CAN/ULC-S718:2018 (R2023)

STANDARD FOR SITE QUALITY ASSURANCE PROGRAM FOR SPRAY APPLIED POLYURETHANE FOAM

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

Standard for Site Quality Assurance Program for Spray Applied Polyurethane Foam, CAN/ULC-S718

Second Edition, Dated May 1, 2018

Summary of Topics

This revision of CAN/ULC-S718 dated January 23, 2023 is being issued to update the title page to reflect the reaffirmation of this Second Edition National Standard of Canada. No changes in requirements are involved.

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

The requirements are substantially in accordance with Proposal(s) on this subject dated October 14, 2022.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD.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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STANDARD FOR SITE QUALITY ASSURANCE PROGRAM FOR SPRAY APPLIED POLYURETHANE FOAM

ICS 03.120.10; 91.120.10

First Edition . . . . . February 2013
SECOND EDITION . . . . . MAY 2018
REAFFIRMED . . . . . JANUARY 23, 2023

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CONTENTS

ULC STANDARDS COMMITTEE ON THERMAL INSULATION MATERIALS AND SYSTEMS 7

PREFACE 9

1 SCOPE 11
2 REFERENCE PUBLICATIONS 11
3 TERMS AND DEFINITIONS 12
4 GENERAL REQUIREMENTS 13
4.1 ROLES AND RESPONSIBILITIES 13
5 SPECIFIC REQUIREMENTS 14
5.1 SUPPLIER 14
5.2 MATERIAL CONFORMANCE 15
5.3 SITE QUALITY ASSURANCE PROGRAM (SQAP) 15
5.4 PRODUCT DATA SHEETS / INSTALLATION INSTRUCTIONS 15
5.5 CONTRACTOR 15
5.6 INSTALLER 18
5.7 CERTIFICATION BODY 19
5.8 INSPECTION BODY (IB) 20
5.9 CORRECTIVE ACTION FOR SITE INSPECTIONS 21
5.10 CONTRACTOR AUDIT 21
5.11 INSTALLER SURVEILLANCE AUDIT 22
6 DOCUMENTATION 24
6.1 DAILY WORK RECORD 24
6.2 JOB SITE LABEL 24
6.3 INSTALLED PRODUCT SITE INSPECTION REPORT 25
6.4 AUDIT REPORTS 27
7 COMPLAINT RESOLUTION 28
7.1 GENERAL 28
7.2 SUPPLIER'S RESPONSIBILITIES 29
7.3 CONTRACTOR'S RESPONSIBILITIES 29
7.4 CERTIFICATION BODY'S RESPONSIBILITIES 29
7.5 CONFLICT RESOLUTION PROCESS 30
7.6 FREQUENCY OF AUDITS AND INSPECTIONS 30
7.7 CORRECTIVE ACTION 30

ANNEX A (NORMATIVE) – SUPPLIER QUALITY ASSURANCE MANUAL

A1 REQUIREMENTS FOR SUPPLIER QUALITY ASSURANCE MANUAL 32

ANNEX B (NORMATIVE) – ESSENTIAL LEARNINGS FORM

B1 TABULATED LEARNINGS FORM 33

ANNEX C (NORMATIVE) – SUPPLIER AUDIT REPORT

C1 SUPPLIER REQUIREMENTS FOR THE STANDARD FOR SITE QUALITY ASSURANCE PROGRAM FOR SPRAY POLYURETHANE FOAM 36

ANNEX D (NORMATIVE) – CONTRACTOR AUDIT REPORT

D1 CONTRACTOR REQUIREMENTS FOR THE STANDARD FOR SITE QUALITY ASSURANCE PROGRAM FOR SPRAY POLYURETHANE FOAM 37

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ANNEX E (NORMATIVE) – INSTALLER CERTIFICATION REPORT

E1 INSTALLER PRACTICUM EVALUATION (5 YEAR EVALUATION) 40

ANNEX F (INFORMATIVE) – INSTALLED MATERIAL REPORT

F1 INSTALLED PRODUCT AUDIT FORM 43

ANNEX G (INFORMATIVE) – CUSTOMER COMPLAINT

G1 CUSTOMER COMPLAINT FORM 47

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PREFACE

This is the Second Edition of the Standard for Site Quality Assurance Program for Spray Applied Polyurethane Foam, CAN/ULC-S718.

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.

Annex A and B, identified as normative, form a mandatory part of this Standard.

Annexes C, D, E, F, and G, identified as informative, are for informational 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 is based on, and now supersedes, the First Edition of ULC-S718.

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-S718 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.

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1 SCOPE

1.1 This standard outlines the requirements for a site quality assurance program (SQAP) for the on-site installation of spray applied polyurethane foam (SPF). As the installation of the material is dependent on the installer, a site quality assurance program is required to provide assurance of compliance to material and installation standards to the property owner, authority having jurisdiction, design professional or other entity directly involved in the installation of the material.

1.2 This standard outlines the requirements for the supplier, the contractor and the installer participating in the SQAP, as well as for the Inspection Body (IB) and the Certification Body (CB).

1.3 This standard does not purport to address all the health and safety aspects associated with its use. Anyone using this standard has the responsibility to consult the appropriate authorities and to establish health and safety practices, in conjunction with any existing applicable regulatory requirements, prior to its use.

