

RHS/SHS/CHS  
Nominal Size (mm)

PackFrom	PackTo	d / do	b	t	L	Specification	Grade	Product Description
19017M10051	19021M10036	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			
4G610	Import	VTS/19968		30414175	L	070703H002	16	1.9	74	1	0.3	1	2		3.4	0.1			0.01	29	6													
5D022	Import	VTS/19968		SS/19570	L	74238	13	1.5	74	<2	1.1	<1	2	1	<1	3.3	<1	<1	<1	<0.05	26	6	VT19-0032-9075	A	460	489	29							
5D524	Import	VTS/19968		30414175	L	070814H004	14	1.7	60	1	0.8	1	2		2.6	0.1			0.02	25	5													
5DE90	Import	VTS/19968		30414175	L	070814H004	16	1.7	70	1	0.3	1	2		4.7	0.2			0.01	29	5													

- 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.
  - 10) Statistical sampling to AS1163 CI B3.2.



# Product Test Certificate

**191039**

Certificate Number

**24/01/2019**

Date

## Packs covered by this certificate

Heat	Pack Numbers
5D022	19017M10051 19017M10052 19017M10053 19017M10054 19017M10055 19017M10056 19017M10057 19017M10061 19017M10062 19017M10063 19017M10064 19017M10068 19017M10069 19017M10070 19017M10071 19017M10072 19017M10074 19021M10001 19021M10002 19021M10003 19021M10004 19021M10005 19021M10006 19021M10007 19021M10008 19021M10009 19021M10010 19021M10011 19021M10012
5DE90	19017M10058 19017M10059 19017M10060 19017M10061 19021M10015 19021M10016 19021M10017 19021M10018 19021M10026 19021M10027 19021M10028 19021M10029 19021M10030
5D524	19017M10064 19017M10065 19017M10066 19017M10067 19021M10012 19021M10013 19021M10014 19021M10023 19021M10024 19021M10025 19021M10026 19021M10033 19021M10034 19021M10035 19021M10036
4G610	19021M10018 19021M10019 19021M10020 19021M10021 19021M10022 19021M10023 19021M10030 19021M10031 19021M10032 19021M10033

**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**