



6.5x25 CBJ Frangible against gelatin

Purpose:

This test will demonstrate the effect in bare gelatin of the 6.5x25 CBJ Frangible at close range as well as at full intended combat range.

Test setup:

The target is: 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 is 8m.

One gelatin block was shot with a round from a 300mm barrel. A second block was shot with a reduced charge simulating a greater range.

Results:

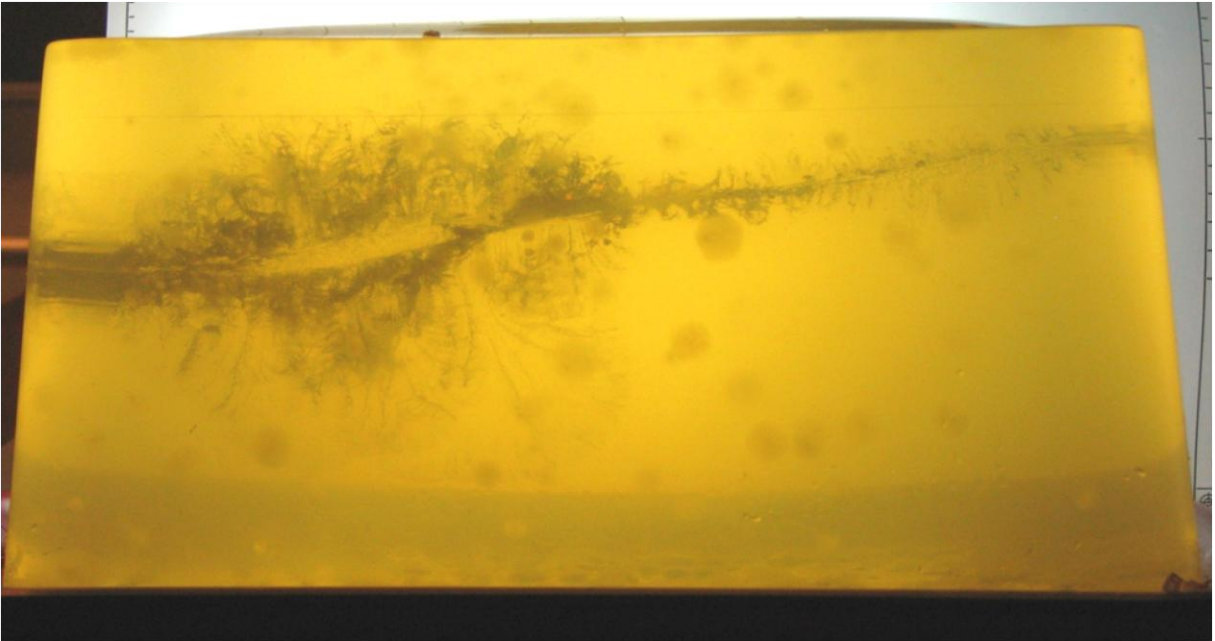
Shot 1: V_0 : 904m/s. This shows the effect of a carbine at a range of 8m.

Shot 2: V_0 : 628m/s. This shows the effect of a pistol (150mm barrel) at 40m, a submachine gun (200mm barrel) at 45m and a carbine (300mm barrel) at 60m.

