


# TEST CERTIFICATE

Customer: <b>H J ASMUS AND CO LTD</b> <b>PO BOX 14-441</b> <b>AUCKLAND</b>	Supplier: INFRABUILD STEEL SYDNEY, N.S.W. AUSTRALIA A.B.N. 42 004 651 325
Ship To: TAURANGA CD WELLINGTONTAURANGA,	Sales Order No: Z1216 Printed on: 12/03/2021

 <p>Accredited for compliance with ISO/IEC 17025 - Testing. This document shall not be reproduced except in full.</p>	<p>Chemical results as identified are from InfraBuild Steel NSW 2482 Approved Signatory - A. Prasad Mechanical results as identified are from InfraBuild Steel NSW 0279 Approved Signatory - G. Irani</p>
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STEELMAKING: Electric Arc - Billet Cast

INSPECTION: Supplier  
CERTIFICATION: Supplier

## ITEMS COVERED BY THIS TEST CERTIFICATE

Item No	Heat No	Customer Order	Section	Grade
0123X	760467	110867	50MM X 12MM S.E. FLAT	300PLUS (AS/NZS 3679.1-300)

## CHEMICAL ANALYSIS

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

Item No	Heat / Unit No	NATA Lab	L/P	C	P	Mn	Si	S	Ni	Cr	Mo	Cu	Al-T	Nb
0123X	760467	2482	L	.20	.012	.77	.196	.024	.056	.068	.010	.22	.001	.001

Item No	Heat / Unit No	NATA Lab	L/P	Ti	B	V	CF1
0123X	760467	2482	L	.001	.0003	.003	.36

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

## MECHANICAL TESTING

### Tensile AS 1391

Item No	Heat No	NATA Lab	Cat	YS MPa	UTS MPa	Lo	ELONGN %
0123X	760467	0279	B	345	500	A	30
0123X	760467	0279	B	355	500	A	31

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

## BUNDLES

Item No	Heat No	Bundles
0123X	760467	RM3642066

## COMMENTS

INFRABUILD STEEL SYDNEY IS QUALITY ENDORSED TO ISO 9001 UNDER SAI GLOBAL. CERTIFICATE NO: QEC2212. LAB 2482 - THE METHODS OF SAMPLING AND CHEMICAL ANALYSIS ARE CARRIED OUT IN ACCORDANCE TO IN-HOUSE PROCEDURES SWP/NQ779 & SWP.CCM.004; LAB 0279 - SAMPLING CONDUCTED IN ACCORDANCE TO IN-HOUSE PROCEDURE SWP/MT11. MECHANICAL TESTING CONDUCTED IN ACCORDANCE TO THE REFERENCED STANDARD.

To view Measurement Uncertainty [click here](#)

**TEST CERTIFICATE**

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. Armitage - Quality Services Superintendent



Certified True Copy 12/03/21