

## TEST CERTIFICATE



Page 1 of 2  
 GDTI: 931626600001480048223  
 Certificate No.: 80048223  
 Transmission Date: 11/07/2021  
 Delivery No. 80048223

Customer: 10000558 HJ ASMUSS & CO AUCKLAND GABADOR PLACE 1060 AUCKLAND HJ ASMUSS TAURANGA CD WELLINGTON Ship To: 11-13 GOUGH STREET 5010 SEAVIEW, WELLINGTON	Supplier: The Aust Steel Co Ops P/L A.B.N: 89069426955
--	---



Accreditation no.:	Name	Authorized Signatories
Chemistry Lab:1726	InfraBuild Steel Laverton	S. Ciuciulete
Mechanical Lab:1843	InfraBuild Steel Laverton	S. Ciuciulete

## SPEC. & PROD. DETAILS COVERED BY THIS TEST CERTIFICATE FOR SALES ORDER: 35152

Item No.	Heat No.	Steel Making	Customer Order	Material Description and Specification
001200	1600230003	EAF	113269	300PLUS (AS/NZS 3679.1-300) 12.00M GTIN: 99316266001700 100MM X 100MM X 10MM EQUAL ANGLE

Cast EAF - "Electric Arc -Billet Cast", BOB - "Basic Oxygen -Billet Cast" BOS - "Basic Oxygen -Slab Cast"

## CHEMICAL ANALYSIS

Percentage of element by mass

(L=Cast, P=Product, -S=Soluble, -T=Total, CF=Chemical Formula, n=Min, x=Max)

ItemNo	HeatNo	NATA Lab	L/P	C	P	Mn	Si	S	Ni	Cr	Mo	Cu	Al	B	Nb	Ti	V	CF1	
001200	1600230003	1726	L	0.20	0.009	0.84	0.23	0.023	0.09	0.08	0.02	0.21	0.002	0.0001	<0.001	0.001	<0.001	0.38	

$CF1 = C + MN/6 + (CR + MO + V)/5 + (NI + CU)/15$

## MECHANICAL TESTING

### Tensile AS/NZS 1391

ItemNo	HeatNo	NATA Lab	Cat	YS MPa	UTS MPa	GL	EL%												
001200	1600230003	1843	B	351	519	A	35												

Yield Strength - determined in accordance with requirements of nominated product standard

TEST CATEGORY (Cat) B=Batch

GAUGE LENGTH (Lo) A = 5.65 \* square root of the original cross-sectional area of the test piece.

**TEST CERTIFICATE**

Page 2 of 2  
GDTI: 931626600001480048223  
Certificate No.: 80048223  
Transmission Date: 11/07/2021  
Delivery No. 80048223

**BUNDLES**

Item No.	GTIN	Heat No.	Bundles
001200	99316266001700	1600230003	1629012210

**COMMENTS**

INFRABUILD STEEL LAVERTON is quality endorsed to ISO 9001 under SAI GLOBAL Certificate No: QEC0759

LAB 1726 - THE METHODS OF SAMPLING ARE CARRIED OUT IN ACCORDANCE WITH PROCEDURES REFERENCED IN SW1-LAB12; CHEMICAL ANALYSIS BY ATOMIC EMISSION SPECTROMETRY

LAB 1843 - SAMPLING PER LRM-ROLL-LAB-LMN-001. MECHANICAL TESTS CARRIED OUT IN ACCORDANCE WITH AS1391

To view Measurement Uncertainty <https://www.infrabuild.com/en-au/resource-centre/resources/measurement-uncertainty/>

Certification: Supplier

I certify the conformance of the material to the specification (unless noted otherwise) and that the information on this certificate is in accordance with the records of the company.

S. Ciuculete -Senior Metallurgist



Certified True copy Jul 11, 2021