

TEST REPORT

SABS

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W/O No. 2527/12B127
Date: 2012-11-11.

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Ballistic Testing of Body Armour SANS 1658:2007 Level III

1. TEST SAMPLES

- 1.1. Hun Tool & Projects / Liquid Bullet supplied a body armour panel for ballistic testing.
- 1.2. The armour was a hard armour module in conjunction with a soft armour module. The hard armour consisted of a plate covered with general purpose felt on the front and foam on the rear. The soft armour consisted of 25 layers Twaron and 4mm felt.
- 1.3. The sample passed.

2. TEST ARRANGEMENT

- 2.1. The test was done at the SABS ballistics laboratory on 11 December 2012.
- 2.2. The armour was tested to SANS 1658:2007 Level III.
- 2.3. A Standard AVL pressure test barrel was used as weapon.
- 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 25°C and relative humidity 53%.
- 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

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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

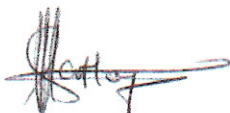
The following were the test results obtained on a 15m range


Model	---	Size	---
Batch	---	Serial #	---
Construction	<ul style="list-style-type: none"> covered in felt and foam on the front and back respectively 25 layers Twaron with 4mm felt 		
Specification	SANS 1658:2007	Level	III
Temperature (°C)	25	Humidity (%)	53

Box number	2	Calibration (19 +2mm)	19,7
Panel	----	Weight (kg)	---
Calibre	7,62 x 51	Velocity (m/s)	862 +9m/s
Bullet type	FMJ	Bullet weight (gr)	143
Shot	Velocity (m/s)	Back face (44mm max)	Result
1 x 0°	859,18	10,3	Pass
2 x 0°	864,90	32,7	Pass
3 x 0°	865,58	26,4	Pass
4 x 0°	859,99	25,1	Pass
5 x 0°	859,77	30,6	Pass
6 x 0°	864,08	37,5	Pass

4.3. OVERALL RESULT

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


S Matloga
 Test Officer


J Conradie
 Senior Test Officer