REPORT NUMBER: A1111131-039

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 LTD
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	Flat composite x 11 plies	Lot Number	N/A
			Piece Number	006
			Panel Weight Dry (lbs)	20.10
			Panel Weight Wet (lbs)	N/A
	Model Number	N/A	Measured Thickness	N/A
	Serial Number	N/A	Date of Manufacture	N/A
	Size	18.25" x 18.25"	Date Tested	November 28, 2019
Laboratory Conditions:	Temperature (°C)	22	Clay Calibration (mm)	N/A
	Relative Humidity (%)	22	Target Base Line (m)	V_1=1.50, V_2=1.00

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:** .308 Winchester **Length:** 32 inch **Twist rate:** 1-10 inch **Manufacturer:** Shilen Inc.

Loading Components:	Case	Winchester .308 R-P	Primer	CCI BR-2
	Powder	IMR 4227	Bullet Manufacturer	N/A

Test Specification: V_{proof} Ballistic Bullet-Resistant Glazing Test in a dry condition in accordance with EN 1063:2000 Level BR-7, using NATO Ball 7.62 x 51 mm full copper jacket, steel hard core, 150 grain bullets (M61) with a velocity range between 810m/s and 830m/s, and a 120 mm equilateral triangle shot pattern located at the centre of the test article. An aluminum witness foil is placed 19.75 inches behind the target to determine penetration.

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)	Splinters or No Splinters
1	33.6	0	820	Partial	N/A	Fair	820	NS
2	33.6	0	822	Partial	N/A	Fair	822	NS
3	33.6	0	816	Partial	N/A	Fair	816	NS
						Average velocity:	819	

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

Test Performed By: Daniel Lavallee

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