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(JTCCM/JSA)

**Thermal insulation — Test method for  
thermal diffusivity — Periodic heat  
method**

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In the event of any doubts arising as to the contents,  
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## Contents

	Page
Introduction .....	1
1 Scope .....	1
2 Normative reference .....	1
3 Terms and definitions .....	1
4 Symbols .....	3
5 Principle .....	3
5.1 General .....	3
5.2 Calculation of thermal diffusivity .....	4
6 Test specimen .....	7
6.1 Sample .....	7
6.2 Details of test specimen .....	7
6.3 Machining of test specimen .....	8
7 Apparatus .....	10
7.1 General .....	10
7.2 Temperature measurement instrument .....	10
8 Procedure .....	11
8.1 Rounding numbers .....	11
8.2 Period of temperature change .....	11
8.3 Amplitude of temperature change .....	11
8.4 Measurement method .....	11
8.5 Calculation of thermal diffusivity .....	12
9 Test report .....	12
Annex A (normative) Size of test specimen and period of temperature change .....	14
Annex B (informative) Measurement considerations .....	17
Annex JA (informative) Comparison table between JIS and corresponding International Standard .....	20

## Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Testing Center for Construction Materials (JTCCM)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act.

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# Thermal insulation — Test method for thermal diffusivity — Periodic heat method

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 21901** : 2021, Edition 1, by incorporating the corresponding parts (scope, normative references, terms and definitions, symbols, principle, test specimen, apparatus, procedure and test report) without any modifications of the technical contents, but also adding some **JIS** specification contents (calculation of thermal diffusivity) that are not given in the said corresponding International Standard.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

## 1 Scope

This Standard specifies a periodic heat method for measurement of the thermal diffusivity of thermal insulation material in the shape of a flat plate.

**NOTE** The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 21901 : 2021 *Thermal insulation — Test method for thermal diffusivity — Periodic heat method* (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

## 2 Normative reference

Part or all of the provisions of the following standard, through reference in this text, constitutes provisions of this Standard. For the standard indicated below, only the edition of the indicated year shall be applied and any revisions (including amendments) made thereafter shall not be applied.

JIS A 1412-1 : 2016 *Test method for thermal resistance and related properties of thermal insulations — Part 1 : Guarded hot plate apparatus*

**NOTE** Normative reference in the corresponding International Standard : ISO 8302 : 1991 *Thermal insulation — Determination of steady-state thermal resistance and related properties — Guarded hot plate apparatus*

## 3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.