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GB 50037-2013

**Code for design of building ground
建筑地面设计规范**

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and Quarantine of the People's Republic of China**

**Ministry of Housing and Urban-Rural Development of the
People's Republic of China**

National Standard of the People's Republic of China

Code for Design of Building Ground

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People's Republic of China

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Announcement

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Announcement of the Ministry of Housing and Urban-Rural Development of
the People's Republic of China
about Issuing National Standard *Code for Design of Building Ground*

This is to approve *Code for Design of Building Ground* as a national standard, which is numbered as GB 50037-2013 and will be enforced from May 1, 2014. Of which, Article 3.2.1, Article 3.2.2, Article 3.8.5 and Article 3.8.7 are compulsory and must be strictly followed. Original *Code for Design of Building Ground* GB 50037-1996 is abolished.

This standard is issued by China Planning Press upon the authorization of our Standard Rating Institute.

The Ministry of Housing and Urban-Rural Development of the People's Republic of China

September 6, 2013

Foreword

This code is prepared together by China United Engineering Corporation and other relevant units in accordance with the requirements of *Notice on Issuing 2001~2002 Preparation and Revision Plan of Engineering Construction Standard* (J.B. [2002] No. 85) of the original Ministry of Construction.

In preparation of this standard, the preparation team widely seeks for opinions of design, R&D, production department and other departments and units, collects mass data and finally makes this draft upon analytical investigation and based on domestic engineering practice.

The provisions in bold in this code are compulsory and shall be strictly followed.

This code shall be governed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China and its compulsory provisions shall be also interpreted by the Ministry of Housing and Urban-Rural Development of the People's Republic of China; its daily management shall be carried out by China Machinery Industry Federation and its technical provisions shall be interpreted by China United Engineering Corporation. If all units find any provisions needing revision or supplement in execution of this code, please send opinions and data to China United Engineering Corporation (Address: No. 338, Shiqiao Road, Hangzhou, Zhejiang Province; Post Code: 310022) for reference in future revision work.

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1 General Provisions

1.0.1 This code is prepared in order to make building ground up to building function and use requirements, ensure advanced technology, economic feasibility, safety, environmental protection and ensure building quality.

1.0.2 This code is applicable to design of underlying ground and floor ground and aprons, open ditches, steps, stairs and ramps, etc.

1.0.3 In building ground design, it is required to fully use local materials and recoverable resources, adapt to local conditions and make a difference according to engineering features and working conditions.

1.0.4 Building ground design, except conformance to this code, shall also conform to current relevant national standards.

2 Terms

2.0.1 Building Ground

The general name of underlying ground and floor ground of building.

2.0.2 Surface Course

The surface course of building ground that directly suffers physics and chemical actions.

2.0.3 Combined Course

The connection layer between surface course and subjacent structural course.

2.0.4 Troweling Course

The structural layer that plays a role in troweling cushion, floor or filler course.

2.0.5 Isolating Course

The structural layer that prevents liquids, or water and damp on the building ground from penetrating the ground.

2.0.6 Damp Course

The Structural layer that prevents underground damp from penetrating the ground.

2.0.7 Filler Course

The structural layer that plays a role in sound isolation, heat preservation, slope making or hidden laying of pipelines, etc.

2.0.8 Under Layer

The structural layer set on the building foundation to bear and transfer upper load.

2.0.9 Foundation

The soil layer withstanding the load of underlying ground.

2.0. 10 Shrinkage Crack

Shrinkage crack set to prevent concrete cushion from zigzag cracks when temperature decreases.

2.0. 11 Stretching Crack

Expansion joint set to prevent concrete cushion from crushing or hogging around shrinkage crack when temperature rises.

2.0. 12 Lengthwise Shrinkage Crack

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