



Wiltshire Ballistic Services Ltd

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FG Glass Industries Pvt. Ltd.
1204 Tower A
Nman Midtown.
Lower Parel
Mumbai
400 013

Trial Number 10956a

29 November 2021

BALLISTIC TEST REPORT

Please find attached, reports for the following test/s carried out at Wiltshire Ballistic Services on 20 October 2021.

Sample Name	Description	Results
FG/BRG/SPL BR6	BSEN 1063:2000 BR6 7.62x51mm Steel Jacket Ball MEN	Passed BSEN 1063:2000 BR6 NS

The results contained in this report are only valid for the samples tested and detailed above. The publication of these results in any abridged form is not allowed without approval by Wiltshire Ballistic Services Ltd. in writing.

For and on behalf of Wiltshire Ballistic Services Ltd

29 November 2021



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TEST REPORT
10956a - WBS - 20/10/2021
29 November 2021

FG Glass Industries Pvt. Ltd.
1204 Tower A
Nman Midtown.
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Mumbai
400 013

Trial Number	10956a	Range Temp (°C)	20.5
Trial Date	20/10/2021	Range Humidity (%)	65
Trial Start Time	10:00	Range Pressure (mBar)	994
Trial Finish Time	11:00	Range Technician	Mark Blanchard
		Range Technician	Jason Laird
		Range Technician	

Paul Everington

Report Completed

Paul Everington

Approved Signatory

Paul Everington

BALLISTIC TEST DETAILS

BSEN 1063:2000 BR6

Velocity From (m/s) 820	Witness Type Aluminium Foil	Configuration - Muzzle to Target (m)	10.0
Velocity To (m/s) 840	Ammunition 7.62x51mm Steel Jacket Ball MEN	Configuration - Muzzle to Chrono Centre (m)	7.5

SAMPLE DETAILS

FG/BRG/SPL BR6

FG Glass Industries Pvt Ltd

44.17mm thick

Size (mm): 500x500 Weight (kg):

Shot No.	Velocity m/s	Held/ Penetrated	Trauma Code/ Spall Rating	Comments
1	837.04	Held	No Splinters	
2	820.11	Held	No Splinters	
3	831.28	Held	No Splinters	

SAMPLE DETAILS

FG/BRG/SPL BR6

FG Glass Industries Pvt Ltd

44.17mm thick

Size (mm): 500x500 Weight (kg):

Shot No.	Velocity m/s	Held/ Penetrated	Trauma Code/ Spall Rating	Comments
1	831.10	Held	No Splinters	
2	833.94	Held	No Splinters	
3	826.64	Held	No Splinters	

SAMPLE DETAILS

FG/BRG/SPL BR6

FG Glass Industries Pvt Ltd

44.17mm thick

Size (mm): 500x500 Weight (kg):

Shot No.	Velocity m/s	Held/ Penetrated	Trauma Code/ Spall Rating	Comments
1	835.07	Held	No Splinters	
2	830.89	Held	No Splinters	
3	826.94	Held	No Splinters	

FG/BRG/SPL BR6

RESULTS
BSEN 1063:2000 BR6

Passed BSEN 1063:2000 BR6 NS

END OF REPORT

RANGE EQUIPMENT & CONFIGURATION

THE GUN

All rounds were shot from a trolley mounted laser-sighted Universal Receiver fitted with the appropriate barrel to give both projectile stability and the required velocity.

VELOCITY MEASUREMENT

The projectile velocity is measured using optical sky screens, with 1.0m separation, positioned on a trolley housing fitted with D.C. light sources to detect the passage of the projectile. The optical sky screens are connected to an electronic timing unit and velocity calculating computer, each unit being calibrated and certified in accordance with the manufacturer's requirements. The accuracy of the velocity measurement equipment has been calculated to be 0.17% overall.

To mitigate against measurement uncertainty, extra care is taken to ensure velocities achieved are within the limits required by test standards. Contingency velocity limits, which fall comfortably within the parameters of the test standard are set. These values are indicated in the report.

NOTE: Unless otherwise stated, projectile velocity is measured at a point 2.5m from the attack face of the sample under test.

SAMPLE HOLDER

The sample holder trolley is of heavy steel construction to form a rigid mounting into which various specialised sample holders can be fitted to meet a multitude of different testing standards. Provision is also made to allow for turning samples to predetermined angles for angled attacks.

PROJECTILE STABILITY

Where necessary the projectile stability was tested by firing the rounds through a test/witness panel set-up in the same place as the sample to be shot.

SHOT PLACEMENT

All firing is carried out using a laser-sighted Universal Receiver. Accuracy tends to be far better than would usually be the case when hand-held weapons are used. Therefore, unless otherwise stated, all shots have hit the sample in the required pattern and with the required spacing.

WITNESS: ALUMINIUM FOIL

The witness system comprises of a 0.02mm piece of aluminium foil weighing 54g/m² and measuring 700mm x 525mm mounted securely in a splinter collecting box, 500mm +/- 10mm behind the sample.

PHOTO ANNEX

Panel 1



Shot 1 impact side



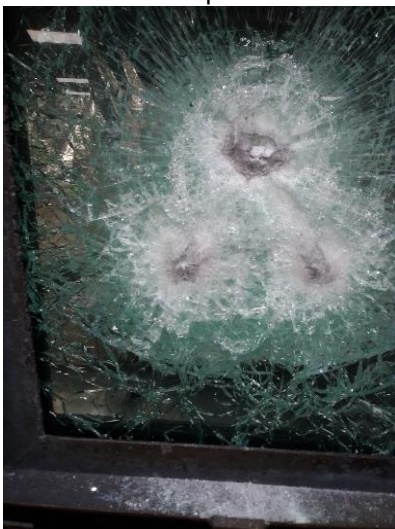
Shot 1 protected side



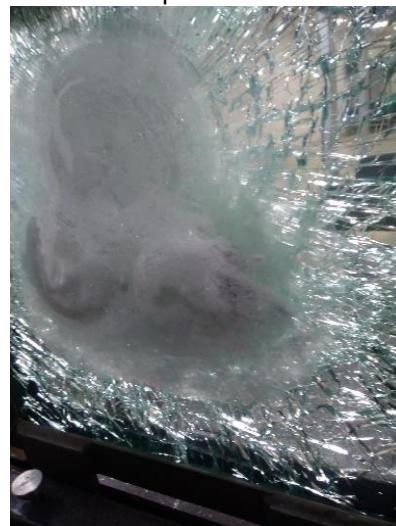
Shot 2 impact side



Shot 2 protected side



Shot 3 impact side



Shot 3 protected side

Panel 2



Shot 1 impact side



Shot 1 protected side



Shot 2 impact side



Shot 2 protected side



Shot 3 impact side



Shot 3 protected side

Panel 3



Shot 1 impact side



Shot 1 protected side



Shot 2 impact side



Shot 2 protected side



Shot 3 impact side



Shot 3 protected side

END OF PHOTO ANNEX