



## Fortis '47' Plate

### TEST RESULTS

<b>Fortis '47' Plate Test Results</b>	<b>Test Sample Construction:</b> Ceramic plate inserted into Fortis body armour pack.		
<b>Test-site Conditions:</b> Air temp: 18°C Humidity: High	<b>Weight:</b> Plate: 2.1kg Pack: 1.3kg	<b>Size:</b> 25cm x 30cm 40cm x 40cm	<b>Areal Density:</b> Plate: 28kg/m <sup>2</sup> Pack: 7.6kg/m <sup>2</sup>
<b>Test Standard:</b> NIJ IV. The test sample was mounted upon conditioned Roma Plastilina clay.			

Shot	Ammunition	Angle of Shot	Velocity (Metres/second)	Energy (Joules)	Result
1	5.56x45 NATO BALL	0°	941	4250.3	Bullet stopped in plate.
2	ditto	0°	944	4277.5	Bullet stopped in plate.
3	ditto	0°	948	4313.8	Bullet stopped in plate.
4	5.56x45 NATO SS109	0°	953	4359.4	Bullet stopped in plate.

Armour plates in combat normally do not get hit with more than one shot. To be hit by two shots is exceptional; three is extremely rare; four has never been recorded to our knowledge.

Shots 1, 2 and 3 in our test were with a standard NATO 'Ball' round comprising a hard lead core and full metal jacket.

Shot 4 was with the high-performance NATO 'SS109' round comprising a hard lead core and steel penetrator. This round also has a full metal jacket. While this round also is called 'Ball', it is very unusual in having a steel penetrator in its tip and is not an easy round to defeat.

All four rounds were stopped in the plate. The backface of the plate was deformed behind the impact point of each shot. The soft armour pack behind was undamaged. It is likely that the plate would have stopped further shots.

This plate has frequently been successfully tested using extremely severe AK47 armour-piercing ammunition.

The wearing of body armour does not guarantee protection from all types of threats that may be encountered. It is the responsibility of the purchaser to ensure that the product specified is satisfactory for the intended purpose. Kempton's expertise is at your service, with specific threat testing and proven solutions.

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