

BISALLOY® PROTECTION 440 STEEL

Introduction

BISALLOY® PROTECTION 440 steel is a quenched and tempered steel plate combining high resistance to both shock and penetration, and is suited to both blast and ballistic protection. Some applications include cash-in-transit vehicles, armoured vehicles, infrastructure protection and ship and frigate protection.

Brinell hardness

Thickness (mm)	Specification	Typical
2.5 - 50 ¹	420-470 HB	450 HB

Mechanical properties

Property	Typical
0.2% Proof Stress	1110 MPa
Tensile Strength	1450 MPa
Elongation in 50 mm GL	12%
Charpy Impact (Longitudinal) - 40°C (10x10mm)	30 J

Thickness tolerance

Thickness (mm)	Tolerance ²
2.5 - 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

* Typical for 12mm plate

¹ Other thicknesses may be available on application

² 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 August 2020**