



LEVEL IV BODY ARMOR PLATE



MIRA Safety's Level IV Body Armor Plate offers the highest grade of individual ballistic protection and features only the most durable materials and manufacturing techniques.

Tested to NIJ standards at a US laboratory, our Level IV Body Armor range includes single curve, shooter's cut 10" x 12" ESAPI armor plates and 6" x 6" or 6" x 8" side plates. Our hybrid armor offers enhanced range of motion and protects the wearer from small arms calibers up to and including armor-piercing high-powered rifle rounds in 5.56, 7.62, .308, and .30-06.

KEY FEATURES OF THE LEVEL IV ARMOR PLATE

- ✓ Standard 10" x 12" Level IV plate in the single-curve shooter's cut to fit a wide variety of plate carriers
- ✓ Optional 6" x 6" (1.7 lbs.) and 6" x 8" (2.2 lbs.) side plates fit most standard plate carriers and cummerbunds
- ✓ Edge to edge surface area protection
- ✓ Anti-spall properties of the ballistic ultra-high molecular-weight polyethylene (UHMWPE) ensure the plate absorbs bullet fragments rather than them expanding outwards and injuring the wearer's face or limbs
- ✓ At just .9" thick and only 5.9 pounds, it is lighter than some Level III plate configurations
- ✓ Incredible protection against common small arms calibers and even armor piercing 5.56, 7.62, .308, and .30-06 rounds
- ✓ Extensively tested at a US laboratory in accordance with NIJ standards for Level IV armor
- ✓ 10-year warranty for long-term protection
- ✓ Assembled in the USA



LEVEL IV BODY ARMOR PLATE

THE HIGHEST LEVEL OF INDIVIDUAL BALLISTIC BODY ARMOR PROTECTION

MIRA Safety's polyceramic blend armor makes absolutely zero compromises in terms of quality or reliability. We've used the most advanced methods and materials to deliver a lightweight practical solution for everyone, from first-time buyers to those seeking to upgrade. Our plates can withstand multiple rounds of armor-piercing ammunition. These lightweight ballistic plates are easy to deploy and provide outstanding life-saving protection.

The key to our Level IV Body Armor's lightweight strength lies in the combination of alumina oxide ceramic (Al₂O₃) and ultra-high-molecular-weight polyethylene (UHMWPE), both of which are lighter and more durable than steel. After fabrication, the plates are shaped to the standard 10" x 12" size used for most plate carriers, with a standard shooter's cut for improved comfort in addition to 6" x 6" and 6" x 8" side plates variants.

TECHNOLOGY FOR PROTECTION, UTILITY, & COMFORT

Oregon Ballistic Laboratories conducted Ballistic Resistance (V₀) testing in accordance with NIJ-STD-0101.06 Level IV. The testing was performed in an indoor range with the muzzle of the test barrel mounted 25 feet from the target and positioned to produce 0-degree obliquity impacts. Four infrared light screens, in conjunction with time-based frequency counters, were positioned such that projectile velocity was measured 8.25 feet from the target. Penetrations were determined by examination of a 5.35-inch clay block mounted behind the test sample. The results of this testing are summarized in the following table.

Test Sample			Ballistic Threat			Results		
OBL No.	Serial No:	Weight (lbs.)	Projectile	Shots	Velocity (fps)	Penetration	BFD (mm)	Pass/Fail
26182	N/A	5.98	.30cal M2 AP	1	2879	0	37.38	<u>PASS</u>

OUR BALLISTIC PE SPECS

Continuous unidirectional (UD) fabric is manufactured with an Ultra-High Molecular Weight Polyethylene fiber based on composite laminate. A roll of fabric consists of double-two fibers of unidirectional sheet cross piled at 90 degrees to each other, with a special adhesive rubber and flue film. The US fabric has high strength and high modulus, and is resistant to corrosion, acid, alkali, UV light, and moisture.

Therefore, it can be widely applied to bulletproof products, ballistic and anti-stab products, ballistic armor plates, etc.

Areal Density:	240 (±2.5) g/m ²
Strength:	≥38 g/d
Modulus:	≥1300 g/d
Strands:	240
Monofilament Fitness:	2.5
Elongation at break:	≈2.8
Shrinkage:	<1%
Melting Mass Temperature:	144-152 °C

AVAILABLE PLATES:

Model	Size	Weight
MT-LVL4	10"x12"	5.9 lbs.
MT-LVL4-SP1	6"x6"	1.7 lbs.
MT-LVL4-SP2	6"x8"	2.2 lbs.

STORAGE

UHMWPE plates must not be exposed to temperatures higher than 150°F for prolonged periods. Extended exposure to extreme heat can potentially compromise the plate's integrity and reduce its protective abilities. It's unlikely that you will encounter temperatures that high, but it's best to store your armor in a cool, dry, dark place away from high heat.