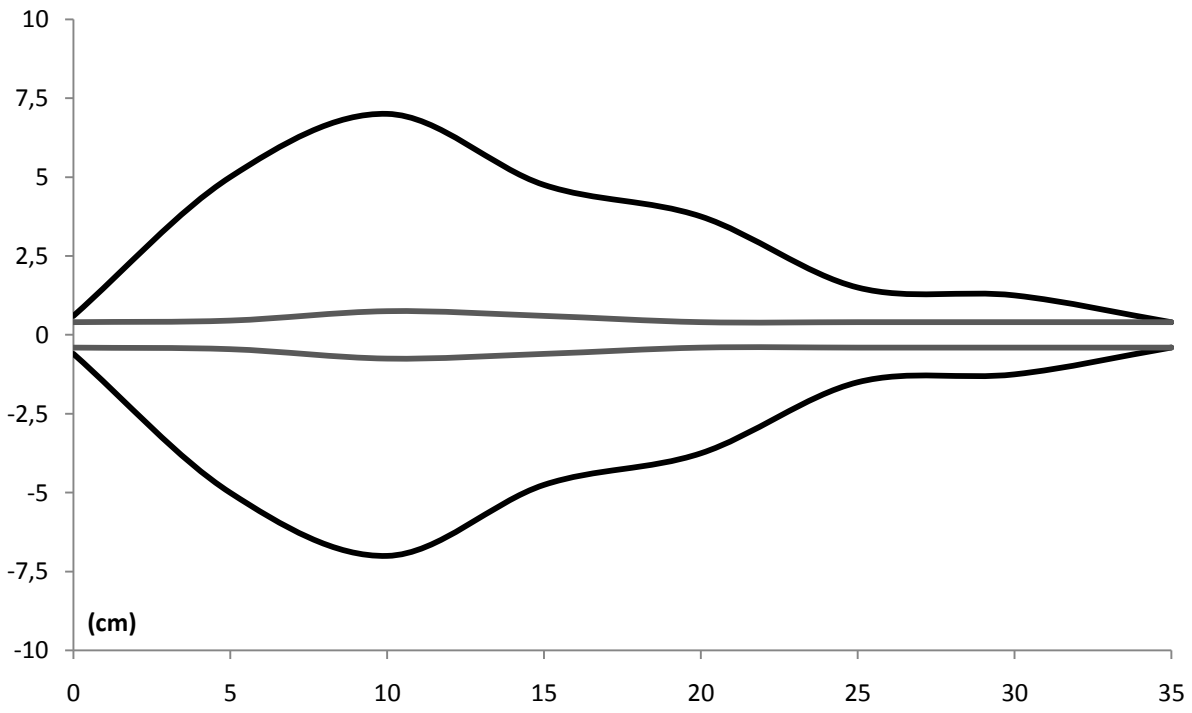
Comments:

The first thing to observe is that within the entire intended combat range, the bullet has the necessary penetration to reliably incapacitate. Also, especially at close range, it produces a large temporary cavity which greatly increases the chance of a more rapid or instant incapacitation.

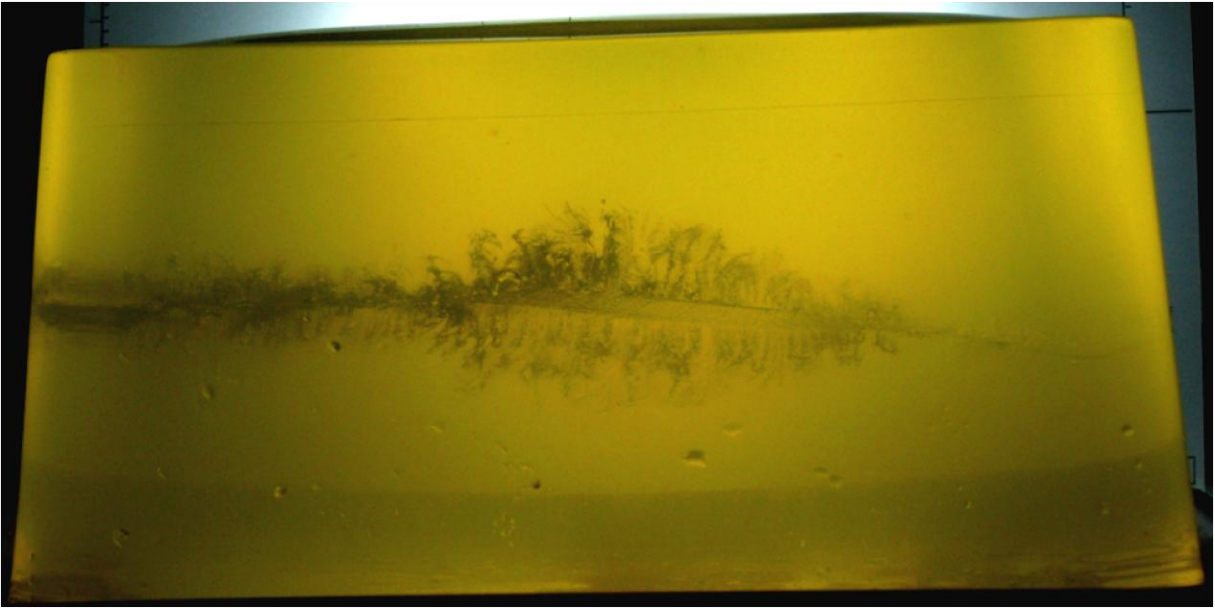
Note that the HET bullet, being of the same shape and mass, has the same characteristics.



