



4603 Compass Point Road  
Belcamp, MD 21017

# Preliminary Data

# BALLISTIC RESISTANCE TEST

**Element U.S. Space & Defense -Belcamp**

4603B Compass Point Road  
Belcamp, MD 21017

Client: Delta Defense Technology Inc

Project No.: PH00014074

Test Date: 01/23/2025

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**Test Panel** Description: Torso plate tested stand alone.

**Manufacturer:** Delta Defense Technology Inc

**Sample No.:** (APM2, V0) Sample 1

Size: 9.75 x 11.50 in  
Avg. Thickness: N/A  
Thicknesses: N/A

Weight: 7.510 lbs  
Plies/Laminates: N/A

Date Received: 01/06/2025  
Received Via: FEDEX, Express  
Saver  
Returned Via: FEDEX, Express  
Saver

## Setup

Shot Spacing: NIJ-STD-0101.07  
Level RF3  
Witness Panel: Clay  
Backing Material: 5.5-in clay/plywood  
Condition: Conditioned per  
ASTM-3078M-23

Primary Vel. Screens (ft): 5.000, 5.333,  
19.666, 20.000  
Primary Vel. Location (ft): 12.500  
Range to Target (ft): 25.000  
Target to Witness (in): 0.000

Range No.: Range 1  
Temp: 73.4 °F  
BP: 30.2 inHg  
RH: 42 %  
Barrel/Gun: WC078634  
Gunner: George Ramming  
Recorder: Isaiah Lookingbill

## Ammunition

| Projectile                     | Lot No. | Manufacturer | Powder |
|--------------------------------|---------|--------------|--------|
| (1) .30-06 cal, 166-grain APM2 | TW45    | Military     | N133   |

## Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:55 PM; Block No. WC074194; Temp: 95.3 °F; Drop Depths: 19.2 mm, 19.2 mm, 20.5 mm, 19.9 mm, 17.6 mm

(1) NIJ-STD-0101.07 Level RF3 (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    | 43.0            | 164         | 5180        | 2896          | 4950        | 2896          | 2896             | None        | 36.7             | 0          |           |
| 2        | 1    | 43.0            | 164         | 5163        | 2905          | 4933        | 2906          | 2905             | None        | 37.6             | 0          |           |
| 3        | 1    | 43.0            | 164.1       | 5158        | 2908          | 4928        | 2908          | 2908             | None        | 42.6             | 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.

**Manufacturer:** Delta Defense Technology Inc

**Sample No.:** (APM2, V0) Sample 2

Size: 9.75 x 11.50 in  
Avg. Thickness: N/A  
Thicknesses: N/A

Weight: 7.520 lbs  
Plies/Laminates: N/A

Date Received: 01/06/2025  
Received Via: FEDEX, Express  
Saver  
Returned Via: FEDEX, Express  
Saver

## Setup

Shot Spacing: NIJ-STD-0101.07  
Level RF3  
Witness Panel: Clay  
Backing Material: 5.5-in clay/plywood  
Condition: Conditioned per  
ASTM-3078M-23

Primary Vel. Screens (ft): 5.000, 5.333,  
19.666, 20.000  
Primary Vel. Location (ft): 12.500  
Range to Target (ft): 25.000  
Target to Witness (in): 0.000

Range No.: Range 1  
Temp: 73.8 °F  
BP: 30.2 inHg  
RH: 43 %  
Barrel/Gun: WC078634  
Gunner: George Ramming  
Recorder: Isaiah Lookingbill

## Ammunition

| Projectile                     | Lot No. | Manufacturer | Powder |
|--------------------------------|---------|--------------|--------|
| (1) .30-06 cal, 166-grain APM2 | TW45    | Military     | N133   |

## Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:55 PM; Block No. WC074194; Temp: 95.3 °F; Drop Depths: 19.2 mm, 19.2 mm, 20.5 mm, 19.9 mm, 17.6 mm

(1) NIJ-STD-0101.07 Level RF3 (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    | 43.0            | 164         | 5239        | 2863          | 5000        | 2867          | 2865             | None        | 36.6             | 0          |           |
| 2        | 1    | 43.0            | 164.9       | 5156        | 2909          | 4925        | 2910          | 2910             | None        | 43.3             | 0          |           |
| 3        | 1    | 43.0            | 164         | 5165        | 2904          | 4935        | 2904          | 2904             | None        | 37.5             | 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.

