OREGON BALLISTIC LABORATORIES

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ISO/IEC 17025:2017 Accredited Laboratory
NVLAP Code: 200826-0

July 27, 2022

Tacticon Armament
11295 Sunrise Gold Cir. Ste F
Rancho Cordova, CA 95742
ATTN: Danny Sue

Dear Mr. Sue:

In accordance with your instructions, Oregon Ballistic Laboratories conducted Ballistic Resistance (V_0) testing on two samples.
The samples were tested in accordance with NIJ-STD-0101.06 Level III (abbreviated) (modified) – Special Threat in an indoor range with the muzzle of the test barrel mounted 50 feet away from the target and positioned to produce 0-degree obliquity impacts. Four Oehler model 57 infrared velocity light screens, in conjunction with two HP 5315A time-based frequency counters, were placed 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.:	Sample No.:	Weight (lbs.)	Projectile	Shots	Velocity (fps)		Penetrations	BFD (mm)		Pass/Fail
					Min.	Max.		Min.	Max.	
33173	TABP338502	3.36	M193	6	3222	3279	0	16.35	21.11	***PASS***
33175	TABP339001	3.33	M193	6	3230	3275	0	32.74	33.14	***PASS***

*Data shown in the table represents fair impacts only.

This report pertains only to the samples tested and may not be modified or edited in any way. This report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any federal government agency. Samples will be maintained at Oregon Ballistic Laboratories for 30 days and discarded unless other instructions are received. If you have any further questions or concerns, don't hesitate to contact us.

Darius Nuttbrock
Ballistic Test Director
Oregon Ballistic Laboratories
503.689.5134
Email: dnuttbrock@oregonbl.com

OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V_0

Customer:	Tacticon Armament
OBL ID#:	33173
Date Rcv'd:	7/12/2022
Test Date:	7/26/2022
Purchase Order:	1168

TEST SAMPLE

Sample No.:	TABP338502	**Size (in.):**	11 x 14
Model No.:	N/A	**Weight (lb.):**	3.36
Lot No.:	N/A	**Thickness:**	
Plies:	N/A	**Avg. Thk. (in):**	
Description:	Level III Hard Armor Plate		

RANGE SET-UP

Range to Target:	50 ft.	**Range #:**	2	**Pre Test:**					
Screen Dist. Vel. 1 (ft.):	5	**Temperature:**	70.4 °F	**Clay Drops (mm):**	19.08	20.03	21.15	21.49	20.76
Screen Dist. Vel. 2 (ft.):	4	**Bar. Pressure:**	29.85 in. Hg	**Drop Avg (mm):**	20.50				
Screen 4 to target (ft):	N/A	**Rel. Humidity:**	50.3 %	**Clay Temp °F:**	94.8				
Primary Vel. Location:	8.25 ft. from target	**Sample Temp.**	Amb. °F	**Clay Box #:**	7				
Striking Velocity:	No	**Recorder:**	Jason Stone	**Post Test:**					
Target to Witness:	N/A	**Gunner:**	Aaron Stone	**Clay Drops (mm):**	20.49	20.58	18.22	17.62	17.40
Witness Panel:	N/A			**Drop Avg (mm):**	18.86				
Backing Material:	5.5" clay block w/ 3/4" plywood backing			**Clay Temp °F:**	94.3				
Obliquity:	0 Degrees								
Barrel:	5.56mm NATO/1:7/30"								

AMMUNITION

Projectile:	5.56mm M193 Ball	**Powder:**	IMR 4227

STANDARDS / PROCEDURES

NIJ-STD-0101.06 Level III (abbrev) (mod) - Special Threat	**Required Velocity:** 3250 fps ± 30 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	55.1	19.8	1525	1220	3279	3279	**3279**	P	0°	21.11	
2	55.0	19.7	1550	1243	3226	3218	**3222**	P	0°	16.35	
3	55.0	19.7	1541	1230	3245	3252	**3249**	P	0°		
4	55.1	19.7	1550	1242	3226	3221	**3224**	P	0°		
5	55.0	19.8	1526	1222	3277	3273	**3275**	P	0°		
6	54.9	19.7	1550	1236	3226	3236	**3231**	P	0°		

REMARKS:

P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit
Projectile Yaw Check: <5° for all velocity shots

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was not subjected to Armor Drop Test.
Sample was not subjected to Armor Submersion.

OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V_0

Customer:	Tacticon Armament
OBL ID#:	33175
Date Rcv'd:	7/12/2022
Test Date:	7/26/2022
Purchase Order:	1168

TEST SAMPLE

Sample No.:	TABP339001	**Size (in.):**	11 x 14
Model No.:	N/A	**Weight (lb.):**	3.33
Lot No.:	N/A	**Thickness:**	
Plies:	N/A	**Avg. Thk. (in):**	
Description:	Level III Hard Armor Plate		

RANGE SET-UP

Range to Target:	50 ft.	**Range #:**	2	**Pre Test:**					
Screen Dist. Vel. 1 (ft.):	5	**Temperature:**	70.4 °F	**Clay Drops (mm):**	19.08	20.03	21.15	21.49	20.76
Screen Dist. Vel. 2 (ft.):	4	**Bar. Pressure:**	29.85 in. Hg	**Drop Avg (mm):**	20.50				
Screen 4 to target (ft):	N/A	**Rel. Humidity:**	50.3 %	**Clay Temp °F:**	94.8				
Primary Vel. Location:	8.25 ft. from target	**Sample Temp.**	Amb. °F	**Clay Box #:**	7				
Striking Velocity:	No	**Recorder:**	Jason Stone	**Post Test:**					
Target to Witness:	N/A	**Gunner:**	Aaron Stone	**Clay Drops (mm):**	20.49	20.58	18.22	17.62	17.40
Witness Panel:	N/A			**Drop Avg (mm):**	18.86				
Backing Material:	5.5" clay block w/ 3/4" plywood backing			**Clay Temp °F:**	94.3				
Obliquity:	0 Degrees								
Barrel:	5.56mm NATO/1:7/30"								

AMMUNITION

Projectile:	5.56mm M193 Ball	**Powder:**	IMR 4227

STANDARDS / PROCEDURES

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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	55.1	19.7	1536	1232	3255	3247	**3251**	P	0°	32.74	
2	55.1	19.7	1543	1235	3240	3239	**3240**	P	0°	33.14	
3	55.1	19.7	1546	1240	3234	3226	**3230**	P	0°		
4	54.9	19.7	1525	1223	3279	3271	**3275**	P	0°		
5	55.0	19.7	1530	1222	3268	3273	**3271**	P	0°		
6	55.1	19.7	1546	1235	3234	3239	**3237**	P	0°		

REMARKS:

P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit
Projectile Yaw Check: <5° for all velocity shots

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was not subjected to Armor Drop Test.
Sample was not subjected to Armor Submersion.

