



January 27, 2017

RMA Armament, Inc.
 1479 Gillespie St. Suite 303
 Rock Island, IL 61201
 ATTN: Blake Waldrop

Dear Mr. Waldrop:

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

The samples were tested in accordance with NIJ-STD-0101.06 Level IV (abbrev) (mod) 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 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 (lbs.)	Projectile	Shots	Velocity (fps)	Penetrations	BFD (mm)	Pass/Fail
15875	003	7.96	.30 cal M2AP	1	2865	0	40.35	Pass
15876	004	7.95	.30 cal M2AP	1	2854	0	33.78	Pass
15877	014	8.09	.30 cal M2AP	1	2878	0	36.10	Pass
15878	001	7.99	.30 cal M2AP	1	2857	0	32.16	Pass
15879	002	8.07	.30 cal M2AP	1	2895	0	33.45	Pass
15880	005	7.97	.30 cal M2AP	1	2866	0	28.38	Pass
15881	006	8.02	.30 cal M2AP	1	2870	0	30.45	Pass
15882	007	8.00	.30 cal M2AP	1	2855	0	37.90	Pass
15883	008	7.97	.30 cal M2AP	1	2881	0	39.23	Pass



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



Test Sample			Ballistic Threat			Results		
OBL No.:	S/N.:	Weight (lbs.)	Projectile	Shots	Velocity (fps)	Penetrations	BFD (mm)	Pass/Fail
15884	009	8.07	.30 cal M2AP	1	2868	0	26.27	Pass
15885	010	7.86	.30 cal M2AP	1	2873	0	31.99	Pass
15886	011	8.01	.30 cal M2AP	1	2899	0	33.86	Pass
15887	012	7.99	.30 cal M2AP	1	2864	0	33.22	Pass
15888	013	8.05	.30 cal M2AP	1	2867	0	34.00	Pass

The samples were subjected to a 24 hour static conditioning cycle at 65°C / 80% humidity followed by a 24 hour thermal shock cycle per Section 6.2.3.

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



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OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15875
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE

Model No.: 1145
 Serial No.: 003
 Lot No.: OBL Test
 Plies: N/A
 Description: Hard Armor Plate

Size: 10 x 12
 Weight (lb.): 7.96
 Thickness: N/A
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft.
 Screen Dist. Vel. 1 (ft.): 5
 Screen Dist. Vel. 2 (ft.): 5
 Screen 4 to target (ft): N/A
 Primary Vel. Location: 8.25 ft. from target
 Striking Velocity: No
 Target to Witness: N/A
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: .30-06/1:10/33"

Range #: 2
 Temperature: 66.9 °F
 Bar. Pressure: 30.20 in. Hg
 Rel. Humidity: 43.7 %
 Sample Temp. Amb. °F
 Recorder: Darius Nuttbrock
 Gunner: Jared Curran

Pre Test:
 Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
 Drop Avg (mm): 20.22
 Clay Temp °F: 93.5
 Clay Box #: 1
 Post Test:
 Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
 Drop Avg (mm): 18.20
 Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.7	47.5	1745	1746	2865	2864	2865	P	0°	40.35	

REMARKS:

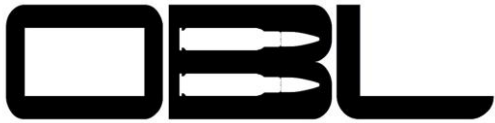
P=Partial Penetration
 C=Complete Penetration
 UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was subjected to Armor Drop Test per section 6.2.3.4
 Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15876
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE

Model No.: 1145
 Serial No.: 004
 Lot No.: OBL Test
 Plies: N/A
 Description: Hard Armor Plate

Size: 10 x 12
 Weight (lb.): 7.95
 Thickness: N/A
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft.
 Screen Dist. Vel. 1 (ft.): 5
 Screen Dist. Vel. 2 (ft.): 5
 Screen 4 to target (ft): N/A
 Primary Vel. Location: 8.25 ft. from target
 Striking Velocity: No
 Target to Witness: N/A
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: .30-06/1:10/33"

Range #: 2
 Temperature: 66.9 °F
 Bar. Pressure: 30.20 in. Hg
 Rel. Humidity: 43.7 %
 Sample Temp. Amb. °F
 Recorder: Darius Nuttbrock
 Gunner: Jared Curran

Pre Test:
 Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
 Drop Avg (mm): 20.22
 Clay Temp °F: 93.5
 Clay Box #: 1
 Post Test:
 Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
 Drop Avg (mm): 18.20
 Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.8	47.5	1752	1752	2854	2854	2854	P	0°	33.78	

REMARKS:

