

TEST REPORT

REVISED

Report No. : MAN:HL:8480004946-1

DATE : 13th March, 2018



VIVA COMPOSITE PANEL PRIVATE LIMITED

UNIT NO-7, NEW TEJPAL INDUSTRIAL ESTATE ANDHERI- KURLA ROAD, SHAKINAKA
ANDHERI (E),MUMBAI-400072
INDIA

CONTACT PERSON : MR. ASHISH SHUKLA

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION	ALUMINIUM COMPOSITE PANEL
COLOUR	BRIGHT SILVER
STYLE NO.	VA-101-4MM (0.50)
SAMPLE RECD ON	05/05/2016
TEST PERFORMING DATE	27/09/2017 TO 27/10/2017

SUMMARY OF TEST RESULTS:

TEST REQUESTED	CONCLUSION
REFER TO THE NEXT PAGES (S)	SEE RESULTS

Per Pro SGS India Pvt. Ltd.

Sandip Bhushan (Asst. Manager)

Authorized Signatory

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

Revision Remark : Report has been revised to recheck thickness test

This Report cancels and supersedes the Report No 8480004946 Dated 24/10/2017 issued by SGS India

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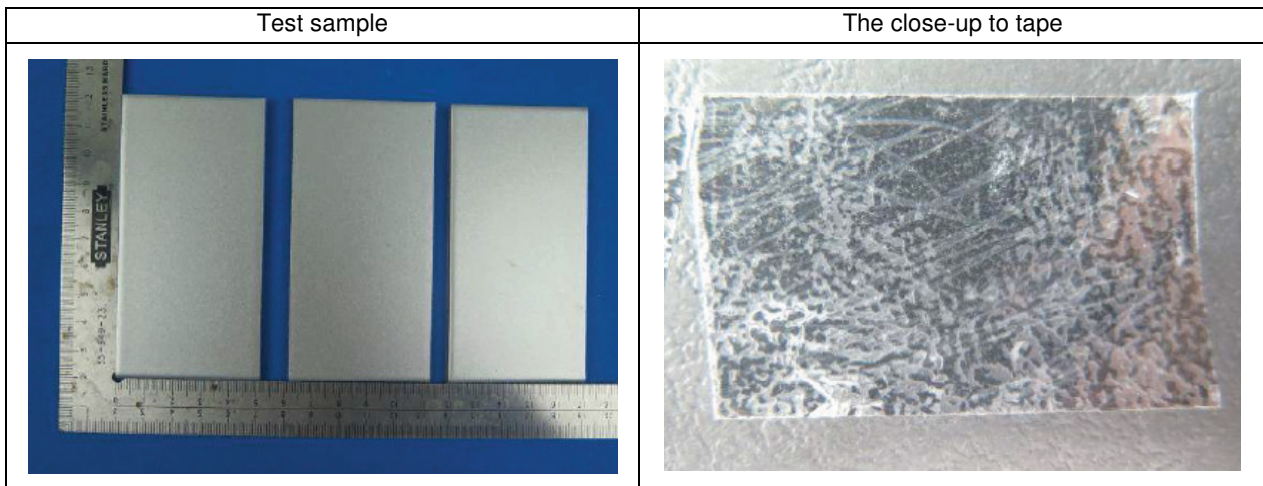


Test Results :

- Test Item: Assessment of Coating Chalking Degree by Tape Method
 Sample Description: Metal panel
 Test method: ASTM D4214-07 Method C
 Test condition: Scotch tape
 Test result:

Sample	Rating (See note)
1	10

Note: According to ASTM D4214-07 Method C, 10 is the best and classification 0 is the worst.



