



UL 555S

STANDARD FOR SAFETY

Smoke Dampers

UL Standard for Safety for Smoke Dampers, UL 555S

Fifth Edition, Dated February 13, 2014

Summary of Topics

This revision of ANSI/UL 555S dated October 9, 2020 includes an additional option for Protection Against Corrosion; [5.1](#)

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The revised requirements are substantially in accordance with Proposal(s) on this subject dated August 14, 2020.

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UL 555S

Standard for Smoke Dampers

The first, second and third editions were titled Leakage Rated Dampers for Use in Smoke Control Systems.

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Second Edition – November, 1993
Third Edition – October, 1996
Fourth Edition – June, 1999

Fifth Edition

February 13, 2014

This ANSI/UL Standard for Safety consists of the Fifth Edition including revisions through October 9, 2020.

The most recent designation of ANSI/UL 555S as an American National Standard (ANSI) occurred on October 9, 2020. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

The Department of Defense (DoD) has adopted UL 555S on July 29, 1994. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

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 <https://csds.ul.com>.

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INTRODUCTION

1 Scope

1.1 These requirements cover smoke dampers intended for use in heating, ventilating, and air conditioning (HVAC) systems. Smoke dampers are intended:

- a) To restrict the spread of smoke in HVAC systems that are designed to be automatically shut down in the event of a fire, or
- b) To assist with the control of pressure differentials across smoke barriers when the HVAC system is part of an engineered smoke control system.

1.2 Dampers covered by these requirements are evaluated for use as either:

- a) Smoke Dampers – For use in HVAC systems where ducts pass through smoke barriers.
- b) Combination Fire and Smoke Dampers – For locations in HVAC systems where a fire damper and a smoke damper are required at a single location, or
- c) Corridor Dampers – For locations in HVAC Systems where air ducts penetrate or terminate at openings in the ceilings of interior corridors when permitted by authority having jurisdiction.

1.3 The smoke dampers covered by these requirements are intended for installation in accordance with the National Fire Protection Association Standard for Installation of Air Conditioning and Ventilating Systems, NFPA 90A, the International Mechanical Code and the Uniform Mechanical Code.

1.4 Combination fire and smoke dampers and corridor dampers shall also comply with the applicable requirements in the Standard for Fire Dampers, UL 555.

2 General

2.1 Components

2.1.1 Except as indicated in [2.1.2](#), a component of a product covered by this standard shall comply with the requirements for that component. See Appendix [A](#) for a list of standards covering components generally used in the products covered by this standard.

2.1.2 A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or
- b) Is superseded by a requirement in this standard.

2.1.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.1.4 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.