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Method of test for J-Ring flow of concrete

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Contents

	Page
1	Scope 1
2	Normative references 1
3	Terms and definitions 1
4	Test instruments 1
5	Sample 4
5.1	Preparation of sample 4
5.2	Temperature of concrete 4
6	Test method 4
7	Calculation 7
7.1	J-ring flow 7
7.2	PJ value 7
8	Test report 7
Annex A (normative)	Alternative J-rings 9

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 Law.

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Method of test for J-Ring flow of concrete

1 Scope

This Japanese Industrial Standard specifies the J-ring flow test method intended for high-fluidity concrete with maximum coarse aggregate size of 40 mm or under.

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 0203 *Concrete terminology*

JIS A 1101 *Method of test for slump of concrete*

JIS A 1115 *Method of sampling fresh concrete*

JIS A 1138 *Method of making test sample of concrete in laboratory*

JIS A 1156 *Method of measurement for temperature of fresh concrete*

JIS B 7512 *Steel tape measures*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in JIS A 0203, and the following apply.

3.1

J-ring flow, SF_J

spread of the diameter of a sample after lifting a slump cone inside a J-ring

NOTE This diameter is expressed to the nearest 1 mm.

3.2

J-ring flow time, T_{500J}

time required for a J-ring flow to reach 500 mm diameter in J-ring flow test

NOTE Time, T_{500J} , is expressed to the nearest 0.1 s.

3.3

passing ability PJ value

ability of fresh concrete to flow past a J-ring

4 Test instruments

The following instruments shall be used for the test.