



# Product Test Certificate

161112

12/05/2016

Certificate Number

Date

RHS/SHS/CHS  
Nominal Size (mm)

PackFrom	PackTo	d /do	b	t	L	Specification	Grade	Product Description
16130M10003	16130M10049	100	100	6	Any	AS1163	C350L0	Painted 100x100x6.0

Heat No.	Steel Supplier	Testing Authority/NATA (ILAC) No				Steel Making Process	Steel Chemical Analysis (% x100) As supplied by Steelmaker ("L")														Mechanical Test Results (Orientation-"L")									
		Tensile	Impact	Chemical	C		P	Mn	Si	S	Ni	Cr	Mo	Cu	Al	Ti	Nb	V	B	CE	SiE	Testing Report No-Sample ID	Condition	Tensile Test			Impact Test at 0°C			
																								YS	TS	E	1	2	3	Avg
N46866	Import	MTL/17279	MTL/17279	SS/19570	BO,CC	15	1.2	103	<2	1	<1	2	<1	3.5	1	<1	1	<1	<0.05	33	5	T3140-5321	A	456	562	30	70	80	73	74.3
N46870	Import	MTL/17279	MTL/17279	SS/19570	BO,CC	16	1.2	106	<2	1.1	<1	2	<1	3.6	1	<1	2	<1	<0.05	35	5	T3166-5465	A	474	561	27	79	73	72	74.7
N46877	Import	MTL/17279	MTL/17279	SS/19570	BO,CC	16	1.2	107	<2	1.1	<1	2	<1	4	1	<1	2	<1	<0.05	35	5	T3166-5463	A	472	563	28	65	65	68	66
N54336	Import	MTL/17279	MTL/17279	SS/19570	BO,CC	16	1.4	104	1.3	.54	.01	.02	0	1.8	2.8	.1	1.7	0.1	.01	34	5	T3166-5464	A	474	565	27	76	63	62	67

- Notes:**
- 1) CE=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15;
  - 2) SiE=Si+2.5P;
  - 3) Gauge Length for E= 5.65VSo;
  - 4) Impact test piece thickness is 5 mm;
  - 5) For t less than 6 mm L0 properties derived as per Cl 10.6.2.2 (b) of AS/NZS 1163;
  - 6) Data in the table refers to the samples representative for each line;
  - 7) BO,SC= Basic Oxygen,Continuous (Slab) Casting; ALS=Australian Laboratory Services Industrial; MTL = Mec Test Laboratories; SS=Spectrometer Services Pty Ltd; BSL=Bluescope Steel;
  - 8) The production date in the format yyddd constitutes the first 5 digits of the pack number and is printed on each length;
  - 9) Information provided by BSL " STEEL FEED: IN ACCORDANCE WITH CLAUSES 6 AND 10.6.2.2 OF AS/NZS 1163:2009 THESE COILS WERE PRODUCED FROM ALUMINIUM FULLY KILLED, FINE GRAINED STEEL AND ALUMINIUM HAS BEEN USED AS THE GRAIN REFINING ELEMENT".



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## Packs covered by this certificate

Heat	Pack Numbers
N46866	16130M10003 16130M10004 16130M10005 16130M10006 16130M10007 16130M10008 16130M10012 16130M10013 16130M10014 16130M10015 16130M10016 16130M10024 16130M10025 16130M10026 16130M10043 16130M10044 16130M10045 16130M10046
N46870	16130M10016 16130M10017 16130M10018 16130M10026 16130M10027 16130M10028 16130M10029 16130M10030 16130M10031 16130M10032 16130M10033 16130M10034 16130M10035 16130M10036 16130M10038 16130M10039 16130M10040 16130M10041 16130M10042 16130M10043
N46877	16130M10018 16130M10019 16130M10020 16130M10036 16130M10037 16130M10038 16130M10046 16130M10047 16130M10048 16130M10049
N54336	16130M10020 16130M10021 16130M10022 16130M10023 16130M10024

**Australian Pipe Tube confirms that products listed above were manufactured, tested, and supplied in full compliance with the specifications quoted in this certificate.**

**Authorized signatory: R.Fisher**