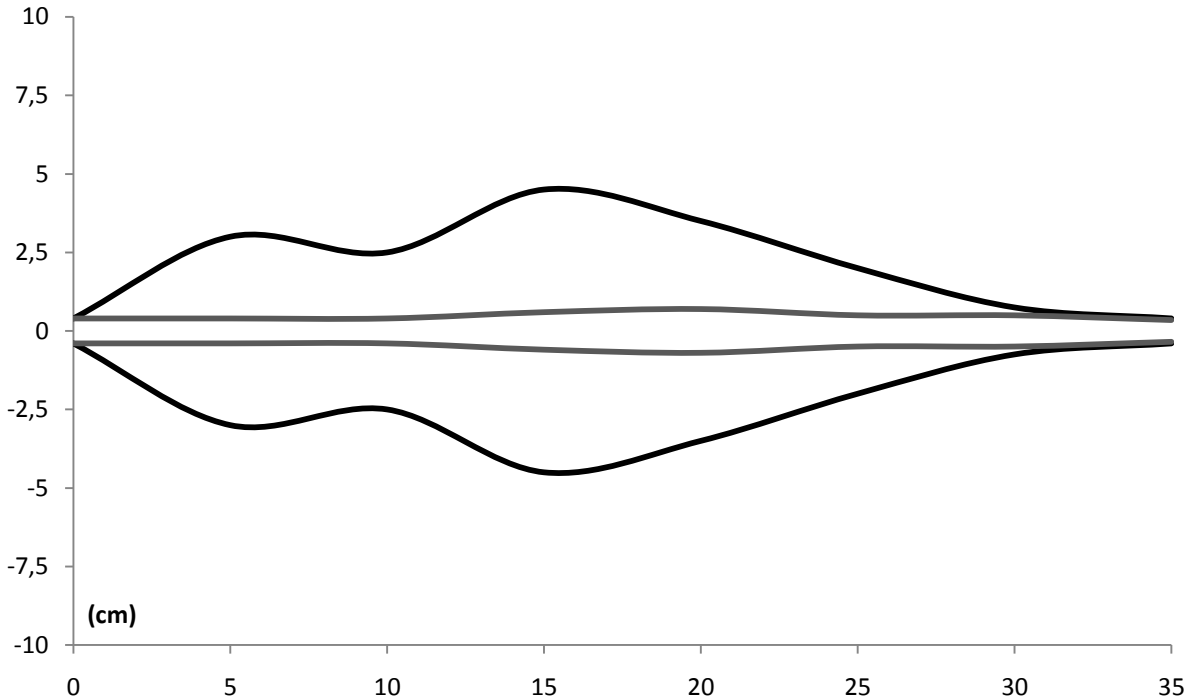
The gelatin block for shot 1, V_0 : 904m/s. The contamination (spots) on the block is irrelevant to the test. The firing direction is from left to right.



The Wound Profile of shot 1.



The gelatin block for shot 2, V_0 : 628m/s. The firing direction is from left to right.



The Wound Profile of shot 2.