

# TEST REPORT

No. : QDIN1707004817PS

Date : Aug 04, 2017

Page: 1 of 11

CUSTOMER NAME: SHANDONG GOLDEN SUNSHINE BUILDING MATERIALS CO.,LTD  
ADDRESS: NO.1 YIHE ROAD, LINYI ECONOMIC DEVELOPMENT ZONE,  
COMPREHENSIVE FREE ZONE SHANDONG CHINA

Sample Name : Aluminum Composite panel

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

SGS Ref. No. : GZIN1707035753MR  
Date of Receipt : Jul 26, 2017  
Testing Start Date : Jul 26, 2017  
Testing End Date : Aug 04, 2017  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. Qingdao Branch

Benjamin Ren  
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Chemical Resistance	ASTM D1308-02(2013) Section 7.3	No visible change	/
2	Pencil Hardness	ASTM D3363-05(2011) <sup>ez</sup>	2H	/
3	Dry Adhesion	With reference to AAMA 2605-13 Section 8.4.1.1 & 8.4.1.2 and client's requirement	No removal of film or loss of adhesion	/
4	Boiling Water Adhesion	With reference to AAMA 2605-13 Section 8.4.1.4 & 8.4.1.2 and client's requirement	No removal of film, blistering or loss of adhesion	/
5	Muriatic Acid Resistance	With reference to AAMA 2605-13 Section 8.7.1 and client's requirement	No blistering or other visual change	/
6	Falling Sand Abrasion	ASTM D968-16 Method A	63.5L/mil	/
7	Flexibility of Coating	ASTM D4145-2010 Section 6.1	1T	/
8	Impact Resistance	With reference to AAMA 2605-13 Section 8.5 and client's requirement	No visual peeling	/

- Note: 1. Pass : Meet the requirements;  
 Fail : Does not meet the requirements;  
 / : Not Apply to the judgment.
2. Test 6-8 was carried out by a SGS other internal laboratory.



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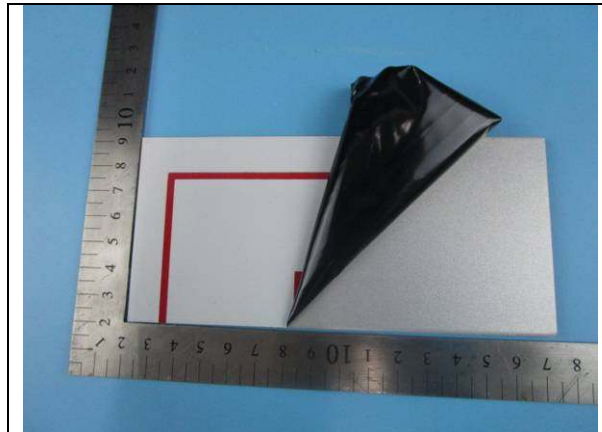
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Original Sample Photo:



Sample 1



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1. Test Item: Chemical Resistance

Sample Description: See photo

Test Method: ASTM D1308-02(2013) Section 7.3

Test Condition:

Medium: 3% acetic acid

Method of contact: Spot method

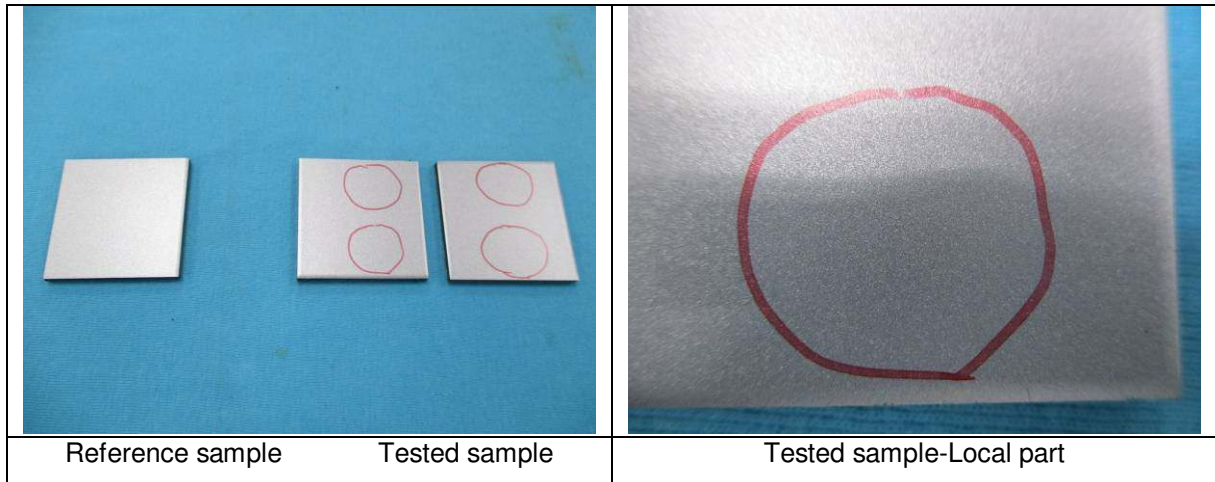
Temperature: Room temperature

Time of contact: 1h

Test Result:

