

December 19, 2018

Legacy Safety & SECURITY 4917 Main CT Davenport, IA 52806 Attn: Robert Hausman

Dear Mr. Hausman:

In accordance with your instructions, Oregon Ballistic Laboratories conducted Ballistic Resistance (V₀) testing on one sample.

The sample was tested in accordance with NIJ-STD-0106.01 Level II (abbrev) (mod) 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 positioned such that projectile velocity was measured 8.25 feet from the target. Penetrations were determined by examination of a 5.5-inch clay block mounted 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.:	S/N	Weight	Projectile	Shots	Veloci	ty (fps)	Penetrations	BFD (mm)		Pass/Fail
		(lbs.)			Min.	Max.	renetiations	Min.	Max.	rass/raii
20534	N/A	1.75	9mm FMJ	7	1274	1313	0	21.53	27.63	<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,

Brandon Bertsch

Oregon Ballistic Laboratories

13.th



BALLISTIC RESISTANCE TEST - V₀

Legacy Safety and Security

21.21

20.31

97.5

2

OBL ID#: 20534 Test Date: 12/18/2018 Purchase Order:

TEST SAMPLE

Serial No.: Model No.: N/A Lot No.: N/A Plies: N/A

Front Soft Armor Panel Description:

L 1.75 Weight (lb.):

Thickness: Avg. Thk. (in):

Clay Drops (mm):

Drop Avg (mm):

Clay Temp °F:

Pre Test:

RANGE SET-UP

Range to Target: 15 ft. Screen Dist. Vel. 1 (ft.): Screen Dist. Vel. 2 (ft.): Screen 4 to target (ft): Primary Vel. Location:

N/A 8.25 ft. from target Striking Velocity:

No N/A

9mm Luger/1:10/4.5"

Recorder: Gunner: 5.5" clay block w/ 3/4" plywood backing 0 Degrees

Range #:

Temperature:

Bar. Pressure:

Rel. Humidity:

Sample Temp.

52.8 % Amb. °F Jesse Crisanti **Darius Nuttbrock**

68.9 °F

29.94 in. Hg

Clay Box #: Post Test: Clay Drops (mm):

17.21 Drop Avg (mm): 18.17 Clay Temp °F: 97.5

18.00 19.77 18.60

18.74

20.77

Backing Material: Barrel:

Target to Witness:

Witness Panel:

Obliquity:

AMMUNITION Projectile: 9mm 124gr. FMJ Lot #23558

Powder: D032-03

Required Velocity:

1305 fps ± 30 fps

17.26

STANDARDS / PROCEDURES

NIJ-STD-0101.06 Level II (abbrev)

ROJECTILE POWDER TIMF 1 TIME 2 VELOCITY 1 VELOCITY 2 AVERAGE PENET. CALIPE OBLIQUITY NOTES WT. (gr.) WT. (gr.) μs (10⁻⁶) μs (10⁻⁶) VELOCITY P/C BFD 1277 22.78 125.1 5.6 1276 1278 3918 3912 124.5 5.6 3924 3924 1274 1274 1274 UH 21.53 125.3 5.7 3841 3837 1302 1303 1303 0° 27.63 4 124.1 5.7 3871 3867 1292 1293 1293 Р 30° 5 125.5 5.7 3812 3808 1312 1313 1313 Р 45° 6 125.4 5.7 3863 3858 1294 1296 1295 Р 0° 125.4 5.7 3849 3845 1299 1300 1300 0° 24.40

REMARKS

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

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was subjected to Armor Submersion per section 7.8.2