



Wiltshire Ballistic Services Ltd

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Certificate No. FS 40476

Wiltshire RFD 228

Trial no: 3431a

Runflat International Ltd
Gawne Lane
Cradley Heath
West Midlands
B64 5QY

FAO Trevor Chandler

13th October 2010

BALLISTIC TEST REPORT

This test was carried out to determine the effects of 7.62x39mm LPS ball mild steel core rounds on part RFI-201.

Both samples allowed the rounds to pass straight through, causing no visible damage to the surrounding areas at Wiltshire Ballistic Services Ltd on the 5th of October 2010.

The results contained in this report are only valid for the samples tested and detailed above. The publication of these results in any abridged form is **not** allowed without approval by Wiltshire Ballistic Services Ltd. in writing.

Signed:

Prepared by: E Petrou

Approved by: P Holmes

Date: 13th October 2010

THE TRIAL

Report/trial number	3431a
Test date	5 th October 2010
Report prepared by	E M L Petrou
Trial commissioned by	Runflat International Ltd
Manufacturer of sample	Runflat International Ltd
Sample designation	RFI-201
Sample temperature	Ambient
Calibre of test rounds	7.62x39mm
Bullet type	LPS ball mild steel core
Bullet make	Czechoslovakian
Test gun	Universal Receiver
Muzzle to target distance	10m
Distance of detectors from muzzle	7.5m
Range temperature	17.9°C
Relative humidity	82%
Range pressure	990mBar

RANGE EQUIPMENT & CONFIGURATION

THE GUN

All rounds were shot from a track mounted laser-sighted Universal Receiver fitted with the appropriate barrel to give both projectile stability and the required velocity.

VELOCITY MEASUREMENT

The projectile velocity is measured using optical sky screens, with 1.0m separation, positioned on a track-mounted housing fitted with D.C. light sources to detect the passage of the projectile. The optical sky screens are connected to an electronic timing unit and velocity calculating computer, each unit being calibrated and certified in accordance with the manufacturer's requirements. The accuracy of the velocity measurement equipment has been calculated to be 0.17% overall.

NOTE: Unless otherwise stated, projectile velocity is measured at a point 2.5m from the attack face of the sample under test.

SAMPLE HOLDER

The track mounted sample holder trolley is of heavy steel construction to form a rigid mounting into which various specialised sample holders can be fitted to meet a multitude of different testing standards. Provision is also made to allow for turning samples to predetermined angles for angled attacks.

WITNESS SYSTEM

No witness was used for this trial.

PROJECTILE STABILITY

Where necessary the projectile stability was tested by firing the rounds through a test/witness panel set-up in the same place as the sample to be shot.

SHOT PLACEMENT

All firing is carried out using a laser-sighted Universal Receiver. Accuracy tends to be far better than would usually be the case when hand-held weapons are used. Therefore, unless otherwise stated, all shots have hit the sample in the required pattern and with the required spacing.

TEST RESULTS

The test results for these tests are contained in ANNEX A to this report.

ANNEX A**RESULTS****Sample 1, RFI-201, VV670255165**

7.62x39mm LPS ball MSC Czech

Factory velocities

Shot No.	Velocity (m/s)	Sample Held or Penetrated	Trauma code	Comments / Assessment
1	743.6	Penetrated	W	Very small entry and exit holes, no other visible damage
2	736.8	Penetrated	W	Very small entry and exit holes, no other visible damage
3	741.0	Penetrated	W	Very small entry and exit holes, no other visible damage

Sample 2, RFI-201, VV670255165

7.62x39mm LPS ball MSC Czech

Factory velocities

Shot No.	Velocity (m/s)	Sample Held or Penetrated	Trauma code	Comments / Assessment
1	742.3	Penetrated	W	Very small entry and exit holes, no other visible damage
2	747.8	Penetrated	W	Very small entry and exit holes, no other visible damage