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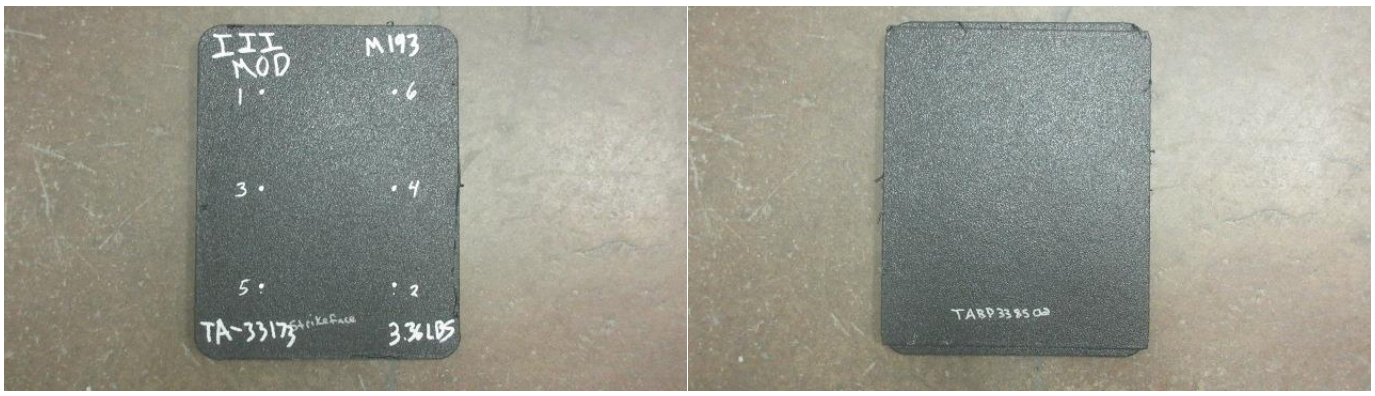
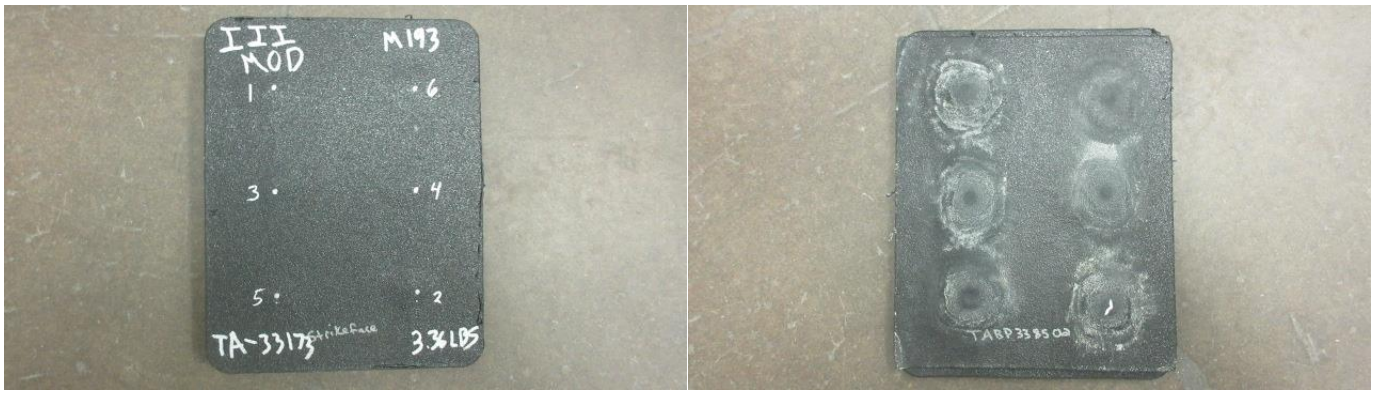
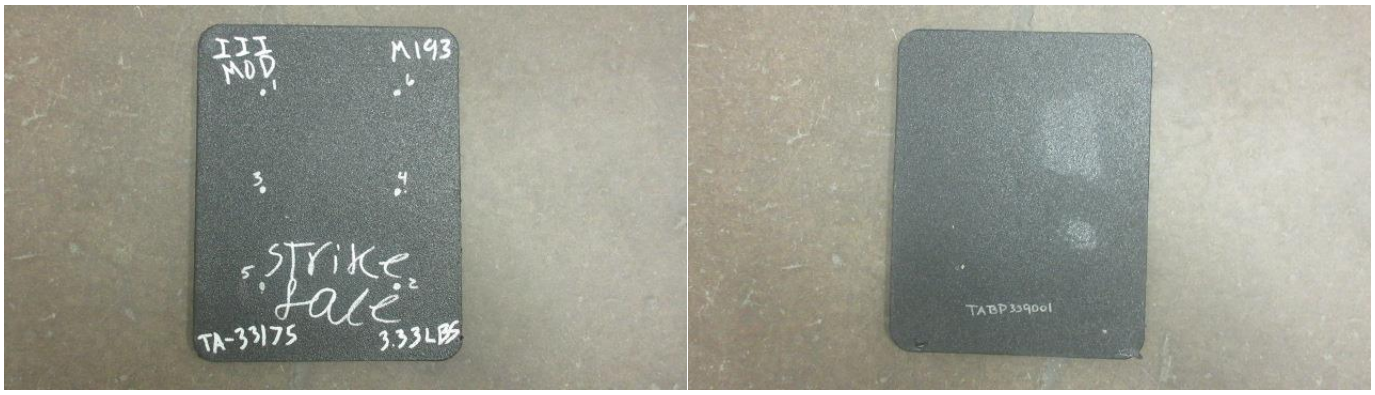
OBL# 33173 – Pre Test



OBL# 33173 – Post Test



OBL# 33175 – Pre Test



OBL# 33175 – Post Test