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STANDARD FOR AIR BARRIER MATERIALS - SPECIFICATION

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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 this particular application.

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

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STANDARD FOR AIR BARRIER MATERIALS - SPECIFICATION

PREFACE

This is the Reaffirmation of the First Edition of the Standard for Air Barrier Materials - Specification, CAN/ULC-S741.

This Edition of the Standard has been formally approved by the ULC Standards Committee on Air Barrier 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, identified as Normative, forms a mandatory part of this Standard.

Annexes B to D, identified as Informative, are 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 First 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 provides the requirements and test methods for *air barrier materials* used in building applications.

1.2 The test method involves measuring the airflow through representative samples of the material for a range of differential pressures, and calculating an assigned *air leakage characteristic* of the material at a reference pressure difference (ΔP) of 75 Pa. The test methods for *air barrier materials* in this Standard do not include consideration of the means of attachment.

1.3 The requirements for the *air leakage characteristic* of *air barrier components* and *air barrier accessories* were not considered in the development of this Standard.

Note: See Annex B for a discussion of *air barrier assemblies* and *air barrier systems* and the relationship with *air barrier materials*, *air barrier components* and *air barrier accessories*.

1.4 The materials meeting this Standard are intended to be exposed to a maximum of 50 °C service temperature.

1.5 This document 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 American Society for Testing and Materials (ASTM)
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Telephone: (610) 832-9585
www.astm.org

- ASTM C 390-03, Standard Practice for Sampling and Acceptance of Thermal Insulation Lots
- ASTM E 96/E96M-05, Standard Test Methods for Water Vapor Transmission of Materials
- ASTM E 2178-03, Standard Test Method for *Air Permeance* of Building Materials
- ASTM E 2357-05, Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
- ASTM G 154-06, Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials