



6.5x25 CBJ Ball against CRISAT and gelatin

Purpose:

In this test, the effect of the 6.5x25 CBJ Ball/ST will be studied when fired at a target carrying body armor.

Test setup:

The target is the NATO CRISAT, which consists of a 1.6mm grade 5 Titanium plate and 20 layers of Kevlar, in front 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 Ball round was fired at the target, V_0 : 847m/s.

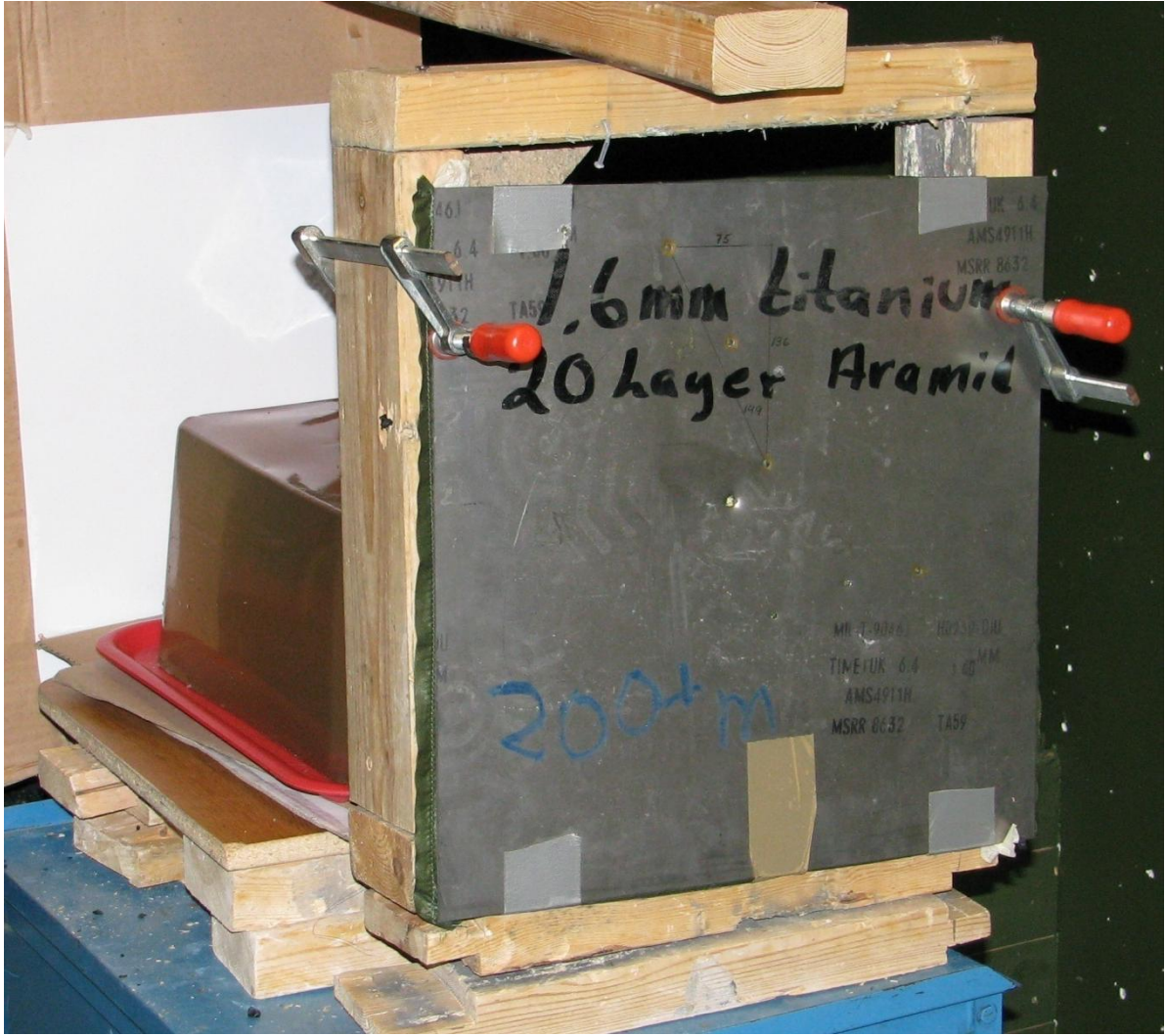
Results:

Both the CRISAT-panel and the gelatin block were completely penetrated. The effect can be studied in the figures below.

Comments:

In all penetration tests it is important not only to see if a projectile can penetrate a certain barrier, but also to study what effect the bullet has after it has done this.

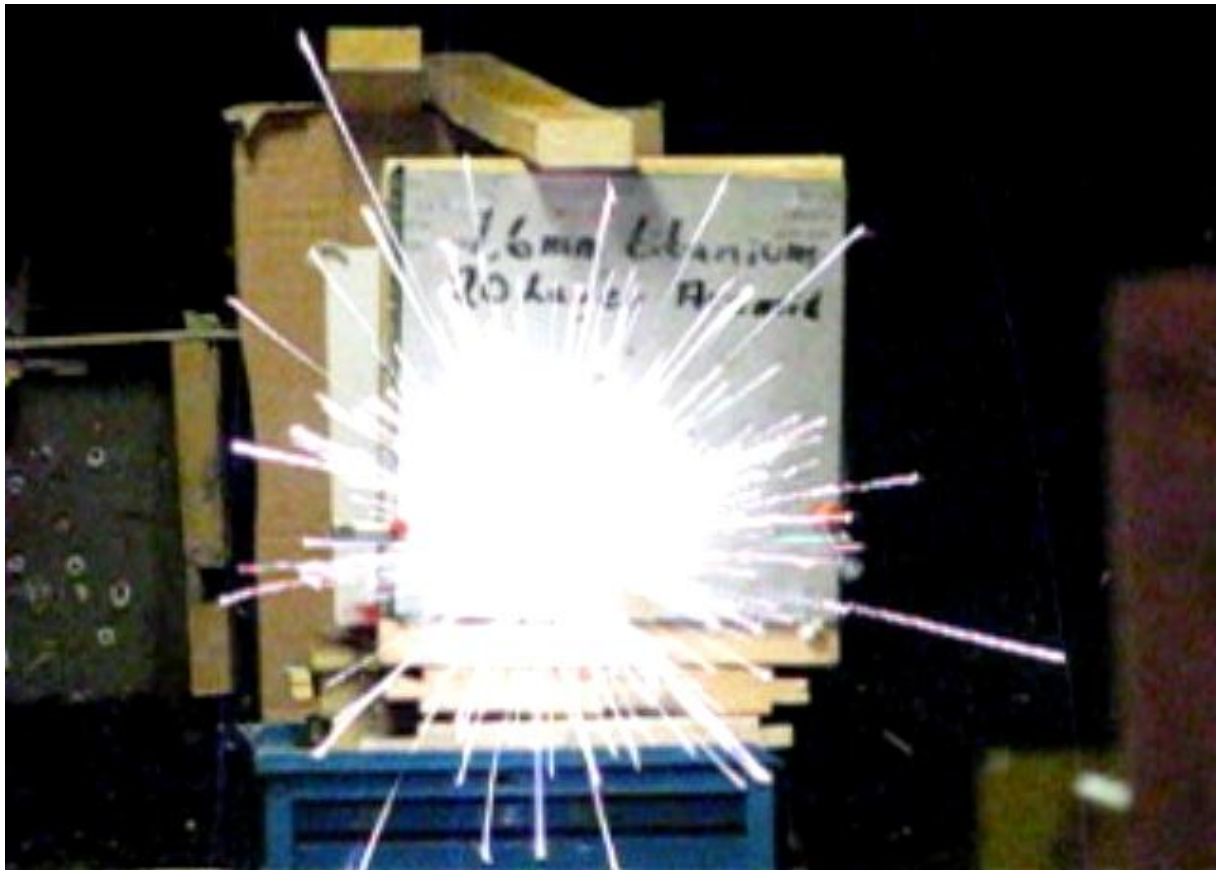
As is evident from the material below, the 6.5x25 CBJ Ball/ST is highly effective after defeating the body armor, and produces a substantial temporary cavity all along its path.



The target before the shot.



The bullet hole in the CRISAT-panel.



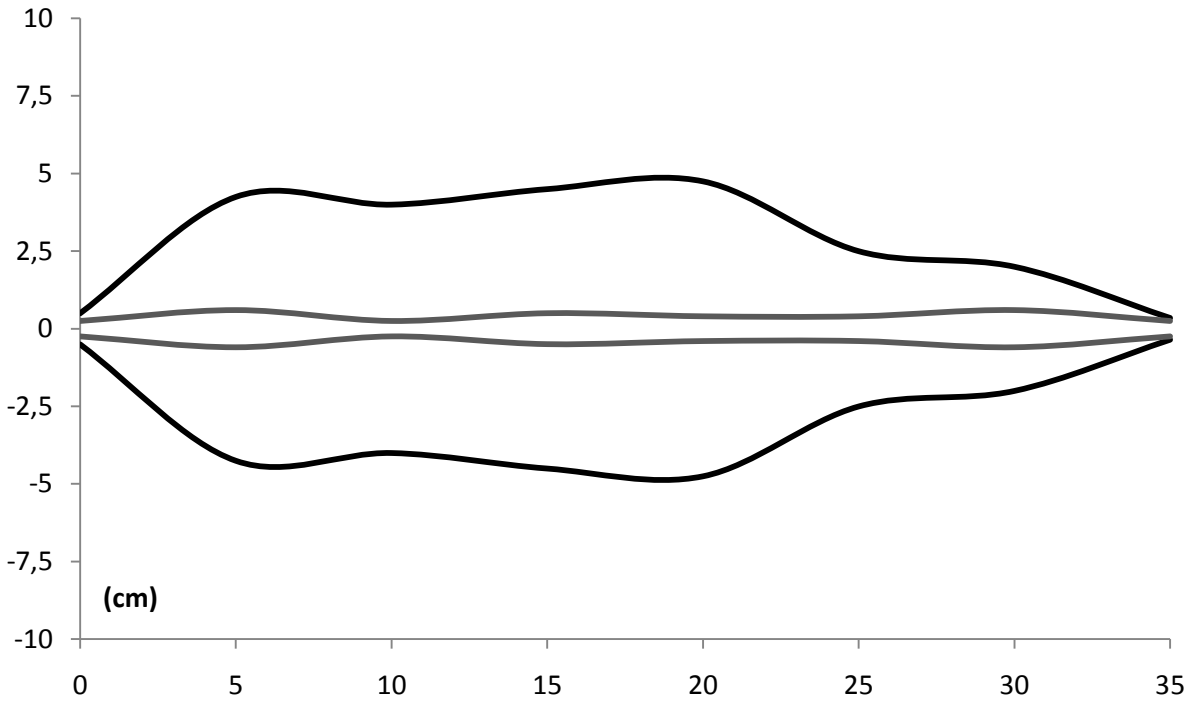
The target at the moment of impact.



The target after the shot.



The gelatin block after the shot.



The Wound Profile of the shot. The bullet is clearly effective at all points of its path. The large volume of the temporary cavity indicates that the bullet used little of its energy to penetrate the body armor.