

Weld qualification test report

Report number LP26-1550-03 WPWQ

Customer ASGARD Engineering

Address 51 Miguel Road Bibra Lake WA Australia 6163

Requested by QAQC

Purchase Order 59044.914 - WOR-PR-0159

Test activity dates 18/06/2026

Description Welding procedure qualification testing

Identification LP26-1550-01

WPQR No. AGE-WPQR-BW011

Welders name Can Huang

Welders ID 706

Material shape Plate to plate

Joint type Butt weld - single V

Thickness T1: 6 mm T2: 6 mm

Weld process FCAW, GMAW (Position 1G)

Material Grade AS/NZS 3678 Grade 350L0

Material Heat No. V66139FD38465502

Test results Refer to the following summary and details on the following pages.



REVOKED

Macro test	Complied
Bend test	Complied



Accreditation No. 15840

Accredited for compliance with
ISO/IEC 17025-Testing

Refer to the following pages for details of test conducted and Signatories.

Issue date : 18/06/2026

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Macro test

Accredited laboratory	LMATS Perth Laboratory
Job address	LMATS Perth Laboratory
Test specification	AS/NZS 1554.1:2014 Category SP - Category SP (Qualification of Welding Procedure)
Test method	AS/NZS 2205.5.1:2024 (ISO 17639:2022)-Macro test - weld
Specimen location	Location as per specification Standard
Preparation	Cold cutting followed by stage grinding to P#1200 coated abrasives
Etchant & process	10% Nital swabbing
Weld geometry	Scale indicates 1mm graduation Refer to the photographs on following pages.
Approved tester	Aaron Jamieson

Specimen 1 :

Test date	18/06/2026
Magnification	x 5 approximately (refer to the photograph)
Width	12.2
Discontinuities	Nil
Comments	The etched cross-section showed complete penetration and fusion with no evidence of cracks, gross porosity or inclusions.
Test results	The test results comply with the specification requirements.

ched cross-section showed complete penetration and no voids or inclusions.

Test results comply with the specification requirements.



Accreditation No. 15840

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ISO / IEC 17025 - Testing**

Signatory
Alex Khomoutov

[illegible]

