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JG

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

JG/T 507-2016

Replacing JG 3056-1999

**Digital Sticking Strength Tester
(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 replaces JG 3056-1999 "digital bond strength tester." Compared with JG 3056-1999, the main technical changes as follows.

- The original standard Chapter 3 "Definitions, Symbols" to Chapter 3 "Terms and Definitions" and Chapter 4 "Symbols" (see Chapter 3, paragraph 4 chapters);
- Add "is pulled media" definition;
- The original standard "veneer" is changed to "be pulled media" to expand the "adhesion" "bond strength" definition of the limitations apply to other Medium (see 3.1, 3.2, 3.3);
- Increase the square standard block size 100mm x 100mm x 8mm (see 3.6.1);
- Increase the circular standard block. a diameter of 50mm, a thickness of 8mm, the allowable deviation of $\pm 0.5\text{mm}$, using 45 steel or chrome steel Material production (see 3.6.2);
- Delete " μ --- accuracy level";
- Add "system error $\leq 1.5\%$ " (see Table 1);
- "Piston stroke = 10mm" to "Piston stroke $\geq 10\text{mm}$ " (see Table 1);
- Change "test stand span = 110mm" to "test stand span $\geq 120\text{mm}$ " (see Table 1);
- Remove "maximum manual oil pump discharge" (see Table 1);
- "Manual pump maximum pressure = 8.5MPa" to "the maximum test force = 10kN" (see Table 1);
- The DC voltage "17.5V" changed to "the DC power supply voltage should be 12V, for 5V, 6V, 9V; small voltage range at 5%" (see 6.1.2);
- Change "minimum resolution unit 0.01kN" to "minimum tension unit 0.001kN" (see 6.4);
- The "loading device performance" in the "load indication should not exceed the range of

0.2% of the load range of the detector" is changed to "change in load indication the moving range should not exceed 0.1% of the detector loading range (see 6.7.2)";

--- "20 °C ± 50 °C" to "-10 °C ~ 50 °C" (see 7.1.1);

--- Add test equipment "steel ruler" "electronic scale" "roughness measuring instrument" (see Appendix A).

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Construction Engineering Survey and Measurement Standardization Technical Committee.

This standard was drafted. Henan Institute of Building Research Co., Ltd., Henan Province, Construction Quality Testing Center Station Limited Division, Shanghai Step Green Technology Development Co., Ltd., Henan Province ASTRI Engineering Testing Co., Ltd., Shanghai Buqin Equipment Co., Ltd., built seven Bureau Building Decoration Engineering Co., Ltd., Henan Institute of Metrology.

1 Scope

This standard specifies the number of explicit bond strength tester terms and definitions, symbols, code and markings, requirements, test methods, inspection rules, Logo, packaging, shipping and storage.

This standard applies to construction projects are pulling medium and bonding layer interface bond strength testing with digital display of bond strength detector.

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.

GB/T 191 Packaging - Pictorial signs GB/T 2828.1 Sampling procedures for inspection - Part 1. Batch inspection sampling plan by acceptance quality limit (AQL) GB/T 6587-2012 electronic measuring instruments - General specifications JG J110 architectural decorative tile adhesion strength test standards Technical specification of JG J/T 220 plastering mortar

3 Terms and definitions

The following terms and definitions apply to this document.

Pulled medium puledmedium Bonding to the surface of the bonding layer.

Cohesive force

Be pulled medium and the bonding layer interface, the adhesive layer itself, the adhesive layer and leveling layer interface, leveling layer itself, leveling layer and substrate interface, was the tensile force perpendicular to the surface causes the maximum tensile force at break.

Bond strength cohesivestrength be pulled medium and the bonding layer interface, the adhesive layer itself, the adhesive layer and the leveling layer interface, leveling layer itself, the leveling layer and the substrate interface unit the area to bear the cohesion.

Digital bond strength tester digitalstickingstrengthtester by the digital test display system, hydraulic loading system consisting of JG J110 and other related standards to meet the test requirements of the bonding method Intensity detector.

Bracket span supportspan the distance between the two inner walls of the piston holder in the hydraulic loading system of the digital bond strength tester.