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

GB/T 28289-2012

**Test methods for composite performances of aluminium alloy
thermal barrier profiles**

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Administration of the People's Republic of China**

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3.1 Longitudinal shear test

Foreword

This standard rule according to GB/T 1.1-2009 given draft.

The standard reference method using redrafted EN14024.2004 (E) "insulated metal profiles performance requirements and test trials", AAMA

TIRA8-08 "building insulated aluminum profile structure Performance" preparation and EN14024., AAMATIRA8-08 unanimous 2004 (E)

The degree of non-equivalent.

This standard by the national non-ferrous metals Standardization Technical Committee (SAC/TC243) centralized.

This standard is drafted by. Guangzhou Nonferrous Metal Research Institute, Fujian Nanping Aluminum Co., Ltd. Shenzhen high-grade equipment,

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1 Scope

This standard specifies the insulated aluminum profiles longitudinal shear test, transverse tensile test, torsional test, high temperature lasting lateral load pull

Tensile test, thermal cycle test, test performance test methods and other composite creep coefficient (A2) was measured.

This standard applies to construction with insulated aluminum profiles complex performance tests.

Other types of composite profiles can refer to this standard.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article

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

GB/T 228-2002 metal materials at room temperature tensile test method

GB/T 8170 represents rounding off rules and limit values and judgment

GB/T 16491 electronic universal testing machine

Check tension and (or) pressure testing machine force measuring system. GB/T 16825.1-2008 static uniaxial testing machines - Part 1

Test and calibration

Test Method 3

3.1.1.1 Tester

3.1.1.1.1 testing machine shall comply with GB/T 16825.1-2008 the accuracy of Class 1 or better level.

3.1.1.1.2 tester maximum load of not less than 20kN.

3.1.1.1.3 be equipped with high and low temperature environmental chambers, testing machine space is not less than 500mm x 1200mm appropriate.

NOTE. Test elastic coefficient (C1), the tester should be used in line with GB/T 16491 requirements.

3.1.1.2 High and low temperature environmental chambers basic requirements refer to the provisions of Appendix A.

3.1.2 Sample

3.1.2.1 specimens shall conform cut the profile corresponding product standards should retain their original surface and remove the burr on the sample after processing.

3.1.2.2 cut the sample should be the prevention of thermal processing and affect performance test results of the sample.

3.1.2.3 sample form and position tolerances shall comply with the requirements of Figure 1.

3.1.2.4 Sample size is 100mm +/- 2mm, with a resolution no greater than 0.02mm vernier

caliper, in insulation materials and aluminum complex

Closing parts of the measurement, each sample measurements two positions, calculate the average.

3.1.3.1 before performance test, the samples shall state regulation.

3.1.3.2 insulated aluminum profiles specimens shall be at a temperature of 23 degrees C +/- 2 degrees C, relative humidity of 50% +/- 10% of the environmental conditions placed 48h.