AUSTRALIAN PIPE & TUBE

Product Test Certificate

161129 Certificate Number

18/05/2016 Date

PackFrom	PackTo	RHS/SHS/CHS Nominal Size (mm) d /do	b	t	L	Specification	Grade	Product Description
16137M10021	16137M10035	75	75	3	Any	AS1163	C350L0	Galvanised 75x75x3.0

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")									
																					Testing Report No-Sample ID	Condition	Tensile Test			Impact Test at 0°C			
																							YS	TS	E	1	2	3	Avg
		Tensile	Impact	Chemical		C	P	Mn	Si	S	Ni	Cr	Mo	Cu	Al	Ti	Nb	V	B	CE	SiE			MPa		%	Joules			
15ND3178	Import	MTL/17279		SS/19570	BO,CC	15	1.6	45	<2	1	<1	1	<1	<1	3.2	<1	2	<1	<0.05	23	6	T3170-5509	A	435	502	28				
15ND3178	Import	MTL/17279		SS/19570	BO,CC	15	1.6	45	<2	1	<1	1	<1	<1	3.2	<1	2	<1	<0.05	23	6	T3170-5512	A	455	519	26				
15ND3179	Import	MTL/17279		SS/19570	BO,CC	11	1	46	2	0.9	1	2	0.3	2	2.6	0.2	1	0.3	<0.05	20	4	T3170-5511	A	447	522	25				
15ND3181	Import	MTL/17279		SS/19570	BO,CC	13	1.9	47	<2	1.1	<1	1	<1	2	4.2	<1	2	<1	<0.05	22	7	T3170-5510	A	480	539	22				

Notes:

1) CE=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15; **2)** SiE=Si+2.5P; **3)** Gauge Length for E= 5.65√So; **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 Oxigen,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**
15ND3178	16137M10021 16137M10022 16137M10023 16137M10026 16137M10027 16137M10028 16137M10029 16137M10030 16137M10031 16137M10032 16137M10033 16137M10034 16137M10035
15ND3181	16137M10023 16137M10024
15ND3179	16137M10024 16137M10025 16137M10026

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