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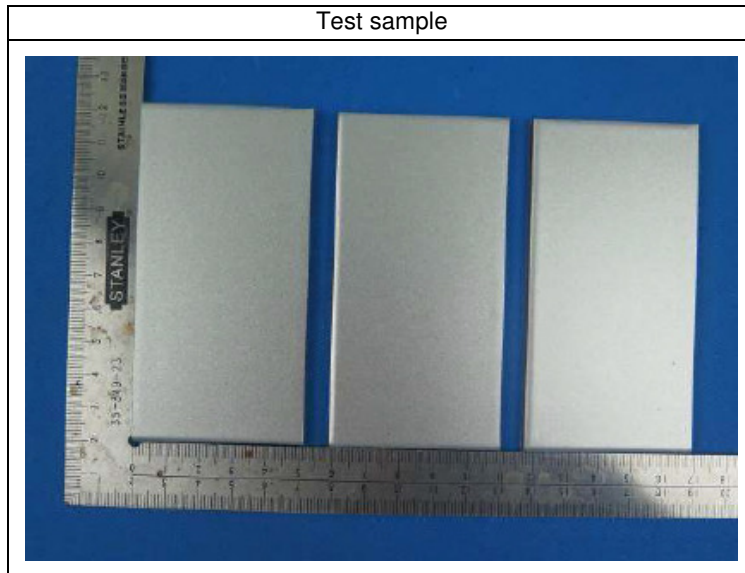
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- 2. Test Item: Coating thickness
- Sample Description: Metal panel
- Test method: ASTM D7091-13
- Test condition: Eddy-Current gauge
- Test result:

Sample	Coating thickness (µm)
1	24.5

Note: According to ASTM D4214-07 Method C, 10 is the best and classification 0 is the worst.



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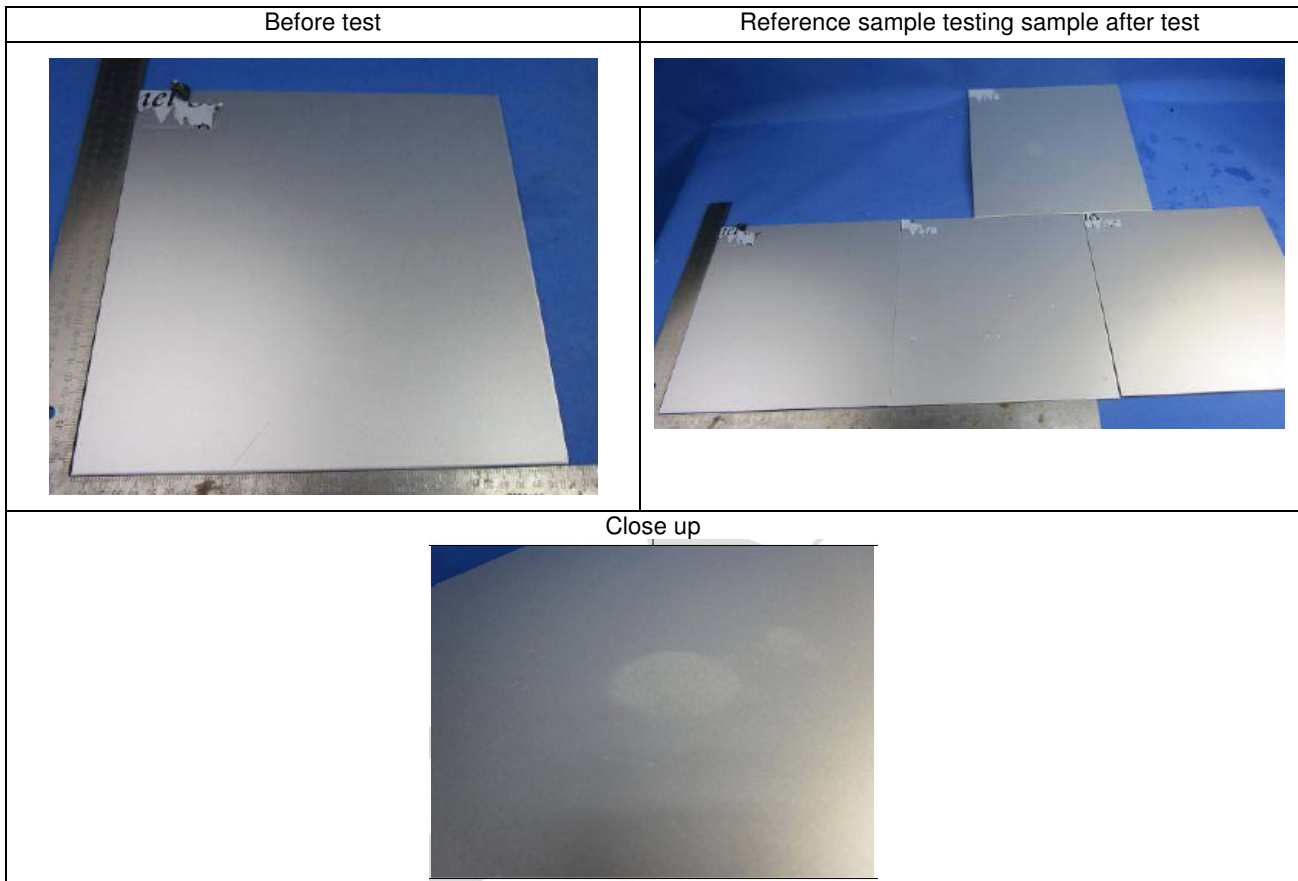
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3. Test Item: Effect of Household chemicals
 Sample Description: Metal panel
 Test method: ASTM D1308-2002 (2013)
 Test condition: Place a small portion of the reagent on a horizontal panel or surface, with the 5% HCl for 23°C, 24h

