined in accordance with U.B.C. Standard 26-6. The self-ignition temperature shall be  $\geq 650^{\circ}\text{F}$ .

**4.3 Comparative heat release rate tests in accordance with ASTM E 1354:** Data comparing the molding and select-grade red oak flooring (as used for calibration of the ASTM E 84 tunnel) must be provided. The comparison shall be conducted with the specimens oriented horizontally and exposed to an irradiance of  $25 \text{ kW/m}^2$ . Three specimens each of the red oak and the molding shall be tested.

## 5. LIMITATIONS OF RECOGNITION

**5.1** The moldings shall have a minimum density of 20 pounds per cubic foot.

**5.2** Installation of the molding shall not cover more than 10 percent of the wall or ceiling area.

**5.3** The dimensions of the molding shall not exceed 2 square inches of cross-sectional area. In no case shall the molding width exceed a maximum of 8 inches.

## 6. QUALITY CONTROL

The decorative trim molding shall be produced under a quality control program administered by an inspection agency currently recognized by ICBO ES or the National Evaluation Service. A quality control manual developed in concert with the approved agency and complying with the ICBO ES Acceptance Criteria for Quality Control Manuals must be submitted.

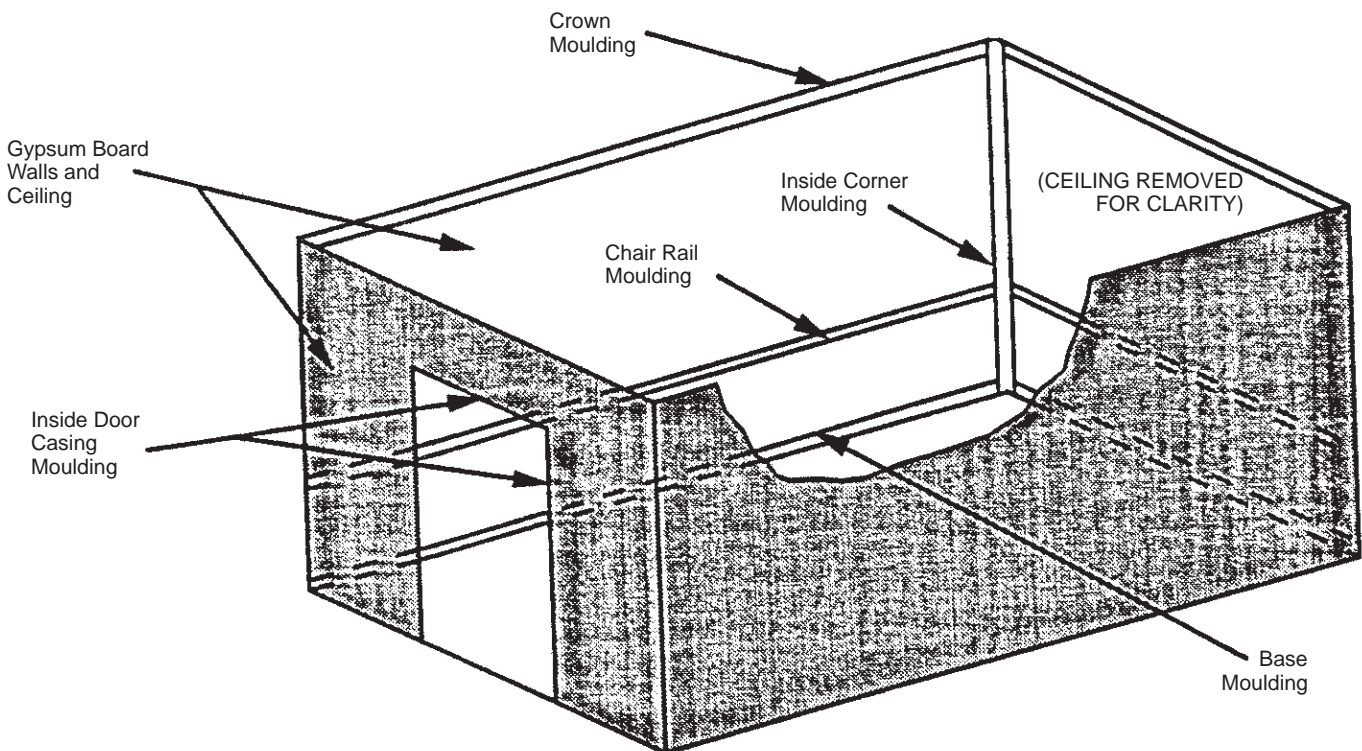


FIGURE 1—TEST ARRANGEMENT