Product Test Certificate

161216 Certificate Number

26/10/2016 Date

PackFrom	PackTo	RHS/SHS/CHS Nominal Size (mm) d /do	b	t	L	Specification	Grade	Product Description
16194M10056	16195M10115	89.0	89.0	5.0	Any	AS1163: 2016	C350L0	Painted 89x89x5.0

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			
16S6-03095	Import	MTL/19968		SS/19570	P	64829	16	1.9	58	2	1	<1	2	1	1	2.9	<1	<1	<1	<0.05	27	7	T3233-5718	A	466	527	21				
16S7-02588	Import	MTL/19968		SS/19570	P	64829	18	1.5	82	2	1	<1	1	1	1	6.7	<1	<1	<1	<0.05	33	6	T3233-5717	A	473	530	23				
7494219	Australia-BSL	MTL/19968		BSL/632	L	D06747	15	1.3	98	1.5	1.1	1.6	2	0.3	3.5	3.5	<0.2	1.9	<0.3	<0.03	32	5	T3232-5711	A	473	569	25				
9S446	Import	MTL/19968		L2734-130513	L	6T07125	18	1.1	76	1	.5	1	0	0	0	3.5	.1	.1	.2		32	4	T3233-5720	A	481	544	25				
9S449	Import	MTL/19968		L2734-130513	L	6T07125	17	1.6	81	1	.9	1	1	1	1	3.3	.1	.2	.1		32	5	T3233-5716	A	452	526	27				
9S456	Import	MTL/19968		L2734-130513	L	6T07125	17	1	77	1	1.3	1	1	0	1	4.7	0	.2	.1		31	4	T3233-5713	A	490	556	27				
9S664	Import	MTL/19968		L2734-130513	L	6T07125	17	.8	79	2	.5	1	1	0	0	4.4	.1	0	.2		31	4	T3233-5714	A	449	521	31				
9S665	Import	MTL/19968		L2734-130513	L	6T07125	18	1	75	1	.9	1	1	0	1	4	.1	.1	.3		32	4	T3233-5722	A	470	545	28				
9S669	Import	MTL/19968		L2734-130513	L	6T07125	17	1.1	77	1	.8	1	1	0	1	3.1	.1	.2	.1		31	4	T3233-5712	A	449	530	27				
9S670	Import	MTL/19968		L2734-130513	L	6T07125	16	1.2	78	1	.6	1	1	0	1	4.7	.1	.2	.2		30	4	T3233-5715	A	448	521	31				
9S671	Import	MTL/19968		L2734-130513	L	6T07125	17	1.7	76	1	.9	1	1	0	1	3.8	.1	.2	.1		31	5	T3233-5721	A	469	541	28				

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9S674	Import	MTL/17279		SS/19570	P	6T07125	17	1.6	80	1	.7	1	1	0	0	3.6	1	2	3		31	5	T3233-5719	A	486	532	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 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.

Packs covered by this certificate

Heat	Pack Numbers
7494219	16194M10056 16194M10057 16194M10058 16194M10059 16194M10060 16194M10061 16194M10062 16194M10063 16194M10064 16194M10065 16194M10066 16194M10067 16194M10068 16194M10069 16194M10070 16194M10071 16194M10072 16194M10073 16194M10074 16194M10075 16194M10076 16194M10077 16194M10078 16194M10079 16194M10080 16194M10081 16195M10001 16195M10002 16195M10003 16195M10024
9S669	16195M10004 16195M10005 16195M10006 16195M10035 16195M10036 16195M10037 16195M10038 16195M10039 16195M10040 16195M10041 16195M10042
9S456	16195M10006 16195M10007 16195M10008 16195M10009 16195M10060 16195M10061 16195M10062 16195M10063 16195M10086 16195M10087 16195M10088
9S664	16195M10009 16195M10010 16195M10011 16195M10074 16195M10075 16195M10076 16195M10077 16195M10107 16195M10108 16195M10109
9S670	16195M10011 16195M10012 16195M10013 16195M10014 16195M10031 16195M10032 16195M10033 16195M10034 16195M10095 16195M10096 16195M10097

Product Test Certificate 161216 26/10/2016

Certificate Number Date

9S449	16195M10014 16195M10015 16195M10016 16195M10017 16195M10069 16195M10070 16195M10071 16195M10072 16195M10097 16195M10098 16195M10099 16195M10100
16S7-02588	16195M10017 16195M10018 16195M10020 16195M10021 16195M10022 16195M10023 16195M10025 16195M10026 16195M10027 16195M10029 16195M10030 16195M10031 16195M10034 16195M10035 16195M10046 16195M10047 16195M10048 16195M10049 16195M10050 16195M10051 16195M10052
16S6-03095	16195M10018 16195M10019 16195M10020 16195M10038 16195M10039 16195M10042 16195M10043 16195M10052 16195M10053 16195M10054 16195M10055 16195M10056 16195M10057
9S674	16195M10043 16195M10044 16195M10045 16195M10046 16195M10072 16195M10073 16195M10074 16195M10080 16195M10081 16195M10082 16195M10083
9S446	16195M10057 16195M10058 16195M10059 16195M10060 16195M10066 16195M10067 16195M10068 16195M10069 16195M10083 16195M10084 16195M10085 16195M10086 16195M10100 16195M10101 16195M10102 16195M10103 16195M10109 16195M10110 16195M10111 16195M10112 16195M10115
9S671	16195M10063 16195M10064 16195M10065 16195M10066 16195M10091 16195M10092 16195M10093 16195M10094 16195M10095 16195M10112 16195M10113 16195M10114 16195M10115
9S665	16195M10077 16195M10078 16195M10079 16195M10080 16195M10088 16195M10089 16195M10090 16195M10091 16195M10103 16195M10104 16195M10105 16195M10106 16195M10107

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