Sample	Appearance
1	No visible change

Test Photo:



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2. Test Item: Pencil Hardness

Sample Description: See photo

Test Method: ASTM D3363-05(2011)<sup>e2</sup>

Test Condition:

Test Pencil: Mitsubishi® Uni

Test Result:

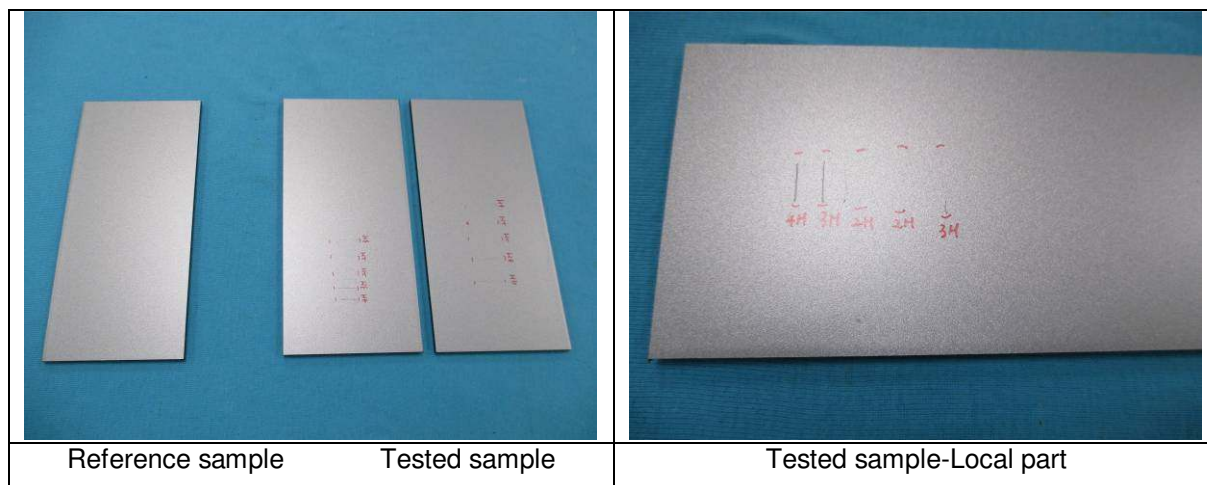
Sample	Pencil hardness
1	2H

Note: According to ASTM D3363-05(2011)<sup>e2</sup>, 6H is the hardest and the grade 6B is the softest.

6B—5B—4B—3B—2B—B—HB—F—H—2H—3H—4H—5H—6H

Softer←-----→Harder

Test Photo:



Reference sample

Tested sample

Tested sample-Local part



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3. Test Item: Dry Adhesion

Sample Description: See photo

Test Method: With reference to AAMA 2605-13 Section 8.4.1.1 & 8.4.1.2 and client's requirement

Test Condition:

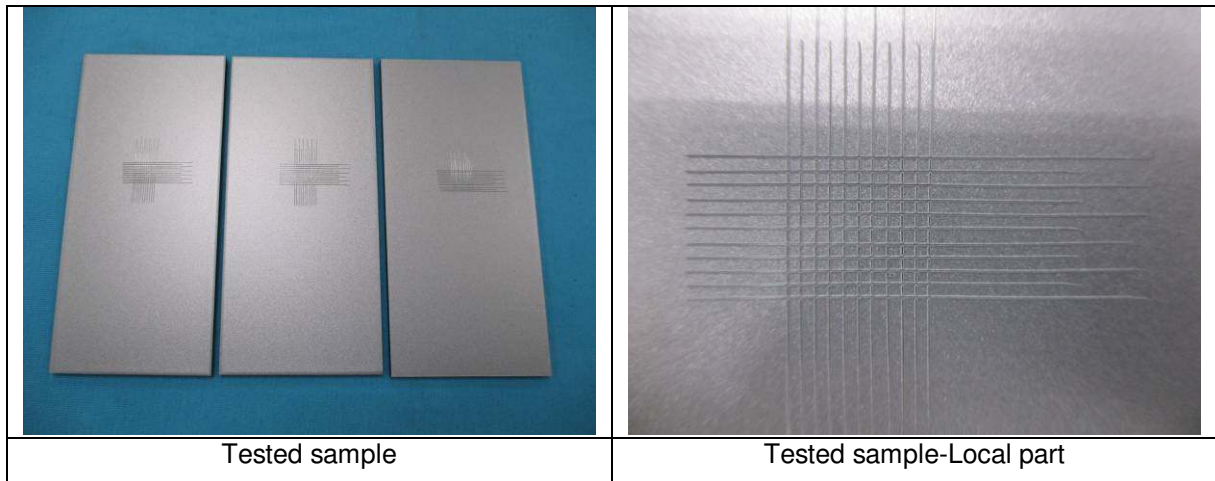
Cut space: 1mm

Tape: Elcometer 99

Test Result:

