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EVALUATION CENTER

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RENDERED TO

Tongda Decorative Material Co., Ltd.
Qidi Economical Development Zone, Jin Zhou City
Hebei Province, China

PRODUCT EVALUATED
Mineral Fiber Acoustic Board
(Model: Ameilite-Pin Hole)

EVALUATION PROPERTY
Flexural Tensile Strength

Report of Mineral Fiber Acoustic Board for compliance with the applicable requirements of the following criteria: Clause 4.6.2 of BS EN 13964:2004+A1:2006 Suspended ceiling – Requirements and test methods.

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1 Table of Contents

1	Table of Contents.....	2
2	Introduction.....	3
3	Test Samples.....	3
3.1.	Sample Selection.....	3
3.2.	Sample and Assembly Description.....	3
4	Testing and Evaluation Methods.....	3
4.1.	Flexural Tensile Strength.....	3
5	Testing and Evaluation Results.....	4
5.1.	Results and Observations.....	4
6	Conclusion.....	5
7	Appendix A: Photograph of the Product.....	6
8	Revision Page.....	7

2 Introduction

Intertek has conducted testing for Tongda Decorative Material Co., Ltd., on Mineral Fiber Acoustic Board (Model: Ameilite-Pin Hole), to evaluate flexural tensile strength. Testing was conducted in accordance with Clause 4.6.2 of BS EN 13964:2004+A1:2006 Suspended ceiling – Requirements and test methods. This evaluation began December 22, 2009 and was completed January 29, 2010.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples were received at the Evaluation Center on December 22, 2009.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Product: Mineral Fiber Acoustic Board
Trade Name (Brand): Ameilite Mineral Fiber Acoustic Board
Model: Ameilite-Pin Hole
Nominal Dimension: 605 mm x 605 mm x 14 mm
Manufacturer: Tongda Decorative Material Co., Ltd.

4 Testing and Evaluation Methods

4.1. FLEXURAL TENSILE STRENGTH

The membrane shall have sufficient strength to support its own mass when installed in the substructure. When any additional load is to be applied, the ceiling designer has to state where and how this load can be applied and how much this load is. In addition to the minimum requirement that the membrane shall not fall out, it shall be of adequate strength to ensure that aesthetic properties (in particular flatness and bow) are maintained. Tests designed to assess the flexural tensile strength shall be performed according to Annex F, on a representative sample of the membrane material, account also being taken of the end use design. The result of the test shall be declared as one of the classes of deflection of Table 1 in combination with one of the classes of exposure of Table 2 and the applied load.

Table 1- Classes of deflection

Class	Maximum deflection in mm
1	L/500 and not greater than 4.0
2	L/300
3	No Limit

L is the span in mm between the suspension components or the suspension points

Class	Conditions
A	Building components exposed to an atmosphere with a level of humidity higher than 90% and accompanied by a risk of condensation
B	Building components exposed to an atmosphere with a level of humidity higher than 90% and accompanied by a risk of condensation
C	Building components exposed to an atmosphere with a level of humidity higher than 90% and accompanied by a risk of condensation
D	More severe than the above

The client stated that class of exposure is C.

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

Two tests of ceiling membrane component were carried out.
 Conditioning: Bring to equilibrium at 30 °C combined with 95% RH.
 Type of loading of the specimen: Without additional loading.

Time		1 day	3 days	7 days	14 days	28 days
Deflection	Sample 1	0.18 mm	0.20 mm	0.25 mm	0.28 mm	0.29 mm
	Sample 2	0.27 mm	0.29 mm	0.35 mm	0.35 mm	0.42 mm

Mineral Fiber Acoustic Board (Model: Ameilite-Pin Hole) with a maximum size of 605 mm x 605 mm x 14 mm fulfils deflection Class 1 when subjected to an environment corresponding to exposure Class C and when not subjected to any external load.

