



March 30, 2020

Armourer's Choice Inc.

In accordance with your instructions, Oregon Ballistic Laboratories conducted Ballistic Resistance (V_0) testing on one sample.

The sample was tested in accordance with NIJ-STD-0108.01 Level IIIA in an indoor range with the muzzle of the test barrel mounted 15-feet away from the target and positioned to produce 0-degree obliquity impacts. Four infrared light screens, in conjunction with time-based frequency counters, were placed such that bullet velocity was measured 8.25 feet from the target. Penetrations were determined by examination of a 0.020" 2024-T3 aluminum witness mounted 6-inches behind the test sample. Results for all testing performed for this purpose are summarized in the following table.

Test Sample			Ballistic Threat				Results	
OBL No.:	Sample No.:	Weight (lbs.)	Projectile	Shots	Velocity (fps)		Penetrations	Pass/Fail
					Min.	Max.		
24453	AC-D-1	14.40	9mm FMJ	5	1408	1425	0	<u>PASS</u>
			.44 Mag SWCGC	5	1386	1413	0	<u>PASS</u>

Samples will be maintained at Oregon Ballistic Laboratories for 30 days and then discarded, unless other instructions are received. If you have any further questions or concerns, please contact us.

Sincerely,

Darius Nuttbrock
Oregon Ballistic Laboratories

This report pertains only to the samples tested and must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.



BALLISTIC RESISTANCE TEST - V₀

Customer: Armourer's Choice Inc.
 OBL ID#: 24453
 Date Rcv'd: 3/13/2020
 Test Date: 3/27/2020
 Purchase Order: AC1909

TEST SAMPLE					
Sample No.:	AC-D-1	Size (in.):	36 x 26		
Model No.:	N/A	Weight (lb.):	14.40		
Lot No.:	N/A	Thickness:	0.305	0.308	0.310 0.304
Plies:	N/A	Avg. Thk. (in):	0.307		
Description:	Level IIIA Ballistic Shield				

RANGE SET-UP					
Range to Target:	15 ft.	Range #:	3		Pre Test:
Screen Dist. Vel. 1 (ft.):	5	Temperature:	67.1 °F		Clay Drops (mm):
Screen Dist. Vel. 2 (ft.):	5	Bar. Pressure:	30.07 in. Hg		Drop Avg (mm):
Screen 4 to target (ft):	N/A	Rel. Humidity:	39.8 %		Clay Temp °F:
Primary Vel. Location:	8.25 ft. from target	Sample Temp.	Amb. °F		Clay Box #:
Striking Velocity:	No	Recorder:	Darius Nuttbrock		Post Test:
Target to Witness:	6 in.	Gunner:	Aubrey Rogers		Clay Drops (mm):
Witness Panel:	0.020" 2024-T3 Alum.				Drop Avg (mm):
Backing Material:	N/A				Clay Temp °F:
Obliquity:	0 Degrees				
Barrel:	9mm Luger/1:10/4.5"				

AMMUNITION			
Projectile:	9mm 124gr. FMJ Lot #23558	Powder:	D032-03

STANDARDS / PROCEDURES			
NIJ-STD-0108.01 Level IIIA	Required Velocity:	1400 fps ± 50 fps	

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	125.0	7.0	3510	3509	1425	1425	1425	P	0°		Main Area
2	124.8	7.0	3519	3519	1421	1421	1421	P	0°		Top Bolt
3	124.9	7.0	3524	3523	1419	1419	1419	P	0°		Bottom Bolt
4	124.8	7.0	3525	3524	1418	1419	1419	P	0°		Main Area
5	125.2	7.0	3550	3550	1408	1408	1408	P	0°		Main Area

REMARKS:
 P=Partial Penetration
 C=Complete Penetration
 UH=Unfair Hit

TEST RESULTS:
 Test sample satisfied the ballistic requirements given.

FOOTNOTES:

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TEST SAMPLE					
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Model No.:	N/A	Weight (lb.):	14.40		
Lot No.:	N/A	Thickness:	0.305	0.308	0.310 0.304
Plies:	N/A	Avg. Thk. (in):	0.307		
Description:	Level IIIA Ballistic Shield				

RANGE SET-UP					
Range to Target:	15 ft.	Range #:	3		Pre Test:
Screen Dist. Vel. 1 (ft.):	5	Temperature:	69.2 °F		Clay Drops (mm):
Screen Dist. Vel. 2 (ft.):	5	Bar. Pressure:	30.07 in. Hg		Drop Avg (mm):
Screen 4 to target (ft):	N/A	Rel. Humidity:	36.7 %		Clay Temp °F:
Primary Vel. Location:	8.25 ft. from target	Sample Temp.	Amb. °F		Clay Box #:
Striking Velocity:	No	Recorder:	Darius Nuttbrock		Post Test:
Target to Witness:	6 in.	Gunner:	Aubrey Rogers		Clay Drops (mm):
Witness Panel:	0.020" 2024-T3 Alum.				Drop Avg (mm):
Backing Material:	N/A				Clay Temp °F:
Obliquity:	0 Degrees				
Barrel:	.44 Mag/1:20/15"				

AMMUNITION			
Projectile:	.44 Mag 240gr. SWCGC	Powder:	D032-03

STANDARDS / PROCEDURES			
NIJ-STD-0108.01 Level IIIA		Required Velocity:	1400 fps ± 50 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	241.2	11.6	3581	3597	1396	1390	1393	P	0°		Main Area
2	242.2	11.6	3598	3615	1390	1383	1387	P	0°		Top Bolt / Shot Missed Bolt Head
3	242.5	11.6	3585	3584	1395	1395	1395	P	0°		Bottom Bolt / Shot Missed Bolt Head
4	241.3	11.6	3534	3547	1415	1410	1413	P	0°		Top Bolt / Shot Missed Bolt Head
5	241.8	11.6	3601	3616	1389	1383	1386	P	0°		Main Area

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OBL# 24453 – Pre Test



OBL# 24453 – Post Test

