

## BISALLOY® PROTECTION 360 STEEL

### Introduction

BISALLOY® PROTECTION 360 Steel is a quenched and tempered steel plate, possessing very good weldability, suitable for use in applications where high rates of shock loading and resistance to penetration by ballistic projectiles are required.

### Brinell hardness

Thickness (mm)	Specification	Typical
5 - 50 <sup>1</sup>	310-410 HB <sup>2</sup>	350 HB

### Mechanical properties

Property	Typical
0.2% Proof Stress	1040 MPa
Tensile Strength	1140 MPa
Elongation in 50 mm GL	16%
Charpy Impact (Longitudinal) - 40°C (10x10mm)	40 J

### Thickness tolerance

Thickness (mm)	Tolerance <sup>4</sup>
5 - 25	-0.0 + 1.0
>25 - 50	-0.0 + 1.2

### Test frequency

Per Plate	By Agreement
Hardness	Charpy (L), Charpy (T) Thickness, Tensile, Ballistic Properties, Product Analysis

### Fabrication

For advice on fabrication refer to relevant Bisalloy technical brochures.

Contact Bisalloy direct or visit [www.bisalloy.com.au](http://www.bisalloy.com.au)

\* Typical for 12mm plate

<sup>1</sup> Other thicknesses may be available on application

<sup>2</sup> Hardness range varies depending on thickness

<sup>3</sup> Minimum average energy will vary depending on hardness

<sup>4</sup> Tighter tolerance available by agreement

PLEASE NOTE: 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 whatsoever caused 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. Information is subject to change without notice. **Published October 2019**