Sample	Test result
1	No removal of film or loss of adhesion

Test Photo:



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4. Test Item: Boiling Adhesion

Sample Description: See photo

Test Method: With reference to AAMA 2605-13 Section 8.4.1.4 & 8.4.1.2 and client's requirement

Test Condition:

Immersed in boiling water for 20min

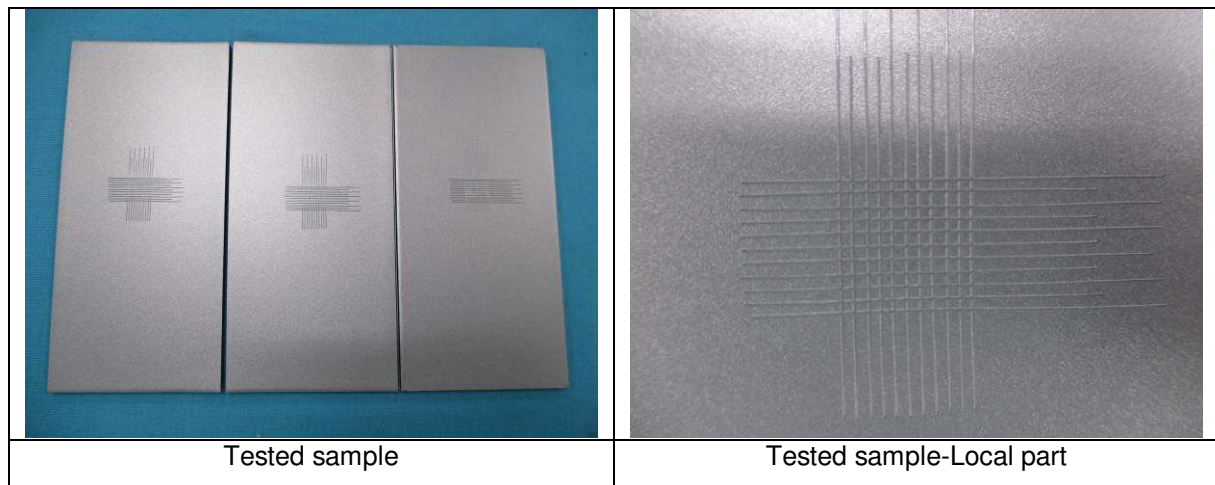
Cut space: 1mm

Tape: Elcometer 99

Test Result:

Sample	Test result
1	No removal of film, blistering or loss of adhesion

Test Photo:



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5. Test Item: Muriatic Acid Resistance

Sample Description: See photo

Test Method: With reference to AAMA 2605-13 Section 8.7.1 and client's requirement

Test Condition:

