



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS A 5308 : 2009

Ready-mixed concrete

ICS 91.100.30

Reference number : JIS A 5308 : 2009 (E)

Date of Establishment: 1953-11-07

Date of Revision: 2009-03-20

Date of Public Notice in Official Gazette: 2009-03-23

Investigated by: Japanese Industrial Standards Committee
Standards Board
Technical Committee on Civil Engineering

JIS A 5308:2009, First English edition published in 2010-04

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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

© JSA 2010

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

NH/AT

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Types	1
4 Quality	2
4.1 Strength, slump or slump flow, and air content	2
4.2 Chloride content	4
5 Volume	4
6 Proportion	4
7 Materials	4
7.1 Cement	4
7.2 Aggregates	4
7.3 Water	5
7.4 Admixtures	5
8 Manufacturing methods	5
8.1 Manufacturing equipment	5
8.2 Measurement of materials	7
8.3 Mixing	8
8.4 Transportation	8
8.5 Handling of mortar adhered to inside of drum of truck agitator	8
8.6 Quality control	8
9 Test methods	8
9.1 Sampling method	8
9.2 Strength	9
9.3 Slump	9
9.4 Slump flow	9
9.5 Air content	9
9.6 Chloride content	9
9.7 Volume	9
10 Inspection	10
10.1 Inspection items	10
10.2 Strength	10
10.3 Slump or slump flow, and air content	10
10.4 Chloride content	10
10.5 Designated items	10

11	Designation	11
12	Report	11
12.1	Report on proportion of ready-mixed concrete and basic information	11
12.2	Delivery sheet for ready-mixed concrete	11
Annex A (normative)	Aggregates for ready-mixed concrete	20
Annex B (normative)	Method for restraining measures of alkali-silica reactivity	27
Annex C (normative)	Water to serve for mixing ready-mixed concrete	30
Annex D (normative)	Method for use of mortar adhered in truck agitator's drum	41
Annex E (normative)	Light-weight formwork	47

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 in accordance with the Industrial Standardization Law.

Consequently **JIS A 5308**:2003 is replaced with this Standard.

In addition, until 2009-09-19, **JIS A 5308**:2003 can be applied.

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

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Ready-mixed concrete

Introduction

This Japanese Industrial Standard was established in 1953 and until today has gone through 11 revisions, the most recent of which took place in 2003. The revision at this time has been made so as to reflect the recent advance in technology and environmental considerations.

1 Scope

This Standard specifies the ready-mixed concrete (hereafter referred to as “ready-mixed concrete”) delivered to the point of discharge. However, this Standard does not specify transportation, placement and curing of the concrete after delivery.

2 Normative references

Standards listed in table 11 contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated in the table shall be applied.

3 Types

The types of ready-mixed concrete covered in this Standard are classified into ordinary concrete, light-weight concrete, concrete for pavement and high-strength concrete, and shall be those indicated by mark ○ in table 1, which are combined with the maximum size of coarse aggregates, slump or slump flow and nominal strength.

Table 1 Types of ready-mixed concrete

Type of concrete	Maximum size of coarse aggregates mm	Slump or slump flow ^{a)} cm	Nominal strength													
			18	21	24	27	30	33	36	40	42	45	50	55	60	Flex-ure 4.5
Ordinary concrete	20, 25	8, 10, 12, 15, 18	○	○	○	○	○	○	○	○	○	○	—	—	—	—
		21	—	○	○	○	○	○	○	○	○	○	—	—	—	—
	40	5, 8, 10, 12, 15	○	○	○	○	○	—	—	—	—	—	—	—	—	—
Light-weight concrete	15	8, 10, 12, 15, 18, 21	○	○	○	○	○	○	○	○	—	—	—	—	—	—
Concrete for pavement	20, 25, 40	2.5, 6.5	—	—	—	—	—	—	—	—	—	—	—	—	—	○
High-strength concrete	20, 25	10, 15, 18	—	—	—	—	—	—	—	—	—	—	○	—	—	—
		50, 60	—	—	—	—	—	—	—	—	—	—	○	○	○	—
Note ^{a)} This is the value of the point of discharge, and 50 cm and 60 cm are the value of slump flow.																

In purchasing ready-mixed concrete, the purchaser shall agree with the producer on the items of a) to q).