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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 34180-2017

**Thermal insulation products for building applications --
Determination of the resistance to impact of external thermal
insulation composite systems (ETICS)**

建筑用绝热制品 外墙外保温系统抗冲击性测定

(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 uses redrafted Law Amendment uses ISO 29803:2010 "Building Insulation Products Exterior Insulation System Impact Resistance Measurement set".

This standard and ISO 29803:2010 technical differences and the reasons are as follows.

--- ISO 29803:2010 7.2 impact level 2J modified to impact level 3J, the corresponding impact height by the 408mm repair 610mm to adapt to our country's technical conditions;

--- Deleted ISO 29803:2010 in 7.2 applicable ISO 7892 test methods, this standard has been clearly described in the anti-shock Hit test method

--- Delete the 6.2 state adjustment, 7.1 test conditions and Chapter 10 of the test report for tropical countries to adapt to our self However,

--- Taking into account Chapter 10 of the test report part of the information testing organization more difficult to obtain, and more cumbersome, the "product preparation", "product master the form of adhesive to be used "and the" test on the determination of veneer and grassroots "and other original reports should include the contents of the amendment to" if necessary Include "(see Chapter 10).

The documents of our country that are consistent with the corresponding international documents that are normative references in this standard are as follows.

--- GB/T 1725-2007 Paints, varnishes and plastics Determination of non-volatile content (ISO 3251:2003, IDT)

--- GB/T 4132-1996 insulation terminology (ISO 9229:1991, NEQ)

--- GB/T 30804-2014 Insulating products for building perpendicular to the surface tensile strength measurement (ISO 29765:2008, IDT) this standard proposed by the China

Building Materials Federation.

This standard by the National Standardization Technical Committee thermal insulation material (SAC/TC191) centralized.

This standard drafting unit. Nanjing Fiberglass Research and Design Institute Co., Ltd., the national glass fiber product quality supervision and inspection center.

1 Scope

This standard specifies the impact of the external insulation system to determine the impact of equipment and steps.

This standard applies to external insulation system.

2 Normative references

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

ISO 3251 Paints, varnishes and plastics Determination of non-volatile content (Paints, varnishes and plastics-Determination of non-volatile matter content) ISO 9229 Thermal insulation terminology (Thermal insulation-Vocabulary) ISO 29466 Determination of building insulation products thickness (Thermal insulating products for building applications-Determination of thickness) ISO 29470 building insulation products - Determination of apparent density (Thermal insulating products for building applications-Determination of the apparent density) ISO 29765 Thermal insulation products for building - Determination of vertical tensile strength (Thermal insulating products for building applications-Determination of tensile strength perpendicular to faces) EN13499 building insulation products Polystyrene wall insulation system specifications (Thermal insulation products for buildings-External thermal insulation composite systems (ETICS) based on expanded polystyrene-Specification

3 Terms and definitions

Terms and definitions defined in ISO 9229 and EN 13499 apply to this document.

4 Principle

The impact resistance of the exterior insulation system is determined by the surface of the steel ball impact exterior insulation system. Any damage generated by the system should be fixed Sexual evaluation, such as the enhancement layer is exposed, there is obvious peeling or perforation on the finish.

5 Test device

Impact level of 3J test, the use of (500 ± 5) g of steel ball from (610 ± 1) mm height drop. Ball along a vertical tube Road free fall to the sample surface (see Figure 1), the pipe diameter than the ball diameter at least 2mm, length 610mm, upright in the horizontal test Above the surface of the sample.

An impact level of 10 J test was dropped from a height of (1020 ± 1) mm with a ball of (1000 ± 10) g. Ball along one