Product Test Certificate

161156 Certificate Number

7/06/2016 Date

AUSTRALIAN PIPE & TUBE

PackFrom	PackTo	RHS/SHS/CHS Nominal Size (mm) d /do	b	t	L	Specification	Grade	Product Description
16152M10043	16153M10004	75	50	2.3	Any	AS1163: 2016	C350L0	Painted 75x50x2.3

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			
6481119	Australia-BSL	MTL/17279		BSL/632	L	D05232	15	1.6	76	0.6	1.1	1.5	2.8	0.2	3.4	2.7	<0.2	0.1	<0.3	<0.03	29	5	T3184-5550	A	506	540	31				

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
6481119	16152M10043 16152M10044 16152M10045 16152M10046 16152M10047 16152M10048 16152M10049 16152M10050 16152M10051 16152M10052 16152M10053 16152M10054 16152M10055 16152M10056 16152M10057 16152M10058 16152M10059 16152M10060 16152M10061 16152M10062 16152M10063 16152M10064 16152M10065 16152M10066 16153M10001 16153M10002 16153M10003 16153M10004

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