



4603 Compass Point Road
Belcamp, MD 21017

Preliminary Data

BALLISTIC RESISTANCE TEST

NTS-Belcamp
4603B Compass Point Road
Belcamp, MD 21017

Client: RMA Armament - King of Armor
Project No.: PH00005615
Test Date: 02/28/2023
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Test Panel Description: Torso plate tested stand alone. Model: 1155

Manufacturer: RMA Armament, Inc.

Sample No.: (APM2, V0, Wet) 20230310011

Size: 10.00 x 12.00 in
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 8.450 lbs
Plies/Laminates: N/A

Date Received: 02/27/2023
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0101.06
Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Wet per NIJ-STD-0101.06

Primary Vel. Screens (ft): 37.000, 37.333,
46.666, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: Range 6
Temp: 68 °F
BP: 30 inHg
RH: 40 %
Barrel/Gun: WC078560
Gunner: Stephen McDowell
Recorder: Jared McDowell

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .30-06 cal, 166-grain APM2	TW-45	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:55 PM; Block No. WC074191; Temp: 100 °F; Drop Depths: 21.2 mm, 17.8 mm, 18.5 mm, 18.7 mm, 20.3 mm
(1) NIJ-STD-0101.06 Level IV (Modified)
(2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	43.2	164.7	3477	2876	3247	2874	2875	None	32.7	0	

Remarks:
Required Velocity: 2850-2910 ft/s.
Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
N/A

BALLISTIC RESISTANCE TEST

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Test Panel Description: Torso plate tested stand alone. Model: 1155

Manufacturer: RMA Armament, Inc.

Sample No.: (APM2, V0, Wet) 20230310012

Size: 10.00 x 12.00 in
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 8.510 lbs
Plies/Laminates: N/A

Date Received: 02/27/2023
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0101.06
Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Wet per NIJ-STD-0101.06

Primary Vel. Screens (ft): 37.000, 37.333,
46.666, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: Range 6
Temp: 68 °F
BP: 32 inHg
RH: 40 %
Barrel/Gun: WC078560
Gunner: Stephen McDowell
Recorder: Jared McDowell

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .30-06 cal, 166-grain APM2	TW-45	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:55 PM; Block No. WC074191; Temp: 100 °F; Drop Depths: 21.2 mm, 17.8 mm, 18.5 mm, 18.7 mm, 20.3 mm
(1) NIJ-STD-0101.06 Level IV (Modified)
(2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	43.2	163.2	3485	2869	3255	2867	2868	None	28.8	0	

Remarks:
Required Velocity: 2850-2910 ft/s.
Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
N/A

BALLISTIC RESISTANCE TEST

NTS-Belcamp
4603B Compass Point Road
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Test Panel Description: Torso plate tested stand alone

Manufacturer: RMA Armament, Inc.

Sample No.: (APM2, V0, Wet) 20230310013

Size: 10.00 x 12.00 in
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 8.460 lbs
Plies/Laminates: N/A

Date Received: 02/27/2023
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0101.06
Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Wet per NIJ-STD-0101.06

Primary Vel. Screens (ft): 37.000, 37.333,
46.666, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: Range 6
Temp: 68 °F
BP: 30 inHg
RH: 42 %
Barrel/Gun: WC078560
Gunner: Stephen McDowell
Recorder: Jared McDowell

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .30-06 cal, 166-grain APM2	TW-45	Military	N133

Applicable Standards or Procedures

- (1) NIJ-STD-0101.06 Level IV (Modified)
(2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	43.2	163.2	3485	2869	3251	2871	2870	None	33.6	0	

Remarks:
Required Velocity: 2850-2910 ft/s.
Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
N/A

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Test Panel Description: Torso plate tested stand alone. Model: 1155

Manufacturer: RMA Armament, Inc.

Sample No.: (APM2, V0, Wet) 20230310014

Size: 10.00 x 12.00 in
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 8.470 lbs
Plies/Laminates: N/A

Date Received: 02/27/2023
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0101.06
Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Wet per NIJ-STD-0101.06

Primary Vel. Screens (ft): 37.000, 37.333,
46.666, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: Range 6
Temp: 68 °F
BP: 30 inHg
RH: 42 %
Barrel/Gun: WC078560
Gunner: Stephen McDowell
Recorder: Jared McDowell

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .30-06 cal, 166-grain APM2	TW-45	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 2:50 PM; Block No. WC074191; Temp: 97.8 °F; Drop Depths: 21.6 mm, 17.4 mm, 19.2 mm, 17.9 mm, 19.7 mm
(1) NIJ-STD-0101.06 Level IV (Modified)
(2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	163.2	163.2	3464	2887	3238	2882	2885	None	33.1	0	

Remarks:
Required Velocity: 2850-2910 ft/s.
Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
N/A

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Test Panel Description: Torso plate tested stand alone. Model: 1155

Manufacturer: RMA Armament, Inc.

