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**Ceramic block for pavement using ce-
ramic industrial by-product “KIRA”**

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Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification	2
5 Quality	2
5.1 Appearance	2
5.2 Performance	2
6 Dimensions and dimensional tolerances	3
7 Material	4
8 Test methods	4
8.1 Specimen	4
8.2 Appearance	4
8.3 Dimensions	4
8.4 Bending fracture load test	4
8.5 Flexural strength test	4
8.6 Compressive strength test	4
8.7 Freeze-thaw resistance test	4
8.8 Slip resistance test	4
8.9 Water retention test	5
8.10 Water absorption (absorption height) test	5
8.11 Water absorption (absorption height) test on paving sand	5
8.12 Evaporation test	7
8.13 Evaporation test on paving sand	12
9 Inspections	14
9.1 Inspection items	14
9.2 Inspection lot	14
9.3 Inspection method	14
10 Marking	15

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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Ceramic block for pavement using ceramic industrial by-product “KIRA”

Introduction

This Japanese Industrial Standard provides quality requirements and test methods for highly water absorbent, highly water retentive ceramic pavement blocks designed to improve heat environment of pavements in urban areas. This Standard aims to promote widespread use of such ceramic blocks, as well as to facilitate effective utilization of the unused natural resource called “KIRA” which is expected to increase water retentivity and water absorbability of ceramic blocks.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies requirements for highly water absorbent, highly water retentive ceramic pavement blocks (hereafter referred to as blocks) which are manufactured by forming, baking and hardening a mixture of materials mainly composed of KIRA and which are used for paving open spaces, parking lots, sidewalks, etc. not having a steady traffic of large sized vehicles.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amendments) made thereafter shall not be applied. For those without the indication of the year, the most recent editions (including amendments) shall be applied.

JIS A 0203 *Concrete terminology*

JIS A 1148 *Method of test for resistance of concrete to freezing and thawing*

JIS A 5215 *Brick for pavement*

JIS A 5371 *Precast unreinforced concrete products*

JIS B 7516 *Metal rules*

JIS R 1250 *Common bricks and facing bricks*

JIS R 5201 *Physical testing methods for cement*

ASTM E 303 : 2013 *Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS A 0203**, and