Product Test Certificate

161398 Certificate Number

25/10/2016 Date

AUSTRALIAN PIPE & TUBE

PackFrom	PackTo	RHS/SHS/CHS Nominal Size (mm) d /do	b	t	L	Specification	Grade	Product Description
16292M10018	16292M10030	40.0	40.0	2.5	Any	AS1163: 2016	C350L0	Galvanised 40x40x2.5

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			
LR953	Import	MTL/19968		SS/19570		65859	19	1.3	80	<2	0.9	<1	1	1	1	5	<1	<1	<1	<0.05	33	5	T3354-7287	A	438	479	24				
LS157	Import	MTL/19968		SS/19570	P	65859	11	1.5	39	<2	1	<1	2	1	1	5	<1	<1	<1	<0.05	18		T3354-7286	A	436	489	33				
NQ287	Import	MTL/19968		SS/19570	P	65735	19	1.3	80	<2	0.9	<1	2	1	1	5.1	<1	<1	1	<0.05	33	5	T3354-7285	A	495	566	32				

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
NQ287	16292M10018 16292M10019 16292M10020 16292M10026 16292M10027 16292M10030
LS157	16292M10020 16292M10021 16292M10022 16292M10023 16292M10024 16292M10025 16292M10026
LR953	16292M10021 16292M10022 16292M10024 16292M10025

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