AUSTRALIAN PIPE & TUBE

Product Test Certificate

161310 Certificate Number

6/09/2016 Date

PackFrom	PackTo	RHS/SHS/CHS Nominal Size (mm) d /do	b	t	L	Specification	Grade	Product Description
16244M10075	16245M10054	125.0	75.0	5.0	Any	AS1163: 2016	C350L0	Painted 125x75x5.0

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 YS	TS	E	Impact Test at 0°C 1	2	3	Avg
							(% x 100)																		MPa		%	Joules			
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	T3301-6960	A	443	527	30				
9S441	Import	MTL/17279		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	T3288-5923	A	431	524	28				
9S445	Import	MTL/19968		L2734-130513	L	6T07847	17	1	76	1	0.7	1	1	0	1	3.5	0.1	0.1	0.2	0	31	4	T3301-6964	A	455	544	29				
9S449	Import	MTL/19968		L2734-13053	L	6T07125	17	1.6	81	1	.9	1	1	1	1	3.3	.1	.2	.1		32	5	T3301-6963	A	458	548	26				
9S658	Import	MTL/17279		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	T3288-5925	A	392	512	35				
9S662	Import	MTL/19968		L2734-130513	L	6T07847	17	0.9	89	1	0.7	1	1	0	1	4.7	0.1	0.1	0.2	0	33	3	T3301-6961	A	451	543	29				
9S668	Import	MTL/19968		L2734-130513	L	6T07847	17	0.8	75	2	0.3	1	1	0	1	3.5	0.1	0.2	0.1	0	30	4	T3301-6962	A	438	537	30				

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
9S439	16244M10075 16244M10076 16244M10077 16244M10078 16244M10079 16244M10080 16244M10081
9S441	16244M10081 16244M10082 16244M10083
9S658	16244M10083 16244M10084 16244M10085
9S662	16244M10085 16244M10086 16244M10087 16244M10088 16244M10089 16244M10096 16244M10097 16244M10098 16244M10099
9S668	16244M10089 16244M10090 16244M10091 16244M10092
9S449	16244M10093 16244M10094 16244M10095 16244M10096 16244M10099 16244M10100 16244M10101 16244M10102 16245M10048 16245M10049 16245M10050 16245M10051 16245M10052 16245M10053 16245M10054
9S445	16244M10102 16244M10103 16244M10104 16244M10105 16244M10106 16244M10107 16244M10108

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

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161310	6/09/2016
Certificate Number	Date

Authorized signatory: L. DONALD
CEO