

LABORATORY TEST REPORT



PROTECTION LEVELS FOR OCCUPANTS OF LOGISTIC AND LIGHT ARMOURED VEHICLES STANAG 4569 (Edition 2) AEP-55, Volume 1 (Edition 2)

Document Revision 4 - November 2020 - Issued by B. Eu

CLIENT DETAILS

Darren Fisk Armoured Solutions Australia 57 Merriman Cres Macarthur, ACT 2904 Australia Date Received Apr-23
Courier Client
Sample Designation
Purchase Order Not Supplied

 Job Number
 7547-23

 Test Date
 18-Apr-23

 Report Number
 7547.3-23

 Page Number
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SAMPLE DETAILS

Sample ID 7547.3-23-1 Model Not Supplied Material Type Glass Manufacturer Kratos Glass LLC Not Supplied KG230315624 Batch No. Serial No. 500x500mm Size Not Applicable Heat Treatment No. Nominal Hardness Not Applicable Measured Thickness 137mm

BALLISTIC THREAT

STANAG 4569 Specification Protection Level Level IV Calibre 14.5x114mm Obliquity **Zero Degrees** 988 gr (Nominal) API B32 Projectile Weight Projectile Type Cannister Markings A30-78-17 Production Factory Factory 17 Head Stamp Details 17-84 44 Inch Barrel Length Barrel Serial No. 3569 $911 \pm 20 \text{ m/s}$ Required V_{proof} Velocity

RANGE

Range Used
Muzzle to Target
No. of Screens
Screen Spacing
Midpoint to Target
Chronograph Model
Screen Type
Screen Light Source

Range 3

25 metres

2
25 metres

2.5 metres
Sabre IRIS
Skyscreen 408
DC LED

TEST CONDITIONS

Temperature 21.6 °C Relative Humidity 54.8 % Conditioning Ambient

WITNESS MATERIAL SPECIFICATIONS

Witness Material Used
Distance from Witness to Target
Visual Examination Light Source

0.5mm 2024 T3 Aluminium
150mm
60 Watt Incandescent Light

Gunner
0.5mm 2024 T3 Aluminium
Witness

TEST PERSONNEL

Data Recorder
Gunner
Jack McBrearty
Witness
Nil

Sample Number	Shot No.	Impact Angle	Velocity Chrono 1 (m/s)	Velocity Chrono 2 (m/s)	Velocity Average (m/s)	Panel Pen.	Spall	Witness Card Pen.	Dist. Prior Impact	Dist. From Edge	Impact Assessment	Accepted
7547.3-23-1	1	0	914.5	914.5	914	No	Nil	No	N/A	N/A	Fair	Yes
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Impact Assessment

- a. More Severe Velocity
- b. Less Severe Velocity
- c. More Severe Impact Position
- d. Less Severe Impact Position e. More Severe Other (See Remarks)
- f. Less Severe Other (See Remarks)

1. R&D te

Remarks:

1. R&D tesing for information only.

Bel

B. Eu (Approved signatory)

Passed: **Yes**

