National Institute of Justice (NIJ)

Approved Test Laboratory

For Personal Body Armor

National Technical Systems

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NVLAP LAB CODE: 200818-0 Approved Signatory: Jake Crawford

HARD ARMOR STAND-ALONE PLATE:

12/6/2020 Date Received: DHL Via:

Returned Via: DHL **P-BFS TEST** Record No.: VTG20004-1 Test Date: 12/6/2020

Customer: Merc Tactical Gear Co. Ltd

Range 3

Muzzle to Screen 1: 11.98 m Screen 1 - 4: 1.52 m Screen 4 - Target: 1.74 m Midpoint to Target: 2.50 m Target to Witness: 0 m

Barrel Length: 50.80 cm

Test Conditions Temperature:

Expiration Date:

April 30, 2022

٥С 21.9 Humidity: 49 % Clay Block No.: 7 Clay Block Size: 24" x 24" x 5.5" Clay Temp.: ٥С 37.3 Drop Average: 19.85

Test Standard: IAW Modified / Abbreviated NIJ 0101.06, July 2008

Threat Level: Special Threat Conditioning: Ambient / Dry

Sample Tested		Shot / Projectile Description					Chronograph		Test Results
	<u>Plate</u>	Shot	Shot	Degree	Caliber	Bullet	TIME	VELOCITY	Perforation
Manufacturer:	VT Garment Co. Ltd	No.	Location	Obliquity		Weight (gr.) / Type	sx-5	m/s	BFS (mm)
Model No.:	GMGB3+MSSHMUB01M	1	Top Left	0°			208.2	732.0	9.09
Lot No.:	N/A	2	Bottom Right	0°			210.4	724.3	9.45
Size (cm):	24 x 31	3	Top Right	0°	7.62x39mm	123 / MSC	209.5	727.4	13.10
Curve / Cut:	Multi-Curved / Shooter's Cut	4	Middle Right	0°			208.8	729.9	16.59
DoM:	N/A	5	Middle Left	0°			210.2	725.0	13.40
Weight (kg):	2.1475	6	Bottom Left	0°			211.9	719.2	15.35
Protection Level:	N/A								
Manufacturer: Model No.: Lot No.: Size (cm): DoM: Weight (kg): Protection Level:	Plate Carrier Merc Tactical Gear ETO Plate Carrier N/A N/A N/A 0.3505 N/A								

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Test Remarks/Notes:

- Plate tested non-planar (with clay build-up/mound)
- Plate tested ICW plate carrier.
- Customer requested BFS to be measured for ALL Shots

Test Round Description: Shot Spacing Requirements:

Test Round: Russian 7.62x39mm 123 gr. MSC (M43) Shot Pattern: NIJ 0101.06 6-Shot Die Pattern

725.4 m/s +/- 9.1 (2380 +/- 30 ft/s) •Shot-to-Edge: 2.0" Minimum Test Velocity:

•Shot-to-Shot: 2.0" Minimum

Sample Description:

Customer Proprietary

Project Manager: Zerger Range Tech(s): Nguyen