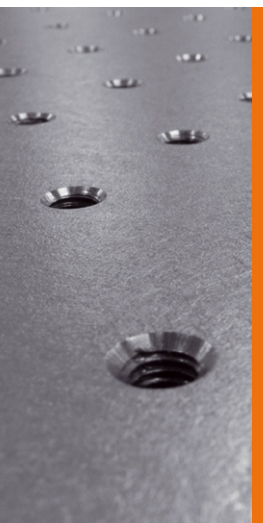


# BISPLATE<sup>®</sup> 400

Shaping Australia's Future





## BISPLATE® 400

BISPLATE® 400 – a through hardened, abrasion resistant steel plate, offering long life expectancy in high impact abrasion applications.

### Applications

BISPLATE® 400 offers excellent wear and abrasion resistance and impact toughness in applications that include:

- Dump truck wear liners
- Cyclones
- Screw conveyors
- Deflector plates
- Chutes
- Ground engaging tools
- Storage bins
- Cutting edges
- Earthmoving buckets

### Available Sizes

Thickness (mm)	Size (Width mm x Length m)
5	1525 x 8
6	1525 x 8 and 2485 x 8
8	2485 x 8
10 - 25	2485 x 8 and 3100 x 8
32 - 50	2485 x 8
60	2485 x 6
70 - 80	1900 x 6
90 - 100	1525 x 6

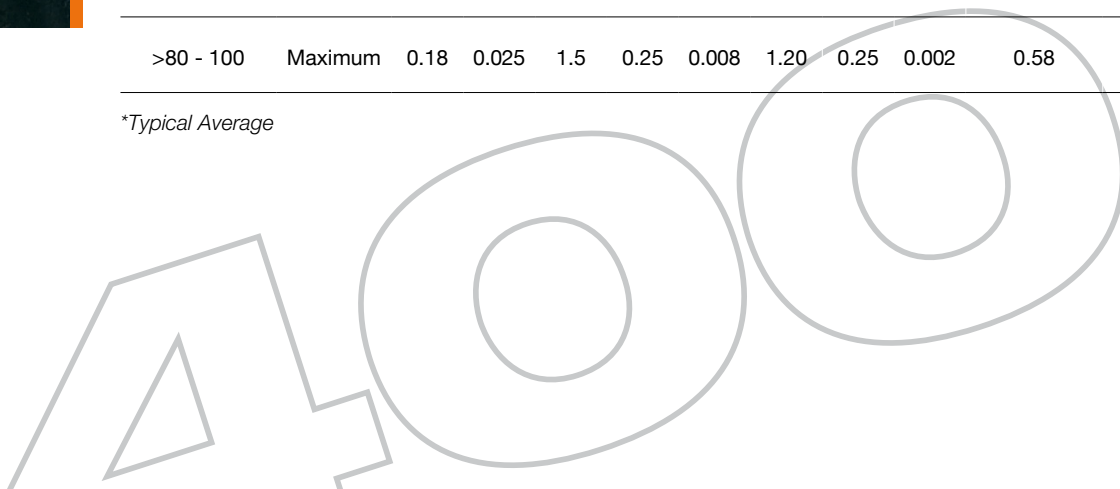
(Other widths/lengths available on enquiry)



### Chemical Composition, Weight % (Max)

Thickness (mm)		C	P	Mn	Si	S	Cr	Mo	B	CE(IIW)*	CET*
5 - <16	Maximum	0.18	0.025	1.5	0.25	0.008	0.25	0.25	0.002	0.40	0.29
≥16 - 80	Maximum	0.20	0.025	1.5	0.25	0.008	0.30	0.25	0.002	0.50	0.35
>80 - 100	Maximum	0.18	0.025	1.5	0.25	0.008	1.20	0.25	0.002	0.58	0.34

\*Typical Average





**Mechanical Properties**

Properties	Specification	Typical
0.2% Proof Stress	–	1070 MPa
Tensile Strength	–	1320 MPa
Elongation in 50 mm G.L.	–	14%

