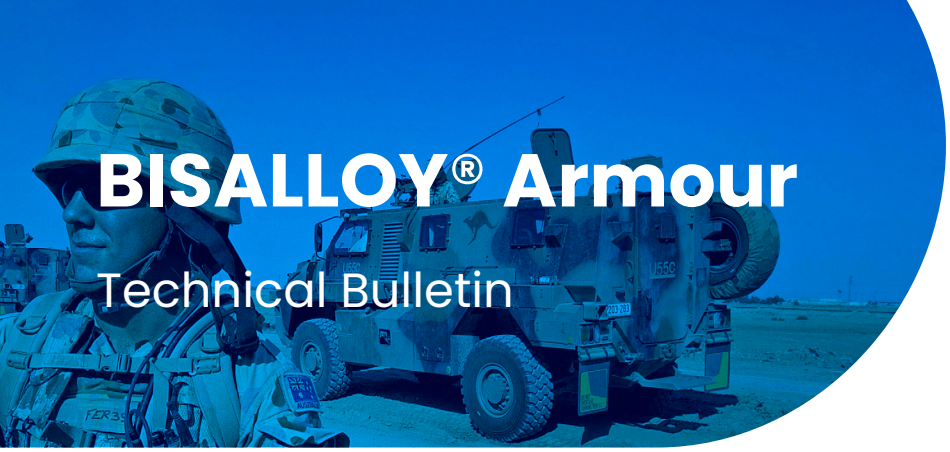

BISALLOY® Armour

Technical Bulletin

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BISALLOY® Armour Ballistic Performance Guide

14th July, 2026

STANAG 4569				Recommended BISALLOY® Armour Thickness (mm)		
Protection Level	Threat	Velocity (m/s)	Range (m)	Armour HHA500	Armour VHH550	Armour UHH600
LEVEL 1	5.56x45 NATO SS109	900±20	30	6.5	5.7	5.0
	5.56x45 NATO M193	937±20	30	8.5	7.0	5.7
	7.62x51 NATO Ball M80	833±20	30	6.0	5.7	5.0
LEVEL 2	7.62x39 API BZ	695+20	30	12.0	9.6	7.5
LEVEL 3	7.62x54R B32 API	854±20	30	16.0	14.0	12.0
	7.62x51 AP WC	930±20	30	20.0	-	-

EN 1522				Recommended BISALLOY® Armour Thickness (mm)		
Protection Level	Threat	Velocity (m/s)	Range (m)	Armour HHA500	Armour VHH550	Armour UHH600
FB4	.357 Mag FJ/CB/SC	430±10	5	3.0	-	-
	.44 Mag FJ/FN/SC	440±10	5	3.0	-	-
FB4+	7.62x51 NATO Ball M80	720±10	10	4.0	3.7	3.5
FB5	5.56x45 SS109	950±10	10	6.5	5.7	5.0
FB6	5.56x45 SS109	950±10	10	6.5	5.7	5.0
	7.62x51 NATO Ball	830±10	10	6.0	5.7	5.0
FB7	7.62x51 NATO AP	820±10	10	13.5	12.0	9.0

NIJ				Recommended BISALLOY® Armour Thickness (mm)		
Protection Level	Threat	Velocity (m/s)	Range (m)	Armour HHA500	Armour VHH550	Armour UHH600
II	9mm FMJ	385±12	5	2.0	-	-
	.357 Mag JSP	425±15	5	2.5	-	-
IIIA	9mm FMJ	426±15	5	2.0	-	-
	.44 Mag JHP	426±15	5	2.5	-	-
III	7.62x51 NATO Ball	838±10	15	6.0	5.7	5.0
IV	.30 M2AP	868±15	15	14	12.0	9.6

The tables above are to be used as a guide only. The information is of a general nature and should not be used as specific advice on the products or suitability of the products for any customer. The suggested plate thickness values are based on ballistic testing of BISALLOY® Armour grades carried out at room temperature by third-party bodies & modelling.

Bisalloy has made every effort to ensure that the information is accurate as at the time of publication, but each customer should rely on its own enquiries and expertise to determine the suitability of the products and suggested plate thickness. For the avoidance of doubt, each customer is responsible for, including but not limited to, carrying out verification of plate thickness, determining the appropriateness of drawing conclusions based on the suggested plate thickness, and assessing any potential risks associated with it.

Bisalloy shall not in any way be held liable for any loss or damage, whether direct or indirect, suffered as a result of any error or omissions in the information provided, including the suggested plate thickness and how they are being interpreted, used, relied on, and applied or likewise.

If required, please get in touch with Bisalloy for further discussion or clarification.

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