**Manufacturer:** Delta Defense Technology Inc

**Sample No.:** (APM2, V0) Sample 3

Size: 9.75 x 11.50 in  
Avg. Thickness: N/A  
Thicknesses: N/A

Weight: 7.500 lbs  
Plies/Laminates: N/A

Date Received: 01/06/2025  
Received Via: FEDEX, Express  
Saver  
Returned Via: FEDEX, Express  
Saver

## Setup

Shot Spacing: NIJ-STD-0101.07  
Level RF3  
Witness Panel: Clay  
Backing Material: 5.5-in clay/plywood  
Condition: Conditioned per  
ASTM-3078M-23

Primary Vel. Screens (ft): 5.000, 5.333,  
19.666, 20.000  
Primary Vel. Location (ft): 12.500  
Range to Target (ft): 25.000  
Target to Witness (in): 0.000

Range No.: Range 1  
Temp: 73.8 °F  
BP: 30.2 inHg  
RH: 42 %  
Barrel/Gun: WC078634  
Gunner: George Ramming  
Recorder: Isaiah Lookingbill

## Ammunition

| Projectile                     | Lot No. | Manufacturer | Powder |
|--------------------------------|---------|--------------|--------|
| (1) .30-06 cal, 166-grain APM2 | TW45    | Military     | N133   |

## Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 2:30 PM; Block No. WC074194; Temp: 94.8 °F; Drop Depths: 19.7 mm,19.1 mm,20.6 mm,20.2 mm,18.1 mm

(1) NIJ-STD-0101.07 Level RF3 (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    | 43.0            | 163.8       | 5163        | 2905          | 4933        | 2906          | 2905             | None        | 36.1             | 0          |           |
| 2        | 1    | 43.0            | 163.4       | 5154        | 2910          | 4924        | 2911          | 2911             | None        | 36.9             | 0          |           |
| 3        | 1    | 43.0            | 163.6       | 5135        | 2921          | 4905        | 2922          | 2922             | None        | 41.2             | 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.

**Manufacturer:** Delta Defense Technology Inc

**Sample No.:** (APM2, V0, Wet) Sample 4

Size: 9.75 x 11.50 in  
Avg. Thickness: N/A  
Thicknesses: N/A

Weight: 6.560 lbs  
Plies/Laminates: N/A

Date Received: 01/06/2025  
Received Via: FEDEX, Express  
Saver  
Returned Via: FEDEX, Express  
Saver

## Setup

Shot Spacing: NIJ-STD-0101.07  
Level RF3  
Witness Panel: Clay  
Backing Material: 5.5-in clay/plywood  
Condition: Conditioned per  
ASTM-3078M-23  
followed by  
submersion per  
Appendix A.

Primary Vel. Screens (ft): 5.000, 5.333,  
19.666, 20.000  
Primary Vel. Location (ft): 12.500  
Range to Target (ft): 25.000  
Target to Witness (in): 0.000

Range No.: Range 1  
Temp: 73.8 °F  
BP: 30.2 inHg  
RH: 41 %  
Barrel/Gun: WC078634  
Gunner: George Ramming  
Recorder: Isaiah Lookingbill

## Ammunition

| Projectile                     | Lot No. | Manufacturer | Powder |
|--------------------------------|---------|--------------|--------|
| (1) .30-06 cal, 166-grain APM2 | TW45    | Military     | N133   |

## Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 2:30 PM; Block No. WC074194; Temp: 94.8 °F; Drop Depths: 19.7 mm,19.1 mm,20.6 mm,20.2 mm,18.1 mm  
(1) NIJ-STD-0101.07 Level RF3 (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    | 43.0            | 164         | 5158        | 2908          | 4926        | 2910         | 2909             | None        | 26.8             | 0          |           |
| 2        | 1    | 43.0            | 163.8       | 5178        | 2897          | 4944        | 2899         | 2898             | None        | 35.5             | 0          |           |
| 3        | 1    | 43.0            | 163.4       | 5169        | 2902          | 4939        | 2902         | 2902             | None        | 36.1             | 0          |           |

### Remarks:

Required Velocity: 2850-2910 ft./s.  
Projectile Yaw Check: 0° Yaw on All Impacts.  
Wet per NIJ 07

### Footnotes:

N/A

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**Test Panel** Description: Torso plate tested stand alone.