Sample No.: (APM2, V0, Wet) 20230310015

Size: 10.00 x 12.00 in
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 8.510 lbs
Plies/Laminates: N/A

Date Received: 02/27/2023
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0101.06
Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Wet per NIJ-STD-0101.06

Primary Vel. Screens (ft): 37.000, 37.333,
46.666, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: Range 6
Temp: 68 °F
BP: 31 inHg
RH: 40 %
Barrel/Gun: WC078560
Gunner: Stephen McDowell
Recorder: Jared McDowell

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .30-06 cal, 166-grain APM2	TW-45	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:55 PM; Block No. WC074191; Temp: 100 °F; Drop Depths: 21.2 mm, 17.8 mm, 18.5 mm, 18.7 mm, 20.3 mm
(1) NIJ-STD-0101.06 Level IV (Modified)
(2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	43.2	163.6	3459	2891	3229	2890	2891	None	30.7	0	

Remarks:
Required Velocity: 2850-2910 ft/s.
Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
N/A

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Test Panel Description: Torso plate tested stand alone. Model: 1115

Manufacturer: RMA Armament, Inc.

Sample No.: (APM2, V0, Wet) 20230310016

Size: 10.00 x 12.00 in
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 8.500 lbs
Plies/Laminates: N/A

Date Received: 02/27/2023
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0101.06
Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Wet per NIJ-STD-0101.06

Primary Vel. Screens (ft): 37.000, 37.333,
46.666, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: Range 6
Temp: 68 °F
BP: 30 inHg
RH: 40 %
Barrel/Gun: WC078560
Gunner: Stephen McDowell
Recorder: Jared McDowell

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .30-06 cal, 166-grain APM2	TW-45	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:55 PM; Block No. WC074191; Temp: 100 °F; Drop Depths: 21.2 mm, 17.8 mm, 18.5 mm, 18.7 mm, 20.3 mm
(1) NIJ-STD-0101.06 Level IV (Modified)
(2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	43.2	165.8	3459	2891	3234	2886	2888	None	28.9	0	

Remarks:
Required Velocity: 2850-2910 ft/s.
Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
N/A

BALLISTIC RESISTANCE TEST

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Test Panel Description: Torso plate tested stand alone. Model: 1155

Manufacturer: RMA Armament, Inc.

Sample No.: (APM2, V0, Wet) 20230310017

Size: 10.00 x 12.00 in
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 8.500 lbs
Plies/Laminates: N/A

Date Received: 02/27/2023
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0101.06
Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Wet per NIJ-STD-0101.06

Primary Vel. Screens (ft): 37.000, 37.333,
46.666, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: Range 6
Temp: 68 °F
BP: 30 inHg
RH: 40 %
Barrel/Gun: WC078560
Gunner: Stephen McDowell
Recorder: Jared McDowell

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .30-06 cal, 166-grain APM2	TW-45	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:55 PM; Block No. WC074191; Temp: 100 °F; Drop Depths: 21.2 mm, 17.8 mm, 18.5 mm, 18.7 mm, 20.3 mm
(1) NIJ-STD-0101.06 Level IV (Modified)
(2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	43.2	163.6	3472	2880	3238	2882	2881	None	33.9	0	

Remarks:
Required Velocity: 2850-2910 ft/s.
Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
N/A

BALLISTIC RESISTANCE TEST

NTS-Belcamp
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Test Panel Description: Torso plate tested stand alone. Model: 1155

Manufacturer: RMA Armament, Inc.

Sample No.: (APM2, V0, Wet) 20230310018

Size: 10.00 x 12.00 in
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 8.540 lbs
Plies/Laminates: N/A

Date Received: 02/27/2023
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0101.06
Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Wet per NIJ-STD-0101.06

Primary Vel. Screens (ft): 37.000, 37.333,
46.666, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: Range 6
Temp: 68 °F
BP: 32 inHg
RH: 40 %
Barrel/Gun: WC078560
Gunner: Stephen McDowell
Recorder: Jared McDowell

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .30-06 cal, 166-grain APM2	TW-45	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:55 PM; Block No. WC074191; Temp: 100 °F; Drop Depths: 21.2 mm, 17.8 mm, 18.5 mm, 18.7 mm, 20.3 mm
(1) NIJ-STD-0101.06 Level IV (Modified)
(2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Deformation (mm)	Obliq. (°)	Footnotes
1	1	43.2	163.3	3494	2862	3260	2863	2862	None	26.9	0	

Remarks:
Required Velocity: 2850-2910 ft/s.
Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
N/A