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(Reaffirmed 2016)**

**STANDARD FOR THERMAL INSULATION - SPRAY APPLIED
RIGID POLYURETHANE FOAM, MEDIUM DENSITY -
APPLICATION**

Prepared and Published by:



Approved by:



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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

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STANDARD FOR THERMAL INSULATION - SPRAY APPLIED RIGID
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ULC STANDARDS COMMITTEE ON THERMAL INSULATION MATERIALS AND SYSTEMS

NAME	AFFILIATION	REGION	CATEGORY
L. Dalglish (Chair)	National Energy Conservation Association	Canada	User
F. Bauer	Exova	Ontario	User
D. Beaudin	Thermal Insulation Association of Canada	Canada	General Interest
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J. Whalen	EPS Industry Alliance	Canada	Producer
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P. Birkbeck (Associate Member)	Icynene Inc.	Ontario	Non-Voting
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A. McGowan (Associate Member)	Levelton Consultants Ltd.	British Columbia	Non-Voting
G. McIntosh (Associate Member)	Snell Infrared Canada	Ontario	Non-Voting
R. McPhee (Associate Member)	Canadian Wood Council	Canada	Non-Voting

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A. Piggin (Associate Member)	P:M:L Associates Inc.	Ontario	Non-Voting
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R. Sculthorpe (Associate Member)	Consultant	Ontario	Non-Voting
B. Spensieri (Associate Member)	Underwriters Laboratories of Canada	Canada	Non-Voting
J. Wade (Secretary)	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 FOR THERMAL INSULATION - SPRAY APPLIED RIGID POLYURETHANE FOAM, MEDIUM DENSITY - APPLICATION

PREFACE

This is the Reaffirmation of the Second Edition of the Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density - Application, CAN/ULC-S705.2.

This Edition of the Standard has been formally approved by the ULC Standards Committee on Thermal Insulation Materials and Systems.

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.

Annexes A to J, identified as Normative, form a mandatory part of this Standard.

Annexes K and L, identified as Informative, are for information purposes only.

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 Second Edition 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 This Standard outlines requirements for the installation of spray applied rigid polyurethane foam, medium density. The material can be installed as thermal insulation, air barrier, vapour barrier or any combination of these three applications. The application requirements are for the installation of spray applied rigid polyurethane cellular plastic whether applied on a building site or in a prefabrication (manufacturing) facility. This Standard may be used for non-building applications when agreed to by the supplier and the purchaser.

1.2 These requirements include obligations for the manufacturer (or supplier), the contractor and the installer.

1.3 These requirements include the selection of chemical components, application requirements, quality control and documentation of the application, limitations for the application and requirements for safety and for disposal of associated waste material and packaging.

1.4 Spray application of spray polyurethane foam, medium density according to this Standard requires the use of materials and/or equipment that could be hazardous. This document does not purport to address all the safety aspects associated with its use. Anyone using this Standard has the responsibility to consult the appropriate authorities and to establish appropriate health and safety practices in conjunction with any existing applicable regulatory requirements prior to its use.

2. REFERENCES

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.

Document Published by the American Conference of Governmental Industrial Hygienists (ACGIH)
Glenway Avenue, Building D-7, Cincinnati, Ohio, 45211, U.S.A.
Telephone: (513) 661-7881
www.acgih.org

- Threshold Limit Values for Chemical Substances and Physical Agents

Document Published by the Department of Consumer and Corporate Affairs
Available from Canada Communication Group (CCG), Publishing, Ottawa, Ontario, Canada K1A 0S9
Telephone: (819) 956-4802
www.ccg-gcc.ca

- Hazardous Products Act

Documents Published by Underwriters' Laboratories of Canada (ULC)
7 Underwriters Road, Toronto, ON M1R 3B4 Canada
Telephone: (416) 757-3611 or 1-866-9373-ULC
www.ulc.ca

- CAN/ULC-S705.1, Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density, Material - Specification
- CAN/ULC-S508, Rating and Fire Testing of Fire Extinguishers and Class D Extinguishing Media
- CAN/ULC-S773, Standard for Thermal Insulation Terminology

3. TERMINOLOGY

NOTE: Terms used in this Standard that are in *italic* print are defined as follows:

3.1 Definitions and symbols used in this standard are found in CAN/ULC-S773, Standard for Thermal Insulation Terminology. Definitions from CAN/ULC-S773 have been listed below and are identified as such. Additional definitions not currently listed in CAN/ULC-S773 but required for this Standard have been listed below.

