

# TECHNICAL SPECIFICATIONS

## AR550 STEEL ARMOR

### STAND ALONE MULTI-CURVE BALLISTIC INSERT

NIJ-STD-0101.06 Level III+ and Special Threats



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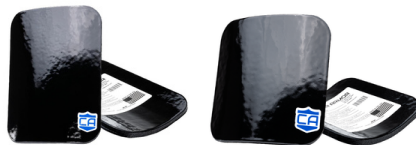
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THINNESS: .25" (6.35 mm)

SHOOTERS & SAPI STYLE CUT - HARD ARMOR

TORSO MULTI-CURVE & SIDE CURVED PLATE OPTIONS

PART NUMBER	WIDTH x LENGTH	WEIGHT
AR550-1012	10 x 12 254 x 305 mm	7.8 lb 3.59 kg
AR550-0810	8 x 10 203 x 254 mm	5 lb 2.33 kg
AR550-1114	11 x 14 279 x 356 mm	9.3 lb 4.25 kg
AR550-1012S	10 x 12 254 x 305 mm	8.5 lb 3.86 kg
AR550-0608	6 x 8 152 x 203 mm	3.6 lb 1.66 kg
AR550-0606	6 x 6 152 x 152 mm	2.7 lb 1.23 kg



MANUFACTURING TOLERANCES SPC PLATES:

Thickness dimensions are +1/16 in. Width and length dimensions are +0.00 to 0.10 in. All weights are +/- 5%

**Made in the U.S.A**

### THREAT PERFORMANCE MATRIX

PROJECTILE	SPEED
<b>7.62 x 51mm M80 Ball - FMJ</b>	<b>2,780 ft/s</b> 847.34 m/s
<b>7.62 x 39mm MSC</b>	<b>2,437 ft/s</b> 742.79 m/s
<b>5.56 x 45mm M193 - BT</b>	<b>3,069 ft/s</b> 935.43 m/s
<b>5.56 x 45mm M855 BT *</b>	<b>3,124 ft/s</b> 952.19 m/s

#### 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-0101.06, 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.

**SPECIAL THREAT TESTING.** 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 standard coating to avoid corrosion. Made in the U.S.A

NIJ STANDARD-0101.06 III

Tested and verified to meet ballistic resistance as specified under NIJ Standard- 0101.06 plus special threat tested

#### 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

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#### 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.