CAN/ULC 112.2:2026

Standard Method of Fire Test of Ceiling Firestop Flap Assemblies

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CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE

Standard Method of Fire Test of Ceiling Firestop Flap Assemblies, CAN/ULC 112.2

Second Edition, Dated October 1, 2007

Summary of Topics

This revision of CAN/ULC 112.2 dated August 24, 2026 includes Spring Closing Force Test clarification; 9.1.

Text that has been changed in any manner or impacted by ULSE's electronic publishing system is marked with a vertical line in the margin.

The revsied requirements are substantially in accordance with Proposal(s) on this subject dated June 1, 2026.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD. IN THOSE INSTANCES, THE RELEVANT VERSIONS ARE AVAILABLE FOR PURCHASE.

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REFERENCE PUBLICATIONS

The documents shown below are referenced in the text of this Standard. Unless otherwise stated elsewhere in this Standard such reference shall be considered to indicate the edition and/or revisions of the document available at the date on which the Committee approved this ULC Standard.

Documents Published by the American Society for Testing and Materials (ASTM)
100 Barr Harbour Drive, PO Box C700, West Conshohocken, PA 19428-2959 U.S.A.
Telephone: (610) 832-9585
www.astm.org

• A313/A313M-03, Standard Specification for Stainless Steel Spring Wire

• E11-04, Standard Specification for Wire Cloth and Sieves for Testing Purposes

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Telephone: (416) 757-3611 or 1-866-9373-ULC
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• CAN/ULC-S101-07, Standard Methods of Fire Endurance Tests of Building Construction and Materials

• ULC-S505, Standard for Fusible Links for Fire Protection Service

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PREFACE

This is the Second Edition of the Standard Method of Fire Test of Ceiling Firestop Flap Assemblies, CAN/ULC 112.2.

This Edition of the Standard has been formally approved by the ULC Standards Committee on Fire Tests.

This Standard has been developed in compliance with the requirements of SCC for accreditation of a Standards Development Organization.

Only metric SI units of measurement are used in this Standard. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

Appendix A, identified as Informative, is for information purposes only.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

Attention is drawn to the possibility that some of the elements of this Canadian standard may be the subject of patent rights. ULC Standards shall not be held responsible for identifying any or all such patent rights.

This CAN/ULC 112.2 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

Comments or proposals for revisions on any part of the Standard may be submitted at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

This Standard is intended to be used for conformity assessment.

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1 SCOPE

1.1 These requirements cover the test procedure for the performance evaluation of ceiling firestop flap assemblies which may or may not be part of an air diffusion device, intended for use in fire resistive floor-ceiling and roof-ceiling assemblies.

1.2 The purpose of the fire endurance test procedure which follows, is to supply information that may be used to compare the ability of a submitted ceiling firestop flap assembly to retard the transmission of heat to that of a "standard" ceiling firestop flap assembly. For the purposes of this document a "standard" ceiling firestop flap assembly shall be constructed as illustrated in FIGURE 1. Should it be necessary to evaluate other aspects of the intended performance of a submitted ceiling firestop flap assembly, it may be required that the submitted unit be incorporated in a full scale floor and ceiling assembly and tested in accordance with CAN/ULC-S101, Standard Methods of Fire Endurance Tests of Building Construction and Materials.

2 CONSTRUCTION

2.1 Ceiling firestop flap assemblies shall be constructed so as to provide an effective barrier to heat transmission in the closed position.

2.2 Pins, hinges and latches used in the assembly of a ceiling firestop flap shall be of material having resistance to atmospheric corrosion equivalent to brass or bronze.

2.3 Component springs used in the assembly of a ceiling firestop flap shall be of material having spring properties equivalent to stainless steel conforming to ASTM A313, Standard Specification for Chromium – Nickel Stainless and Heat-Resisting Steel Spring Wire.

2.4 Steel parts used in the assembly shall be provided with one of the following corrosion-protection systems:

A Employing stainless steel having resistance to corrosion at least equal to the 300 series of stainless steel;

B Coating of zinc capable of withstanding not less than two dips in a standard copper sulphate solution;

C Coating of cadmium not less than 10 µm thick;

D Two coats of good quality finish of the alkyd-resin type or other type outdoor paint. The suitability of the paint shall be determined by corrosion tests.

2.5 Coated or uncoated metals used in the assembly of ceiling firestop flaps shall not be used in combination such as to cause detrimental galvanic action which will adversely affect the function of any part of the assembly formed from such material.

2.6 A fusible link or other temperature-responsive device shall conform to the performance requirements of ULC-S505, Standard for Fusible Links for Fire Protection Service, except that such requirements may be modified if appropriate for the particular application.

2.7 The load on a fusible link used in a ceiling firestop flap assembly shall be within the design load of the fusible link.

2.8 The standard ceiling firestop flap assembly shall appear as in FIGURE 1 and be constructed as described in Clauses 2.9 and 2.10.

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