3.2 The following definitions apply in this Standard:

AUTHORITY HAVING JURISDICTION (AHJ) – An officer or officers having authority, under appropriate regulatory instruments, to exercise enforcement (CAN/ULC-S773).

APPRENTICE INSTALLER – Individual who applies spray polyurethane foam on the job site, under direct supervision of a *Licensed Installer*. The *Apprentice Installer* must be registered with the *Certification Organization*.

CERTIFICATION ORGANIZATION (CO) – An impartial body possessing the necessary competence and reliability to operate a certification system in which the interests of all parties concerned with the functioning of the system are represented (CAN/ULC-S773).

LICENSED INSTALLER – Individual (worker) trained and Licensed by a *Certification Organization* and engaged in the application of polyurethane foam. The *Licensed Installer* is responsible for the actual installation and site requirements.

CHEMICAL SYSTEM COMPONENTS MANUFACTURER / SUPPLIER – A manufacturer or supplier of the liquid chemical system components (referred to as "A" component and "B" component) used to produce spray polyurethane foam insulation. The manufacturer / supplier controls the shipping of the product to the *Licensed Contractor* and who sells (invoices) to *Licensed Contractor*.

EQUIPMENT MANUFACTURER – Manufacturer of equipment designed for spray-application of spray polyurethane foam.

MEDIUM DENSITY SPRAY-APPLIED RIGID POLYURETHANE – Spray polyurethane foam material that is formed in place by the catalyzed reaction of polyisocyanates and polyhydroxyl compounds, expanded with blowing agents and producing a predominantly closed cell product that has a density, which will produce a compressive strength between 170 kPa and 280 kPa.

LICENSED CONTRACTOR – The individual, organization or corporation who is responsible for all requirements and obligations for installing the product. The *Licensed Contractor* must be licensed by a *Certification Organization (CO)*.

QUALITY ASSURANCE PROGRAM (QAP) – A *quality assurance program* based on ISO 9002 and ISO 12576-2, which ties the *chemical system components manufacturer* (supplier), the contractor and the installer together for the installation of spray polyurethane foam. The QAP shall outline the responsibilities and obligations of each of the three parties. The QAP will outline

the training and certification requirements for each of the three parties and shall include a site inspection of the installation of spray polyurethane foam.

NOTE: Subsequent to the publication of the Second Edition of this Standard, ISO 9002 was withdrawn and replaced by a new edition of ISO 9001, Quality management systems – Requirements.

4. REQUIREMENTS

4.1 MANUFACTURER/SUPPLIER

4.1.1 The manufacturer / supplier shall produce material that meets the requirements of CAN/ULC-705.1 Thermal Insulation – Spray Polyurethane Foam, Medium Density – Material Standard.

4.1.2 The manufacturer / supplier shall mark and label the shipping containers to declare that the material meets the CAN/ULC-S705.1 Material Standard as required in Section 7.

4.1.3 The manufacturer / supplier shall declare the *Certification Organization* that they have chosen that is responsible for delivering the *quality assurance program* based on ISO 9002 for their product.

NOTE: Subsequent to the publication of the Second Edition of this Standard, ISO 9002 was withdrawn and replaced by a new edition of ISO 9001, Quality management systems – Requirements.

4.1.4 The manufacturer / supplier shall ensure that the material is installed by a *Licensed Contractor* using a *Licensed Installer* in accordance with CAN/ULC-S705.2 - Thermal Insulation - Spray Polyurethane Foam, Medium Density, Application – Standard and the instructions given by the chemical manufacturer.

4.2 LICENSED CONTRACTOR

4.2.1 The *Licensed Contractor* shall comply with all requirements of this application Standard.

4.2.2 The *Licensed Contractor* will select the material that is appropriate for the installation.

4.2.3 The *Licensed Contractor* shall procure material, which meets the CAN/ULC-S705.1 Thermal Insulation – Spray Polyurethane Foam, Medium Density – Material Standard.

4.2.4 The *Licensed Contractor* shall verify, through the use of drum labels or other documentation, that the material received meets the CAN/ULC-S705.1 Material Standard.

4.2.5 The *Licensed Contractor* shall have at least one *Licensed Installer* on each job site during the application of the spray polyurethane foam insulation.

4.2.6 The *Licensed Contractor* is responsible for all aspects of the installation of the material. All regulations shall be complied with during the installation of the material. The completed application shall comply with all appropriate regulations such as building code, etc.

