Product Test Certificate

161126 Certificate Number

17/05/2016 Date

AUSTRALIAN PIPE & TUBE

PackFrom	PackTo	RHS/SHS/CHS Nominal Size (mm) d /do	b	t	L	Specification	Grade	Product Description
16133M10045	16133M10047	100	50	4	Any	AS1163	C350L0	Galvanised 100x50x4.0

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			
		Tensile	Impact	Chemical		C	P	Mn	Si	S	Ni	Cr	Mo	Cu	Al	Ti	Nb	V	B	CE	SiE			YS	TS	E	1	2	3	Avg
																							MPa		%	Joules			
LZ319	Import	MTL/17279		SS/19570	BO,CC	9	1.7	77	<2	0.9	<1	2	<1	1	3.1	<1	3	<1	<0.05	23	6	T3168-5495	A	510	581	29				

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
LZ319	16133M10045 16133M10046 16133M10047

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