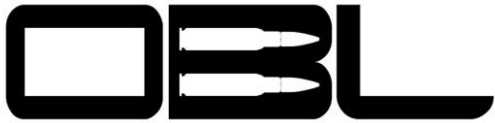
P=Partial Penetration
 C=Complete Penetration
 UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was subjected to Armor Drop Test per section 6.2.3.4
 Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15877
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE	
Model No.: 1145	Size: 10 x 12
Serial No.: 014	Weight (lb.): 8.09
Lot No.: OBL Test	Thickness: N/A
Plies: N/A	Avg. Thk. (in):
Description: Hard Armor Plate	

RANGE SET-UP								
Range to Target: 50 ft.	Range #: 2	Pre Test:						
Screen Dist. Vel. 1 (ft.): 5	Temperature: 66.9 °F	Clay Drops (mm):	19.27	21.94	20.22	19.84	19.85	
Screen Dist. Vel. 2 (ft.): 5	Bar. Pressure: 30.20 in. Hg	Drop Avg (mm):	20.22					
Screen 4 to target (ft): N/A	Rel. Humidity: 43.7 %	Clay Temp °F:	93.5					
Primary Vel. Location: 8.25 ft. from target	Sample Temp. Amb. °F	Clay Box #:	1					
Striking Velocity: No	Recorder: Darius Nuttbrock	Post Test:						
Target to Witness: N/A	Gunner: Jared Curran	Clay Drops (mm):	16.64	17.68	20.12	19.56	16.99	
Witness Panel: N/A		Drop Avg (mm):	18.20					
Backing Material: 5.5" clay block w/ 3/4" plywood backing		Clay Temp °F:	91.0					
Obliquity: 0 Degrees								
Barrel: .30-06/1:10/33"								

AMMUNITION	
Projectile: .30 cal. 160gr. M2 AP	Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.6	47.7	1737	1738	2879	2877	2878	P	0°	36.10	

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 Drop Test per section 6.2.3.4 Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15878
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE	
Model No.: 1145	Size: 10 x 12
Serial No.: 001	Weight (lb.): 7.99
Lot No.: OBL Test	Thickness: N/A
Plies: N/A	Avg. Thk. (in):
Description: Hard Armor Plate	

RANGE SET-UP								
Range to Target: 50 ft.	Range #: 2	Pre Test:						
Screen Dist. Vel. 1 (ft.): 5	Temperature: 66.9 °F	Clay Drops (mm):	19.27	21.94	20.22	19.84	19.85	
Screen Dist. Vel. 2 (ft.): 5	Bar. Pressure: 30.20 in. Hg	Drop Avg (mm):	20.22					
Screen 4 to target (ft): N/A	Rel. Humidity: 43.7 %	Clay Temp °F:	93.5					
Primary Vel. Location: 8.25 ft. from target	Sample Temp. Amb. °F	Clay Box #:	1					
Striking Velocity: No	Recorder: Darius Nuttbrock	Post Test:						
Target to Witness: N/A	Gunner: Jared Curran	Clay Drops (mm):	16.64	17.68	20.12	19.56	16.99	
Witness Panel: N/A		Drop Avg (mm):	18.20					
Backing Material: 5.5" clay block w/ 3/4" plywood backing		Clay Temp °F:	91.0					
Obliquity: 0 Degrees								
Barrel: .30-06/1:10/33"								

AMMUNITION	
Projectile: .30 cal. 160gr. M2 AP	Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.3	47.7	1750	1750	2857	2857	2857	P	0°	32.16	

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 Drop Test per section 6.2.3.4 Sample was subjected to Armor Submersion per section 7.8.2



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OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15879
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE

Model No.: 1145
 Serial No.: 002
 Lot No.: OBL Test
 Plies: N/A
 Description: Hard Armor Plate

Size: 10 x 12
 Weight (lb.): 8.07
 Thickness: N/A
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft.
 Screen Dist. Vel. 1 (ft.): 5
 Screen Dist. Vel. 2 (ft.): 5
 Screen 4 to target (ft): N/A
 Primary Vel. Location: 8.25 ft. from target
 Striking Velocity: No
 Target to Witness: N/A
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: .30-06/1:10/33"

Range #: 2
 Temperature: 66.9 °F
 Bar. Pressure: 30.20 in. Hg
 Rel. Humidity: 43.7 %
 Sample Temp. Amb. °F
 Recorder: Darius Nuttbrock
 Gunner: Jared Curran

Pre Test:
 Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
 Drop Avg (mm): 20.22
 Clay Temp °F: 93.5
 Clay Box #: 1
 Post Test:
 Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
 Drop Avg (mm): 18.20
 Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.5	47.7	1726	1729	2897	2892	2895	P	0°	33.45	

