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

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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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.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

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