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(SKC/JSA)

Fibre reinforced cement boards

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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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Contents

Page

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Fibre-reinforced Cement Sheets Association (SKC)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS A 5430**:2008 is replaced with this Standard.

However, **JIS A 5430**:2008 may be applied in the **JIS** mark certification based on the relevant provisions of Article 19 Clause 1, etc. of the Industrial Standardization Law until June 19, 2014.

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

Fibre reinforced cement boards

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of **ISO 8336** published in 2009 and the first edition of **ISO 10904** published in 2011 with some modifications of the technical contents including incorporation of shape and dimensions uniquely applied in Japan.

The portions with continuous sidelines or dotted underlines are the matters in which the contents of the corresponding International Standards have been modified. A list of modifications with the explanations is given in Annex JC.

1 Scope

This Standard specifies fibre (other than asbestos)-reinforced and formed slates (corrugated sheets and flat sheets), calcium silicate boards and slag gypsum wall boards (hereafter referred to as "fibre reinforced cement boards").

NOTE 1 Annex JB shows fittings necessary for construction for informative purposes.

NOTE 2 The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 8336:2009 *Fibre-cement flat sheets—Product specification and test methods*

ISO 10904:2011 *Fibre-cement corrugated sheets and fittings for roofing and cladding* (Overall evaluation: MOD)

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

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amendments) made thereafter shall not be applied. For those without the indication of the year, the most recent edition (including amendments) shall be applied.

JIS A 1129-1 *Methods of measurement for length change of mortar and concrete—Part 1: Method with comparator*

JIS A 1321 *Testing method for incombustibility of internal finish material and procedure of buildings*

JIS A 1408 *Test methods of bending and impact for building boards*

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

JIS A 1412-2 *Test method for thermal resistance and related properties of thermal insulations—Part 2: Heat flow meter apparatus*

JIS A 1435 *Method of test for resistance of exterior materials of buildings to freezing and thawing*

JIS A 9510:2009 *Inorganic porous thermal insulation materials*

JIS B 7502 *Micrometer callipers*

JIS B 7507 *Vernier, dial and digital callipers*

JIS B 7512 *Steel tape measures*

JIS B 7516 *Metal rules*

JIS B 7518 *Vernier, dial and digital depth gauges*

JIS B 7526 *Squares*

JIS K 1464 *Desiccants, activated for industrial dehumidification*

JIS K 8123 *Calcium chloride (Reagent)*

3 Terms and definitions

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

3.1 acceptance test

routine test to establish whether a batch of continuous products conforms to a specification

3.2 type test

test concerned with the approval of a new product and/or a fundamental change in formulation and/or method of manufacture

4 Composition

Fibre reinforced cement boards consist essentially of cement, calcareous material, siliceous material, slag, gypsum and fibre other than asbestos, and the admixture of reinforcing material, packing material and so on, or pigment may be added.

5 Classifications and their abbreviations

Classifications, their abbreviations, material and main usages of fibre reinforced cement boards are as shown in Table 1.

Table 1 Classifications and their abbreviations

Classification			Abbreviation	Material [a)]	Main usage
Slates	Corrugated sheets	Shallow corrugation	SC	Cement, fibre other than asbestos and admixture.	Exterior wall
		Deep corrugation	LC		Roofing and exterior wall
	Flat sheets	Flexible boards A	FA		Interior and exterior finishing
		Flexible boards	F		Interior and exterior finishing
		Soft flexible boards	NF		Interior and exterior finishing
		Flat boards	S		Interior and exterior finishing
		Soft boards	N		Interior and exterior finishing
Calcium silicate boards	Type 2	0.8 Calcium silicate boards	0.8FK	Calcareous material, siliceous material, fibre other than asbestos, and the admixture.	Interior finishing
		1.0 Calcium silicate boards	1.0FK		Interior finishing
	Type 3	0.2 Calcium silicate boards	0.2TK	Calcareous material, siliceous material, fibre other than asbestos, and the admixture.	Fire resist covering
		0.5 Calcium silicate boards	0.5TK		Fire resist covering
Slag gypsum wall boards	0.8 Slag gypsum wall boards		0.8SGI	Cement, slag, gypsum, fibre other than asbestos, and the admixture.	Interior finishing
	1.0 Slag gypsum wall boards		1.0SGI		Interior finishing
	1.4 Slag gypsum wall boards		1.4SGI		Interior finishing

Note [a)] The material of slate may contain siliceous material.
The material of calcium silicate board (Type 2) may contain cement.

6 Quality

6.1 Appearance

The appearance of fibre reinforced cement boards, when it is visually inspected, shall conform to the criteria given in Table 2.

Table 2 Type of appearance defect and level of acceptance

Type of defect	Level of acceptance
Cracks or penetrating cracks	No such defects shall be found.

6.2 Breaking load

The breaking load of slates (corrugated sheets), when the test specified in **9.3.1** is carried out, shall conform to the requirement in Table 3.