REPORT NUMBER: A1111131-028

Test Performed For:
Armourer's Choice Inc
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Canada, K1K 4R4
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email:
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BOSIK TECHNOLOGIES 2013 LTD
2495 Del Zotto Ave, Ottawa, On K1T 3V6
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Test Performed By:
Bosik Technologies 2013 Limited
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TEST AND TEST MATERIAL IDENTIFICATION

Contract:	Contract Number	A1111131	Purchase Order	N/A
Material Identification:	Panel Description	Laminated composite x 14 plies	Lot Number	N/A
			Piece Number	N/A
			Panel Weight Dry (lbs)	4.86
			Panel Weight Wet (lbs)	5.14
	Model Number	N/A	Measured Thickness	N/A
	Serial Number	N/A	Date of Manufacture	N/A
	Size	14" x 14"	Date Tested	October 28, 2019
Laboratory Conditions:	Temperature (°C)	22	Clay Calibration (mm)	20
	Relative Humidity (%)	41	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:** .44 Magnum **Length:** 28.00 inch **Twist rate:** 1-20 inch **Manufacturer:** Shilen Inc

Loading Components:	Case	Winchester .44 Magnum	Primer	CCI BR2
	Powder	Winchester 231	Bullet Manufacturer	Speer

Test Specification: Vproof Ballistic Penetration and Backface Signature (P-BFS) Test in a wet condition in accordance with NIJ 0101.06 Level IIIA 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 3 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 .44 calibre 240 grain SJHP bullets at a velocity range between 427m/s and 445m/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	11.4	0	436	Partial	28	Fair	436
2	11.4	0	432	Partial	28	Fair	432
3	11.4	0	433	Partial	29	Fair	433
4	11.4	30	438	Partial	N/A	Fair	438
5	11.4	45	434	Partial	N/A	Fair	434
6	11.4	0	432	Partial	29	Fair	432
						Average velocity:	434

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

Note: The panel delaminated on shot #3.

Test Performed By: Daniel Lavallee

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