

**LABORATORY TEST REPORT**  
**NIJ STANDARD FOR BALLISTIC HELMETS 1981**  
**NIJ STANDARD 0106.01 PENETRATION TEST**

Date rec'd 29-Nov-13  
 Courier DHL  
 Comp File ARMASURE4580/13  
 Sample Designation Ballistic Helmet  
 Purchase Order Not Supplied

**CLIENT DETAILS**  
 Rob Thompson  
 Armasure  
 1487 State Hwy .17  
 Silverdale, Auckland  
 New Zealand

Job No. 4580/13  
 Test Date 18-Dec-13  
 Client Armasure  
 Report No. 4580.2/13A  
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**HELMET DETAILS**

Sample No./ID ARMASURE4580/13-3  
 Manufacturer Armasure  
 Project Details Not Supplied  
 Model No. AS44-ZK234  
 Serial No. 20130930AS4415  
 Batch No. 20130930AS44  
 Date of Manufacture Not Supplied  
 Size Not Supplied  
 Weight (g) 1403

**BALLISTIC THREAT**

Calibre 44 Magnum  
 Projectile Weight 240g  
 Projectile Type SWCGC  
 Cannister Markings Not Applicable  
 Production Factory PMC  
 Head Stamp Details Not Applicable  
 Barrel Length 6inch  
 Barrel Serial No. M34917-28  
 Obliquity Zero Degree  
 Specification NIJ 0106.01 Special  
 Required Velocity **426 ± 15 m/s**

**RANGE**

Muzzle to Target 5 metres  
 No. of Screens 3  
 Screen Spacing 5.0 ft  
 Midpoint to Target 2.0 metres  
 Chronograph Model Sabre Iris  
 Screen Type Skyscreen 408  
 Screen Light Source DC LED

**TEST CONDITIONS**

Temperature 21.9 C  
 Relative Humidity 57.9 %  
 Conditioning Ambient

**APPLICABLE STANDARDS OR PROCEDURES**

NIJ Standard 0106.01  
 2 Witness Material Plastilina No.1 Clay  
 3 Witness to Target In direct contact  
 4 Clay Verification 17.4mm

**TEST PERSONNEL**

Data Recorder J.Sutherland  
 Gunner H.Bui  
 Witness Nil

Sample Number	Impact Plane	Yaw	Shot No.	Velocity m/s Chrono 1	Velocity m/s Chrono 2	Average Velocity m/s	Notes	Panel Penet.	Spalling	BFS mm	Pass Fail
ARMASURE4580/13-3	Mid-Sagittal	Nil	1	420.6	418.8	419.7		N/A	N/A	27mm	Pass
	Mid-Sagittal	Nil	2	420.0	417.6	418.8		N/A	N/A	21mm	Pass
	Coronal	Nil	3	423.1	420.9	422.0		N/A	N/A	15mm	Pass
	Coronal	Nil	4	414.5	412.4	413.5		N/A	N/A	29mm	Pass

**Footnotes:**

- a. Excessive velocity
- b. Insufficient velocity
- c. Too close to prior impact
- d. Too close to edge
- e. Test Terminated
- f. Not a fair hit

**Comments:**

- 1. This helmet has passed on penetration only, BFS measurement for reference.
- 2. This report 4580.2/13A replaces 4580.2/13. Please return or destroy any previous versions.

**Deviations From Standard:**

- 1. Client requested witness to be Plastilina No.1 clay
- 2. Client requested threat to be .44 Mag 240g Semi Wad Cutter Gas Checked



B. Eu  
(Approved signatory)

Model Compliance Passed: <b>Yes</b>
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