Product Test Certificate

161293 Certificate Number

30/08/2016 Date

AUSTRALIAN PIPE & TUBE

PackFrom	PackTo	RHS/SHS/CHS Nominal Size (mm) d /do	b	t	L	Specification	Grade	Product Description
16231M10053	16231M10081	50.0	50.0	5.0	Any	AS1163: 2016	C350L0	Painted 50x50x5.0

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			
							(% x 100)																		YS	TS	E	1	2	3	Avg
																									MPa		%	Joules			
7500799	Australia-BSL	MTL/19968		BSL/632	L	D10592	14	2	100	0.9	1.2	2.1	3.1	0.4	4.9	2.8	<0.2	1.5	<0.3	<0.03	32	6	T3279-5891	A	536	593	20				
9S435	Import	MTL/19968		L2734-130513	L	6T07493	17	1.5	77	1	0.9	1	1	0	1	5.5	0.1	0.2	0.1	0	31	5	T3279-5893	A	484	554	24				
9S439	Import	MTL/19968		L2734-130513	L	6T07847	17	1.6	77	1	0.6	1	1	0	1	4.3	0.1	0.1	0.2	0	31	5	T3279-5894	A	483	555	24				
9S441	Import	MTL/19968		L2734-130513	L	6T07493	17	1.5	72	2	0.5	1	1	0	0	5.7	0.2	0.1	0.2	0	30	6	T3279-5892	A	489	551	24				
9S653	Import	MTL/19968		L2734-130513	L	6T07847	17	1.5	81	1	0.5	1	1	0	0	4	0.1	0.1	0.2	0	32	5	T3279-5895	A	537	590	21				
9S658	Import	MTL/19968		L2734-130513	L	6T07847	17	1.6	78	1	0.5	1	1	0	0	3.8	0.1	0.1	0.2	0	31	5	T3279-5896	A	499	569	25				

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
7500799	16231M10053 16231M10054 16231M10055 16231M10056 16231M10057 16231M10058 16231M10059 16231M10060 16231M10061 16231M10062 16231M10063 16231M10064 16231M10065 16231M10066 16231M10067 16231M10068 16231M10069 16231M10070 16231M10071 16231M10072
9S435	16231M10073 16231M10074 16231M10075
9S441	16231M10073 16231M10075 16231M10076
9S439	16231M10074 16231M10075 16231M10078
9S653	16231M10076 16231M10077 16231M10080 16231M10081
9S658	16231M10077 16231M10078 16231M10079 16231M10080 16231M10081

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