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 Drop Test per section 6.2.3.4
 Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15880
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE

Model No.: 1145
 Serial No.: 005
 Lot No.: OBL Test
 Plies: N/A
 Description: Hard Armor Plate

Size: 10 x 12
 Weight (lb.): 7.97
 Thickness: N/A
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft. Range #: 2
 Screen Dist. Vel. 1 (ft.): 5 Temperature: 66.9 °F
 Screen Dist. Vel. 2 (ft.): 5 Bar. Pressure: 30.20 in. Hg
 Screen 4 to target (ft): N/A Rel. Humidity: 43.7 %
 Primary Vel. Location: 8.25 ft. from target Sample Temp. Amb. °F
 Striking Velocity: No Recorder: Darius Nuttbrock
 Target to Witness: N/A Gunner: Jared Curran
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: .30-06/1:10/33"

Pre Test:
 Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
 Drop Avg (mm): 20.22
 Clay Temp °F: 93.5
 Clay Box #: 1
 Post Test:
 Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
 Drop Avg (mm): 18.20
 Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.2	47.7	1744	1745	2867	2865	2866	P	0°	28.38	

REMARKS:

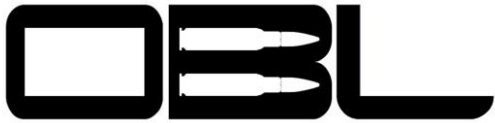
P=Partial Penetration
 C=Complete Penetration
 UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was subjected to Armor Drop Test per section 6.2.3.4
 Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15881
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE	
Model No.: 1145	Size: 10 x 12
Serial No.: 006	Weight (lb.): 8.02
Lot No.: OBL Test	Thickness: N/A
Plies: N/A	Avg. Thk. (in):
Description: Hard Armor Plate	

RANGE SET-UP								
Range to Target: 50 ft.	Range #: 2	Pre Test:						
Screen Dist. Vel. 1 (ft.): 5	Temperature: 66.9 °F	Clay Drops (mm):	19.27	21.94	20.22	19.84	19.85	
Screen Dist. Vel. 2 (ft.): 5	Bar. Pressure: 30.20 in. Hg	Drop Avg (mm):	20.22					
Screen 4 to target (ft): N/A	Rel. Humidity: 43.7 %	Clay Temp °F:	93.5					
Primary Vel. Location: 8.25 ft. from target	Sample Temp. Amb. °F	Clay Box #:	1					
Striking Velocity: No	Recorder: Darius Nuttbrock	Post Test:						
Target to Witness: N/A	Gunner: Jared Curran	Clay Drops (mm):	16.64	17.68	20.12	19.56	16.99	
Witness Panel: N/A		Drop Avg (mm):	18.20					
Backing Material: 5.5" clay block w/ 3/4" plywood backing		Clay Temp °F:	91.0					
Obliquity: 0 Degrees								
Barrel: .30-06/1:10/33"								

AMMUNITION	
Projectile: .30 cal. 160gr. M2 AP	Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	165.4	47.7	1743	1742	2869	2870	2870	P	0°	30.45	

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 Drop Test per section 6.2.3.4 Sample was subjected to Armor Submersion per section 7.8.2



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OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15882
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE

Model No.: 1145
 Serial No.: 007
 Lot No.: OBL Test
 Plies: N/A
 Description: Hard Armor Plate

Size: 10 x 12
 Weight (lb.): 8.00
 Thickness: N/A
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft.
 Screen Dist. Vel. 1 (ft.): 5
 Screen Dist. Vel. 2 (ft.): 5
 Screen 4 to target (ft): N/A
 Primary Vel. Location: 8.25 ft. from target
 Striking Velocity: No
 Target to Witness: N/A
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: .30-06/1:10/33"

Range #: 2
 Temperature: 66.9 °F
 Bar. Pressure: 30.20 in. Hg
 Rel. Humidity: 43.7 %
 Sample Temp. Amb. °F
 Recorder: Darius Nuttbrock
 Gunner: Jared Curran

Pre Test:
 Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
 Drop Avg (mm): 20.22
 Clay Temp °F: 93.5
 Clay Box #: 1
 Post Test:
 Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
 Drop Avg (mm): 18.20
 Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	165.0	47.7	1751	1752	2856	2854	2855	P	0°	37.90	

REMARKS:

