



ICBO Evaluation Service, Inc.

A subsidiary corporation of the International Conference of Building Officials

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ACCEPTANCE CRITERIA FOR ADHESIVELY ATTACHED DRYWALL TAPE (PROPRIETARY)

AC119

July 1996

PREFACE

Evaluation reports issued by the ICBO Evaluation Service, Inc. (ICBO ES), are based upon performance features of the *Uniform Building Code*[™], *ICBO Uniform Mechanical Code*[™] 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

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PRINTED IN THE U.S.A.

ACCEPTANCE CRITERIA FOR ADHESIVELY ATTACHED DRYWALL TAPE (Proprietary)

1. INTRODUCTION

The purpose of these criteria is to establish the requirements for ICBO Evaluation Service, Inc. (ICBO ES), recognition of adhesive drywall tape for use in fire-resistive assemblies under Section 2511.5 of the Uniform Building Code, and in sound transmission control assemblies under Appendix Chapter 12, Division II, of the code.

2. BASIC INFORMATION AND REPORTS OF TESTS

2.1 Product Description: Complete information, as applicable, concerning dimensions, tolerances, adhesives, manufacturing processes and installation details.

2.2 Packaging and Identification: Method of packaging and identification of product.

2.3 Testing: An ICBO ES or NES accredited independent testing agency shall sample test specimens, conduct tests and prepare test reports. Testing laboratories shall comply with the ICBO ES Acceptance Criteria for Laboratory Accreditation (AC89).

2.4 Test Reports: Test reports shall comply with the ICBO ES Acceptance Criteria for Test Reports (AC85).

3. REQUIRED DATA

3.1 Width: The width of the tape shall be determined in accordance with ASTM C 474-89, Section 17. Condition of acceptance is that the width shall be not less than $1\frac{7}{8}$ inches (48 mm) nor more than $2\frac{1}{4}$ inches (57 mm). The width of the tape in an individual roll shall vary not more than $\pm \frac{1}{32}$ inch (0.8 mm).

3.2 Thickness: The thickness of the tape shall be determined in accordance with ASTM C 474-89, Section 18. Condition of acceptance is that the thickness shall not be more than 0.012 inch (0.30 mm).

3.3 Tensile Strength: Tensile strength shall be determined in accordance with ASTM C 474-89, Section 14. Condition of acceptance is that the tensile strength in the cross direction shall not be less than 30 pounds per inch of width (524 N/mm).

3.4 Dimensional Stability: Dimensional stability shall be determined in accordance with ASTM C 474-89, Section 16. Condition of acceptance is that expansion shall be no more than 0.4 percent lengthwise and no more than 2.5 percent crosswise.

3.5 Bond of Tape to Gypsum Board: Five specimens shall be tested for peel adhesion in accordance with ASTM D 3330-90, Method A, with the exception that the butt joints of the substrates shall be comprised of two tapered-edge Type X gypsum wallboard panels complying with ASTM C 36. The adhesive drywall tape shall be applied over the joint in accordance with the manufacturer's instructions. Condition of acceptance shall be that failure is 100 percent within the paper layer of the gypsum panel.

3.6 Durability: Ten specimens shall be prepared for peel adhesion tests in accordance with ASTM D 3330-90. Five specimens shall be conditioned at 90°F (32.2°C.) and 90 percent relative humidity and five shall be maintained at 73.4°F. $\pm 2^\circ\text{F}$. (23°C. $\pm 1^\circ\text{C}$.) and 50 ± 2 percent relative humidity for 48 hours. Following conditioning, specimens shall be tested in accordance with ASTM D 3330, Method A. Condition of acceptance is that the exposed specimens shall exhibit a minimum peel strength of 80 percent of that of the control specimens.

3.7 Fire-resistive Construction: Testing in accordance with U.B.C. Standard 7-1 (ASTM E 119) is required if fire-resistive construction is sought. Details of construction, including the maximum or average gap, if any, between horizontal and vertical gypsum board joints must be specified. The type of gypsum board used to conduct the fire test and the appropriate ASTM product specification for that product shall be reported.

3.8 Sound Transmission Control: Optional recognition of assemblies for sound transmission control in accordance with Section 1208 of Appendix Chapter 12 of the code.

3.9 Packaging and Marking: Each item or package shall be marked with the name, brand or trademark of the manufacturer or seller and the size. The evaluation report number shall be marked on the inside of each roll. Limitations on use shall be noted on the packaging or in the installation instructions.