

# FUGRO TECHNICAL SERVICES LIMITED

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# MaterialLab



Client Ref. : --  
Report No. : 151425ST150490B

Page 1 of 2

## REPORT ON DETERMINATION OF BOND STRENGTH OF MIRROR

### Information Supplied by Client

Client : DSA Co., Ltd.  
Project : Testing of Mirror  
Sample Description : Mirror  
Nominal thickness : 6 mm

### Laboratory Information

Lab. Sample I.D. : ST150490/1-6  
Date Received : 03 June 2015  
Date Test Started : 09 July 2015  
Date Test Completed : 10 July 2015  
Test Method : BS EN ISO 4624 : 2003

### Test Results

Lab. Sample I.D.	Maximum Bond Strength (MPa)	Observation
ST150490/1	3.00	95% A, 5% A/B
ST150490/2	2.75	60% Y/Z, 40% A/B
ST150490/3	3.00	90% A, 10% Y/Z
ST150490/4	3.50	70% Y/Z, 30% A/B
ST150490/5	3.50	90% Y/Z, 10% A/B
ST150490/6	3.25	90% A, 5% Y/Z, 5% A/B
Average	3.17	

Abbreviation for failure modes :

A : Cohesive failure of the mirror panel.  
A/B : Adhesion failure between mirror panel and the coating  
Y/Z : Cohesive failure of the epoxy



Remarks :  
1.) The test results relate only to the samples tested.  
2.) The test configuration and samples after test are shown in the photographs on page 2 of this report.  
3.) No failure is detected while the Pull-off Test Bonding Strength (MPa) did carry out from 0.01 to 2.75. The average is 3.17 MPa.  
4.) This report is to supersede our previous test report no. 151425ST150490A.

Checked by :  Date : 25/07/2015 Certified by :  Date : 27/07/2015  
Chan Chun Wai Ivan  
Manager (Product Testing Laboratory)

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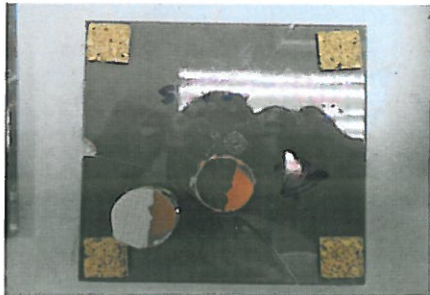
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Test Configuration  
Sample I.D. : ST150490/1-6



After Test Sample  
Sample I.D. : ST150490/1



After Test Sample  
Sample I.D. : ST150490/2



After Test Sample  
Sample I.D. : ST150490/3



After Test Sample  
Sample I.D. : ST150490/4



After Test Sample  
Sample I.D. : ST150490/5



After Test Sample  
Sample I.D. : ST150490/6



**\*\* End of Report \*\***