UL 555

STANDARD FOR SAFETY

Fire Dampers

UL Standard for Safety for Fire Dampers, UL 555

Eighth Edition, Dated February 25, 2026

Summary of Topics

This new Eighth Edition of ANSI/UL 555 dated February 25, 2026 includes the following changes in requirements:

– Expanded Referenced Documents; 1.1.

– Formatting and Typo Corrections; 8.4, 12.1.4.1, 12.3.3, Table 12.1, and 17.1.7.

– Exceeding Maximum Rigid Joints; 8.5.

– Salt Spray Samples Sizes; 9.3 and 11.3.

– Expanded Cautionary Statement; 12.2.1.4.

– Vertically and Horizontally Mounted Fire Dampers; 12.2.1.6 and 12.2.1.7.

– Concrete Cure Time; 12.2.2.2.

– Out of Wall Fire Damper Installation; 12.2.5.2.

– Compliance Criteria Clarification; 5.3, 5.7, 5.11, 5.13, and 12.1.3.1.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated April 18, 2025, November 7, 2025 and January 2, 2026.

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Standard for Fire Dampers

The third edition was titled Fire Dampers and Ceiling Dampers.

First Edition – October, 1968
Second Edition – July, 1973
Third Edition – May, 1979
Fourth Edition – January, 1990
Fifth Edition – May, 1995
Sixth Edition – June, 1999
Seventh Edition – July, 2006

Eighth Edition

February 25, 2026

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

The most recent designation of ANSI/UL 555 as an American National Standard (ANSI) occurred on February 25, 2026. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

The Department of Defense (DoD) has adopted UL 555 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 ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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INTRODUCTION

1 Scope

1.1 The fire dampers covered by these requirements are intended for installation in accordance with the following standards:

a) Standard for Installation of Air-Conditioning and Ventilating Systems, NFPA 90A;

b) Standard for Fire Doors and Other Opening Protectives, NFPA 80;

c) International Mechanical Code;

d) International Building Code; and

e) Uniform Mechanical Code.

1.2 Fire dampers are evaluated for use as either:

a) Fire Dampers for Static Systems – For HVAC systems that are automatically shut down in the event of a fire or for air transfer openings in walls or partitions;

b) Fire Dampers for Dynamic Systems – For HVAC systems that are operational in the event of a fire;

c) 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

d) 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 Under these requirements a fire damper is subjected to a standard fire exposure, controlled to achieve specified temperatures throughout a specified time period, followed by the application of a specified standard hose stream. This exposure by itself is not representative of all fire conditions; conditions vary with changes in the amount, nature, and distribution of fire loading, ventilation, compartment size and configuration, and heat sink characteristics of the compartment. These requirements provide a relative measure of fire performance of fire damper assemblies under these specified fire exposure conditions. Any variation from the construction or conditions that are tested such as method of installation and materials has the potential to substantially change the performance characteristics of the fire damper assembly.

1.4 Fire dampers for static systems (no air flow through the damper) are intended to close automatically upon the detection of heat by a heat responsive device.

1.5 Under these requirements combination fire and smoke dampers, corridor dampers and fire dampers for dynamic systems are exposed to standardized heat and airflow conditions and are evaluated for dynamic closure under these conditions.

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

1.7 Fire dampers for dynamic systems are intended for use where the airflow is operational at the time of 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.

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1.8 Where fire dampers are required in ducts that penetrate fire barriers and where the duct is also used as part of a smoke control system, the system designer shall ascertain which type of fire damper is appropriate for the application. Fire dampers for dynamic systems are evaluated only for dynamic closure under heated airflow conditions. Combination fire and smoke dampers and corridor dampers that have an elevated temperature rating are evaluated for dynamic closure under heated airflow conditions and they are also evaluated to operate under heated air conditions.

1.9 Tests conducted in accordance with these requirements are intended to demonstrate the performance of fire dampers during the period of fire test exposure and are not intended to determine acceptability of fire dampers for use after exposure to fire.

1.10 It is the intent that tests conducted in accordance with the test methods described herein develop data to enable regulatory authorities to determine the acceptability of fire damper assemblies for use in locations where fire resistance of a specified duration is required.

1.11 Fire dampers are intended to close automatically upon the detection of heat by the use of a fusible link or other heat responsive device.

1.12 These requirements do not cover:

a) Performance of the fire damper assembly in walls, partitions, or floors constructed of materials other than those tested.

b) The performance of the fire damper assembly when installed using methods other than those fire tested.

c) Measurement of heat transmission through a fire damper assembly.

d) Measurement of the degree of control or limitation of the passage of smoke or products of combustion through the fire damper assembly.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this Standard shall comply with the requirements for that component. See Annex A for a list of standards covering components generally used in the products covered by this Standard.

2.2 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.

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

2.4 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.

3 Units of Measurement

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

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4 Referenced Publications

4.1 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.

4.2 The following publications are referenced in this Standard:

AMCA 500-D, *Laboratory Methods of Testing Dampers for Rating*

ASTM A653/A653M, *Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process*

ASTM A90/A90M, *Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings*

ASTM B555, *Standard Guide for Measurement of Electrodeposited Metallic Coating Thicknesses by Dropping Test*

ASTM A792/A792M, *Standard Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process*

ASTM B117, *Standard Practice for Operating Salt Spray (Fog) Apparatus*

ASME B36.10M, *Welded and Seamless Wrought Steel Pipe*

IAPMO UMC, *Uniform Mechanical Code*

ICC IBC, *International Building Code*

ICC IMC, *International Mechanical Code*

NFPA 90A, *Installation of Air-Conditioning and Ventilating Systems*

UL 555S, *Smoke Dampers*

UL 723, *Surface Burning Characteristics of Building Materials*

UL 873, *Temperature-Indicating and -Regulating Equipment*

UL 1332, *Organic Coatings for Steel Enclosures for Outdoor Use Electrical Equipment*

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

UL 60730-1, *Automatic Electrical Controls - Part 1: General Requirements*

UL 60730-2-14, *Automatic Electrical Controls - Part 2-14: Particular Requirements for Electric Actuators*

5 Glossary

5.1 For the purpose of this Standard the following definitions apply.

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