



Product Test Certificate	15077	26/08/2015
	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	15231M10001	15231M10009	75	75	3	Any	AS1163	C350 L0	Bengang Steel	MTL/17219		Bengang Ste	BO,CC
2	15231M10010	15231M10011	75	75	4	Any	AS1163	C350 L0	Bengang Steel	MTL/17219		Bengang Ste	BO,CC
3	15231M10012	15231M10022	75	75	4	Any	AS1163	C350 L0	BSL	MTL/17219		BSL/632	BO,CC+note 9
4	15231M10023	15231M10051	75	75	6	Any	AS1163	C350 L0	Hyundai Steel	MTL/17219		Hyundai Stee	BO,CC
5	15231M10077	15231M10092	65	65	1.6	Any	AS1163	C350 L0	YPE	MTL/17219		YPE	BO,CC
6	15231M10093	15231M10103	65	65	2	Any	AS1163	C350 L0	YPE	MTL/17219		YPE	BO,CC

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	
		MPa			%			Joules																		
1	1532039	17.0	1.4	75.0	1.0	0.6					2.9					31	5	T2982-3451	A	418	494	30				
2	1521971A	14.0	1.6	64.0	1.0	0.7					1.5					26	5	T2982-3452	A	475	558	27				
3	6450969	14.4	1.9	98.0	1.1	1.1	1.0	2.0	0.3	1.8	4.1	0.2	1.5	0.3	0.03	32	6	T2982-3453	A	487	562	27				
4	N46881	16.2	1.4	107.0	1.2	0.7					3.6					35	5	T2989-3454	A	519	589	27	68	70	70	69
5	14MD6580	14.9	1.8	49.0	1.6	0.8					2.9					24	6	T2982-3455	A	419	500	38				
6	5GC924B00/1	15.0	1.8	52.0	1.6	0.8					3.1					24	6	T2982-3456	A	479	531	29				

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 Cl 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 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".