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 the International Organisation for Standardization (ISO) available from:

ISO Central Secretariat: International Organisation for Standardization (ISO)
BIBC II, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland
Telephone: +41 22 749 01 11; Fax: +41 22 733 34 30
www.iso.ch

Standards Council of Canada (SCC)
55 Metcalfe Street, Suite 600
Ottawa, ON, K1P 6L5
Telephone: (613) 238-3222; Fax: (613) 569-7808
www.scc.ca

• ISO 9001:2015, Quality Management Systems – Requirements

• ISO 10002:2014, Quality management – Customer satisfaction – Guidelines for complaints handling in organizations

• ISO 12576-1:2001, Thermal Insulation – Insulating Materials and Products for Buildings – Conformity Control Systems – Part 1: Factory-Made Products

• ISO 12576-2:2008, Thermal Insulation products – Conformity control systems – Part 2: In-situ products

• ISO/IEC 17020:2012, Conformity assessment – Requirements for the operation of various types of bodies performing inspection

• ISO/IEC 17024:2012, Conformity assessment – General requirements for bodies operating certification of persons

• ISO/IEC 17025:2017, General requirements for the competence of testing and calibration laboratories

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• ISO 19011:2011, Guidelines for auditing management systems

Documents Published by ULC Standards
171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada
Telephone: (613) 755-2729
www.ulc.ca/ulcstandards

• CAN/ULC-S705.2:2005-R2016, Standard for Thermal Insulation – Spray Applied Rigid Polyurethane Foam, Medium Density – Application

• CAN/ULC-S773-15, Standard for Thermal Insulation Terminology

3 TERMS AND DEFINITIONS

NOTE: Terms used in this standard are defined as follows. Definitions common to ULC's thermal insulation standards are given in CAN/ULC-S773, Standard for Thermal Insulation Terminology, and some of these have been listed below with a (CAN/ULC-S773) identifier. Additional definitions not listed in CAN/ULC-S773 but required for this standard have also been listed below.

3.1 AUDITOR – an individual appointed to conduct an audit.

3.2 AUTHORITY HAVING JURISDICTION (AHJ) – representative of a government (federal, provincial or municipal) agency predominantly involved in regulating by statute the use of products, materials and services (CAN/ULC-S773).

3.3 CERTIFICATION BODY (CB) – organization operating a certification system for installers and in which the interests of all parties concerned with the functioning of the system are represented.

NOTE: Certification Body was previously referred to as Certification Organization.

3.4 CERTIFICATION SCHEME – specific certification requirements related to specified categories of persons to which the same particular standards and rules, and the same procedures apply (CAN/ULC-S773).

3.5 CERTIFICATION SCHEME COMMITTEE – group of persons which fairly and equitably represent the interests of all parties significantly concerned with the certification scheme, without any particular interest predominating and who are responsible for the development and maintenance of the certification scheme.

3.6 INSPECTION BODY (IB) – body performing inspections for in-situ spray polyurethane foam installations.

3.7 INSPECTOR – individual trained by an inspection body for the inspection of in-situ sprayed polyurethane foam installations.

3.8 LISTING ORGANIZATION – organization that evaluates and lists product confirming compliance to a specific standard (CAN/ULC-S773).

3.9 QUALITY ASSURANCE MANUAL – document containing the organizational structure, responsibilities, policies, procedures, processes and resources for implementing management of quality assurance program (CAN/ULC-S773).

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3.10 QUALITY MANAGEMENT SYSTEM – organizational structure, procedures, processes and resources needed to implement quality management.

3.11 SITE QUALITY ASSURANCE PROGRAM (SQAP) – program based on ISO 9001, Quality Management Systems – Requirements, and ISO 12576-2, Thermal Insulation products – Conformity control systems – Part 2: In-situ products, which ties the supplier, contractor and the installer together, outlines the responsibilities and obligations of each party.

3.12 SPRAY APPLIED POLYURETHANE FOAM APPRENTICE (APPRENTICE) – individual who installs spray applied polyurethane foam on the job site under direct supervision of an installer.

3.13 SPRAY APPLIED POLYURETHANE FOAM CONTRACTOR (CONTRACTOR) – individual, organization or corporation, responsible for meeting all requirements and obligations for the installation of spray applied polyurethane foam material as stipulated in the applicable installation standard.

3.14 SPRAY APPLIED POLYURETHANE FOAM INSTALLER (INSTALLER) – individual (worker) responsible for the actual installation and site requirements of spray polyurethane foam, and authorized to supervise an apprentice.

3.15 SPRAY APPLIED POLYURETHANE FOAM (MATERIAL) – a rigid or semi rigid cellular plastic material that is formed in place by the catalyzed reaction of polymeric isocyanate with polyhydroxyl compounds, expanded with blowing agent(s) and producing a material that may be of closed, open, or a combination of open and closed cell structure (CAN/ULC-S773).

3.16 SPRAY POLYURETHANE FOAM SYSTEM SUPPLIER (SUPPLIER) – manufacturer or distributor responsible for the liquid chemical system which is designed to be mixed and sprayed to form spray polyurethane foam material in-situ.

3.17 TESTING LABORATORY (LABORATORY) – organization accredited to ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories, by a member of IAF/ILAC Multilateral Agreement, possessing the necessary competence to test material to the appropriate material standard listed in the laboratory's current scope of accreditation (CAN/ULC-S773).

3.18 TRAINER – a qualified individual, independent of the certification process, who conducts training (CAN/ULC-S773).

4 GENERAL REQUIREMENTS

4.1 ROLES AND RESPONSIBILITIES

4.1.1 The supplier, installer and contractor shall collectively meet the requirements of the material, installation and application standards.

4.1.2 In addition to being responsible for certification, the certification body (CB) shall ensure that the supplier, installer and contractor comply with the requirements of the material, installation and application standards.

4.1.3 In the event of a conflict between a requirement of this site quality assurance program (SQAP) and the relevant material or installation standard, the requirement of the material or installation standard shall apply.

4.1.4 The inspection body (IB) is responsible for conducting site inspections of installed material.

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