Test result:

Test Item	Test result
Effect of household chemicals	Visible spots



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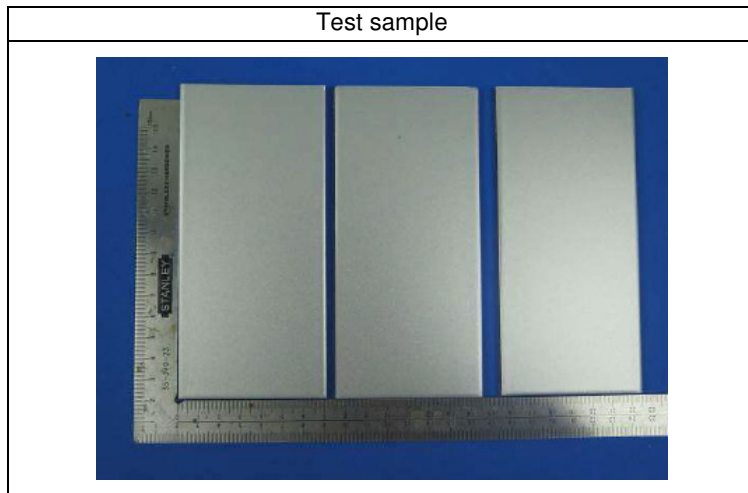
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4. Test Item: Gloss
 Sample Description: Metal panel
 Test method: ASTM 523-14
 Test condition: Geometry: 20°, 60°, 85°
 Test result:

Sample	Gloss		
	20°	60°	85°
1	6.7	26.5	43.0

Note: According to ASTM D4214-07 Method C, 10 is the best and classification 0 is the worst.



