



Test Report

Applicant

Best Building Materials LLC

Test Category

Entrusted Test

Sample Type

Best Fireproof Structure Board A

Test Standard

ASTM D1037 & ASTM D1761

TEST REPORT DUPLICATION

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Precautions

1. This test report is invalid without authorized approved signature, signature of verifier and approver.
2. This test report is invalid if being supplemented, deleted or altered.
3. Unless otherwise stated, the observations and test results in this report are relevant only to the sample(s) tested.
4. Objections to the test report must be submitted to Hongjun within 15 days of report received date. This report does not imply that the material, product, or service is or have ever been under Hongjun or ICTT certification program.
5. The test applicant is responsible for authenticity of sample information which not subject to verification of Hongjun.
6. The applicable decision rules of this test are: IEC Guide 115:2007 Procedure 2 - Accuracy method, do not subject to measurement uncertainty.

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Shanghai Hongjun Science & Technology Co., Ltd.

Family member of ICTT Corp

Add: B-22-2 of Gangtian High Rise Building, 2nd Zhongshan Road, Yuzhong District, Chongqing, China

Tel: 86-23-63525678

Fax: 86-23-63530958

Website: www.icctglobal.org

Report No.: HJ-RD-25XXX

Issue Date: Jun. 15th, 2025

1. Sample Description¹

Samples for the entrusted test in this report were sampled and shipped to test laboratory by applicant on May 29th, 2025, packed well and kept in good conditions. Samples were identified as 1/2 inch Best Fireproof Structure Board A by the applicant. The dimension specification and quantity of samples obtained are shown in the table below:

Sampling Information		
Test Item	Specimen Specification (Length×Width×Thickness, inch)	Specimen Quantity
Direct Screw Withdrawal Test (Screws installed through fiber cement board into wood member, total penetration depth=2 1/4 in.)	6 × 3 × 1/2	2
Direct Screw Withdrawal Test (Screws driven into fiber cement board only, total penetration depth=1 1/2 in.)	6 × 3 × 1/2	2
Screw-Head Pull Through Test (Screws driven into fiber cement board only, total penetration depth=1 1/2 in.)	6 × 3 × 1/2	2
Screw Lateral Resistance Test (Screw driven into fiber cement board only, located 3/8 in. from one end)	6 × 3 × 1/2	2
Screw Lateral Resistance Test (Screws installed into the assembly consisting of fiber cement board and wood member)	6 × 3 × 1/2	2

Notes:

1. Sample information is provided by the applicant, and test item is specified by the applicant.

2. Screw and Wood Member Information²

Screw and Wood Member information is listed in the table below:

Name	Detailed Specifications
Flat Head Phillips Self-Tapping Screw	Shank diameter: 0.216 in. Overall length: 3in. Head diameter: 0.4 in
Wood Member	12in. × 4in. × 4in.

Notes:

2. Screws and Wood Members were provided by the applicant.

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3. Referenced Standards

- ◆ ASTM D1037-12 Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials
- ◆ ASTM D1761-20 Standard Test Methods for Mechanical Fasteners in Wood and Wood-Based Materials

4. Test Description & Environment

Test procedure complied with corresponding test method requirement where the test method is listed in section 3 of this report.

The test started on Jun. 9th, 2025 and completed on Jun. 11th, 2025. During the test, the relative humidity and temperature of test environment are $(65 \pm 10) \%$ and $(20 \pm 5) ^\circ\text{C}$, respectively.

5. Test Result

Test Item	Units	Mean Value
Direct Screw Withdrawal Test (Screws installed through fiber cement board into wood member, total penetration depth= $2\frac{1}{4}$ in.)	lbf	1199
Direct Screw Withdrawal Test (Screws driven into fiber cement board only, total penetration depth= $\frac{1}{2}$ in.)	lbf	339
Screw-Head Pull Through Test (Screws driven into fiber cement board only, total penetration depth= $\frac{1}{2}$ in.)	lbf	564
Screw Lateral Resistance Test (Screw driven into fiber cement board only, located $\frac{3}{8}$ in. from one end)	lbf	382
Screw Lateral Resistance Test (Screws installed into the assembly consisting of fiber cement board and wood member)	lbf	818

Reporter:

Verifier:

Approver:

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Appendix I – Typical Sample Photos



Direct Screw Withdrawal Test
(Screws driven into fiber cement board only)



Screw-Head Pull Through Test
(Screws driven into fiber cement board only)

----- Report End -----

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