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**CERTIFICATION AND ACCREDITATION INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

RB/T 145-2018

**Guidance on the proficiency testing of strength for concrete
structure
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is proposed and managed by the National Certification and Accreditation Administration.

This standard was drafted. China National Accreditation Center for Conformity Assessment, China Academy of Building Research, Ministry of Transport, Highway Science Research Research institute.

Introduction

With the rapid development of China's economy and society, the number of construction projects is increasing, and the inspection and inspection of the strength of concrete structures is increasing year by year.

The concrete strength of concrete structure directly affects the quality and safety of construction engineering, and the technology of physical strength inspection and inspection mechanism for concrete structures the ability is increasingly valued by industry authorities and the attention of the society. As a kind of conformity assessment activity, proficiency testing has gradually become a line the competent authority, the accreditation body, and the users of the inspection and test results are important means for the evaluation of the technical capabilities of the inspection and testing institutions.

GB/T 27043-2012 specifies the general requirements for proficiency testing providers' capabilities, establishment and operational proficiency testing schemes, applicable Organization and management of proficiency testing in all areas of inspection and testing. This standard is based on GB/T 27043-2012, combined with concrete knots the characteristics and requirements of the field of physical strength testing and testing, and provide guidance for the implementation of the proficiency testing activities, which can help regulate the field the organization and implementation of the verification plan.

This standard does not cover the content of management requirements for proficiency testing providers. For related content, please refer to GB/T 27043-2012.

Concrete structure physical strength ability verification implementation guide

1 Scope

This standard gives the organization and planning of the concrete structure strength verification plan, the determination, inspection and inspection of the capability verification items.

Method selection, of statistical methods, determination of specified values and their uncertainty, calculation of ability statistics, ability assessment, proficiency assessment Guidelines for reporting, communicating with participants, and confidentiality.

This standard applies to the organization and implementation of the verification plan for the strength of concrete structures in the field of inspection and testing.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

General requirements for GB/T 27025 testing and calibration laboratory capabilities GB/T 27043-2012 General requirements for conformity assessment GB/T 28043-2011 Statistical method for proficiency testing using inter-laboratory comparison JGJ/T 23-2011 Technical Specification for Rebound Method for Testing Concrete Compressive Strength

3 Terms and definitions

The following terms and definitions as defined in GB/T 27043-2012 apply to this document. For ease of use, the following is repeated Some terms and definitions in GB/T 27043-2012.

Concrete structure Structures made of concrete as the main material, including plain concrete structures, reinforced concrete structures and prestressed concrete structures.

[GB/T 50083-2014, definition 2.1.24] 3.2 Structural member the physically distinguishable parts of the structure, such as columns, beams, plates, foundation piles, etc.

[GB/T 50083-2014, definition 2.1.28] 3.3 Test area A detection unit for detecting the concrete strength of a component.

[JGJ/T 23-2011, definition 2.1.1] 3.4 Measuring area concrete strength conversion value conversionvalueofconcretecompressivestrengthoftestarea the concrete of the current age is

obtained from the average rebound value and the carbonization depth value of the survey area through the strength curve or the strength conversion table of the survey area.

Degree value.

[JGJ/T 23-2011, definition 2.1.3]