

TECHNICAL SPECIFICATIONS



CALIBER AV2 STAND ALONE RIFLE PLATE

STAND ALONE MULTI-CURVE BALLISTIC INSERT

W/PolyShield ANTI SPALL COATING

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NIJ-STD-0101.07 (draft) R2

SHOOTERS CUT - HARD ARMOR - TORSO PANEL MULTI-CURVE

THINNESS: .5 in (12.7 mm) WITH PolyShield ANTI-SPALL COATING

PART NUMBER	WIDTH x LENGTH	WEIGHT
AV2-1012-SPC	10 x12 <small>254 x 305 mm</small>	7.2 lb <small>3.26 kg</small>
AV2-1114-SPC	11 x 14 <small>279 x 356 mm</small>	8.5 lb <small>3.85 kg</small>
AV2-1012S-SPC	10 x12 <small>254 x 305 mm</small>	7.75 lb <small>3.51 kg</small>



MANUFACTURING TOLERANCES SPC PLATES:
Thickness dimensions are +.1/16 in. Width and length dimensions are +0.00 to 0.25 in. All weights are +- 5% on SPC plates.

THREAT PERFORMANCE MATRIX

SHOTS PER ROUND	PROJECTILE	SPEED	SPEED SPEC
6	7.62 x 51mm M80 FMJ *	3,000 ft/s <small>914.4 m/s</small>	2,780 ft/s <small>847.3 m/s</small>
3	7.62 x 39mm MSC **	2,500 ft/s <small>762 m/s</small>	2,380 ft/s <small>725.4 m/s</small>
3	5.56 x 45mm XM193 BT **	3,300 ft/s <small>1006 m/s</small>	3,250 ft/s <small>990.6 m/s</small>
3	5.56 x 45mm M855 BT ***	3,300 ft/s <small>975.36 m/s</small>	3,115 ft/s <small>949.4 m/s</small>
1	5.56 x 45mm M855 - A1 *+*	3,000 ft/s <small>914.4 m/s</small>	
1	7.62 x 54mm R *+*	2,800 ft/s <small>853.4 m/s</small>	

*NIJ 0101.06 LEVEL III THREAT | **NIJ 0101.07 DRAFT LEVEL RF1 THREAT
***NIJ 0101.07 DRAFT LEVEL RF2 THREAT | *+* SPECIAL THREAT

CALIBER ARMOR BALLISTIC RESISTANCE TESTING PROTOCOL:

All testing was conducted on an indoor range at ambient conditions, in accordance with our instructions and the modified provisions of:

NIJ-STD-0101.07 DRAFT, RF2. Testing was conducted using caliber 7.62 X 39mm Surrogate, 123 grain, 5.56mm, M855 BT, 62 grain, 7.62 X 51mm, M80 Ball, 149 grain, and 5.56mm, M193, 56 grain ammunition. The test samples were positioned 25 feet from the muzzle of the barrel to produce zero (0°) degree obliquity impacts. Photoelectric infrared screens were located at 10.20 feet and 15.53 feet which, in conjunction with electronic chronographs, were used to compute bullet velocities at 12.86 feet forward of the muzzle. The striking velocity was computed using standard drag formulas. Penetrations are determined by visual examination of the 5.5-inch-thick clay backing material. Back-face signature was measured using a calibrated digital depth gauge.

GENERAL INFORMATION

Caliber Armor AV2 Body Armor design made with ultra-hard alloy. Multi-shot rated. Finished with PolyShield anti-spall coating. Made in Louisville, Kentucky, U.S.A

NIJ STANDARD 0101.07 Draft RF2 Tested and verified to meet ballistic resistance as specified under NIJ Standard-0101.06 Level III, 0101.07 RF1, and 0101.07 RF2 plus special threats tested. All testing performed at Oregon Ballistic Laboratories. Official lab tests available upon request.

EXPORT CONTROL ADVISORY

Model AV2 is subject to the Export Administration Regulations (EAR). It may not be sold or otherwise provided to any non-U.S. Person and/or exported or re-exported without a valid U.S. Department of Commerce BIS Export License, or applicable EAR license Exception.



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DISCLAIMER

The information contained in this document is intended solely to provide general guidance. The right is reserved to make changes to this document without notice at any time. Nothing in this document (i) constitutes an offer, representation, warranty, term or condition or (ii) is a substitute for the need to employ adequate independent technical expertise and judgment.

QUALITY STANDARDS

Caliber Armor operates a documented quality management system to ensure the highest caliber armor available. Raw materials are tested prior to production and finished products are tested in accredited ballistic laboratories.