

# TEST REPORT NO.: 5637 TESTING OF VERIDOT SYSTEM

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## STATEMENT OF AUTHORITY

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AUTHOR:



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2008-02-04

**Date**

CHECKED BY:



**R VAN DEN BERG  
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2008-02-04

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## TEST INFORMATION

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**TEST PROCEDURE USED:** SANS VESA Proj 2:2006 Draft 8  
**TYPE OF TEST(S):** Accelerated ageing test  
**TEST ITEM DESCRIPTION:** Veridot  
**MANUFACTURER:** Holomatrix  
**MODEL NO.:** 0.8mm, 0.6mm, 0.4mm  
**SERIAL NO.:** None  
**REMARKS:** None  
**TEST(S) PERFORMED BY:** Gerotek Test Facilities a Division of Armscor Business (Pty) Ltd  
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**SUB CONTRACTORS USED:** None  
**TEST OFFICIAL:** L A Beukes  
**CELL PHONE NO.:** 082 770 3529  
**DATE RECEIVED:** 2007-08-02  
**TEST COMMENCEMENT DATE:** 2007-11-14  
**TEST COMPLETED DATE:** 2007-11-30  
**TEST WITNESSED BY:** A L van Dyk  
**AMBIENT TEMPERATURE:** 20°C  
**TRACEABILITY:** All test equipment utilised to conduct tests were calibrated in terms of standards, the accuracy of which is traceable to the national measuring standards kept and maintained by the NMISA.

## Test equipment utilised

Type of Instrument	Lab / Serial No.	Calibration Certificate No.
Climatic Chamber	OTF 0142	GC/144/06
Climatic Chamber	OTF 0186	GC/142/06
WAP High Pressure Cleaner	N/A	N/AQ

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## 1. SUMMARY OF REPORT

The Veridot marking system was subjected to environmental tests as required in document SANS VESA Proj.2:2008 Draft 8. The marking system performed satisfactorily and no failures were recorded.

## 2. TEST RESULTS

### 2.1 *High Air Temperature Test (A4.1)*

Thirty 0.8mm, twenty-two 0.6mm and fifty-four 0.4mm specimens were subjected to a high air temperature of  $110^{\circ}\text{C} \pm 1^{\circ}\text{C}$  for a duration of 168 hours, removed and allowed to return to ambient conditions.

No failures were recorded.

### 2.2 *High Humidity Test (A4.2)*

Fifteen 0.8mm, forty-one 0.6mm and seventy-two 0.4mm specimens were subjected to an air temperature of  $38^{\circ}\text{C} \pm 1^{\circ}\text{C}$  and a relative humidity of 97% to 100% for a duration of 168 hours. They were then removed and allowed to return to ambient conditions.

No failures were recorded.

### 2.3 *Low Air Temperature Test (A4.3)*

Thirty 0.8mm, twenty-two 0.6mm and fifty-four 0.4mm specimens were subjected to a low air temperature of  $-30^{\circ}\text{C} \pm 1^{\circ}\text{C}$  for a duration of 4 hours, removed and allowed to return to ambient conditions.

No failures were recorded.

### 2.4 *High Pressure Test (Cold/detergent)*

Thirty 0.8mm, twenty-two 0.6mm and fifty-four 0.4mm specimens were subjected to a high air temperature of  $110^{\circ}\text{C} \pm 1^{\circ}\text{C}$  for a duration of 168 hours, removed and allowed to return to ambient conditions. They were then subjected to a high pressure cold water/detergent test with a water pressure of 110 bar at a distance of 100 mm for a period of 5 minutes.

No failures were recorded.

### 2.5 *High Pressure Test (Warm)*

Fifteen 0.8mm, forty-one 0.6mm and seventy-two 0.4mm specimens were subjected to a high air temperature of  $110^{\circ}\text{C} \pm 1^{\circ}\text{C}$  for a duration of 168 hours, removed and allowed to return to ambient conditions. They were then subjected to a high pressure warm water test with water outlet temperature of  $85^{\circ}\text{C}$  and pressure of 110 bar at a distance of 100mm for a period of 5 minutes.

No failures were recorded.

### 3. UNCERTAINTY OF MEASUREMENT

The reported expanded uncertainty of measurements stated as the standard uncertainty of measurements multiplied by the coverage factor  $k = 2$ , which for normal distribution corresponds to a coverage factor probability of approximately 95%.

### 4. REPORTED UNCERTAINTY OF MEASUREMENT

Not applicable.