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Precast concrete paving units

混凝土路面砖

(English Translation)

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Foreword

This standard 6.3 and 6.4 in wear resistance, frost resistance and slip resistance as mandatory, others are recommended.

This standard is prepared in accordance with GB/T 1.1-2009 of.

The standard reference ASTM C902-2009 "pedestrian and light traffic road blocks", ASTM C936-2009 "solid interlocking concrete road Brick ", EN1338:2003 " Concrete pavers requirements and test methods ", EN1339:2003 " Concrete pavement requirements and test method".

The standard proposed by China Building Materials Federation.

This standard building materials Standardization Technical Committee (SAC/TC285) administered by the National wall, roof and road use.

This standard was drafted. Building Materials Science Research Institute of Liaoning Province, the building materials industry and technical supervision research center, Chinese building materials West Ann Wall Materials Research and Design Institute, China Building Block Association.

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1 Scope

This standard specifies the terms and definitions of concrete pavers, classification, general requirements, technical requirements, test methods, inspection rules, marks, Instructions for use, packaging, transportation, storage and the like.

This standard applies to road paving and concrete floor tiles.

2 Normative references

The following documents for the application of this document is essential. For dated references, only applies to the version dated paper Pieces. For undated references, the latest edition (including any amendments) applies to this document.

GB 175 common portland cement GB/T 1596 for cement and fly ash in concrete GB/T 2015 White Portland cement GB 6566 Building materials radionuclide limits GB 8076 concrete admixtures GB/T 12988 abrasion resistance test method of the inorganic material surface GB/T 14684 construction sand GB/T 14685 construction with gravel, crushed stone GB/T 16925 abrasion resistance test method of concrete and its products (ball method) GB/T 18046 for granulated blast furnace slag cement and concrete JC/T 539 with pigments, and

concrete and mortar test method JC/T 870 colored Portland cement JGJ63 concrete water standards

3 Terms and Definitions

The following terms and definitions apply to this document.

Cement, aggregate, and water as the main raw materials, mixing, molding, curing and other processes in the plant, is not configured steel, mainly for road Surface and ground concrete paving brick.

Rectangular, square or a regular polygon of concrete pavers.

Concrete pavers other than rectangular, square or a regular polygon.

Concrete bricks made of two different materials ratio of the surface layer and the body.

Concrete pavers are made of the same material ratio.

Slip resistance non-slipnature the sole resistance pedestrians or other moving object and the relative sliding concrete bricks contacting surface properties.

Positioning ribs positioningnibs to facilitate installation and maintenance, in a fixed position projecting ribs of the side elevation.

Category 4

4.1 Category

4.1.1

shape according to the shape concrete bricks into P (N) and the profiled concrete bricks (I).

4.1.2

material molding concrete bricks, concrete bricks into tape surface layer (C) and the whole body of concrete pavers (F).

4.2 Specifications

4.2.1

concrete pavers nominal thickness Size (mm) divided 60,70,80,90,100,120,150.

4.2.2

Other sizes and geometries are available upon request user and design, both parties are determined by supply and demand.

4.3.1 Compressive strength rating

The compressive strength of concrete pavers (MPa) into Cc40, Cc50, Cc60 three levels.

4.3.2 Flexural strength rating

Flexural strength of concrete pavers (MPa) into Cf4.0, Cf5.0, Cf6.0 three levels.

4.4 Mark

Bricks labeled product by product shape, the molding material, the thickness of the preparation, strength grade and standard number sequence.

Example. thickness 60mm, the compressive strength of concrete bricks level mark is profiled henselae Cc40.

5.1 Raw materials

5.1.1

should comply with cement Portland cement in GB 175, ordinary portland cement, GB/T 2015 and a corresponding predetermined JC/T 870.

5.1.2

fine aggregate shall comply with GB/T 14684's.

5.1.3

coarse aggregate shall comply with GB/T 14685's.

Fly 5.1.4 should be consistent with GB/T 1596's.

5.1.5

slag powder should be consistent with GB/T 18046 of.

5.1.6

industrial waste should comply with the relevant standards and specifications in China. People should not durability, biological, environmental and concrete pavers Harmful effects.

5.1.7

Concrete admixtures should meet the requirements of GB 8076.

5.1.8

mixing water and conservation of water should comply with the provisions of JGJ63.

5.1.9

pigment should be consistent with JC/T 539's.