



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.: PH00013790

Test Date: 01/23/2025

Page 1 of 1

Test Panel Description: Soft armor sample.

Manufacturer: Delta Defense Technology Inc

Sample No.: (.44 Mag, V0) C2-20244700 Front

Size: C2
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 1.850 lbs
Plies/Laminates: N/A

Date Received: 01/22/2025
Received Via: FEDEX, Express
Saver
Returned Via: FEDEX, Express
Saver

Setup

Shot Spacing: NIJ-STD-0101.07
Level HG2
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,
9.666, 10.000
Primary Vel. Location (ft): 7.500
Range to Target (ft): 15.000
Target to Witness (in): 0.000

Range No.: Range 2
Temp: 66.4 °F
BP: 30 inHg
RH: 36 %
Barrel/Gun: EL00000169
Gunner: Timothy Mackie
Recorder: Jacob Arisman

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .44 Mag, 240-grain SJHP	J28W	Speer	Accurate No. 5

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:35 PM; Block No. WC074187; Temp: 95.9 °F; Drop Depths: 20.9 mm,16.9 mm,20.6 mm,20.1 mm,18.8 mm

(1) NIJ-STD-0101.07 Level HG2 (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	14.4	240.9	3472	1440	3012	1439	1439	None	31.5	0	
2	1	14.4	240.9	3477	1438	3017	1436	1437	None	28.1	0	
3	1	14.4	240.9	3477	1438	3013	1438	1438	None	30.6	0	
4	1	14.4	241.1	3468	1442	3008	1440	1441	None		30	
5	1	14.4	241.1	3481	1436	3017	1436	1436	None		45	
6	1	14.4	241.1	3494	1431	3030	1430	1431	None		0	

Remarks:

Required velocity: 1400-1460 ft/s.

Projectile yaw check: 0° yaw on all Impacts

Footnotes:

N/A

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Page 1 of 1

Test Panel Description: Soft armor sample.

Manufacturer: Delta Defense Technology Inc

Sample No.: (.44 Mag, V0) C2-20244700 Back

Size: C2
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 2.020 lbs
Plies/Laminates: N/A

Date Received: 01/22/2025
Received Via: FEDEX, Express
Saver
Returned Via: FEDEX, Express
Saver

Setup

Shot Spacing: NIJ-STD-0101.07
Level HG2
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,
9.666, 10.000
Primary Vel. Location (ft): 7.500
Range to Target (ft): 15.000
Target to Witness (in): 0.000

Range No.: Range 2
Temp: 66.8 °F
BP: 30 inHg
RH: 37 %
Barrel/Gun: EL00000169
Gunner: Timothy Mackie
Recorder: Jacob Arisman

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .44 Mag, 240-grain SJHP	J28W	Speer	Accurate No. 5

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:59 PM; Block No. WC074187; Temp: 95.9 °F; Drop Depths: 21.5 mm,18.7 mm,19.5 mm,16.3 mm,17.8 mm

(1) NIJ-STD-0101.07 Level HG2 (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	14.4	241.1	3507	1426	3038	1426	1426	None	36.2	0	
2	1	14.4	241.1	3490	1433	3025	1432	1433	None	33.3	0	
3	1	14.4	241.1	3464	1443	3004	1442	1443	None	33.6	0	
4	1	14.4	241.1	3481	1436	3017	1436	1436	None		45	
5	1	14.4	241.1	3468	1442	3004	1442	1442	None		30	
6	1	14.4	241.1	3498	1429	3034	1428	1429	None		0	

Remarks:

Required velocity: 1400-1460 ft/s.

Projectile yaw check: 0° yaw on all Impacts

Footnotes:

N/A

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Page 1 of 1

Test Panel Description: Soft armor sample.

Manufacturer: Delta Defense Technology Inc

Sample No.: (.44 Mag, V0) C2-20244703 Front

Size: C4
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 3.470 lbs
Plies/Laminates: N/A

Date Received: 01/22/2025
Received Via: FEDEX, Express
Saver
Returned Via: FEDEX, Express
Saver

Setup

Shot Spacing: NIJ-STD-0101.07
Level HG2
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,
9.666, 10.000
Primary Vel. Location (ft): 7.500
Range to Target (ft): 15.000
Target to Witness (in): 0.000

Range No.: Range 2
Temp: 66.8 °F
BP: 30 inHg
RH: 36 %
Barrel/Gun: EL00000169
Gunner: Timothy Mackie
Recorder: Jacob Arisman

