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CCS B 60



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

GB/T 14017-2009

Replacing GB/T 14017-1992

**Method of testing in tensile strength perpendicular to grain of
wood**

(English Translation)

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Foreword

This revised standard adopts the International Standard ISO 3346. 1975 "wood grain ultimate tensile stress determination." this standard and ISO 3346. 1975 The main difference compared to the technical content as follows.

--- 4.2 Modify measurement tools vernier caliper or other measuring tools (1975 edition and 4.2).

--- 5.3 modify the effective part of the sample (refer to the middle section of the specimen 30mm) texture should be perpendicular to the long axis of the specimen. Transition specimen Arc portion should be smooth and symmetrical with the center line of the sample. Tangential thickness of the active portion of the sample should have a complete growth ring (1975 in this edition and 5.3).

--- 7.2 modify, stripes tensile specimen moisture content of 12%, and radial sample press $\sigma_{12} = \sigma_W [1 + 0.01 (W - 12)]$ count Operators, Tangential specimen $[1 + 0.025 (W - 12)]$ Calculation (1975 and this version 7.2) by $\sigma_{12} = \sigma_W$.

This standard replaces GB/T 14017-1992 "wood grain tensile strength testing." this standard compared with GB/T 14017-1992, the following changes.

--- 4.2 Modify measurement tools vernier caliper or other measuring tools (1992 edition and 4.2);

--- 5.1 modify, test material sawing and test specimens shall comply with GB/T 1929-2009 the provisions of Chapter 3, delete the original image. 1 and 2 (1992 edition and 5.1);

--- Of 5.2 in FIG. 1 redrawn (1992 edition and 5.2);

--- Remove 6.3 "will undermine load fill in Appendix A (Supplement) records in the table" (1992 edition and 6.3);

--- Edit "8 recording and reporting test results", according to the test results recorded in Appendix A fill; the test report according to GB/T 1928-7.4 in 2009 to write the contents of

the provisions (of 1992 and Chapter 8 of this edition);

--- Increase in Appendix A test site, remove tension area, moisture content, tangential and radial stripes tensile strength tensile strength (1992 in this edition and Appendix A).

Appendix A of this standard is a normative appendix.

This standard was proposed by the State Forestry Administration.

This standard by the National Standardization Technical Committee timber.

1 Scope

This standard specifies the wood grain tensile test equipment, samples, test procedures and results of calculation measurement.

This standard applies to small sample timber unblemished stripes tensile strength test.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1928-2009 General physical and mechanical test methods (ISO 3129. 1975, Wood-Sampling methods and general requirements for physical and mechanical tests, NEQ)
GB/T 1929-2009 physical and mechanical test materials and test specimens sawing method (ISO 3129. 1975, Wood-Sampling methods and general requirements for physical and mechanical tests, MOD) GB/T 1931-2009 Method for determination of moisture content of wood (ISO 3130. 1975, Wood-Determination of moisture content for physical and mechanical tests, MOD) Principle 3 Stripes along the direction of the sample, at a uniform rate of pulling force to destroy obtained stripes tensile strength of wood.

4 Test Equipment

4.1

test machine, load measurement accuracy should be consistent with GB/T 1928-2009 Chapter 6 requirements. To ensure that the sample along the longitudinal axis of the tension gripping Means should be joint activities. Size of the opening of the clamping device should be 25mm ~ 35mm, and the sample can clip it does not produce the test Slip.

4.2

Measurement tools vernier caliper or other measuring tools, measurements should be accurate to 0.1mm.

4.3

Wood moisture content determination equipment shall comply with GB/T 1931-2009 the provisions of Chapter 3.

5 Sample

5.1

test material sawing and test specimens shall comply with GB/T 1929-2009 the provisions of Chapter 3.

The shape and size of the sample is shown in Figure 1 5.2.

Millimeters

a) Radial b) tangential

Figure 1 stripes tensile specimen