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*Obtainable upon request from the Chief Executive Officer, SABS, Private Bag X191, Pretoria, 0001.

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Ballistic Testing of Body Armour SANS 1658:2007 Level III Special (S.A. Mix) – Partial

1. TEST SAMPLES

- 1.1. Hun Tool & Projects / Liquid Bullet supplied a SAMAT Model 600 body armour panel for ballistic testing.
- 1.2. The armour was a hard armour module in standalone configuration.
- 1.3. The sample passed the ballistic criteria.

2. TEST ARRANGEMENT

- 2.1. The test was done at the SABS ballistics laboratory on 4 March 2014.
 - 2.2. The armour was tested to the requirements of SANS 1658:2007 for Level III Special (S.A. Mix). The sample was not tested to the full requirements of the specification due to the unavailability of 7,62 x 39 API ammunition. In accordance with SABS policy document SCT-SP-5.10 paragraph 3.1.2 this constitutes a partial test.
 - 2.3. Standard AVL pressure test barrels were used as weapons.
 - 2.4. Striking velocities were measured 2m from the barrel on a 15m range, using a Drello 4043 ballistic chronograph.
 - 2.5. Average temperature was and relative humidity was not recorded.
 - 2.6. Back face material calibration was done to SANS 1658:2007.
3. All tests were executed by J Conradie and S Matloga of SABS, and witnessed by the client.

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/4. RESULTS

4. Test on body armour panel supplied by Hun Tool & Projects / Liquid Bullet.

4.1. Tested to SANS 1658:2007 Level III.

4.2. RESULTS

The following were the test results obtained on a 15m range

Model	600	Size	---
Batch	---	Serial #	---
Specification	SANS 1658:2007	Level	III Special (S.A. Mix)

Box number	3	Calibration (19 +2mm)	20,8
Panel	---	Weight (kg)	4,27

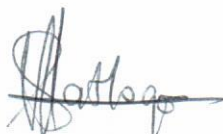
Calibre	7,62 x 51	Velocity (m/s)	862 +9
Bullet type	FMJ	Bullet weight (gr)	143
Shot	Velocity (m/s)	Back face (44mm max)	Result
1 x 0°	871,01	0	Pass

Calibre	7,62 x 39	Velocity (m/s)	710 +9
Bullet type	FMJ	Bullet weight (gr)	123
Shot	Velocity (m/s)	Back face (44mm max)	Result
1 x 0°	711,39	0	Pass
2 x 0°	724,59	0	Pass

Calibre	5,56 x 45	Velocity (m/s)	955 +9
Bullet type	FMJ	Bullet weight (gr)	55
Shot	Velocity (m/s)	Back face (44mm max)	Result
1 x 0°	957,03	0	Pass
2 x 0°	959,32	0	Pass

4.3. OVERALL RESULT

The armour passed the ballistic criteria with no penetrations and all back face signature measurements within prescribed limits.



S Matloga
Test Officer



J Conradie
Senior Test Officer