Product Test Certificate

161145 Certificate Number

1/06/2016 Date

AUSTRALIAN PIPE & TUBE

PackFrom	PackTo	RHS/SHS/CHS Nominal Size (mm) d /do	b	t	L	Specification	Grade	Product Description
16146M10001	16146M10003	100	50	3	Any	AS1163: 2016	C350L0	Painted 100x50x3.0

Heat No.	Steel Supplier	Testing Authority/NATA (ILAC) No			Steel Chemical Analysis																Mechanical Test Results (Orientation-"L")								
		Tensile	Impact	Chemical	Analysis Type "L"/"P"	Testing Report No	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
							(% x 100)																		MPa		%	Joules			
1640633	Import	MTL/17279		SS/19570	P	63954	16	1.3	76	<2	1.3	<1	2	<1	<1	2.7	<1	<1	<1	<0.05	30	5	T3173-5527	A	413	492	34				

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 9.4.2.3 (b) of AS/NZS 1163; **6)** "L" = LADLE, "P" = PRODUCT

7) 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) THE STEEL IS MADE BY BASIC OXYGEN OR AN ELECTRIC ARC PROCESS AND IS FULLY KILLED, CONTINOUSLY CAST AND FINE GRAINED. THE STRIP WAS HOT ROLLED AT THE HOT STRIP MILL.

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Packs covered by this certificate

Heat	Pack Numbers
1640633	16146M10001 16146M10002 16146M10003

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

Authorized signatory: L. DONALD

CEO