REPORT NUMBER: A1111131-049

Test Performed For:
Armourer's Choice Inc
208-532 Montreal Road
Ottawa, Ontario
Canada, K1K 4R4
(P) (613) 442-4422
email:
website: www.armourerschoice.com

BOSIK TECHNOLOGIES 2013 LTD
2495 Del Zotto Ave, Ottawa, On K1T 3V6
Tel:613-822-8898 Fax:613-822-3672

Test Performed By:
Bosik Technologies 2013 Limited
2495 Delzotto Avenue
Ottawa, Ontario
Canada, K1T 3V6
(P) (613) 822-8898 ext 222
(F) (613) 822-3672
email: ballistics@bosik.com
website: www.bosik.com

TEST AND TEST MATERIAL IDENTIFICATION

Contract:	Contract Number	A1111131	Purchase Order	N/A
Material Identification:	Panel Description	Shoot pack x 12 plies	Lot Number	N/A
			Piece Number	N/A
			Panel Weight Dry (lbs)	2.44
			Panel Weight Wet (lbs)	N/A
	Model Number	N/A	Measured Thickness	N/A
	Serial Number	N/A	Date of Manufacture	N/A
	Size	13.50" x 14.00"	Date Tested	December 9, 2019
Laboratory Conditions:	Temperature (°C)	21	Clay Calibration (mm)	19
	Relative Humidity (%)	23	Target Base Line (m)	V_1=1.51, V_2=1.01

Velocity Measurement Instrumentation: 3 Oehler Model 57 Infrared Photoelectric Screens with Oehler Chronograph Model 30 (V1) and Hewlett Packard Model 5315A (V2) Universal Counter reading the bullet time of flight on a 2 and 1 metre distance.

Firing Range: Distance between the front face of the Test material and the muzzle of the test barrel **5 Metres**

Test Barrel: **Calibre:** 9 mm **Length:** 28.00 inch **Twist rate:** 1-16 inch **Manufacturer:** Shilen Inc.

Loading Components:	Case	Winchester 9mm Luger + P	Primer	CCI BR-4
	Powder	Hodgdon HS6	Bullet Manufacturer	Remington

Test Specification: Vproof Ballistic Penetration and Backface Signature (P-BFS) Test in a dry condition in accordance with NIJ 0101.06 Level II for new armor, with a maximum deformation depth of 44 mm. The shot pattern used for testing is in accordance with the Figure 14 of the NIJ 0101.06 Standard with a shot-to-edge distance of 2 inches for the shots 1, 2 & 3. Shots 4, 5 & 6 are all taken in a 3.94 inch circle located in the centre of the test sample. Using 3 horizontally and 2 vertically positioned Velcro elastic straps 2 inch wide to secure the test sample to the Clay Backing material, and 9mm, 124 grain FMJ RN bullets at a velocity range between 389m/s and 407m/s.

BALLISTIC RESULTS

Shot Number	Shot Load (grains)	Shot Angle (degrees)	Instrumentation Velocity (m/s) [$(V_1+V_2)/2$]	Penetration: Partial or Complete	Deformation Depth (mm)	Fair or Unfair Impact	Shot Counted (m/s)
1	6.3	0	390	Partial	20	Fair	390
2	6.3	0	389	Partial	23	Fair	389
3	6.3	0	407	Partial	24	Fair	407
4	6.3	30	392	Partial	N/A	Fair	392
5	6.3	45	402	Partial	N/A	Fair	402
6	6.3	0	402	Partial	14	Fair	402
						Average velocity:	397

Does this armour sample meet or exceed the specified requirements? **Yes**

Test Performed By: Daniel Lavallee

Test Results Checked By: Hailom Gebremeskel, B.Eng.