**Manufacturer:** Delta Defense Technology Inc

**Sample No.:** (APM2, V0, Wet) Sample 5

Size: 9.75 x 11.50 in  
Avg. Thickness: N/A  
Thicknesses: N/A

Weight: 6.550 lbs  
Plies/Laminates: N/A

Date Received: 01/06/2025  
Received Via: FEDEX, Express  
Saver  
Returned Via: FEDEX, Express  
Saver

## Setup

Shot Spacing: NIJ-STD-0101.07  
Level RF3 (Modified)  
Witness Panel: Clay  
Backing Material: 5.5-in clay/plywood  
Condition: Conditioned per  
ASTM-3078M-23  
followed by  
submersion per  
Appendix A.

Primary Vel. Screens (ft): 5.000, 5.333,  
19.666, 20.000  
Primary Vel. Location (ft): 12.500  
Range to Target (ft): 25.000  
Target to Witness (in): 0.000

Range No.: Range 1  
Temp: 74.2 °F  
BP: 30.2 inHg  
RH: 43 %  
Barrel/Gun: WC078634  
Gunner: George Ramming  
Recorder: Isaiah Lookingbill

## Ammunition

| Projectile                     | Lot No. | Manufacturer | Powder |
|--------------------------------|---------|--------------|--------|
| (1) .30-06 cal, 166-grain APM2 | TW45    | Military     | N133   |

## Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 3:02 PM; Block No. WC074195; Temp: 92.4 °F; Drop Depths: 18.9 mm,17.4 mm,18.4 mm,16.6 mm,19.1 mm

(1) NIJ-STD-0101.07 Level RF3 (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    | 43.0            | 163.3       | 5178        | 2897          | 4944        | 2899          | 2898             | None        | 24.1             | 0          |           |
| 2        | 1    | 43.0            | 163.5       | 5195        | 2887          | 4961        | 2889          | 2888             | None        | 41.6             | 0          |           |
| 3        | 1    | 43.0            | 163.1       | 5226        | 2870          | 4987        | 2874          | 2872             | None        | 33.4             | 0          |           |

### Remarks:

Required Velocity: 2850-2910 ft./s.

Projectile Yaw Check: 0° Yaw on All Impacts.

Wet per NIJ 07

### Footnotes:

N/A

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**Test Panel** Description: Torso plate tested stand alone.

**Manufacturer:** Delta Defense Technology Inc

**Sample No.:** (APM2, V0, Wet) Sample 6

Size: 9.75 x 11.50 in  
Avg. Thickness: N/A  
Thicknesses: N/A

Weight: 6.530 lbs  
Plies/Laminates: N/A

Date Received: 01/06/2025  
Received Via: FEDEX, Express  
Saver  
Returned Via: FEDEX, Express  
Saver

## Setup

Shot Spacing: NIJ-STD-0101.07  
Level RF3 (Modified)  
Witness Panel: Clay  
Backing Material: 5.5-in clay/plywood  
Condition: Conditioned per  
ASTM-3078M-23  
followed by  
submersion per  
Appendix A.

Primary Vel. Screens (ft): 5.000, 5.333,  
19.666, 20.000  
Primary Vel. Location (ft): 12.500  
Range to Target (ft): 25.000  
Target to Witness (in): 0.000

Range No.: Range 1  
Temp: 74.2 °F  
BP: 30.2 inHg  
RH: 43 %  
Barrel/Gun: WC078634  
Gunner: George Ramming  
Recorder: Isaiah Lookingbill

## Ammunition

| Projectile                     | Lot No. | Manufacturer | Powder |
|--------------------------------|---------|--------------|--------|
| (1) .30-06 cal, 166-grain APM2 | TW45    | Military     | N133   |

## Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 3:02 PM; Block No. WC074195; Temp: 92.4 °F; Drop Depths: 18.9 mm,17.4 mm,18.4 mm,16.6 mm,19.1 mm  
(1) NIJ-STD-0101.07 Level RF3 (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    | 43.0            | 163.7       | 5200        | 2885          | 4965        | 2887         | 2886             | None        | 19.2             | 0          |           |
| 2        | 1    | 43.0            | 163.6       | 5226        | 2870          | 4991        | 2872         | 2871             | None        | 31.6             | 0          |           |
| 3        | 1    | 43.0            | 164.1       | 5178        | 2897          | 4944        | 2899         | 2898             | None        | 34.1             | 0          |           |

### Remarks:

Required Velocity: 2850-2910 ft./s.  
Projectile Yaw Check: 0° Yaw on All Impacts.  
Wet per NIJ 07

### Footnotes:

N/A