

## Transverse Tensile Test Summary Log

This Summary Log represents the key results from transverse weld tests conducted since 2024. Testing is performed in accordance with **AS 2205.2.1:2003** (Tensile Test) and **AS 2205.3.1** (180° Guided Bend Test) to verify both the tensile strength and ductility of the welded joint. All testing is carried out by Materials and Testing Laboratories (MTL).

Year	MTL Report No	Tube Size & Materials	Weld Tensile Strength (MPa)	Transverse Face Bend	Transverse Root Bend
2024	<a href="#">J66111/1</a>	8" 3mm 304L	688	N/A	N/A
2024	<a href="#">J66111/1</a>	12" 4mm 304L	670	N/A	N/A
2025	<a href="#">J68986.1</a>	12" 3mm 316L	592	N/A	N/A
2026	<a href="#">J69912.1</a>	10" ID 3mm 304L	547	Complies	Complies

*\*Full copies of the reports are attached in the Appendix.*

## Appendix



### 2024 Transverse Tensile Test Report



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

## TEST REPORT

MTL Report No.	J66111/1	Order No.	611047	Date Tested	18/06/2024
Client Name	Spiraweld Stainless LTD			Attention	Campbell Batts
Client Email	campbell@spiraweld.co.nz				
Test Method	AS 2205.2.1: 2003	Acceptance Criteria	Report findings		
<b>Sample Description</b>					
Joint Type	Pipe Butt-Weld				
Material	Not Supplied	Material Thickness (mm)	1) 3 2) 4		
Marking	1) 8" 3mm H# AWE031-ADB 2) 12" 4mm H# E11589	Procedure	Not Supplied		
Process	Not Supplied	Welder I.D.	Not Supplied		
Equipment Used	Shimadzu Universal Grade 1 Testing Machine, Model No. UH 500 KNI, Serial No. 121054600016				
Type of sample	Reduced Section	Special Preparations	Weld Reinforcement Removed		
<b>Transverse Weld Tensile Test</b>					
Test No.	1		2		
Diameter / Dimensions (mm)	2.61 x 30.24		3.58 x 30.41		
Cross Sectional Area (mm <sup>2</sup> )	78.9		108.9		
Tensile Load (kN)	54.3		72.9		
Tensile Strength (MPa)	688		670		
Fracture Location	Weld		Weld		

This report applies only to the sample/s as tested.					
Testing Technician	Michael Wu	Date of Issue	18/06/2024		
Checked By	Rex Ong	Approved by	Michael Wu – Key Technical personnel		
Qualification	BSci, PgDip	Qualification	BEng Tech (Mechanical)		
Signature		Signature			

2025 Transverse Tensile Test Report





MTL Report No: J68986.1



All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

Date Tested: 20 November, 2025

ADMINISTRATIVE AND CLIENT DETAILS			
Client Name:	Spiraweld Stainless Ltd	Attention:	Campbell Batts
Purchase Order No:	J833013	Contact Details:	<a href="mailto:campbell@spiraweld.co.nz">campbell@spiraweld.co.nz</a>
Testing Technician:	Rex Ong   B.Sci   Pg.Dip		
Job Description:	Tensile Testing of Supplied Samples		
SAMPLE DESCRIPTION			
Test Method Standard:	AS 2205.2.1: 2003	Acceptance Criteria:	Report findings
Joint Type:	Butt Weld	WPS No	SW-GTAW-SS-BUTT-3
Material:	316L-Heat # C37AW2401023	Material Thickness (mm):	3
Marking:	12" ID 3mm 316 Pipe	PQR No:	SW-GTAW-SS-BUTT
Process:	GTAW	Welder ID:	Harris Tuaato
Testing Equipment:	Shimadzu Universal Grade 1 Testing Machine   Model No: UH 500 KNI   SN NM: 121054600016		
Type of Sample:	Reduced Section	Special Preparations:	NA
RESULTS			
Test Number:	1		
Diameter / Dimensions (mm):	2.51 x 25.11		
Cross Sectional Area (mm <sup>2</sup> ):	63.0		
Tensile Load (kN):	37.3		
Tensile Strength (MPa):	592		
Fracture Location:	Weld		
Specific Criteria: Min. Tensile Strength (MPa):	N/A		
Notes:			
REVIEWAL AND APPROVAL			
<i>There were no deviations or departures from the mentioned standards.</i>			
Date of Review:	20 November, 2025	Issue Date:	20 November, 2025
Reviewed By:	Rex Ong	Key Technical Person:	Sheik Mahaboob Raja
Qualification:	B.Sci   Pg.Dip	Qualification:	B.E. MatSciEng   Pg.Dip. MatSci
Signature:		Signature:	

2026 Transverse Tensile Test Report

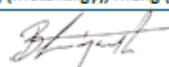


All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

MTL Report No: J69912.1

Date Tested: 14 May, 2026

ADMINISTRATIVE AND CLIENT DETAILS			
Client Name:	Spiraweld Stainless Ltd	Attention:	Campbell Batts
Purchase Order No:	K169704	Contact Details:	<a href="mailto:campbell@spiraweld.co.nz">campbell@spiraweld.co.nz</a>
Job Description:	Tensile and Bend Testing of Supplied Samples		
SAMPLE DESCRIPTION			
Test Method Standard:	AS 2205.2.1 (tensile) and AS 2205.3.1 (bend)	Acceptance Criteria:	Report findings
Joint Type:	Close-Joint Square Butt	WPS No	SW-GTAW-SS-BUTT-3
Material:	304L-Heat # 115110384	Material Thickness (mm):	3
Marking:	10" ID 3mm 304L Pipe	PQR No:	SW-GTAW-SS-BUTT
Process:	GTAW	Welder ID:	Ben
Testing Equipment:	Shimadzu Universal Grade 1 Testing Machine   Model No: UH 500 KNI   SN NM: 121054600016		
Type of Sample:	Reduced Section	Special Preparations:	NA
TENSILE RESULTS			
Test Number:	1		
Diameter / Dimensions (mm):	2.61 x 24.95		
Cross Sectional Area (mm <sup>2</sup> ):	65.1		
Tensile Load (kN):	35.6		
Tensile Strength (MPa):	547		
Fracture Location:	Weld		
Specific Criteria: Min. Tensile Strength (MPa):	N/A		
Notes:			
TRANSVERSE WELD 180° GUIDED BEND TEST (Roller Supports)			
Equipment Used:	Shimadzu Universal Testing Machine, Model No. RH-30, Serial No. 65966, A/N: MTL-MECH-35		
Special Preparations:	Weld Reinforcement Removed		
Test No.	1	2	
Dimensions (mm):	3 x 38	3 x 38	
Diameter of Former (mm):	12	12	
Type / Location:	Face	Root	
Findings:	None observed	None observed	
Comments:	Complies	Complies	

This report applies only to the sample/s as tested.			
Testing Technician	Rex Ong	Date of Issue	14/05/2026
Checked By	Vladimir Stojanovic	Approved by	Rex Ong – Key Technical personnel
Qualification	BEng (Metallurgy), MEng (Metallurgy)	Qualification	BSci, PgDip
Signature		Signature	