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Method of test for air content of fresh concrete by volumetric method

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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

Foreword

This translation has been made based on the original Japanese Industrial Standard 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 1118**:2011 is replaced with this Standard.

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 air content of fresh concrete by volumetric method

1 Scope

This Japanese Industrial Standard specifies the method of test for air content of fresh concrete by volumetric method.

This Standard is applicable to the concrete containing coarse aggregates each with a maximum size of not more than 40 mm. If concrete contains the coarse aggregates each with the maximum size exceeding 40 mm, it is preferable to screen the aggregates into 40 mm or less by the method of wet screening, and use them for measurement and calculation of the air content.

This Standard is also applicable to concrete using porous aggregates such as artificial lightweight aggregate concrete.

The comparison table between previous and current editions of this Standard on technically significant revisions is given in Annex A.

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 1115 *Method of sampling fresh concrete*

JIS A 1116 *Method of test for unit mass and air content of fresh concrete by mass method*

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

JIS A 8610 *Building construction machinery and equipment—Internal vibrators for concrete*

3 Test apparatus

3.1 Air meter

The air meter to be used shall be as follows.

a) **Construction of air meter**, as shown in Figure 1. Details of the container, levelling rule, etc. are as shown in Figure 2.