

AMI triple curve SAPI-3 compressed polyethelene (Dyneema) LE plate test.

The 10 x 12 plate weighed 3.0 lbs (*compared with the 7.5 lbs weight of the AMI TAC3S plate*).
The AMI SAPI-3 is not yet an NIJ rated plate, but was constructed to provide protection from level III threats.

In testing, the plate was placed over a Level IIIa soft armor panel and secured against a life-size curvilinear torso replica made of Perma-Gel. In this test, all shots were made at a perpendicular angle to the plate, with no oblique hits. All test shots were made from a range of 3 meters. An average velocity of the ammunition from each box of the different cartridge types was previously calculated using an Oehler Model 35 chronograph and three Skyscreen II photoelectric screens placed at 2 foot intervals beginning 3 feet from the muzzle.

Test results from the 14 shots fired:

- .308 Win: 5 shots of Federal 150 gr FMJ fired at an ave velocity of 2754 fps were successfully stopped by the plate.
- 5.56 mm: 5 shots of Federal 55 gr XM193 FMJ fired at an ave velocity of 2998 fps were successfully stopped by the plate.
- 5.56 mm: 3 shots of LeMas 40 gr "Urban Warfare" fired at an ave velocity of 3721 fps were successfully stopped by the plate.
- 5.56 mm: 1 shot of Winchester 62 gr M855 FMJ fired at an ave velocity of 2959 fps fully perforated the plate.

*All shot results were consistent with manufacturer claims and previous tests of compressed polyethelene level III armor plates.
It is recommended that level IIIa soft armor be worn under this plate.*

It is critical to be aware that this armor does NOT provide protection against 5.56 mm M855 62 gr FMJ "green-tip" ammunition !



Front pre-shoot



Front post-shoot



Back post-shoot



Back opened post-shoot