



## Mechanical Test Report

ARL Report No.

MRVP-414-001-M

**Client:** Revolution Void Panels  
**Client Address:** 51 Oakdale Rd (PO Box 2185), Gateshead NSW 2290  
**Project Job:** Material verification testing of metallic sheets as supplied  
**Material:** Sample 1: AS 1397:2021 G300, AZ200, BMT: 1.08mm, Batch: TBA  
**Order No.:** NATA Void Panel Testing  
**Job Requested By:** Suzana Georgeff  
**Work Voucher No.:** D2306  
**Tested By:** S. Sameem/ K. Hadley/ A. Hao  
**Test Date/s:** 11-May-2023 to 15-May-2023

## Chemical Analysis Test Result

**Method Code:** SSPL QP018-OES  
**Acceptance Code:** AS 1397-2021 Table 2.1 – Grade 300  
**Items Tested:** See Below

Item ID	Element % (Max allowed)											Results
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Ti	
<b>Requirements</b>	0.20	-	1.20	0.04	0.03	-	-	-	-	-	-	G300
<b>D2306 - S1</b>	0.04	0.01	0.17	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	Complied

\*Note: Testing carried out at another facility. Reference 23/1823. NATA accredited lab 492.

**Test Result:** The chemical analysis results of all tested samples complied with the specified requirements of AS/NZS AS 1397 Grade 300.

## Tensile Test Results

**Method Code:** AS 1391 - 2020  
**Acceptance Code:** AS 1397 - 2021 (Table 2.3) – Grade G300  
**Specimen Type:** Reduced Section Specimen (Rectangular)  
**Equipment Serial No.:** UTM Serial No. 075  
**Test Temperature:** Ambient


Sample ID	Cross Sectional Area (mm <sup>2</sup> )	Max Force (kN)	Yield Strength R <sub>p0.2</sub> (MPa)	Tensile Strength (MPa)	Elongation on 50mm Gauge Length (%)	Test Results
<b>Min. Requirements</b>	-	-	300 MPa	340 MPa	15%	-
<b>D2306 - S1</b>	18.48	8.12	310	440	29	Complied

**Test Results:** The tensile test results complied with the specified requirements of AS 1397-2021 G300 grade.



NATA Accredited Laboratory No. 12611

Accredited for compliance with ISO/IEC 17025

**Reviewed By:** Wayne Robinson  
**Signed By:** Sam Sameem  
**Signature:**   
**Dated:** 15-May-2023



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### Coating Measurement Report

**Method Code:** AS 2331.2.1 – 2001 (R2017)

**Acceptance Code:** AS 1397 - 2021 (Table 3.5) – Coating Class Designation AZ200 Triple Spot (**200 g/m<sup>2</sup> Min.**)

**Equipment Serial No.:** ARL Vernier 002, Micrometer 001, Weighing Balance 001

Sample ID	Thickness (mm)		Average BMT	Total Surface Area (mm <sup>2</sup> )	Mass (g)		Coating Mass for Double Surface (g/m <sup>2</sup> )	Average of 3 spots
	Initial	Final (BMT*)			Initial	Final		
1-1	1.19	1.08	1.08mm	2942	25.51	23.85	564	566 g/m <sup>2</sup>
1-2	1.19	1.08		2833	24.79	23.20	561	
1-3	1.19	1.08		2777	24.47	22.88	573	

\*Notes: BMT: Base Metal Thickness

**Test Results:** The coating thickness test results complied with the minimum requirements of AS 1397 coating class AZ200 triple spot.

### Coating Adhesion Bend Test Results

**Method Code:** AS 1397 – 2021 Clause 3.3

**Acceptance Code:** AS 1397 – 2021 Table 3.7 – G300 AZ200

**Diameter of Former:** 1mm (t)

**Equipment Used:** ARL Vernier 002, UTM Serial No. 075

**Bend Angles:** 180°

**Orientation:** Longitudinal

Specimen ID	Dimensions of test specimens (mm)	Visual Examination		Test Results
		Pre-Test	Post-Test	
D2306 - S1	50x thickness	NRD	NRD	Pass

\*Note: NRD = No Recordable Defects

**Test Results:** The bend test results complied with the specified requirements



Figure 1. Test sample as received. The red box shows location of the tested section.

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End of Report  
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