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	BISPLATE 80 – a low alloy, high strength steel plate with a yield strength three times that of carbon steel and featuring low carbon, excellent notch toughness and good weldability and formability. Utilising the high strength properties of BISPLATE 80 allows reduction in section thickness without loss of structural integrity. The following are some applications where the strength advantage has been realised:												
Applications	 Transport Equipment (low loaders) High Rise Buildings (columns) Bridges Excavator Buckets Storage Tanks 					Lifting EquipmentMining EquipmentInduced Draft Fans			(mobile cranes/container handling equipment) (dump truck trays / longwall roof supports)				
	Thickness		C	P	Mn	Si	S	Cr	Мо	В	CE (IIW)	PCM	
Chemical	5-<16	Typical	0.16	0.010	1.10	0.20	0.003	-	0.20	0.0010	0.40	0.25	
Composition	≥16-80	Typical	0.18	0.010	1.40	0.20	0.003	0.20	0.20	0.0010	0.50	0.29	
	>80-100	Typical	0.16	0.010	1.15	0.20	0.003	0.90	0.20	0.0010	0.58	0.30	
Mechanical Properties		0.2% Proof Stress		Tensile Strength			Elongation in 50 mm GL						
	Specification Typical	. ,		790 – 930 MPa 830 MPa		* Pa	18% (m 26%	nin) *					
Charpy Impact Properties	Longitudinal, -20°C (10mm x 10mm)												
	Specification Typical	40 J (min) 160 J	*										
Hardness	Typical	255 HB											
Testing	BISPLATE 80 is manufactured in accordance with AS/NZS 3597 Grade 700. All testing is NATA approved.												
Reference Specifications	Welding according to AS/NZS 1554 parts 4 and 5, WTIA Technical Note 15												
Equivalent Specifications	BISPLATE 80 is equivalent to				ASTM A514								
	• ISO 4950-3 Grade E690												
	• ISO 9328-4 Grade P690TQ												
	• EN 10137-2 Grade S690Q												
				•	JIS G	3128							
Manufacturing Tolerances	In accordance with AS/NZS 1365.												
	Tighter tolerances may be available on negotiation.												
Surface Finish	Shotblasted												
Plate Colour Code	Pink												
Fabrication	For advice on	For advice on fabrication refer to relevant Bisalloy technical brochures. Contact Bisalloy direct or visit www.bisalloy.com.au .											

^{*} Dependent on plate thickness