

JAPANESE INDUSTRIAL STANDARD

Translated and Published by Japanese Standards Association

 $JIS\ A\ 1106:2018$

(JCI)

Method of test for flexural strength of concrete

ICS 91.100.30

Reference number: JIS A 1106:2018 (E)

A 1106:2018

Date of Establishment: 1950-06-05

Date of Revision: 2018-04-25

Date of Public Notice in Official Gazette: 2018-04-25

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Civil Engineering

JIS A 1106: 2018, First English edition published in 2018-10

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

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

© JSA 2018

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan HN

Contents

		Page	
Introd	luction ·····		
1	Scope ·····	······································	
2	Normative reference	ces ······ 1	
3	Test specimens ····	······································	
4	Apparatus ······	2	
5	Test method ······	3	
6	Calculation	4	
7	Report ·····	4	
Annex	x JA (informative)	Method of test for flexural strength of concrete by centre-point loading	
Annex	d JB (informative)	Comparison table between JIS and corresponding International Standard	
Annex	(JC (informative)	Comparison table between previous and current editions of this Standard on technically significant revisions ————————————————————————————————————	

Foreword

This Japanese Industrial Standard has been revised by the Minister of Land, Infrastructure, Transport and Tourism through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Concrete Institute (JCI) 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 1106:2006 is replaced with this Standard.

This **JIS** document is protected by the Copyright Law.

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.

Method of test for flexural strength of concrete

JIS A 1106: 2018

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 1920-4**: 2005, Edition 1, with some modifications of the technical contents.

The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB. The comparison table between previous and current editions of this Standard on technically significant revisions is given in Annex JC.

1 Scope

This Standard specifies the method of test for the flexural strength of test specimens of hardened concrete by two-point loading (trisecting point loading) 1).

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

ISO 1920-4: 2005 Testing of concrete — Part 4: Strength of hardened concrete (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**.

Note 1) The test method by centre-point loading is given in Annex JA.

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 1132 Method of making and curing concrete specimens
- NOTE Corresponding International Standard: ISO 1920-3 Testing of concrete

 Part 3: Making and curing test specimens
- JIS B 7721 Tension/compression testing machines Calibration and verification of the force-measuring system

3 Test specimens

The test specimens shall be as follows.

a) The test specimens shall be prepared in accordance with JIS A 1132. <u>In addition</u>, the specimens shall be available for the test immediately after the completion of specified curing ²⁾.