

## LABORATORY TEST REPORT

### BULLET-RESISTANT PANELS AND ELEMENTS AS/NZS 2343:1997

Document Revision 2 - July 2014 - Issued by B. Eu

#### CLIENT DETAILS

**Nathan Munz**  
Glassform Pty Ltd  
148-152 Bernard Street  
Cheltenham, VIC 3189  
AUSTRALIA

Date Rec'd 18-Nov-15  
Courier Swift Couriers  
Sample Designation Glass  
Purchase Order Not Supplied

Job Number 5084/15  
Test Date 20-Nov-15  
Report Number 5084/15  
Page Number 1 of 1

#### SAMPLE DETAILS

Sample ID See Results  
Manufacturer Glassform Pty Ltd  
Material Type Glass  
Model S02126  
Serial Number Not Supplied  
Batch Number S02126  
Size (mm) 420x420  
Avg. Thickness (mm) 40.29  
Grade Not Supplied  
Heat Treatment No. Not Applicable  
Nominal Hardness Not Applicable

#### BALLISTIC THREAT

Specification AS/NZS 2343:1997  
Protection Level **Class R2**  
Calibre **7.62x51 NATO**  
Obliquity **Zero Degrees**  
Projectile Weight 9.3 grams  
Projectile Type FMJ BALL  
Cannister Markings LOT 0007  
Production Factory ADI  
Head Stamp Details Not Applicable  
Barrel Length 24 Inch  
Barrel Serial No. V08005  
Required  $V_{proof}$  Velocity 850 +/- 15m/s

#### RANGE

Range Used **Range 1**  
Muzzle to Target 15 metres  
No. of Screens 3  
Screen Spacing 0.76 metre  
Midpoint to Target 2.0 metres  
Chronograph Number Chrono 1  
Chronograph Serial 1002  
Chronograph Model Sabre Iris  
Screen Type Skyscreen 408  
Screen Light Source DC LED

#### TEST CONDITIONS

Temperature **20.3** °C  
Relative Humidity **56.4** %  
Conditioning **Ambient**

#### WITNESS MATERIAL SPECIFICATIONS

Witness Material Used 110 GSM Paper  
Distance from Witness to Target 450mm  
Visual Examination Light Source 60 Watt Light Bulb

#### TEST PERSONNEL

Data Recorder James Sutherland  
Gunner James Sutherland  
Witness Nathan Munz


Sample Number	Sample Thickness (mm)	Impact Angle	Shot	Velocity (m/s) Chrono. 1	Velocity (m/s) Chrono. 2	Average Velocity (m/s)	Notes	Panel Penet.	Spalling	Witness Card Pen.	Pass/Fail
GLASSFORM 5084/15-1	40.38	0°	1	854	853	854		Nil	Nil	Nil	Pass
		0°	2	849	848	848		Nil	Nil	Nil	Pass
		0°	3	857	854	855		Nil	Nil	Nil	Pass
GLASSFORM 5084/15-2	40.32	0°	1	855	854	855		Nil	Nil	Nil	Pass
		0°	2	854	853	853		Nil	Nil	Nil	Pass
		0°	3	862	860	861		Nil	Nil	Nil	Pass
GLASSFORM 5084/15-3	40.16	0°	1	862	861	862		Nil	Nil	Nil	Pass
		0°	2	846	845	845		Nil	Nil	Nil	Pass
		0°	3	847	845	846		Nil	Nil	Nil	Pass

#### Footnotes:

- Excessive velocity
- Insufficient velocity
- Too close to prior impact
- Too close to edge
- Test Terminated
- Not a fair hit

#### Remarks:

1. Nil

  
B. Eu  
(Approved signatory)

Model Compliance  
Passed: **Yes**