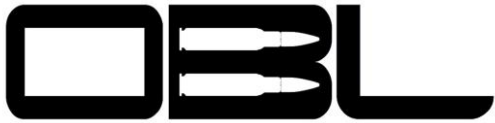
P=Partial Penetration
 C=Complete Penetration
 UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was subjected to Armor Drop Test per section 6.2.3.4
 Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15883
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE	
Model No.: 1145	Size: 10 x 12
Serial No.: 008	Weight (lb.): 7.97
Lot No.: OBL Test	Thickness: N/A
Plies: N/A	Avg. Thk. (in):
Description: Hard Armor Plate	

RANGE SET-UP								
Range to Target: 50 ft.	Range #: 2	Pre Test:						
Screen Dist. Vel. 1 (ft.): 5	Temperature: 66.9 °F	Clay Drops (mm):	19.27	21.94	20.22	19.84	19.85	
Screen Dist. Vel. 2 (ft.): 5	Bar. Pressure: 30.20 in. Hg	Drop Avg (mm):	20.22					
Screen 4 to target (ft): N/A	Rel. Humidity: 43.7 %	Clay Temp °F:	93.5					
Primary Vel. Location: 8.25 ft. from target	Sample Temp. Amb. °F	Clay Box #:	1					
Striking Velocity: No	Recorder: Darius Nuttbrock	Post Test:						
Target to Witness: N/A	Gunner: Jared Curran	Clay Drops (mm):	16.64	17.68	20.12	19.56	16.99	
Witness Panel: N/A		Drop Avg (mm):	18.20					
Backing Material: 5.5" clay block w/ 3/4" plywood backing		Clay Temp °F:	91.0					
Obliquity: 0 Degrees								
Barrel: .30-06/1:10/33"								

AMMUNITION	
Projectile: .30 cal. 160gr. M2 AP	Powder: N133

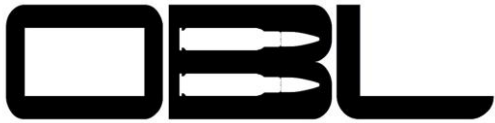
STANDARDS / PROCEDURES	
NIJ-STD-0101.06 Level IV (abbrev) (mod)	Required Velocity: 2880 fps ± 30 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.1	47.8	1735	1736	2882	2880	2881	P	0°	39.23	

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 Drop Test per section 6.2.3.4 Sample was subjected to Armor Submersion per section 7.8.2



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OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
OBL ID#: 15884
Test Date: 1/26/2017
Purchase Order:

TEST SAMPLE

Model No.: 1145
Serial No.: 009
Lot No.: OBL Test
Plies: N/A
Description: Hard Armor Plate

Size: 10 x 12
Weight (lb.): 8.07
Thickness: N/A
Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft. Range #: 2
Screen Dist. Vel. 1 (ft.): 5 Temperature: 66.9 °F
Screen Dist. Vel. 2 (ft.): 5 Bar. Pressure: 30.20 in. Hg
Screen 4 to target (ft): N/A Rel. Humidity: 43.7 %
Primary Vel. Location: 8.25 ft. from target Sample Temp. Amb. °F
Striking Velocity: No Recorder: Darius Nuttbrock
Target to Witness: N/A Gunner: Jared Curran
Witness Panel: N/A
Backing Material: 5.5" clay block w/ 3/4" plywood backing
Obliquity: 0 Degrees
Barrel: .30-06/1:10/33"

Pre Test:
Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
Drop Avg (mm): 20.22
Clay Temp °F: 93.5
Clay Box #: 1
Post Test:
Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
Drop Avg (mm): 18.20
Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	165.2	47.8	1743	1744	2869	2867	2868	P	0°	26.27	

REMARKS:

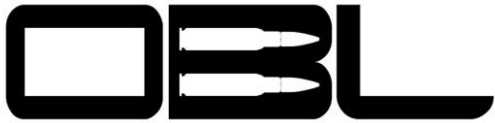
P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was subjected to Armor Drop Test per section 6.2.3.4
Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15885
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE

Model No.: 1145
 Serial No.: 010
 Lot No.: OBL Test
 Plies: N/A
 Description: Hard Armor Plate

Size: 10 x 12
 Weight (lb.): 7.86
 Thickness: N/A
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft. Range #: 2
 Screen Dist. Vel. 1 (ft.): 5 Temperature: 66.9 °F
 Screen Dist. Vel. 2 (ft.): 5 Bar. Pressure: 30.20 in. Hg
 Screen 4 to target (ft): N/A Rel. Humidity: 43.7 %
 Primary Vel. Location: 8.25 ft. from target Sample Temp. Amb. °F
 Striking Velocity: No Recorder: Darius Nuttbrock
 Target to Witness: N/A Gunner: Jared Curran
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: .30-06/1:10/33"

