



October 13, 2020

MIRA Safety LLC  
7301 N FM 620 RD  
STE 155 #259  
Austin, TX 78726

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-0101.06 Level IV (abbreviated) (modified) in an indoor range with the muzzle of the test barrel mounted 25 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.	Serial No:	Weight (lbs.)	Projectile	Shots	Velocity (fps)	Penetrations	BFD (mm)	Pass/Fail
26182	N/A	5.98	.30cal. M2 AP	1	2879	0	37.38	<b><u>PASS</u></b>

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  
Ballistic Test Director  
Oregon Ballistic Laboratories



# BALLISTIC RESISTANCE TEST - V<sub>0</sub>

Customer: MIRA Safety LLC  
 OBL ID#: 26182  
 Date Rcv'd: 10/6/2020  
 Test Date: 10/8/2020  
 Estimate Number: 2563

TEST SAMPLE	
Sample No.:	N/A
Model No.:	N/A
Lot No.:	N/A
Plies:	N/A
Description:	Level IV HA Plate
Size (in.):	10 x 12
Weight (lb.):	5.98
Thickness:	
Avg. Thk. (in):	

RANGE SET-UP									
Range to Target:	25 ft.	Range #:	2	Pre Test:					
Screen Dist. Vel. 1 (ft.):	5	Temperature:	72.8 °F	Clay Drops (mm):	17.83	18.13	18.41	18.53	18.56
Screen Dist. Vel. 2 (ft.):	5	Bar. Pressure:	29.93 in. Hg	Drop Avg (mm):	18.29				
Screen 4 to target (ft):	N/A	Rel. Humidity:	59.8 %	Clay Temp °F:	94.1				
Primary Vel. Location:	8.25 ft. from target	Sample Temp.	Amb. °F	Clay Box #:	2				
Striking Velocity:	No	Recorder:	Jesse Crisanti	Post Test:					
Target to Witness:	N/A	Gunner:	Aubrey Rogers	Clay Drops (mm):	19.19	19.72	16.79	17.79	19.02
Witness Panel:	N/A			Drop Avg (mm):	18.50				
Backing Material:	5.5" clay block w/ 3/4" plywood backing			Clay Temp °F:	91.4				
Obliquity:	0 Degrees								
Barrel:	.308/1:9/30"								

AMMUNITION			
Projectile:	.30 cal. 160gr. M2 AP lot# LC 13575	Powder:	VihtaVuori N133

STANDARDS / PROCEDURES	
NIJ-STD-0101.06 level IV (abbrev) (mod)	Required Velocity: 2880 fps ± 30 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 <sup>-6</sup> )	TIME 2 μs (10 <sup>-6</sup> )	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	162.2	44.4	1736	1738	2880	2877	2879	P	0°	37.38	

<b>REMARKS:</b> P=Partial Penetration C=Complete Penetration UH=Unfair Hit	<b>TEST RESULTS:</b> Test sample satisfied the ballistic requirements given.
	<b>FOOTNOTES:</b> Sample was not subjected to Armor Drop Test. Sample was not subjected to Armor Submersion.

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.