TECHNICAL SPECIFICATIONS

AR550 STEEL ARMOR

STAND ALONE MULTI-CURVE BALLISTIC INSERT

NIJ-STD-0101.06 Level III+

THINNESS: .25" (6.35 mm) STANDARD

SHOOTERS CUT - HARD ARMOR - TORSO PANEL
MULTI-CURVE

PART NUMBER	WIDTH x LENGTH	WEIGHT
AR550-1012	10 x 12 in (254 x 305 mm)	7.5 lb (3.401 kg)
AR550-0810	8 x 10 in (203 x 254 mm)	4.9 lb (2.222 kg)
AR550-1114	11 x 14 in (279 x 356 mm)	8.7 lb (3.946 kg)

MANUFACTURING TOLERANCES SPC PLATES:
Thickness dimensions are +-1.03 in. Width and length dimensions are +0.00 to 0.05 in. All weights are +- .05% on SPC plates.

THREAT PERFORMANCE MATRIX

MODEL NUMBER	LEAD CORE			
	7.62 x 51mm M80 Ball - FMJ Max Velocity 2780 ft/s (847 m/s)	7.62 x 39mm 120.5 gr* Max Velocity 2380 ft/s (725 m/s)	5.56mm M193 BT Max Velocity 3150 ft/s (960 m/s)	5.56mm M855 BT* Max Velocity 3115 ft/s (949 m/s)
AR550-1012	6	6	6	6

* NIJ LEVEL RF2 THREAT

CALIBER ARMOR BALLISTIC RESIISTANCE 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-0101.06, Level III. Testing was conducted using caliber .7.62 x 51mm, M80 Ball, 149 grain ammunition. The test sample was positioned 25 feet from the muzzle of the barrel to produce zero (0°) 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 witness plate. Back-face signature was measured using a calibrated digital depth gauge.
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 AR550 Body Armor design made with AR550 ballistic steel. Multi-shot rated. Finished with either a standard coating to avoid corrosion or our specially formulated Anti-Spall Protective Coating developed by Caliber Armor. Made in the U.S.A

NIJ STANDARD-0101.06 III and 0101.07 Draft RF2
Tested and verified to meet ballistic resistance as specified under NIJ Standard- 0101.06 plus special threat tested to the new draft ballistic NIJ Standards of 0101.07 RF2

EXPORT CONTROL ADVISORY
Model AR550 may be 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.

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 credited ballistic laboratories.

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