

Product Test Certificate

14036

18/03/2014

Number

Date

Line	Pack NoNo included		RHS/SHS/CHS Nominal Size (mm)				Specification	Grade	Steel Supplier	Testing Authority/ NATA (ILAC) No			Steelmaking process
	From	To	d /do	b	t	L				Tensile	Impact	Chemical	
1	14070M10056	14070M10070	100	50	5	Any	AS/NZS 1163	C350 L0	BSL	MTL/17219		BSL/632	BO,CC +note 9
2	14070M10071	14070M10074	100	50	4	Any	AS/NZS 1163	C350 L0	BSL	MTL/17219		BSL/632	BO,CC +note 9
3	14070M10075	14071M10010	100	50	3	Any	AS/NZS 1163	C350 L0	BSL	MTL/17219		BSL/632	BO,CC +note 9
4	14071M10012	14071M10020	100	50	2.5	Any	AS/NZS 1163	C350 L0	BSL	MTL/17219		BSL/632	BO,CC +note 9
5	14071M10021	14071M10026	100	50	2.3	Any	AS/NZS 1163	C350 L0/C450 L0	BSL	MTL/17219		BSL/632	BO,CC +note 9
6	14071M10027	14071M10038	100	50	2	Any	AS/NZS 1163	C350 L0	BSL	MTL/17219		BSL/632	BO,CC +note 9

Line	STEEL CHEMICAL ANALYSES (%)-As supplied by Steelmaker ("L")																	MECHANICAL TEST RESULTS (Orientation-"L")								
	HEAT 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			
		x100																		YS	TS	E	1	2	3	Ave
1	7384839	14.4	1.0	98.0	0.9	1.2	3.2	2.1	0.3	3.5	3.4	0.2	1.5	0.3		32	3	T2534-2166	A	454	531	28				
2	7381419	15.6	1.9	102.0	0.8	1.3	1.4	2.8	0.5	2.7	3.4	0.2	1.3	0.3		34	6	T2534-2177	A	471	550	28				
3	7383799	14.8	1.4	75.0	0.5	1.4	3.4	2.6	0.3	3.6	3.5	0.2	0.1	0.3		28	4	T2534-2178	A	484	534	23				
4	7377529	13.1	1.9	74.0	0.5	1.3	1.9	3.6	0.5	4.2	2.8	0.2	0.1	0.3		26	5	T2534-2179	A	480	517	26				
5	7383029	15.2	2.1	75.0	0.7	0.9	3.0	3.8	0.2	3.2	3.5	0.2	0.1	0.3		29	6	T2534-2180	A	488	538	27				
6	7347829	15.4	1.4	74.0	0.9	0.9	1.5	2.4	0.5	2.7	3.7	0.2	0.1	0.3		29	4	T2534-2181	A	436	488	32				

Notes: 1) CE=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15; 2) SiE=Si+2.5P; 3) Gauge Length for E= 5.65vSo; 4) Impact test piece thickness is 5 mm; 5) For t less than 6 mm L0 properties derived as per CI 10.6.2.2 of AS/NZS 1163; 6) Data in the table refers to the samples representative for each line; 7) BSL=BlueScope Steel; YPE=Yien Phui Enterprise CO., LTD; BO,SC= Basic Oxygen,Continuous (Slab) Casting; ALS=Australian Laboratory Services Industrial; 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 the steel supplier " 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".

