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

中华人民共和国国家标准

**GB/T 1452-2005
Replaces GB/T 1452-1987**

**Test method for flatwise tension
strength of sandwich constructions
夹层结构平拉强度试验方法**

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Foreword

The reversion of this standard adopts American ASTM C297—94(1999) *Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions*. Annex A describes the contrast list of the chapter and article numbers of this standard and those of ASTM C297—94(1999).

The main technological disparities between this standard and ASTM C297—94(1999) are as follows:

- This standard adopts fixture with cardan joint;
- This standard has not only flat tension strength indexes but has flat tension glue joint line strength indexes for trellis pattern core.

This standard will substitute for GB/T 1452—1987 *Standard Test Method for Flatwise Tension Strength of Non-metal Sandwich Constructions*.

This standard, in comparison with GB/T 1452—1987 have the major changes as follows:

- Added the foreword;
 - Added the scope (See Chapter 1);
 - Added the normative references (See Chapter 2);
 - Added some terms and definitions (The Chapter 1 of 1987 version, the Chapter 3 of this version);
 - Added the test principle (See Chapter 4);
 - Added the sample preparation (See Chapter 7);
 - Previous test conditions will be divided into two chapters of test equipment and status regulation (The Chapter 3 of 1987 version, the Chapter 5 and Chapter 8 of this version);
- Annex A to this standard is informative appendix.

This standard is proposed by China Building Materials Industrial Association.

This standard shall be under the jurisdiction of the National Technical Committee on Fiber Reinforced Plastic of Standardization Administration of China.

The responsible drafting organization of this standard is: Shanghai FRP Research Institute.

The main drafter of this standard: Zhou Zhulin, Wang Yaxiong, and Zhang Zilong.

This standard was first issued in 1978, first revised in 1987 and second revised in 2003.

Test method for flatwise tension strength of sandwich constructions

1 Scope

This standard specifies the test principle, test equipment, samples, status regulation, test procedures, calculation, test results and test reports and others for test method for flatwise tension strength of sandwich constructions.

This standard is applicable to measurement of flatwise tension strength of core in sandwich constructions and flatwise tension strength of glue jointing of panel and core.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 1446-2005 Fiber-reinforced plastics composites--The generals

GB/T 3961 Terms for fibre reinforced plastics

3 Terms and definitions

The following terms and definitions and those established in GB/T 3961 apply to this standard.

3.1

Flatwise tension

Tension by using the special fixtures along the direction vertical to panels of sandwich constructions

3.2

Flatwise tension linear strength

For honeycomb type sandwich construction, maximum tensile strength sustained at the unit jointed side at the direction vertical to panels of sandwich constructions.

3.3



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