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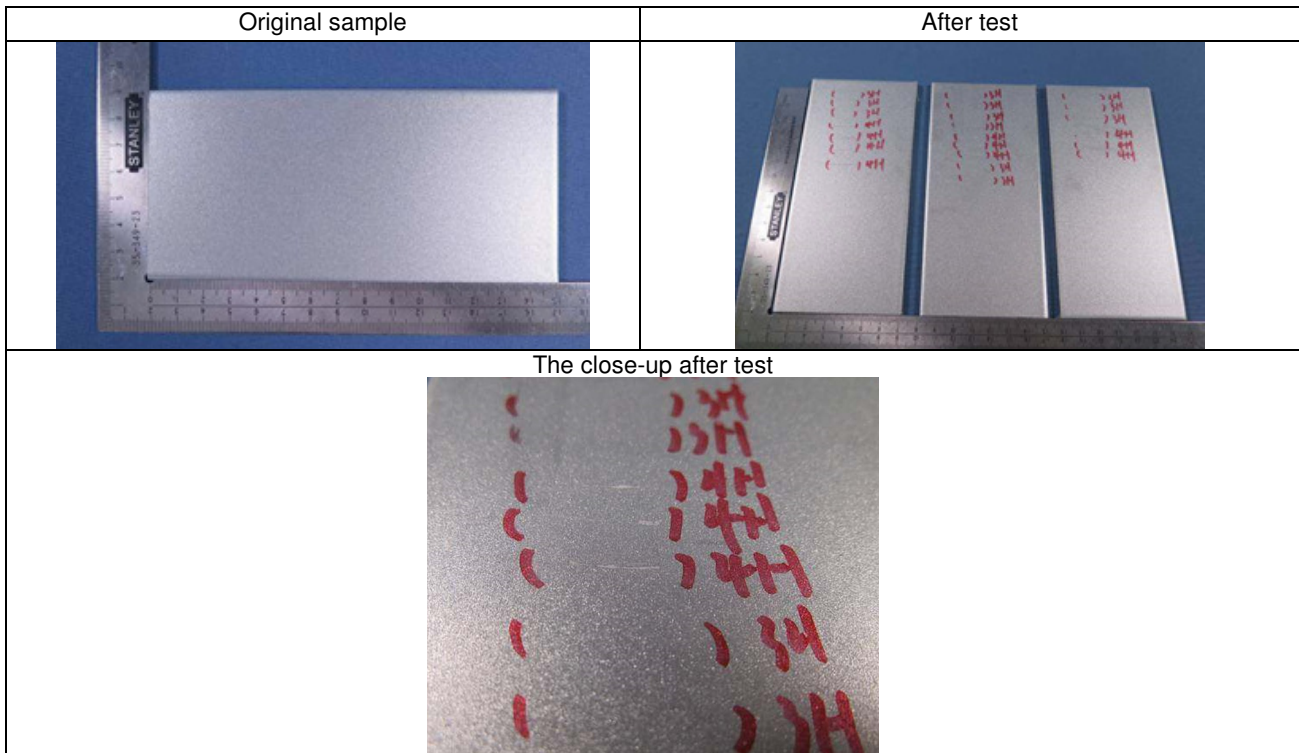
5. Test Item: Pencil hardness
 Sample Description: Metal panel
 Test method: ASTM D3363-05 (2011)
 Test condition: Test Pencil: Mitsubishi® Uni

Test result:

Sample	Pencil hardness (See note)	
	Scratch hardness	Gouge hardness
1	3H	3H

Note: According to D3363-05 (2011), 9H is the hardest and the grade 6B is the softest.
 6B-5B-4B-3B-2B-B-HB-F-H-2H-3H-4H-5H-6H-7H-9H

Softer←.....→Harder



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6. Test Item: Thickness
 Sample Description: Metal panel
 Test method: Provided by client
 Test condition: Lab environmental condition: 23±2°C, 50±5% RH
 Test result:

Sample	Test result	
1	The total thickness	4.05mm
	Thickness of the upper	0.51mm
	The lower thickness	0.51mm

7. Test Item: Weight
 Sample Description: Metal panel
 Test method: Provided by client
 Test condition: Specimen: 100.07mm X 99.71mm, Lab environmental condition: 23±2°C, 50±5% RH

Test result:

Test Item	Test result
Weight	5309g/m ²

8. Test Item: Tensile test
 Test method: ASTM E8/E8M-16a

Test result:

Test item	Specimen type	Tensile strength	Yield strength (0.2% off set) (MPa)	Elongation after fracture G= 50mm (%)
Result	Rectangular specimen	50	36	12.5

- Note.** 1. Testing has been performed as per client's request .
 2. Testing has been subcontracted to SGS overseas lab.

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Sample Photo:



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