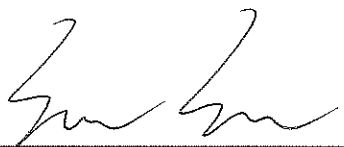
Flexural tensile strength: Class 1 / C / 0 N

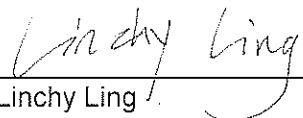
6 Conclusion

The Mineral Fiber Acoustic Board samples (Model: Ameilite-Pin Hole) identified and evaluated in this report have been tested in accordance with Clause 4.6.2 of BS EN 13964:2004+A1:2006 Suspended ceiling – Requirements and test methods. The results were presented in Section 5 of this test report.

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

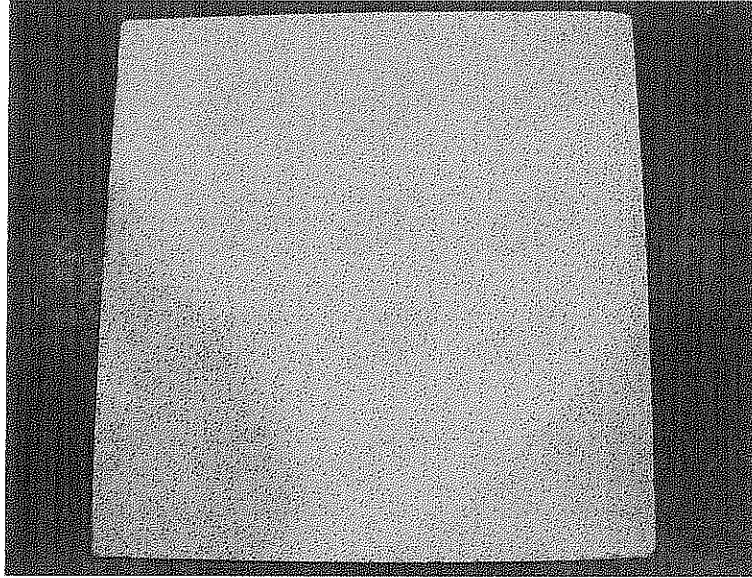
INTERTEK

Reported by: 
Sun Sun
Project Engineer, Building Products

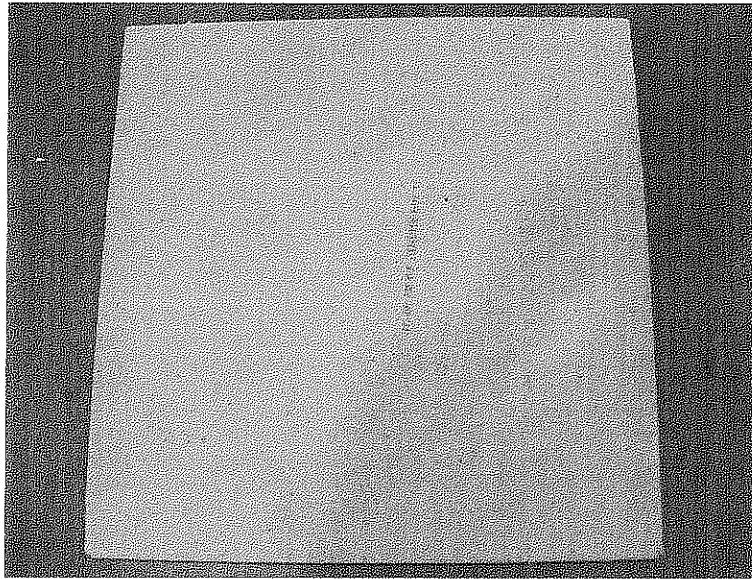
Reviewed by: 
Linchy Ling
Senior Project Engineer, Building Products

Intertek
Proc

7 Appendix A: Photograph of the Product



Top Surface



Bottom Surface

100
100
100

8 Revision Page

Revision No.	Date	Changes	Author	Reviewer
0	February 5, 2010	First issue	Sun Sun	Linchy Ling

END OF DOCUMENT

2010