



UL 1715

STANDARD FOR SAFETY

Fire Test of Interior Finish Material

*UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL*



Documents
Document Sharing Hub

UL Standard for Safety for Fire Test of Interior Finish Material, UL 1715

Third Edition, Dated September 9, 1997

Summary of Topics

This revision to ANSI/UL 1715 is being issued to reflect the recent reaffirmation of UL 1715 as an American National Standard. No changes have been made to the requirements within this Standard.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin. Changes in requirements are marked with a vertical line in the margin and are followed by an effective date note indicating the date of publication or the date on which the changed requirement becomes effective.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

UL provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the note following the affected item. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

No Text on This Page

*UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL*



Documents

Document Sharing Hub

SEPTEMBER 9, 1997
(Title Page Reprinted: January 17, 2013)



ANSI/UL 1715-2003 (R2013)

1

UL 1715

Standard for Fire Test of Interior Finish Material

First Edition – October, 1989
Second Edition – January, 1994

Third Edition

September 9, 1997

This ANSI/UL Standard for Safety consists of the Third Edition including revisions through January 17, 2013.

The most recent designation of ANSI/UL 1715 as a Reaffirmed American National Standard (ANS) occurred on January 17, 2013. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

UL's Standards for Safety are copyrighted by UL. Neither a printed nor electronic copy of a Standard should be altered in any way. All of UL's Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of UL.

COPYRIGHT © 2013 UNDERWRITERS LABORATORIES INC.

**UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL**



Documents
Document Sharing Hub

No Text on This Page

*UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL*



Documents
Document Sharing Hub

CONTENTS

INTRODUCTION

1 Scope	5
2 General	6
2.1 Units of measurement	6
2.2 Undated references	6

PERFORMANCE

3 General	6
4 Ignition Source	7
5 Fire Test Room Geometry and Construction	7
6 Specimen Mounting	9
7 Protection and Conditioning of Test Assembly	9
8 Fire Test Room Environment	9
8.1 Ventilation	9
8.2 Ambient conditions in test room	10
9 Instrumentation	10
9.1 Ignition source monitoring thermocouples	10
9.2 Test measurement thermocouples	11
9.3 Visual records	11
10 Test Procedure	11

REPORT

11 General	12
11.1 Materials	12
11.2 Humidity and temperature	12
11.3 Temperature development	12
11.4 Time history of fire growth	13
11.5 Specimen conditions	13

APPENDIX A

GUIDE TO MOUNTING METHODS

A1 Introduction	A1
A2 Acoustical Materials and Other Board Materials	A4
A3 Batt or Blanket-Type Insulating and Other Flexible Materials	A4
A4 Building Units	A4
A5 Coatings or Spray Applied Materials	A4
A6 Plastic Materials	A4A
A7 Wall Covering Material	A5

UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL



Documents
Document Sharing Hub

APPENDIX B**GUIDE FOR SUPPLEMENTAL INSTRUMENTATION**

B1	Introduction	B1
B1.1	General	B1
B1.2	Calorimeters	B1
B2	Thermocouples	B1
B2.1	Specification	B1
B2.2	Locations for room	B1
B2.3	Location for doorway	B2
B2.4	Location in the collection and dust system	B2
B3	Collection Hood and Exhaust Duct	B3
B3.1	Installation and operation	B3
B3.2	Duct Gas Velocity	B4
B3.3	Duct oxygen concentration	B4
B3.4	Duct smoke density	B5
B4	Diffused Flame Gas Burner Ignition Source	B5
B5	Report of Supplemental Data	B6
B5.1	General	B6
B5.2	Calculation of the total rate of heat production	B7

**UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL**



Documents

Document Sharing Hub

No Text on This Page

This page intentionally left blank.

*UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL*



Documents

Document Sharing Hub

INTRODUCTION

1 Scope

1.1 This test method describes the testing procedures and requirements applicable to the classification of interior finish material assemblies by use of a standardized room fire exposure.

1.2 This test method is intended for use in the evaluation of the flammability contribution of wall material assemblies, ceiling material assemblies, or both, exposed to early fire growth under specified room fire exposure conditions. The effectiveness of fire barrier materials as protection for other combustible materials or components within the assembly is of primary interest for this evaluation.

1.3 Data with respect to surface flammability characteristics of interior finish materials is provided by evaluations in accordance with the Standard for Test for Surface Burning Characteristics of Building Materials, UL 723, as described in 1.5.

1.4 The results obtained by use of this test method are intended to be used as one element of the total body of data used in the processes of selecting and controlling materials for use in building construction.

1.5 Related classification information for building materials and assemblies intended for specific end-uses is promulgated under categorical designations in accordance with specified testing procedures. These classification categories are as follows:

a) Surface Burning Characteristics Classification – Establishes the comparative burning characteristics of building materials and assemblies by measurement of flame spread over exposed surfaces and the density of the smoke developed during the fire exposure period. This test method is described in the Standard for Test for Surface Burning Characteristics of Building Materials, UL 723.

b) Fire Resistance Classification – Establishes hourly fire resistance ratings of building assemblies through large-scale fire exposures under specific loading conditions. This test method is described in the Standard for Fire Tests of Building Construction and Materials, UL 263.

c) Roof-Covering Materials Classification – Establishes performance measurements for coverings relative to resistance to exterior fire spread and penetration. This test method is described in the Standard for Test Methods for Fire Resistance of Roof-Covering Materials, UL 790.

d) Roof-Deck Construction Materials Classification – Establishes performance measurements for roofing systems with respect to resistance to the spread-of-flame and damage from underdeck interior fire exposure. Information pertaining to the test method used in this classification is published in the General Information section, under Guide TGKX, in Underwriters Laboratories Inc.'s Annual Building Materials Directory.

2 General

2.1 Units of measurement

2.1.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

2.1.1 revised October 18, 2002

2.2 Undated references

2.2.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

PERFORMANCE

3 General

3.1 A nominal 30 pound (13.6 kg) wood crib is to be used to produce a uniform flame for direct impingement on the walls and ceiling in the corner of an 8 by 12 by 8 foot (2.44 by 3.66 by 2.44 m) high room. The contribution of the wall, ceiling, or both wall and ceiling materials or assemblies, to fire growth is to be defined in terms of:

- a) The time history of temperature development within the room,
- b) The time from ignition to flameover, and
- c) The maximum observed flame progression.

The test is to be conducted with natural ventilation to the room provided through a single doorway 2-1/2 by 7 feet (0.76 by 2.13 m) in width and height, respectively.

3.2 During the test the observed surface burning shall not extend to the extremities of the test specimen nor shall flame project through the doorway opening at any time.

3.3 At the conclusion of the test, observations shall show that the combustive damage, such as burning and charring, of the test materials within the assembly diminishes at increasing distance from the immediate fire exposure area.

3.4 A report of the test results shall be prepared as specified in Report, Section 11.