Product Test Certificate

161071 Certificate Number

26/04/2016 Date

PackFrom	PackTo	RHS/SHS/CHS Nominal Size (mm) d /do	b	t	L	Specification	Grade	Product Description
16109M10029	16109M10035	65	65	2.5	Any	AS1163	C350L0	Painted 65x65x2.5

Heat No.	Steel Supplier	Testing Authority/NATA (ILAC) No			Steel Making Process	Steel Chemical Analysis (% x100) As supplied by Steelmaker ("L")															Mechanical Test Results (Orientation-"L")								
																					Testing Report No-Sample ID	Condition	Tensile Test			Impact Test at 0°C			
																							YS	TS	E	1	2	3	Avg
		Tensile	Impact	Chemical		C	P	Mn	Si	S	Ni	Cr	Mo	Cu	Al	Ti	Nb	V	B	CE	SiE			MPa		%	Joules			
7479709	Australia-BSL	MTL/17279		BSL/632	BO, CC + note 9	16	1.5	77	0.6	1	1.1	2.4	0.3	2.3	3.2	<0.2	0.1	<0.3	<0.03	30	4	T3144-5367	A	459	537	26				

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 10.6.2.2 (b) of AS/NZS 1163; **6)** Data in the table refers to the samples representative for each line;

7) BO,SC= Basic Oxigen,Continuous (Slab) Casting; 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) Information provided by BSL " STEEL FEED: IN ACCORDANCE WITH CLAUSES 6 AND 10.6.2.2 OF AS/NZS 1163:2009 THESE COILS WERE PRODUCED FROM ALUMINIUM FULLY KILLED, FINE GRAINED STEEL AND ALUMINIUM HAS BEEN USED AS THE GRAIN REFINING ELEMENT".

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Packs covered by this certificate

Heat	Pack Numbers
7479709	16109M10029 16109M10030 16109M10031 16109M10032 16109M10033 16109M10034 16109M10035

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

Authorized signatory: R.Fisher