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**Anchors for fixing of thermal insulation composite systems
(English Translation)**

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Table of Contents

Foreword
1 Scope
2 Normative reference documents
3 Terms and definitions
4.1 Classification
4.2 Markings
5 General requirements
6 Requirements
6.1 Dimensions and tolerances
6.2 Bolt tensile capacity of the standard value
6.3 Standard value of anti - pull force of bolt
6.5 Relaxation performance of the bolt
6.6 Influence of Ambient Temperature on Standard Value of Anchor Bearing Capacity
6.7 Damage torque of screw-in anchor
7 Test method
7.1 Standard test conditions
7.2 Numerical correction
7.3 Dimensions and tolerances
7.4 Bolt Tensile Bearing Capacity Standard Value
7.5 Standard value of anti - pull force of bolt
7.7 Relaxation performance of anchor
7.9 Damage torque of screw-in anchor
8 Inspection rules
8.1 Test items
8.2 Group Batch Rules
8.3 Judgment and re-inspection rules
9 Logo and product brochure
9.1 Mark
9.2 Product brochure
9.3 Certificate
10 Packaging, transportation and storage
10.1 Packaging

10.2 Transport

10.3 Storage

Foreword

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

This standard is proposed by the Institute of Standards and Valuation of the Ministry of Housing and Urban-Rural Development.

This standard by the Ministry of housing and urban and rural construction products and structural parts of the product standardization technical committee.

This standard is responsible for drafting units. China Building Standard Design and Research Institute.

This standard participates in the drafting unit. Hui fish (Taicang) Construction Anchor Co., Ltd., Beijing University of Technology, China Academy of Building Research, Shanghai Building Science Research Institute (Group) Co., Ltd., Hilti (China) Trading Company, Zhejiang Everbright Fiberglass Co., Ltd., (Beijing) Technology Development Co., Ltd.

1 Scope

This standard specifies the term and definition, classification and marking of general wall anchors for external wall insulation, general requirements,, test methods, inspection rules, and product brochures, packaging, transportation and storage.

This standard applies to fixed in the concrete, masonry wall, to paste the main, mechanical anchoring, supplemented by external wall insulation system attached Anchor used for anchoring.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, the only dated edition applies to this article the latest version (including all modifications) applies to this document.

GB 5101-2003 Sintered Ordinary Bricks GB/T 5267.1 Fastener plating Representation and Judgment of Numerical Correction Rule and Limit Value in GB/T 8170-2008 Ordinary concrete small hollow block GB 8239-1997 Autoclaved lime - sand bricks Autoclaved aerated concrete blocks GB 11968-2006 Sintered Porous Bricks for GB 13544-2000 Sintered hollow bricks and hollow blocks GB 13545-2003 Lightweight aggregate concrete small hollow block GB/T 15229-2002 Technical specification for lightweight aggregate concrete JC239-2001 fly ash brick Autoclaved gray sand hollow bricks - JC/T 637-1996

3 Terms and definitions

The following terms and definitions apply to this document.

Anchor for external wall insulation by the expansion and expansion of the casing composition, or only by the expansion of the casing, relying on the expansion of the friction or mechanical locking effect connected to the insulation System and the base wall of the mechanical fixture, referred to as anchor.

Disc anchor

Used for fixing insulation material, expansion sleeve with anchor bolt.

Flange anchor profile for the use of fixed insulation system with the bracket, the expansion sleeve without a disc with a flange of the bolt.

Expansionware

A member for extruding an expansion sleeve to produce an expansion force.

Percussion anchor nailed-inanchor A bolt of an expansion force or an expansion sleeve that squeezes the borehole wall to create an expansion force.

Screwed-inanchor

Extend the expansion member into the expansion sleeve to squeeze the casing through the borehole wall, creating an anchor force for expansion or mechanical locking.

Grass - roots wall

Insulation system attached to the external walls.

Grass-roots wall test pieces sampleforsubstrates in the different types of grass-roots walls of the anchor to test the performance of the anchor bolt used to test the specimen.

Category and Marking

4.1 Classification

4.1.1

In accordance with the bolt structure is divided into disk anchor (code Y) and flange bolt (code T), bolt diagram see Appendix A.

4.1.2

In accordance with the bolt installation method is divided into screw-in anchor (code X) and percussion anchor (code Q).

4.1.3

According to the anchor bearing mechanism is divided into only by friction bearing anchor (code C), and by friction and mechanical lock bearing anchor (Code J).

4.1.4

According to the expansion of the bolt and expansion casing material is divided into carbon steel (code G), plastic (code S), stainless steel (code B).

4.2 Markings

The bolt is marked by the classification, installation, bearing mechanism, anchor code, casing diameter x casing length, expansion casing material, expansion the material composition of the material.

Example 1. percussion disc anchor, through the friction bearing, expansion sleeve diameter 8mm, expansion sleeve length 90mm, plastic expansion casing, plastic expansion parts, standard Remember. YQCM-8 x 90SS

Example 2. Screw-in flange bolts, friction and mechanical locking load, expansion sleeve diameter 8mm, expansion sleeve length 115mm, plastic expansion sleeve, plating Zinc carbon steel expansion parts, marked as. TXJM-8 x 115SG

5 General requirements

5.1

Anchor bolts can be used in the following categories of base walls.

- a) ordinary concrete base wall (class A);
- b) solid masonry floor (class B), including sintered ordinary brick, autoclaved lime bricks, autoclaved fly ash brick masonry and light aggregate coagulation Earth wall
- c) Porous brick masonry floor (class C), including sintered porous brick, autoclaved lime sand porous brick masonry wall;
- d) Hollow block base wall (class D), including ordinary concrete small hollow block, light aggregate concrete small hollow block wall;
- e) Autoclaved aerated concrete base wall (class E).

5.2

plastic expansion parts and plastic expansion casing should be used in the original polyamide (Polyamide6, Polyamide6.6), polyethylene (Polyeth-ylene) or polypropylene (Polypropylene), should not use recycled materials.