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OF CANADA

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(Reaffirmed 2016)

STANDARD METHOD OF FIRE TEST OF FIRE DAMPER ASSEMBLIES

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CORPORATE HEADQUARTERS
Underwriters Laboratories of Canada
7 Underwriters Road
Toronto, Ontario M1R 3A9
Telephone: (416) 757-3611
Fax: (416) 757-9540

REGIONAL OFFICES

PACIFIC OFFICE
13775 Commerce Parkway, Suite 130
Richmond, British Columbia V6V 2V4
Telephone: (604) 214-9555
Fax: (604) 214-9550

EASTERN OFFICE
6505, Rte Transcanadienne, Suite 330
St-Laurent, Québec H4T 1S3
Telephone: (514) 363-5941
Fax: (514) 363-7014

For further information on ULC standards, please contact:
ULC STANDARDS
171 Nepean Street, Suite 400
Ottawa, Ontario K2P 0B4
Telephone: (613) 755-2729
Fax: (613) 231-5977
E-mail: customerservice@ulc.ca
Web site: www.ulc.ca

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 this 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

NATIONAL STANDARD OF CANADA

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ULC STANDARDS COMMITTEE ON FIRE TESTS

NAME	AFFILIATION	REGION	CATEGORY
A. Laroche (Chair)	Canadian Codes Centre, National Research Council Canada	Canada	Regulator
C. Andersson	Health Canada	Canada	Regulator
B. Bulley	Canadian Steel Door Manufacturers Association	Canada	Producer
B. Cheer	Ontario Building Officials Association	Ontario	Regulator
S. Craft	CHM Fire Consultants Ltd.	Ontario	General Interest
T. Crimi	A.C. Consulting Solutions Inc.	Ontario	General Interest
C. Dagenais	FPInnovations	Canada	User
D. Falconer	Falconer Engineering & Testing	Ontario	General Interest
G. Frater	Canadian Steel Construction Council	Canada	Producer
G. Gardin	Canadian Plastics Industry Association	Canada	Producer
M. Gilfillan	Canadian Fire Safety Association	Canada	General Interest
G. Hadjisophocleous	Carleton University	Ontario	General Interest
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I. Van Zeeland	Canadian Wood Council	Canada	Producer
N. Benichou (Associate Member)	National Research Council Canada	Canada	Non-Voting
M. Birk (Associate Member)	Queen's University	Ontario	Non-Voting
L. Kearns (Associate Member)	National Defence and the Canadian Armed Forces	Canada	Non-Voting
K. Kooner (Associate Member)	Intertek	Canada	Non-Voting
H. Locke (Associate Member)	Locke & Locke Inc.	British Columbia	Non-Voting
E. Sopeju (Associate Member)	Underwriters Laboratories of Canada	Canada	Non-Voting
J. Su (Associate Member)	National Research Council Canada	Canada	Non-Voting
B. Weckman (Associate Member)	University of Waterloo	Ontario	Non-Voting
K. Wu (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 FIRE TEST OF FIRE DAMPER ASSEMBLIES

PREFACE

This is the Reaffirmation of the Third Edition of the Standard Method of Fire Test of Fire Damper Assemblies, CAN/ULC-S112.

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.

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.

The Third Edition of this National Standard of Canada has 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.

The review and action to revise or reaffirm this Standard will not exceed 5 years from the date of publication, unless the Standard is identified as fitting within a stabilized category, whereby the review will commence within the appropriate time frame set out by ULC Standards.

This Standard is intended to be used for conformity assessment.

1 SCOPE

1.1 These requirements and methods of test apply to *fire damper* assemblies rated ¾ h, 1 h, 1½ h, 2 h, or 3 h for use in air-conditioning and ventilating system ducts or openings (without ducts) piercing horizontally or vertically oriented fire separations where the fire separations are required to have a fire resistance rating of not more than 4 h.

1.2 These *fire damper* assemblies are intended for installation in accordance with the provincial or municipal building regulations that are based on the National Building Code of Canada.

1.3 Tests made in conformity with these test methods will register performance during the fire-test exposure under laboratory conditions; but such tests shall not be construed as determining suitability for use after exposure to fire.

1.4 It is the intent that tests made in conformity with these test methods will develop data to enable regulatory bodies to determine the suitability of damper assemblies for use in locations where fire resistance of a specified duration is required.

1.5 *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.

1.6 A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this Standard does not comply with this Standard.

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.

Standard Published by the Air Movement and Control Association International Inc. (AMCA)
30 West University Drive, Arlington Heights, Illinois, 60004 USA
Telephone: (847) 394-0150 or Fax: (847) 253-0171
www.amca.org

• AMCA Standard 500-D-98, Laboratory Methods for Testing Dampers for Rating

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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 or Fax: (610) 832-9555
www.astm.org

• ASTM A 90/A 90M-06, Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings

• ASTM A 313/A 313M-02 (E 2003), Standard Specification for Stainless Steel Spring Wire