Report issued on 18/06/2026

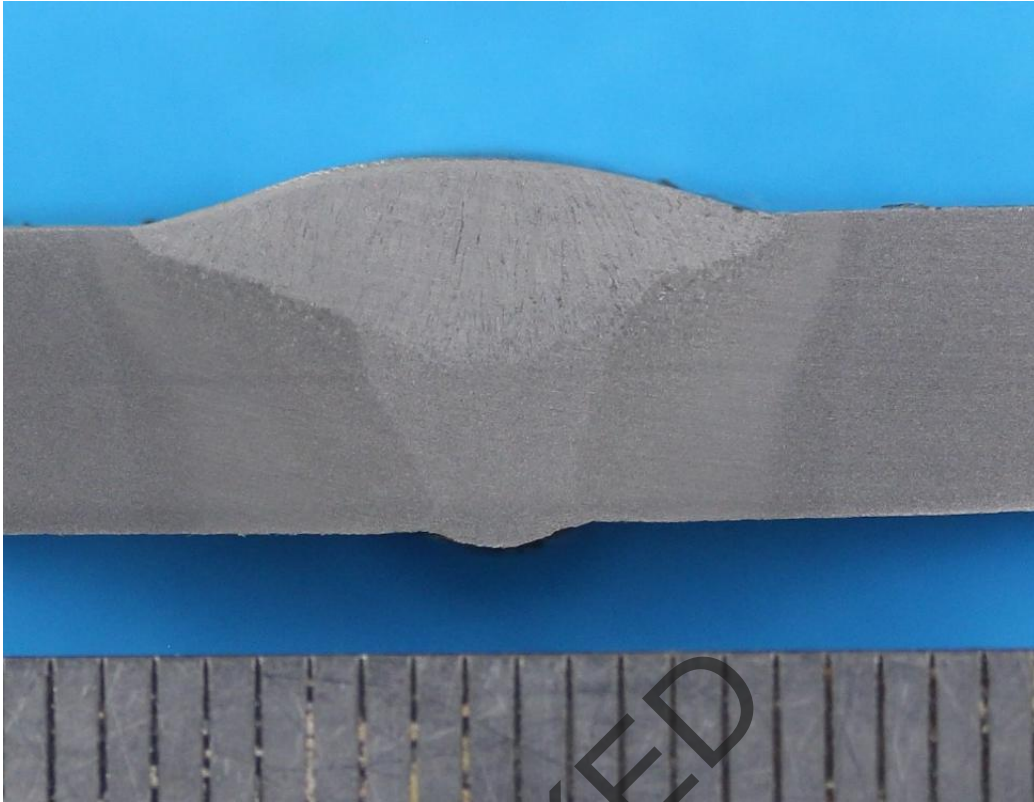


Image 1 of 1 - Macro Specimen 1 (1 Graduation = 1mm) M1

REVOKED

Bend test

Accredited laboratory	LMATS Perth Laboratory
Job address	LMATS Perth Laboratory
Test date	18/06/2026
Test specification	AS/NZS 1554.1:2014 Category SP - Category SP (Qualification of Welding Procedure)
Acceptance criteria	No crack or defect in the weld or HAZ shall be >3 mm in any direction on the outer surface of the specimen.
Test method	AS/NZS 2205.3.1:2024 (ISO 5173:2023)-Bend test
Test type symbol	TRBB (Transverse Root Bend), TFBB (Transverse Face Bend)
Specimen location	Location as per specification Standard
Test temperature	Ambient
Bend method	180° with a former and roller support

Specimen ID	Dimensions (mm)	Former (mm)	Roller distance (mm)	Type & dimensions of imperfections observed	Result
TFBB 1	6.00 X 30.00	18.00	33.00	No cracks or tears were observed.	C
TRBB 2	6.00 X 30.00	18.00	33.00	No cracks or tears were observed.	C

Test result The test results complied with the specification requirements.

Comments Nil

Approved tester Aaron Jamieson

REVOKED



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Signatory
Alex Khomoutov

Report issued on 18/06/2026

Normative general notes

1. Test and inspection items may be discarded after 6 weeks, unless alternative arrangements are made with LMATS.
2. Samples, identification of samples and all job specific details were supplied by the client. The test results relate only to the items tested or sampled.
3. Any stated nominal pipe sizes and nominal thickness of the material were provided by the client.
4. Where applicable, the Measurement Uncertainty (MU) applies to the test results as per LMATS procedure. MU can be obtained by contacting one of LMATS ISO 17025 accredited laboratories.
5. Acceptance criteria is applied from the test specification. If the test specification does not include acceptance criteria, then the test or inspection results should be referred to a competent authority for further action.
6. Refer to the attached revision notes if this report has been revised. This report shall not be reproduced except in full without approval of the issuing laboratory to ensure that parts of a report are not taken out of context. The client or their representatives shall not edit this report.
7. LMATS or its professional indemnity insurance provider do not indemnify the contents within this report or the conformity of a tested product unless the invoice for the reported work is paid in full within the agreed credit terms. Reports will be revoked if the invoice for the completed work is not paid in full.

REVOKED

Abbreviations used in this report

A - No discontinuities detected	KC - Crater crack	RP - Report findings
BT - Burn (melt) Through	KL - Longitudinal crack	SED - Excessive Dressing (underflushing)
C - Comply	KT - Transverse crack	SGI - Incompletely filled Groove
CP - Crater Pipe	LI - lack of Inter-run fusion	SGS - Shrinkage Groove
DNC - Does Not Comply	LP - Incomplete root Penetration	SMG - Grinding Mark
EC - Elongated Cavity (hollow bead)	LR - lack of Root fusion (missed edge)	SMH - Hammer Mark
F - Failed	LS - lack of Side fusion	SMT - Tool Mark (chipping mark)
GP - Gas Pore	NRRD - No Recordable Reflections Detected	SRC - Root Concavity (Suck back)
HiLo - Linear misalignment	NUSID - No unacceptable Surface Indications Detected	SSP - Spatter
IC - Copper Inclusion	P - Passed	SUC(e) - Undercut External
IL - Linear Inclusion (slag line)	p.d. - Processing / film Defects	SUC(i) - Undercut Internal
IN - Inclusion	PG - Localized Porosity	SXP - Excessive Penetration
IO - Oxide Inclusion (wagon tracks)	PL - Linear Porosity	WH - Worm Hole
IT - Tungsten Inclusion	PU - Uniform Porosity	