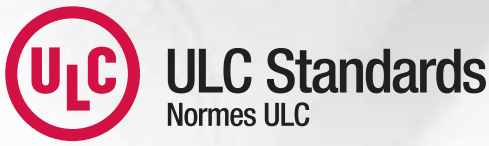
CAN/ULC-S126-14-R2019
(Reaffirmed 2019)

STANDARD METHOD OF TEST FOR FIRE SPREAD UNDER ROOF-DECK ASSEMBLIES





Standards Council of Canada
Conseil canadien des normes

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The intended primary application of this standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for the particular application.

Copies of this National Standard of Canada may be ordered from ULC Standards.

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

Standard method of test for fire spread under roof-deck assemblies, CAN/ULC-S126-14-R2019

Third Edition, Dated September 2014

Summary of Topics

This revision of CAN/ULC-S126 is being issued to update the title page to reflect the reaffirmation of this Third Edition National Standard of Canada. No changes in requirements are involved.

The requirements are substantially in accordance with Proposal(s) on this subject dated November 21, 2018.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD.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

No Text on This Page

CAN/ULC-S126-14-R2019

STANDARD METHOD OF TEST FOR FIRE SPREAD UNDER ROOF-DECK ASSEMBLIES

ICS 13.220.50; 91.060.20

ULC Standards
Normes ULC

Standards Council of Canada
Conseil canadien des normes

First Edition . . . . . September 1986
Second Edition . . . . . September 2006
THIRD EDITION . . . . . SEPTEMBER 2014
REAFFIRMED . . . . . MARCH 2019

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I. Van Zeeland (Associate Member)	Canadian Wood Council	Canada	Non-Voting
W. Jayathilake (Project Manager)	ULC Standards	Canada	Non-Voting

This list represents the membership at the time the Committee balloted on the final text of this edition. Since that time, changes in the membership may have occurred.

STANDARD METHOD OF TEST FOR FIRE SPREAD UNDER ROOF-DECK ASSEMBLIES

PREFACE

This is the Third Edition of the Standard Method of Test for Fire Spread Under Roof-Deck Assemblies, CAN/ULC-S126.

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

Roof-Deck assemblies employ specific combinations of adhesives, vapour barriers, insulating materials and roof coverings which may contribute to the spread of fire in the interior of buildings. This test method is intended to be used in assessing the fire spread of such assemblies utilizing metallic or non-metallic roof-deck materials when exposed to fire within a building.

This test method utilizes the 7.6 m tunnel test apparatus described in the Standard CAN/ULC-S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies. The limits of spread of flame on the underside of the assemblies subjected to this test method were established by a comparison of the results on roof-deck assemblies with large scale fire tests (30.5 m by 6.0 m building).

The assemblies used to establish these limits, were known by experience in actual installations either to have contributed extensively to the spread of fire or, conversely, were regarded as acceptable. Additional information can be found under Appendix A, Historical Background and Bibliography.

This test does not provide a fire resistance rating such as the rating which is attained in CAN/ULC-S101, Standard Methods of Fire Endurance Tests of Building Construction and Materials.

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.

This Third Edition National Standard of Canada is based on the Second Edition, and has now been reaffirmed.

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.

Requests for interpretation of this Standard should be sent to ULC Standards. The requests should be worded in such a manner as to permit a “yes” or “no” answer based on the literal text of the requirement concerned.

This CAN/ULC-S126 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 On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com/canada.

This Standard is intended to be used for conformity assessment.

1 SCOPE

1.1 This test method provides a means of measuring the contribution of roof-deck assembly components to the spread of fire on the underside of the roof deck.

1.2 This method also provides for the assessment of the extent of thermal degradation and charring of the assembly. See Clause 7.4.

1.3 The acceptance criteria invoked in this Standard are based on correlative data developed in large scale, 30.5 m by 6.0 m building, and tunnel furnace testing of representative field constructions.

1.4 Where the acceptance criteria are determined not to be applicable for the construction under evaluation (i.e. the deck constructions are markedly different from those described in the Standard), the large scale test or a series of small scale tests, representative of fire exposure conditions related to the large scale test, shall be conducted to establish correspondingly suitable acceptable criteria.

2 REFERENCE PUBLICATIONS

2.1 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 ULC Standards
171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada
Telephone: (416) 757-3611, ext. 61744; Fax (613) 231-5977, “ATTN: Publications”
E-mail: publications@ulc.ca
www.ulc.ca

• CAN/ULC-S101-14, Standard Methods of Fire Endurance Tests of Building Construction and Materials

• CAN/ULC-S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

3 TEST APPARATUS

3.1 The tunnel furnace described in CAN/ULC-S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies shall be used for this test.

4 TEST SPECIMENS

4.1 The test specimen shall be at least 50 mm wider (nominally 515 $\pm$ 20 mm) than the interior width of the test chamber and a total of 7320 $\pm$ 15 mm in length. Specimens shall consist of three 2440 mm lengths placed end to end. Specimens shall be truly representative of the assembly for which classification is desired and representative of current construction practice. Typical transverse and longitudinal joints shall be included within the test area. Properties of the components adequate for the identification of the materials or ingredients or both, together with their location and method of attachment, shall be determined and recorded.

Note : A typical roof-deck assembly may consist of the following materials as illustrated in Figures 1 and 2:

A SUPPORTS - structural steel or other acceptable materials;