



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS A 5371 : 2010

(JPCC/JSA)

**Precast unreinforced concrete
products**

ICS 91.100.30; 93.080.30

Reference number : **JIS A 5371 : 2010 (E)**

Date of Establishment: 2000-07-20

Date of Revision: 2010-03-23

Date of Public Notice in Official Gazette: 2010-03-23

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

JIS A 5371:2010, First English edition published in 2011-01

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

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Printed in Japan

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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 Japan Precast Concrete Standard Committee (JPCC)/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 5371:2004** is replaced with this Standard.

However, **JIS A 5371:2004** 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 22nd September, 2010.

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Precast unreinforced concrete products

1 Scope

This Japanese Industrial Standard specifies the precast unreinforced concrete products (hereafter referred to as “URC products”). However, this Standard shall not be applied to individual concrete products for buildings and the tactile ground surface indicators for blind persons which are specified in separate Japanese Industrial Standards.

This Standard also applies to URC products which use the reinforcing steel, etc. for the purpose of securing safety in construction without intending to use the reinforced concrete structure.

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

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 1107 *Method of sampling and testing for compressive strength of drilled cores of concrete*

JIS A 1108 *Method of test for compressive strength of concrete*

JIS A 1132 *Method of making and curing concrete specimens*

JIS A 5361 *Precast concrete products—General rules for classification, designation and marking*

JIS A 5362 *Precast concrete products—Required performance and methods of verification*

JIS A 5363 *Precast concrete products—General rules for methods of performance test*

JIS A 5364 *Precast concrete products—General rules of materials and product methods*

JIS A 5365 *Precast concrete products—General rules for method of inspection*

JIS B 7721 *Tension/compression testing machines—Verification and calibration of the force-measuring system*

3 Terms and definitions

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

3.1 Group I

URC products whose conformity with the stated performance is confirmed by actual results, which are manufactured based on such specification, and whose recommended specifications are indicated in Annexes

3.2 Group II

URC products whose performance and specifications are defined by the agreement between the parties concerned with delivery and which are manufactured based on such specifications

4 Classification

URC products shall be classified as specified in table 1 by the application.

In addition, products shall be classified into Group I and Group II according to the determination method of performance and specifications.

Table 1 Classification of URC products

Classification	Applicable clause in Annex
Covered conduits	See A.2.
Pavement/boundary blocks	See B.2.
Surface drainage ditches	See C.2.
Block type retaining walls	See D.2.
Other products Example 1 Drainage canals Example 2 Slope covering blocks Example 3 Sowed concrete blocks	Shall be subjected to the agreement between the parties concerned with delivery.
NOTE : Annexes include Group I having the recommended specifications and Group II having no recommended specifications.	

5 Quality

5.1 Appearance

The appearance shall be tested as specified in **8.1** and it shall be free from any flaw, crack, chip, camber, torsion (in the case of a board-like product), etc. which are detrimental practically. Moreover, the water-contact surface of URC products for water-channel shall be as smooth as practically acceptable.

5.2 Performance

The performance shall conform to the provisions of table 2 when tested as specified in clause 8.

Table 2 Performance of URC products

Classification	Applicable clause in Annex
Covered conduits	See A.3.
Pavement/boundary blocks	See B.3.
Surface drainage ditches	See C.3.
Block type retaining walls	See D.3.
Other products Example 1 Drainage canals Example 2 Slope covering blocks Example 3 Sowed concrete blocks	<p>a) Performance Specific items of performance shall be selected and designated subjected to the agreement between the parties concerned with delivery as specified in JIS A 5362.</p> <p>When performance is clearly correlated with product specifications (dimensions, materials, etc.), the agreement may be substituted by designation of product specifications indicated in b).</p> <p>b) Specification of alternative characteristics The specification of alternative characteristics shall be as follows.</p> <ol style="list-style-type: none"> 1) Dimensions 2) Compressive strength of concrete

6 Shape, dimensions and dimensional tolerances

The shape, dimensions and dimensional tolerances shall be as specified in table 3.

Table 3 Shape, dimensions and dimensional tolerances of URC products

Classification	Applicable clause in Annex
Covered conduits	See A.4.
Pavement/boundary blocks	See B.4.
Surface drainage ditches	See C.4.
Block type retaining walls	See D.4.
Other products Example 1 Drainage canals Example 2 Slope covering blocks Example 3 Sowed concrete blocks	Shall be subjected to the agreement between the parties concerned with delivery.

7 Material and production method

The material used for URC products and the production method shall be as specified in **JIS A 5364**.

8 Test methods

8.1 Appearance test

The appearance test shall be conducted by a visual observation to check for any flaw, crack, chip, camber, torsion (in the case of a board-like product), etc. which are detrimental practically.