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Australian/New Zealand Standard™

Thermal performance in the built environment — Determination of air permeance of building materials



AS/NZS ISO 14857:2023

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- Air Infiltration and Ventilation Association of Australia
- Air Tightness Testing and Measurement Association, Australia
- Aluminium Foil Insulation Association, Australia
- Australasian Fire and Emergency Service Authorities Council
- Australian Alliance for Energy Productivity
- Australian Institute of Refrigeration Air Conditioning and Heating
- Australian Professional Thermography Association
- Australian Roofing Tile Association
- AWTA Product Testing (Testing Interests Australia)
- Building Research Association of New Zealand (BRANZ)
- Building System Performance, Ministry of Business, Innovation and Employment, NZ
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee BD-058, Thermal Insulation.

The objective of this document is to specify the equipment and procedures to determine the air permeance of building materials at various pressure differentials, and assign an air permeance rate at a reference pressure differential rate (ΔP) of 75 Pa.

This method is intended for testing materials independent of a substrate using a 1 m × 1 m specimen size. The results of this test method can be used to determine whether a material qualifies to function as an air barrier material.

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 163, *Thermal performance and energy use in the built environment*, Subcommittee SC 1, *Test and measurement methods*.

Introduction

This International Standard contains the requirements for testing various building materials to determine their suitability to be used as an air barrier material.

NOTES