

UNIT Solutions commissioned National Technical Systems (NTS), an experienced independent product testing firm based in Camden, AR, to complete glass and skin penetration testing utilizing the UNIT4 and its non-lethal 8mm marking and non-marking rounds. The purpose of the testing was to establish baseline performance metrics for the UNIT4 training system to determine recommendations on how and where the system could be deployed.

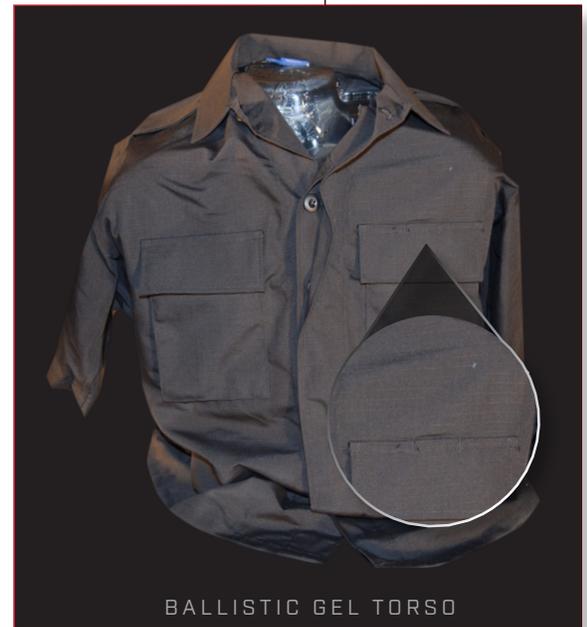
## SKIN PENETRATION TESTING

**The Test Medium** › Ballistic gel torso that meets FBI protocol for calibrating ballistic gelatin to match human tissue. It can be assumed that any shots that tore or penetrated the torso would also penetrate human skin.

**The Process** › NTS set up a test rig at distance intervals of 5, 15 and 25 feet away from the ballistic gel torso. At each interval five consecutive shots were fired at the torso from two different UNIT4 training rifles. The full test protocol was repeated a second time placing a battle dress uniform over the gel torso. Both marking and non-marking rounds were fired.

**The Results** › At each distance interval, every test shot ricocheted off the gel torso, with and without the battle dress uniform covering it. Zero of the 60 total shots fired during testing penetrated the torso.

**The Takeaway** › The UNIT4 offers a force-on-force training system that allows military and law enforcement professionals to train without unrealistic bulky gear that normally would not be worn in the field. Recommended safety gear includes only eye, mouth, and groin protection.



## GLASS PENETRATION TESTING

**The Test Medium** › Various sizes of plate glass at 1/8, 3/16 and ¼ inch thicknesses, and a ¼ inch piece of laminated glass. Plate glass is substantially weaker than the laminated or tempered glass required by building codes in facilities such as schools, airports, office buildings, malls and movie theaters.

**The Process** › NTS set up a test rig at distance intervals of 5, 15 and 25 feet away from the glass and fired three consecutive shots at each interval from two different UNIT4 training rifles. Both marking and non-marking rounds were fired.

**The Results** › At each distance interval and across BOTH glass types, the UNIT4 rounds ricocheted off the glass. Over the course of 72 combined shots there were no visible signs of damage to any piece of glass.

**The Takeaway** › The UNIT4 provides a versatile training solution that will allow skills and situational awareness to be tested in authentic environments off the range and outside the shoot house, such as in schools, malls, churches, theaters, airports, train stations, and a variety of other outdoor and indoor settings.

