



Product Test Certificate

161513

30/11/2016

Certificate Number

Date

RHS/SHS/CHS
Nominal Size (mm)

PackFrom	PackTo	d /do	b	t	L	Specification	Grade	Product Description
16333M10069	16333M10129	150.0	50.0	3.0	Any	AS1163: 2016	C350L0/C450L0	NOPC 150x50x3.0

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																	
6521909	Australia-BSL	MTL/19968		BSL/632	L	C304414	16	1.5	101	0.7	1	2.6	2.6	0.4	4.4	3.1	<0.2	1.3	<0.3	<0.03	34	4	T3407-7496	A	455	545	33				
6521909	Australia-BSL	MTL/19968		BSL/632	L	C304414	16	1.5	101	0.7	1	2.6	2.6	0.4	4.4	3.1	<0.2	1.3	<0.3	<0.03	34	4	T3407-7497	A	465	541	33				

Notes:

- 1) CE=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15; 2) SiE=Si+2.5P; 3) Gauge Length for E= 5.65VSo; 4) Impact test piece thickness is 5 mm;
- 5) For t less than 6 mm L0 properties derived as per CI 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, CONTINUOUSLY 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
6521909	16333M10069 16333M10071 16333M10072 16333M10073 16333M10074 16333M10075 16333M10076 16333M10077 16333M10078 16333M10079 16333M10080 16333M10081 16333M10082 16333M10083 16333M10084 16333M10085 16333M10086 16333M10087 16333M10088 16333M10089 16333M10090 16333M10091 16333M10092 16333M10093 16333M10094 16333M10095 16333M10096 16333M10097 16333M10098 16333M10099 16333M10100 16333M10101 16333M10102 16333M10103 16333M10104 16333M10105 16333M10106 16333M10107 16333M10108 16333M10109 16333M10110 16333M10111 16333M10112 16333M10113 16333M10114 16333M10115 16333M10116 16333M10117 16333M10118 16333M10119 16333M10120 16333M10121 16333M10122 16333M10123 16333M10124 16333M10125 16333M10126 16333M10127 16333M10128 16333M10129 16333M10070

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