4.2.7 The *Licensed Contractor* shall ensure that the *Licensed Installer* has successfully completed a training course approved by the manufacturer and the *Certification Organization*. The installer must successfully complete the training and obtained certification as a spray polyurethane foam medium density sprayer. When spray polyurethane is used as an air barrier system, the *Licensed Contractor* must use Licensed Air Barrier Installers. A recommended training outline is provided in Annex K.

4.2.8 The *Licensed Contractor* shall provide the *Licensed Installer* with proper equipment to install spray polyurethane foam. Equipment may include, but is not limited to, transfer pumps, a proportioner unit, hoses, hose heaters, spray guns, compressors and generators.

4.2.9 The *Licensed Contractor* shall provide, or ensure that the *Licensed Installer* has, proper personnel protection, which may include but not limited to, head protection, eye protection, a positive fresh air respirator, ear protection, body protection, hand protection and foot protection.

4.2.10 The *Licensed Contractor* must provide on each job site, a test kit meeting the requirements outlined in Annex L for use by the *Licensed Installer* to conduct the testing required within this Standard. The *Licensed Contractor* shall ensure the *Licensed Installer* conducts the daily testing.

4.2.11 The *Licensed Contractor* shall ensure the *Licensed Installer* completes a Daily Work Record in accordance with the *quality assurance program*. This daily work record shall contain information on the job site, date, material used, name of the installer, certification number, application conditions, environmental conditions, results of the testing completed on site and whether the material used has been evaluated by a third party (i.e. CCMC). The *Licensed Contractor* shall supply the *Licensed Installer* with all documentation required. The daily work record shall be completed at the beginning of each day, each time a material batch is changed and when the job site is changed within a given day. The *Licensed Contractor* shall keep the records for a period of seven years. These records must be made available upon request, within a reasonable time, to the manufacturer or the *Certification Organization*. The minimum information required for a Daily Work Record is shown in Annex I.

4.2.12 A Job Site Label containing the minimum information outlined in Annex J must be provided to the *Licensed Installer* to be attached in a prominent location at the job site. Locations such as the electrical panel are acceptable. A job declaration form may be provided instead of the Job Site Label.

4.2.13 The *Licensed Contractor* shall ensure that the *Licensed Installer* follows the *quality assurance program* developed by the *Certification Organization*.

4.2.14 The *Licensed Contractor* shall maintain the installation equipment in proper working order.

4.2.15 Where a separate contractor is responsible for the thermal barrier installation and when the applicable building code requires a thermal barrier for that application, the *Licensed Contractor* shall notify the building owner or the owner's representative in writing of the requirement for a thermal barrier and the flammability hazard, which could exist until such time that the foam is covered.

4.3 LICENSED INSTALLER

4.3.1 The *Licensed Installer* shall apply the material in accordance with this Standard, the instructions provided by the manufacturer / supplier and the *Licensed Contractor*.

4.3.2 The *Licensed Installer* shall confirm, using drum labels or other documentation, that the material on site to be used has been declared by the manufacturer to meet the CAN/ULC-S705.1 Material Standard before commencing installation.

4.3.3 The *Licensed Installer* is responsible for the on site installation of the material, safe handling and storage of the material, proper isolation of the spray area, warning signs when spray is in progress, site housekeeping, and their own personal and the crews health & safety.

4.3.4 The *Licensed Installer* must have successfully completed a training course approved by the manufacturer and the designated *Certification Organization*. The installer must obtain certification from the designated *Certification Organization* as a Spray Polyurethane Foam Installer - Medium Density. In cases where the *Licensed Installer* is to apply spray polyurethane foam as an air barrier, the installer must be Licensed as a Spray Polyurethane Foam Air Barrier Installer. A recommended training outline is shown in Annex K.

4.3.5 The *Licensed Installer* shall follow all operating instructions for the equipment provided by the *equipment manufacturer*. This equipment may include, but is not limited to, transfer pumps, a proportioner unit, hoses, hose heaters, guns, compressors and generators. The installer shall follow instructions from the *equipment manufacturer* for operation, maintenance and cleaning of the equipment used for installation.

4.3.6 The *Licensed Installer* shall:

- A Verify, through a material label, that material on site has been declared by the manufacturer to meet CAN/ULC S705.1, Material Standard;
- B Verify that the substrate has been properly prepared;
- C Verify that the environmental conditions are within the approved range;
- D Set the equipment to the proper operating parameters;
- E Install the material as per this standard and the manufacturer's instructions; and
- F Comply with all requirements of the *Quality Assurance program* provided by the *Certification Organization*.