

**RESTRICTED
TEST REPORT**

REPORT NO: STRIDE/TP/18-010



**INSTITUT PENYELIDIKAN SAINS DAN TEKNOLOGI PERTAHANAN
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48100 BATU ARANG, SELANGOR, MALAYSIA
TEL: 603-60352121 FAX: 603-60352134**



Job No: BA/18-012

Item Type: *Ballistic Resistance Panel*

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TEST RESULT

CLIENT DETAIL

STEC ARMOR BERHAD
G-G-5 Connaught Avenue, No.38,
Jalan 9, Taman Bukit Cheras,
56000 Kuala Lumpur.

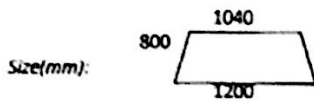
Date Received: 16.05.2018
Via: Hand
Date Tested: 16.05.2018
Returned: 16.05.2018

TEST CONDITION

Temperature: 29 °C
Relative Humidity: 81 %

ARMOUR DETAIL

Type: Car Windscreen



Manufacturer: STEC ARMOR BERHAD
Material: Glass
Nature: Laminated
Layer Composition: NA
Weight: 33.83 kg
Reference No.: NA
Marking: S1
Ave. Thickness: 18.6 mm
Strike Face: Front
Conditions: Dry

BALLISTIC THREAT

Protection Level: NIJ Std D108.01 Level II A (332 ±12 m/s)
Caliber: 9 mm
Obliquity: Zero
Projectile Weight: 8.0 g (124 gr)
Projectile Type: FMI

RANGE SET UP

Range: 600 m covered
Muzzle to Target: 5 m
Velocity/Model: Chronograph / Caldwell

WEAPON SET UP

Barrel Length: 203.2 mm
Barrel Serial No.: 1782
Weapon Type: Universal Test Gun
Model: Prototipa

TEST PERSONNEL

Coordinator: Firdaus
Data record: Mastizah
Gunner: Rosnazri

AMMUNITION

Lot No.: Lot 13 SME 7-13
Charge Weight: 0.35 g

| Shot Na. | Velocity | Energy | Notes | Observation | Test Result |
|----------|----------|--------|-------|---|-------------|
| | (m/s) | (j) | | | |
| 1 | 320 | 410 | e | Glass back spall towards firer at least 1 m distance. No penetration on the witness sheet. | PASSED |
| 2 | 320 | 410 | e | | |
| 3 | 319 | 407 | b, e | | |
| 4 | 302 | 365 | b, e | | |
| 5 | 295 | 348 | b, e | | |
| 6 | 326 | 425 | e | | |
| 7 | 299 | 358 | b, e | | |
| 8 | 320 | 410 | e | | |
| 9 | 335 | 449 | e | | |

Notes: -

No penetrations allowed including the witness sheet.

Footnotes:

- a Excessive velocity
- b Insufficient velocity
- c Too close to prior impact
- d Too close to edge
- e Partial penetration
- f Complete penetration

Approved Signatory:

AZMI MINAL
Head of Ballistic Section
Weapon Technology Division, STRIDE

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