

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS A 1488 : 2020

**Test method for long term change in
apparent thermal conductivity of vacuum
insulation panels for buildings**

ICS 91.100.60 ; 91.100.99

Reference number : JIS A 1488 : 2020 (E)

A 1488 : 2020

Date of Establishment: 2020-02-20

Date of Public Notice in Official Gazette: 2020-02-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Architecture

JIS A 1488 : 2020, First English edition published in 2021-09

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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Printed in Japan

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Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Act.

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Test method for long term change in apparent thermal conductivity of vacuum insulation panels for buildings

1 Scope

This Japanese Industrial Standard specifies the method for testing in a laboratory the long term change in apparent thermal conductivity of the vacuum insulation panels (VIPs) for buildings comprising silica particles and glass wool cores.

The method covered by this Standard considers only the permeation of water vapour and dry air from surroundings as parameters affecting the long term change in apparent thermal conductivity, and no other parameters.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS A 0202 *Thermal insulation — Vocabulary*

JIS A 1487 *Test method of thermal transmission properties for vacuum insulated building components*

JIS A 9529 *Vacuum insulation panels for buildings*

JIS Z 8126-1 *Vacuum technology — Vocabulary — Part 1 : General terms*

JIS Z 8126-2 *Vacuum technology — Vocabulary — Part 2 : Vacuum pumps and related terms*

JIS Z 8126-3 *Vacuum technology — Vocabulary — Part 3 : Vacuum gauges and related terms*

3 Terms and definitions, and symbols and units

For the purpose of this Standard, the terms and definitions given in JIS A 0202, JIS A 1487, JIS A 9529 and JIS Z 8126-1 to JIS Z 8126-3 and the following apply.

3.1 Terms and definitions

3.1.1

long term performance

predicted thermal performance values of VIP when it is integrated into a building component and continuously used under given external and internal conditions

NOTE In this Standard, external and internal conditions are set to be 25 years of continuous use in an environment at a temperature of 23 °C and a relative humidity of 50 % (standard condition), and the average of the apparent thermal conductivity during this period is calculated as the long