**Charpy Impact Properties**

Charpy Impact (Longitudinal), +20°C			
	Plate Thickness (mm)	Test Piece Size (mm x mm)	Energy (J)
Typical	20	10 x 10	55

**Hardness**

Specification 370 - 430 HB

Typical 400 HB

**Testing**

All testing is NATA approved

**Manufacturing**

In accordance with AS/NZS 1365

**Tolerances**

Tighter tolerances may be available on negotiation

**Surface Finish**

Shotblasted

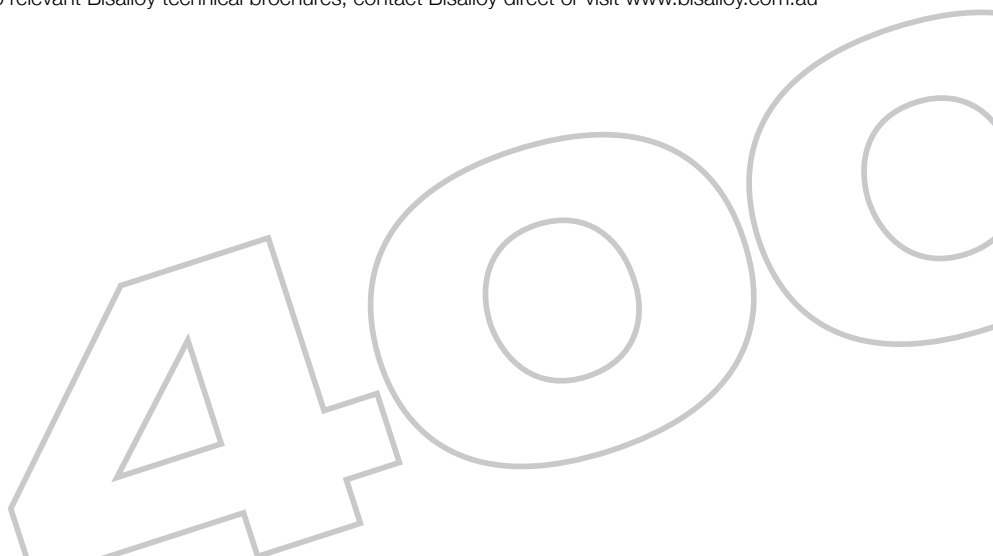
**Plate Colour Code**

Orange

**Fabrication**

BISPLATE® 400 is a high hardness, abrasion resistant steel offering very good impact toughness properties. BISPLATE® 400 provides an optimum combination of abrasion resistance, toughness and weldability. Due to its low alloy content, BISPLATE® 400 can be readily welded using conventional welding processes and low hydrogen consumables. Cold forming of BISPLATE® 400 is achievable on all thicknesses although an allowance for the higher strength should be taken into account. Bending machine capabilities should also be taken into consideration prior to any forming operation. Heating above 250°C should be avoided, otherwise mechanical properties might be affected.

For advice on fabrication refer to relevant Bisalloy technical brochures, contact Bisalloy direct or visit [www.bisalloy.com.au](http://www.bisalloy.com.au)





## Shaping Australia's Future

For over 30 years, Bisalloy has proved it's in its element as Australia's manufacturer of quenched and tempered steel plate. Plate that not only meets standards, but has become the standard, in Australia and overseas.



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#### **Disclaimer:**

Every care has been taken to ensure the accuracy of information contained in this manual which supersedes earlier publications, however Bisalloy Steels shall not be liable for any loss or damage howsoever caused or arising from the application of such information. Typical values are provided for reference information only and no guarantee is given that a specific plate will provide these properties. Specification correct at time of printing, however information is subject to change without notice.

Images included in this manual are for illustrative purposes only. Images are indicative only of the type of applications which may use a Bisalloy Steels product.

#### **Registered Trade Marks:**

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