



Ref. No.

Date : 30/12/16

BALLISTICS EVALUATION REPORT

IFS File No.	IFS/16/BER/237
Date of Report	30/12/2016
User request Letter No.	Your e-mail dated:
Acceptance of tender No./ Tender Enquiry No.	Not Applicable
Date of Trials	29/12/2016
Armour Type	Bullet Resistance Glass (BRG)
Manufacture / Supplier	Marvel Glass Pvt. Ltd. Ahmedabad
User	Not Applicable

(Dr. M.S. Dahiya)
Director

Note

1. The test results of ballistics evaluation of one (01) BRG submitted by **Marvel Glass Pvt. Ltd. Ahmedabad** are as per the sheet attached here with.
2. The test articles were brought to IFS, Gandhinagar by the manufacturer's representative as per their own specifications / fabrication process.
3. IFS, Gandhinagar is not responsible, directly / indirectly, for the quality of production lots being manufactured by the firm.
4. The report is valid only for the particular items evaluated against the specified ammunition & publication of these results in any abridges form is not allowed without written approval from Director, IFS, Gandhinagar.
5. The tested samples are returned back to the manufacturer's representative after completion of the testing.
6. The test procedure is followed as per the NIJ standards.
7. Shital Shah, Director, Marvel Glass Pvt. Ltd. Ahmedabad was remain present at the time of Ballistics Evaluation.

COMPLIANCE TEST -01

A) BASIC DETAILS

IFS Test Sample ID:	IFS-16-BRG-237-MARVG-01	Trial Date:	29/12/2016
Armour Type:	Bullet Resistant Glass	Material ID:	----
Type of Firearm:	Barrel No.: SN 4312	Type of Ammunition:	7.62 X 39 mm (MSC)
Type of Test:	Dry	Time In: --NA--	Time Out: --NA--
Reference Velocity:	715 ± 15 m/s	Distance:	10 m
Room Temperature:	24.3 °C	Humidity:	43.2 %




B) DIMENSIONS

Sr. No.	Armour Type	Length (mm)	Breadth (mm)	Thickness (mm)	Weight (kg)
1	BRG	500	500	40.97	23.880

C) BALLISTICS EVALUATION DATA

Shot No.	Fair/ Unfair	Angle of Firing	Velocity (m/sec)	Perforated/ No Perforation/ Crack
01	Fair	90°	714.4	No Perforation
02	Fair	90°	718.6	No Perforation
03	Fair	90°	723.7	No Perforation

Trial Officers, IFS, Gandhinagar

 (S. G. Khandelwal) Deputy Director FSL, Ahmedabad	 (H. J. Trivedi) Scientific officer DFS, Gandhinagar	 (N. A. Pancholi) Scientific officer DFS, Gandhinagar
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Manufacturer's Representative(s) witnessed the trials:

Shital Shah
Marvel Glass Pvt. Ltd.
Ahmedabad