TEST REPORT

No. : SHCCM150702236
Date : Jul. 20, 2015
Page: 1 of 6

YUYAO CHINSUN BUILDING MATERIAL FACTORY
NO.18,JIANMIN NORTH ROAD,BINHAI XINCHENGYUYAO EONOMIC DEVELOPMENT ZONE, YUYAO,CHINA

The test results were transferred from Report No.SHCCM150601780 dated Jul. 20, 2015 issued by SGS.

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	:	Magnesium Sulfate Board
Sample Number	:	SHCCM150601780
Test Required	:	Please see the next page(s)
Test Method	:	Please see the next page(s)
Product specification	:	2440 (2700,3000)mm*1220mm*(3,4.5,6,8,9,10,12,15,18,20,25)mm
Manufacturer	:	Yuyao Chinsun Building Material Factory
Date of Receipt	:	Jun. 11, 2015
Test Period	:	Jun. 11, 2015 to Jun. 30, 2015
Test result(s)	:	For further details, please refer to the following page(s)

******** To be continued********

Signed for SGS-CSTC Standards
Technical Services (Shanghai) Co., Ltd.

Erin Huang
Authorized signatory

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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. Testing Center

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The thickness of the test sample: 8mm

Test results:

1. Flexural strength (Equilibrium conditioning)

Test item	Test method	Test result
Flexural strength (MPa)	ASTM C1185-08 (2012)	Ave.: 25.9 Min.: 23.6
Remark	Specimen dimensions: 305mm×152mm×8mm, 5pcs in each direction. Test span: 254mm	

2. Density

Test item	Test method	Test result
Density (kg/m^3)	ASTM C1185-08 (2012)	0.89×10^3
Remark	Specimen dimensions: 305mm×152mm×8mm, 1pc	

3. Moisture movement

Test item	Test method	Test result
Linear change (%)	ASTM C1185-08 (2012)	0.078
Remark	Specimen dimensions: 305mm×76mm×8mm, 2pcs.	

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4. Leachable Chloride ions

Test Part Description: White solid piece

Test Method: With reference to ASTM C 871-08a.Analysis was performed by IC.

Test Item(s)	Unit	MDL	Result
Chloride (Cl^-)	μg/g	10	247.67

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

5. Asbestos

Test Part Description: White solid piece

Test Method: With reference to NIOSH 9000:1994 and ISO 22262-1:2012. Analysis was performed by X-ray diffractometer (XRD) and Polarized light microscope (PLM).

Test Item(s)	CAS NO.	Unit	MDL	Result
Actinolite	77536-66-4	%	0.1	Negative
Amosite	12172-73-5	%	0.1	Negative
Anthophyllite	77536-67-5	%	0.1	Negative
Chrysotile	12001-29-5 /132207-32-0	%	0.1	Negative
Crocidolite	12001-28-4	%	0.1	Negative
Tremolite	77536-68-6	%	0.1	Negative

******** To be continued********

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Remarks:
(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated
(5) Negative = the absence of asbestos, Positive = the presence of asbestos.

6. Formaldehyde Emission
Test Part Description: White solid piece

Test Method: With reference to ASTM D 6007 - 02 (Reapproved 2008), analysis was performed by UV-Vis.

Test Item(s)	Unit	MDL	Result
Formaldehyde Emission	ppm	0.01	ND

Notes:
(1) The scope of CARB ATCM is applicable for composite wood, but not for other wood products.
(2) Formaldehyde emission test is one of the conformity criteria under CARB ATCM. Full conformity of a composite wood product happens provided that this composite wood fulfill all the requirement as stated in CARB ATCM title 17 section 93120 to 93120.12.
(3) ppm = parts of formaldehyde per million parts air
(4) The test result is only for reference

Remarks:
(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

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7. American Society for Testing and Materials –ASTM F 963-11 – soluble heavy metal in Substrate Materials/paint and similar surface-coating materials
Test Part Description: White solid piece

Test Method: Soluble Heavy Metal contents (Clause 4.3.5) - Sample was extracted by dilute hydrochloric acid in accordance with ASTM F 963-11(Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	Result
Soluble Lead (Pb)	90	mg/kg	5	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND
Soluble Selenium (Se)	500	mg/kg	10	ND

Remarks:
(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated
(5) Results shown are of the adjusted analytical results

Statement: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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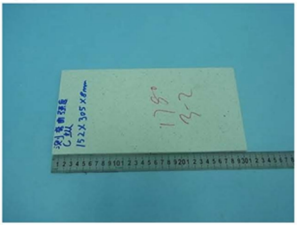
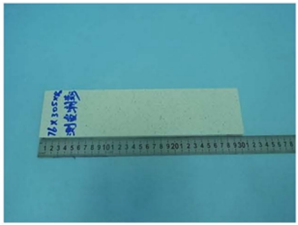
Sample photos:



Flexural strength and Density



Moisture movement

Test item 4-7

******** End of report ********

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