



UL 555C

Underwriters Laboratories Inc. Standard for Safety

Ceiling Dampers



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UL Standard for Safety for Ceiling Dampers, UL 555C

Third Edition, Dated October 11, 2006

Summary of Topics

Revision pages have been issued for the Standard for Ceiling Dampers, UL 555C to reflect the latest ANSI approval date and to incorporate the following revisions:

Addition of evaluation of dampers other than those being compared to hinged-door type dampers.

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.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated October 23, 2009.

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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that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

The following table lists the future effective dates with the corresponding reference.

Future Effective Date	References
January 25, 2011	7.1, 7.2.1, Section 10A, 11.1, 13.1



October 11, 2006
(Title Page Reprinted: May 4, 2010)



ANSI/UL 555C-2010

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UL 555C

Standard for Ceiling Dampers

Prior to the first edition, the requirements for the products covered by this standard were included in the Third Edition of UL 555 titled Fire Dampers and Ceiling Dampers.

First Edition – December, 1992
Second Edition – December, 1996

Third Edition

October 11, 2006

This ANSI/UL Standard for Safety consists of the Third Edition including revisions through May 4, 2010.

The most recent designation of ANSI/UL 555C as an American National Standard (ANSI) occurred on May 4, 2010. 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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INTRODUCTION

1 Scope

1.1 These requirements and methods of tests apply to ceiling dampers and ceiling air diffusers intended for installation in hourly rated fire resistive floor-ceiling and roof-ceiling assemblies. Fire resistive assemblies are investigated in accordance with the Standard for Fire Tests of Building Construction and Materials, UL 263.

1.2 Ceiling dampers are intended for use in sheet metal air duct outlets which penetrate the ceilings of hourly-rated fire resistive assemblies. Ceiling air diffusers are intended for use with Class 0 and Class 1 air duct connectors, or for ductless installation in the ceilings of hourly rated fire resistive assemblies. Ceiling dampers and ceiling air diffusers are designed for use as alternatives to previously tested hinged-door sheet metal type dampers installed at the bottom of sheet metal air ducts over each duct outlet. Ceiling dampers and ceiling air diffusers intended for installation in other types of fire resistive assemblies, such as assemblies without penetrations, are investigated in accordance with the Standard for Fire Tests of Building Construction and Materials, UL 263, in place of the Fire Endurance Test, Section 6, described in this standard.

1.2 revised May 4, 2010

1.3 The investigation of ceiling dampers and ceiling air diffusers for use in floor/ceiling assemblies previously rated with a hinged-door sheet metal damper involves a comparison of the fire resistance performance of the ceiling damper or ceiling air diffuser with that of a hinged-door sheet metal damper. This is done to confirm that the substitution of the ceiling damper or ceiling air diffuser does not reduce the hourly fire endurance rating of an assembly previously rated with the hinged-door type damper. Ceiling dampers and ceiling air diffusers for use in floor/ceiling assemblies not previously rated with a hinged-door sheet metal damper shall be tested as a component of the proposed floor/ceiling assembly in accordance with the Standard for Fire Tests of Building Construction and Materials, UL 263. Ceiling dampers and ceiling air diffusers are not assigned hourly ratings, but rather are assembly components designated for use in specific hourly rated fire resistive assemblies incorporating air duct outlets penetrating protective ceilings.

1.3 revised May 4, 2010

1.3.1 The fire performance measured by ANSI/UL 263 is based upon air movement being stopped at the start of a fire. Ceiling dampers and ceiling air diffusers intended for use in HVAC systems where the airflow is operational at the time of a fire, such as in a smoke control system, or from other situations in which the fan system is operational at the time of a fire are investigated for dynamic closure. Ceiling dampers and ceiling air diffusers intended for use where the air movement is effectively stopped at the start of a fire are not required to be investigated for dynamic closure.

1.3.1 added March 9, 2009 effective January 25, 2010

1.4 Tests conducted in accordance with the test methods described herein are intended to develop data to enable regulatory authorities to determine the acceptability of ceiling dampers and ceiling air diffusers for use in floor-ceiling and roof-ceiling assemblies having hourly fire endurance ratings of the specified or shorter duration.

2 General

2.1 Components

2.1.1 A component of a product covered by these requirements shall comply with the requirements for that component and shall be used in accordance with its recognized rating established for the intended conditions.

2.1.2 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.