



6.5x25 CBJ HET against windshield and gelatin

Purpose:

This test is based on test event 6 in the FBI Ammunition Test Protocol, which simulates a target sitting in the front seat of a car.

Test setup:

A windshield was set up according to Test Event 6 of the FBI Ammunition Test Protocol, which means it was inclined 45° vertically and 15° to the left and offset 45cm from the main target, which consisted of a 10% ordnance gelatin block, shot at 4°C.

The dimensions of the block are: Length (Firing direction): 340mm, Height: 200mm, Width: 250mm. The range was 8m.

One 6.5x25 CBJ HET round was fired at the target, V_0 : 831m/s.

Results:

The deflection of the bullet was minimal; the bullet struck the gelatin block in the center even though the placement of the latter did not compensate for the windshield. The entire block of gelatin was penetrated, meeting the FBI requirement of a minimal penetration of 12 inches (ca 30cm).

Pictures of the test can be studied below.

Comments:

The tests against automobile windshield glass are generally considered the toughest of the FBI test protocol. This is because a lead-core bullet sheds much of its energy to penetrate this barrier and is generally heavily deformed and/or partly broken up when hitting the gelatin.

The difference with this test compared to the FBI test is that the "light clothing" was lacking in this case, and the range was increased from the stipulated 10 feet (ca 3m) to 8m.



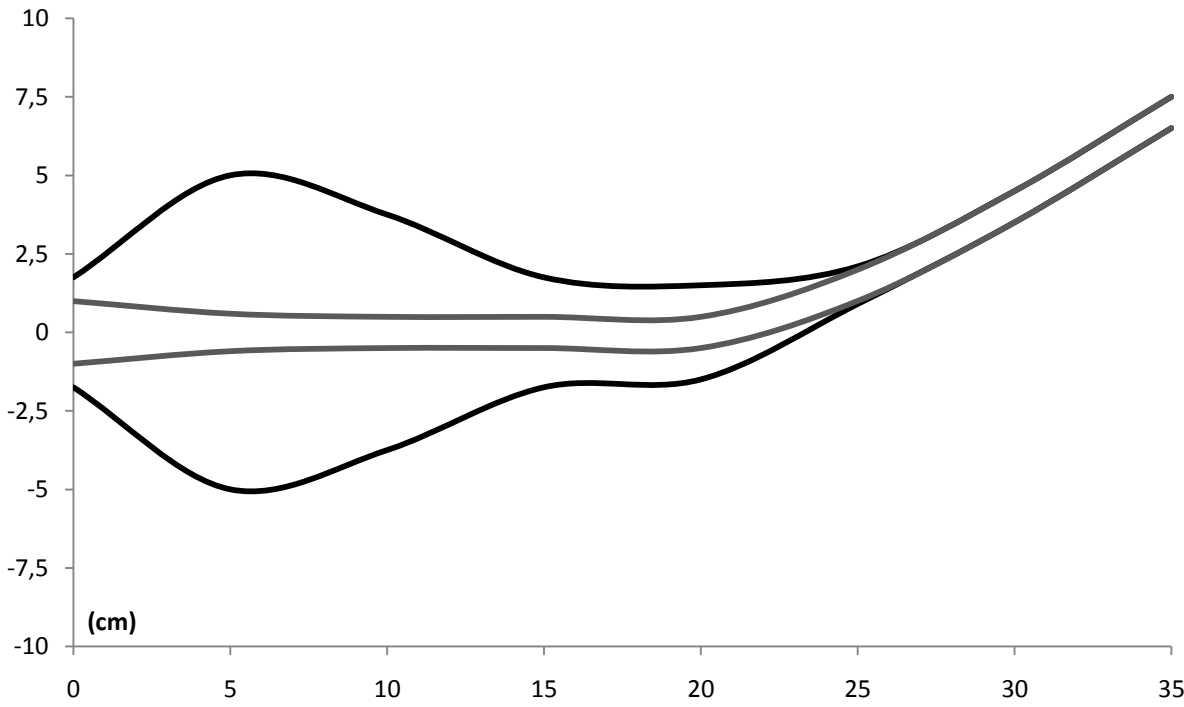
The bullet hole in the windshield.



The face of the gelatin block. The distance between the point of aim and the point of impact is very small.



The gelatin block. The firing direction is from left to right.



The Wound Profile.