

TEST REPORT



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TESTING TO SANS 1397: 2003, "Industrial Safety helmets"

1 INTRODUCTION

The Mechanical laboratory at SABS Commercial (Pty) Ltd, received six riot helmets from a company called Falmit Fibre Glass cc for testing. The purpose of the test was to perform shock absorption and a penetration tests in accordance with SANS 1397:2003, "Industrial Safety helmets"

All the samples complied with shock absorption and resistance to penetration tests requirements of SANS 1397: 2003, "Industrial Safety helmets" specification. Refer to clause 5 of this report for details of the results.

2 DESCRIPTION OF SAMPLE

The sample consisted of the following:

QUANTITY	Description
6	Riot Control Helmets

3 SAMPLE SUBMITTED

The sample was received in good condition and suitable for testing.

Date sample received : 2008-05-08
Test commencement date : 2008-05-26
Test completion date : 2008-06-10

4 TEST REQUESTED

To determine whether the sample submitted complied with shock absorption and penetration test requirements of SANS 1397: 2003, "Industrial Safety helmets" specification.

5 METHODS OF TESTING

The six samples received were split into two, so that the three were exposed to shock absorption testing and the other three to resistance to penetration test. Method used according to SANS 1397:2003, "Industrial Safety helmets" specification.

6 EXCLUSIONS

The following tests were not performed.

- Flame resistance
- Electrical Insulation
- Molten metal splash

7 CONDITIONING AND TEST ENVIRONMENT

Samples were pre- conditioned for 4 hours in each environment (total immersion in water, low (-10°C) and high temperature (+50°C) conditioning cabinets) as specified in SANS 1397:2003, "Industrial Safety helmets" specification.

8 SUB CONTRACTING OF LABORATORIES

SABS Commercial (Pty) Ltd performed all tests at the Mechanical Testing Laboratory.

9 RESULTS

9.1 SHOCK ABSORPTION (Subclause 5.1.1).

When tested in accordance with subclause 6.6, the force transmitted to the headform was as indicated in the table below:

SAMPLES	Actual Force (kN)	Conditions	Specified Force (KN)
A	1,34	Hot temperature (+50°C)	5,0 max.
B	4,35	Low temperature (-10°C)	
E	1,34	Ambient	

All three samples complied.

9.2 RESISTANCE TO PENETRATION TEST

When tested according to subclause 6.7, No contact was made between the striker and the headform and as a result there was no visible damage to the headform. The three samples, F, C and D all complied.

10 CONCLUSION

All the samples complied with shock absorption and resistance to penetration tests requirements of SANS 1397: 2003, "Industrial Safety helmets" specification. Refer to clause 9 of this report for details of the results.

***Tested sample(s) will be disposed if not collected within a period of six weeks of the date of this report.



**Tested by: T. Baloyi
TEST OFFICER: MECHANICAL TESTING**



**Checked by: E. Seeger
MANAGER: BUILDING & CONSTRUCTION TESTING**



**Approved by: T. Sepuru
MANAGER: PACKAGING & MECHANICAL TESTING**