Medium: 10%(V/V) HCl

Method of contact: Spot method

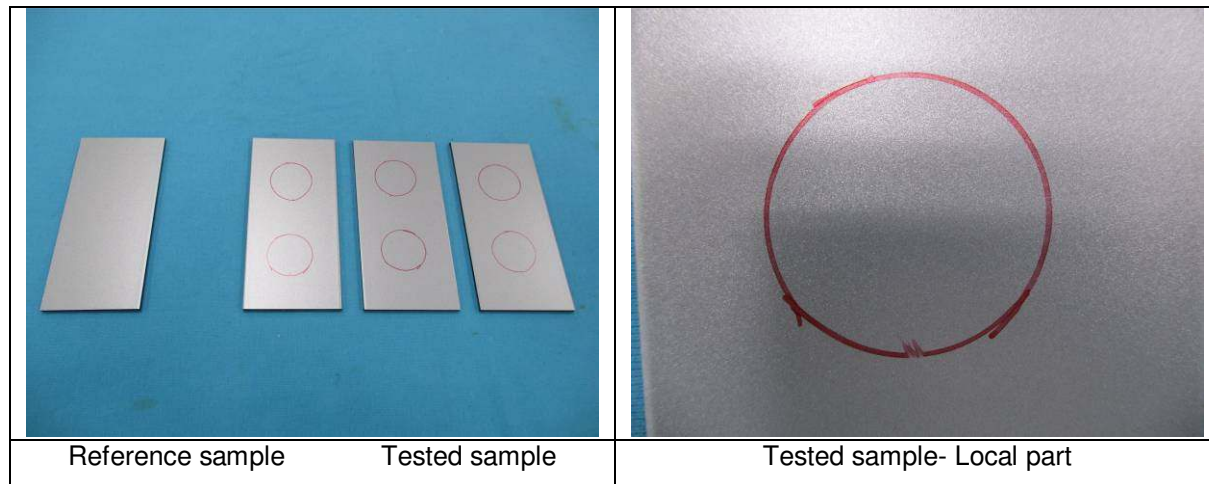
Temperature: Room temperature

Time of contact: 15min

Test Result:

Sample	Test Result
1	No blistering or other visual change

Test Photo:



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6. Test Item: Falling Sand Abrasion

Sample Description: See photo

Test Method: ASTM D968-16 Method A

Test conditions:

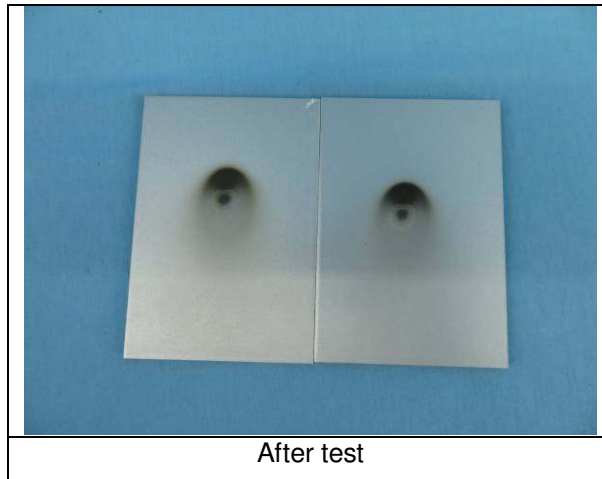
Speed: 21~23.35s/2L

Sand: Natural silica sand

Test Result:

Sample	Abrasion resistance
1	63.5L/mil

Test Photo:



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7. Test Item: Flexibility of Coating

Sample Description: See photo

Test Method: ASTM D4145-10 Section 6.1

Test Condition:

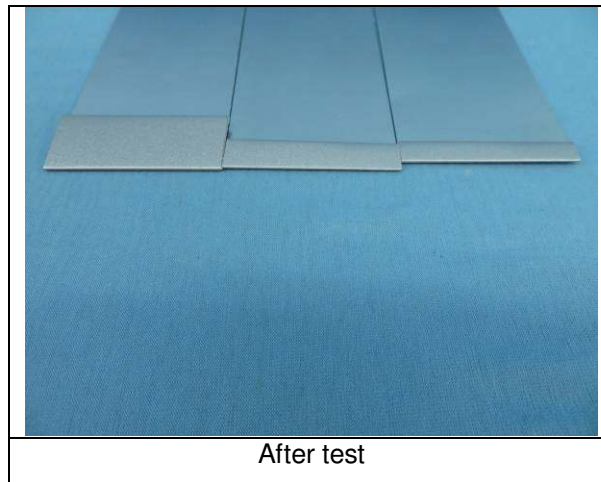
T-Bend

Tape: 3M 600(Scotch®)

Test Result:

Sample	Test results
1	1T

Test Photo:



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8. Test Item: Impact Resistance

Sample Description: See photo

Test Method: With reference to AAMA 2605-13 Section 8.5 and client's requirement

Test Condition:

Diameter of the punch: 16mm

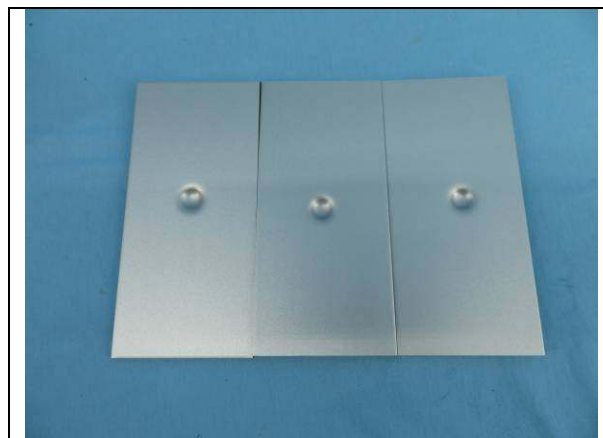
Impact type: Intrusion

Tape: Elcometer 99

Test Result:

Sample	Test result
1	No visual peeling

Test Photo:



After test

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



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