

TEST CERTIFICATE

GDTI: 9316266000014030065

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Certificate No.: 030065 Transmission Date: 18/12/20

Customer: **H J ASMUSS AND CO LTD**

> PO BOX 14-441 **AUCKLAND**

TAURANGA CD WELLINGTONTAURANGA,

Supplier: **INFRABUILD STEEL**

NEWCASTLE, N.S.W. AUSTRALIA

A.B.N. 42 004 651 325

Sales Order No: Z0216 18/12/2020 Printed on:





Ship To:

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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

STEELMAKING: Electric Arc - Billet Cast

INSPECTION: Supplier CERTIFICATION: Supplier

ITEMS COVERED BY THIS TEST CERTIFICATE

Item	Heat	Customer	Section	C rade
No	No	Order	[투	₽
1135X	759499	106321		300PLUS (AS/NZS 3679.1-3 774
1136X	758960	106321	50MM X 50MM X 3MM ANGLE	300PLUS (AS/NZS 3679.1-300)
1137X	758881	106321	50MM X 50MM X 5MM ANGLE	300PLUS (AS/NZS 3679.1-300)
1216X	759626	106714	40MM X 5MM S.E. FLAT	300PLUS (AS/NZS 3679.1-300)
1217X	759627	106714	40MM X 6MM S.E. FLAT	300PLUS (AS/NZS 3679.1-300)
1219X	759437	106714	50MM X 6MM S.E. FLAT	300PLUS (AS/NZS 3679.1-300)
1220X	759318	106714	50MM X 20MM S.E. FLAT	300PLUS (AS/NZS 3679.1-300)
1221X	759302	106714	75MM X 12MM S.E. FLAT	300PLUS (AS/NZS 3679.1-300)
1222X	759320	106714	75MM X 20MM S.E. FLAT	300PLUS (AS/NZS 3679.1-300)
1224X	759208	106714	100MM 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)

ltem	Heat /	NATA	L/P	С	Р	Mn	Si	S	Ni	Cr	Мо	Cu	Al-T	Nb
<u></u> −\ o	Unit No	Lab												
1135X	759499	2482	L	.20	.014	.75	.20	.033	.069	.16	.017	.25	.001	.001
1136X	758960	2482	L	.16	.016	.96	.21	.028	.059	.12	.011	.23	.001	.002
1137X	758881	2482	L	.19	.015	.74	.190	.032	.066	.13	.010	.24	.001	.001
1216X	759626	2482	L	.19	.012	.74	.21	.025	.065	.14	.014	.24	.001	.002
1217X	759627	2482	L	.20	.014	.73	.198	.029	.080	.15	.016	.22	.001	.002
1219X	759437	2482	L	.21	.013	.77	.20	.028	.083	.15	.015	.23	.001	.001
1220X	759318	2482	L	.21	.016	.76	.21	.031	.063	.15	.011	.24	.001	.001
1221X	759302	2482	L	.21	.017	.80	.21	.027	.079	.16	.016	.21	.001	.001
1222X	759320	2482	L	.19	.011	.75	.198	.026	.057	.13	.010	.21	.001	.001
1224X	759208	2482	L	.21	.013	.79	.20	.028	.055	.14	.008	.20	.001	.001

Item	Heat /	NATA	L/P	Ti	В	V	CF1
No	Unit No	Lab					
1135X	759499	2482	L	.001	.0004	.002	.38
1136X	758960	2482	L	.001	.0004	.003	.37
1137X	758881	2482	L	.001	.0003	.002	.36
1216X	759626	2482	L	.001	.0003	.003	.36
1217X	759627	2482	L	.001	.0004	.003	.37
1219X	759437	2482	L	.001	.0004	.002	.39
1220X	759318	2482	L	.001	.0005	.002	.39
1221X	759302	2482	L	.001	.0005	.002	.40
1222X	759320	2482	L	.001	.0004	.002	.36
1224X	759208	2482	L	.001	.0005	.002	.39

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



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MECHANICAL TESTING Tensile AS 1391

Item	Heat	NATA	Cat	YS	UTS	Lo	ELONGN
No	No	Lab		MPa	MPa		%
1135X	759499	0279	В	365	520	Α	39
1135X	759499	0279	В	365	520	Α	39
1136X	758960	0279	В	370	520	Α	42
1136X	758960	0279	В	370	520	Α	44
1137X	758881	0279	В	370	530	Α	41
1137X	758881	0279	В	370	530	Α	44
1216X	759626	0279	В	385	510	Α	36
1216X	759626	0279	В	385	520	Α	38
1217X	759627	0279	В	385	510	Α	35
1217X	759627	0279	В	385	510	Α	35
1219X	759437	0279	В	385	530	Α	35
1219X	759437	0279	В	390	530	Α	35
1220X	759318	0279	В	325	490	Α	28
1220X	759318	0279	В	345	490	Α	28
1221X	759302	0279	В	340	530	Α	31
1221X	759302	0279	В	335	530	Α	34
1222X	759320	0279	В	305	500	Α	31
1222X	759320	0279	В	315	500	Α	31
1224X	759208	0279	В	325	520	Α	33
1224X	759208	0279	В	310	520	Α	30



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

ı	Item Heat		Bundles
	No	No	
ı	1135X	759499	RM3618109
ı	1136X	758960	RM3600375
ĺ	1137X	758881	RM3600109
ĺ	1216X	759626	RM3621343
ı	1217X	759627	RM3621309
ĺ	1219X	759437	RM3615646
I	1220X	759318	RM3611981
ĺ	1221X	759302	RM3611527
ĺ	1222X	759320	RM3611766
	1224X	759208	RM3608698 RM3608699

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

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 18/12/20