Pre Test:
 Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
 Drop Avg (mm): 20.22
 Clay Temp °F: 93.5
 Clay Box #: 1
 Post Test:
 Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
 Drop Avg (mm): 18.20
 Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	166.2	47.8	1740	1741	2874	2872	2873	P	0°	31.99	

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 Drop Test per section 6.2.3.4
 Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
OBL ID#: 15886
Test Date: 1/26/2017
Purchase Order:

TEST SAMPLE

Model No.: 1145
Serial No.: 011
Lot No.: OBL Test
Plies: N/A
Description: Hard Armor Plate

Size: 10 x 12
Weight (lb.): 8.01
Thickness: N/A
Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft. Range #: 2
Screen Dist. Vel. 1 (ft.): 5 Temperature: 67.3 °F
Screen Dist. Vel. 2 (ft.): 5 Bar. Pressure: 30.20 in. Hg
Screen 4 to target (ft): N/A Rel. Humidity: 43.7 %
Primary Vel. Location: 8.25 ft. from target Sample Temp. Amb. °F
Striking Velocity: No Recorder: Darius Nuttbrock
Target to Witness: N/A Gunner: Jared Curran
Witness Panel: N/A
Backing Material: 5.5" clay block w/ 3/4" plywood backing
Obliquity: 0 Degrees
Barrel: .30-06/1:10/33"

Pre Test:
Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
Drop Avg (mm): 20.22
Clay Temp °F: 93.5
Clay Box #: 1
Post Test:
Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
Drop Avg (mm): 18.20
Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.3	47.8	1725	1725	2899	2899	2899	P	0°	33.86	

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 Drop Test per section 6.2.3.4
Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15887
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE

Model No.: 1145
 Serial No.: 012
 Lot No.: OBL Test
 Plies: N/A
 Description: Hard Armor Plate

Size: 10 x 12
 Weight (lb.): 7.99
 Thickness: N/A
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft.
 Screen Dist. Vel. 1 (ft.): 5
 Screen Dist. Vel. 2 (ft.): 5
 Screen 4 to target (ft): N/A
 Primary Vel. Location: 8.25 ft. from target
 Striking Velocity: No
 Target to Witness: N/A
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: .30-06/1:10/33"

Range #: 2
 Temperature: 67.3 °F
 Bar. Pressure: 30.20 in. Hg
 Rel. Humidity: 43.7 %
 Sample Temp. Amb. °F
 Recorder: Darius Nuttbrock
 Gunner: Jared Curran

Pre Test:
 Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
 Drop Avg (mm): 20.22
 Clay Temp °F: 93.5
 Clay Box #: 1
 Post Test:
 Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
 Drop Avg (mm): 18.20
 Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.2	47.8	1746	1746	2864	2864	2864	P	0°	33.22	

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 Drop Test per section 6.2.3.4
 Sample was subjected to Armor Submersion per section 7.8.2



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: RMA Armament
 OBL ID#: 15888
 Test Date: 1/26/2017
 Purchase Order:

TEST SAMPLE

Model No.: 1145
 Serial No.: 013
 Lot No.: OBL Test
 Plies: N/A
 Description: Hard Armor Plate

Size: 10 x 12
 Weight (lb.): 8.05
 Thickness: N/A
 Avg. Thk. (in):

RANGE SET-UP

Range to Target: 50 ft. Range #: 2
 Screen Dist. Vel. 1 (ft.): 5 Temperature: 67.3 °F
 Screen Dist. Vel. 2 (ft.): 5 Bar. Pressure: 30.20 in. Hg
 Screen 4 to target (ft): N/A Rel. Humidity: 43.7 %
 Primary Vel. Location: 8.25 ft. from target Sample Temp. Amb. °F
 Striking Velocity: No Recorder: Darius Nuttbrock
 Target to Witness: N/A Gunner: Jared Curran
 Witness Panel: N/A
 Backing Material: 5.5" clay block w/ 3/4" plywood backing
 Obliquity: 0 Degrees
 Barrel: .30-06/1:10/33"

Pre Test:
 Clay Drops (mm): 19.27 21.94 20.22 19.84 19.85
 Drop Avg (mm): 20.22
 Clay Temp °F: 93.5
 Clay Box #: 1
 Post Test:
 Clay Drops (mm): 16.64 17.68 20.12 19.56 16.99
 Drop Avg (mm): 18.20
 Clay Temp °F: 91.0

AMMUNITION

Projectile: .30 cal. 160gr. M2 AP

Powder: 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 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	164.6	47.8	1744	1744	2867	2867	2867	P	0°	34.00	

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 Drop Test per section 6.2.3.4
 Sample was subjected to Armor Submersion per section 7.8.2