



UL 2043

STANDARD FOR SAFETY

Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces

UL 2043 Standard for Safety



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UL Standard for Safety for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces, UL 2043

Fourth Edition, Dated October 2, 2013

SUMMARY OF TOPICS

This new edition of UL 2043 has been revised and published to: Reinforce Code language in New 1.4; Revise the Title of Section 3 to Test Equipment and Instrumentation; Revise Section 3, 6.1.3, 6.2.2, 6.2.4, and Section 7 for clarity, correctness and consistency with existing testing practices and procedures; Relocate Normalized Optical Density to Appendix B; Make clarifications to the mounting procedures in Appendix A; and, Reflect ANSI approval of the Standard.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated June 14, 2013.

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OCTOBER 2, 2013

1



ANSI/UL 2043-2013

UL 2043

**Standard for Fire Test for Heat and Visible Smoke Release for Discrete
Products and Their Accessories Installed in Air-Handling Spaces**

First Edition – November, 1992
Second Edition – December, 1996
Third Edition – August, 2008

Fourth Edition

October 2, 2013

This ANSI/UL Standard for Safety consists of the Fourth Edition.

The most recent designation of ANSI/UL 2043 as an American National Standard (ANSI) occurred on October 2, 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>.

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CONTENTS

INTRODUCTION

1 Scope	4
2 General	4
2.1 Units of measurement	4
2.2 Undated reference	5

PERFORMANCE

3 Test Equipment and Instrumentation	5
3.1 General	5
3.2 Ignition source	5
3.3 Test frame enclosure	5
3.4 Collection hood and exhaust duct	5
3.5 Velocity measuring instruments	7
3.6 Gas sampling and analysis equipment	7
3.7 Smoke measuring instruments	9
3.8 Data acquisition	10
3.9 Photographic and video equipment	10
4 Pretest Calibration	10
4.1 General	10
4.2 Gas analyzers	10
4.3 Heat release rate	11
4.4 Photometer system	12
5 Test Specimens	12
6 Test Procedure	12
6.1 Initial preparation	12
6.2 Procedure	12
7 Heat Release Calculations	13
7.1 General	13
7.2 Heat release rate	13
7.3 Smoke release rate	14
7.4 Total smoke released	15
8 Report	15
9 Acceptance Criteria	16

APPENDIX A – GUIDE TO MOUNTING METHODS

A1 Introduction	A1
A2 Loudspeakers, Loudspeaker Assemblies and Their Accessories	A1
A2.1 Test frame enclosure and burner	A1
A2.2 Ceiling mounted product	A2
A2.3 Suspended in air handling space product	A2
A3 Wire Positioning Devices – Plastic Cable Ties	A2

APPENDIX B – NORMALIZED OPTICAL DENSITY

B1 General	B1
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INTRODUCTION

1 Scope

1.1 This is a fire test method for determining the fire performance response of discrete products (including, but not limited to electrical, mechanical, and plumbing equipment) intended to be installed in air handling spaces, such as above suspended ceilings or below floors. These products are subjected to an open flame ignition source and evaluated using a product calorimeter.

1.2 This test may be used to determine fire performance and smoke characteristics of discrete, non-continuous building materials where the Test for Surface Burning Characteristics of Building Materials, UL 723, is not applicable.

1.3 The purpose of this test is to determine the rate of heat release and the rate of smoke release of the burning product samples as they relate to the requirements for fire-resistant and low-smoke-producing characteristics in accordance with the provisions of the following codes: National Electric Code, NFPA 70; International Mechanical Code, NFPA 5000; Standard for the Installation of Air Conditioning and Ventilating Systems, NFPA 90A.

1.4 This test method does not provide information on the performance of products in other fire or test conditions. This test does not investigate the toxicity of the products of combustion.

1.5 This test does not cover the constructional, electrical, or other performance requirements of the product.

1.6 The Codes noted in 1.3 reference the use of UL 2043 for electrical equipment with combustible outer enclosures. Specifically, the "National Electrical Code" and the "International Mechanical Code" expressly state that electrical equipment with metal enclosures shall be permitted. Consequently, UL 2043 is not intended to apply to electrical equipment with metal outer enclosures unless otherwise specified by end-product-standard requirements.

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.