

Test Report

Report Number: 160316008SHF-BP-2

Applicant Name: FACTORY OF UNITED MINING INDUSTRIES **Report Date:** 2016.4.18**Applicant Address:** AL-RAZI STREET, LIGHT INDUSTRIAL AREA, YANBU AL-SINAYAH, YANBU-KSA**Attn:** MR. SHAKEER HUSSAIN**Sample Description:**

Product: Fiber cement board
Model: 9mm
Sample Quantity: 15 pieces
Sample ID: S160316008SHF.001
Date Received: 2016.2.24
Date Test Conducted: 2016.3.16~2016.4.18

Tests Conducted:

As requested by the applicant, for details refer to attached pages(s).

Conclusion:

For details refer to attached page(s).
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.

Test Items, Method and Results:

Test Items	Test Method	Test Requirements			Test Results	Verdict
		Grade	Wet (Mpa)	Equilibrium (Mpa)		
Flexural strength	ASTM C1185-08(2012)	I	≥4	≥4	Wet: 5.9 Mpa	Grade I
		II	≥7	≥10		
		III	≥13	≥16	Equilibrium: 8.4 Mpa	
		IV	≥18	≥22		

Note:

1. The requirements was for Type A sheets in accordance with ASTM C1186-08(2012).

Test Items, Method and Results:

Test Items	Test Method	Test Requirements	Test Results	Verdict
Density	ASTM C1185-08(2012)	Comply with the value stated by the manufacturer.	Stated: no claimed Tested: 1320 kg/m ³	NA

Note:

1. The requirements was in accordance with ASTM C1186-08(2012).

Test Items, Method and Results:

Test Items	Test Method	Test Requirements	Test Results	Verdict
Length and width	ASTM C1185-08(2012)	Tolerance: $\pm 0.5\%$ & max. variation $\pm 6\text{mm}$	Norminal: Length: 2400 mm Width: 1200 mm Tested: Length: 2400 mm Tolerance: 0 % Max. Variation: 0 mm Width: 1200 mm Tolerance: 0 % Max. Variation: 0 mm	Pass
Thickness		± 1.0 mm	Norminal: 9 mm Tested: 9.8 mm	Pass
Squareness		$\leq 2.6\text{mm/m}$	0.7 mm/m	Pass
Edge Straightness		$\leq 2.6\text{mm/m}$	Length: 0.3 mm/m Width: 0.7 mm/m	Pass

Note:

1. The requirements was in accordance with ASTM C1186-08(2012).

Test Items, Method and Results:

Test Items	Test Method	Test Requirements	Test Results	Verdict
Mositure movement	ASTM C1185-08(2012)	The linear variation with change in moisture content shall be stated in length based on a relative humidity change from 30 to 90%.	Length change: 0.09 % Width change: 0.06 %	NA

Note:

1. The requirements was in accordance with ASTM C1186-08(2012).

Test Items, Method and Results:

Test Items	Test Method	Test Requirements	Test Results	Verdict
Water absorption	ASTM C1185-08(2012)	Submersion time: 48 hour Room temperature Increase in weight	Absorption: 33.1 %	NA

Note:

1. The requirements was in accordance with ASTM C1186-08(2012).

Test Items, Method and Results:

Test Items	Test Method	Test Requirements	Test Results	Verdict
Mositure content	ASTM C1185-08(2012)	Equilibrium condition: 23°C, 50% R.H. Dry condition: 90°C in oven	M: 13.2 %	NA

Note:

1. The requirements was in accordance with ASTM C1186-08(2012).

Test Items, Method and Results:

Test Items	Test Method	Test Requirements	Test Results	Verdict
Water Tightness	ASTM C1185-08(2012)	Not prohibited from showing traces of moisture on the underside of the sheet, but in no instance shall there be any formation of drops of water.	There was no drops of water but showing traces of moisture on the underside of the sheet.	Pass

Note:

1. The requirements was for Type A sheets in accordance with ASTM C1186-08(2012).

Appendix A: Sample received photo



Approved by:

Name: Sun Sun
Title: Approver

Name: Sally Xie
Title: Reviewer

Name: Jodie Zhou
Title: Project Engineer

The End of Report

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