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .44 Mag, 240-grain SJHP	J28W	Speer	Accurate No. 5

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 2:24 PM; Block No. WC074190; Temp: 96.8 °F; Drop Depths: 20.7 mm,16.8 mm,21 mm,19.6 mm,19.7 mm

(1) NIJ-STD-0101.07 Level HG2 (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)	Oblq. (°)	Footnotes
1	1	14.4	241.1	3459	1446	2999	1445	1445	None	31.3	0	
2	1	14.4	241.1	3464	1443	2999	1445	1444	None	32.7	0	
3	1	14.4	241.2	3472	1440	3008	1440	1440	None	32.1	0	
4	1	14.4	241.3	3477	1438	3012	1439	1438	None		45	
5	1	14.4	241.3	3477	1438	3017	1436	1437	None		30	
6	1	14.4	241.4	3464	1443	2999	1445	1444	None		0	

Remarks:

Required velocity: 1400-1460 ft/s.

Projectile yaw check: 0° yaw on all Impacts

Footnotes:

N/A

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Page 1 of 1

Test Panel Description: Soft armor sample.

Manufacturer: Delta Defense Technology Inc

Sample No.: (.44 Mag, V0) C2-20244703 Back

Size: C4
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 3.710 lbs
Plies/Laminates: N/A

Date Received: 01/22/2025
Received Via: FEDEX, Express
Saver
Returned Via: FEDEX, Express
Saver

Setup

Shot Spacing: NIJ-STD-0101.07
Level HG2
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,
9.666, 10.000
Primary Vel. Location (ft): 7.500
Range to Target (ft): 15.000
Target to Witness (in): 0.000

Range No.: Range 2
Temp: 67.5 °F
BP: 30 inHg
RH: 36 %
Barrel/Gun: EL00000169
Gunner: Timothy Mackie
Recorder: Jacob Arisman

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .44 Mag, 240-grain SJHP	J28W	Speer	Accurate No. 5

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 2:45 PM; Block No. WC074190; Temp: 96 °F; Drop Depths: 21.8 mm, 20.2 mm, 20.2 mm, 19.3 mm, 18.7 mm

(1) NIJ-STD-0101.07 Level HG2 (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	14.4	241.5	3481	1436	3021	1434	1435	None	32.3	0	
2	1	14.4	241.6	3477	1438	3017	1436	1437	None	32.2	0	
3	1	14.4	241.6	3464	1443	3004	1442	1443	None	32.9	0	
4	1	14.4	241.6	3472	1440	3008	1440	1440	None		30	
5	1	14.4	241.6	3451	1449	2995	1447	1448	None		45	
6	1	14.4	241.6	3472	1440	3008	1440	1440	None		0	

Remarks:

Required velocity: 1400-1460 ft/s.

Projectile yaw check: 0° yaw on all impacts

Footnotes:

N/A

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Project No.: PH00013790

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Page 1 of 1

Test Panel Description: Soft armor sample.

Manufacturer: Delta Defense Technology Inc

Sample No.: (.44 Mag, V0) C2-20244705 Front

Size: C4
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 3.470 lbs
Plies/Laminates: N/A

Date Received: 01/22/2025
Received Via: FEDEX, Express
Saver
Returned Via: FEDEX, Express
Saver

Setup

Shot Spacing: NIJ-STD-0101.07
Level HG2
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,
9.666, 10.000
Primary Vel. Location (ft): 7.500
Range to Target (ft): 15.000
Target to Witness (in): 0.000

Range No.: Range 2
Temp: 67.1 °F
BP: 30 inHg
RH: 35 %
Barrel/Gun: EL00000169
Gunner: Timothy Mackie
Recorder: Jacob Arisman

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .44 Mag, 240-grain SJHP	J28W	Speer	Accurate No. 5

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 3:07 PM; Block No. WC074169; Temp: 91.2 °F; Drop Depths: 17.7 mm,16.1 mm,16.5 mm,18 mm,18.5 mm

(1) NIJ-STD-0101.07 Level HG2 (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	14.4	241.7	3451	1449	2991	1449	1449	None	28.4	0	
2	1	14.4	241.7	3507	1426	3043	1424	1425	None	29.5	0	
3	1	14.4	241.7	3451	1449	2991	1449	1449	None	31.5	0	
4	1	14.4	241.7	3481	1436	3021	1434	1435	None		30	
5	1	14.4	241.7	3472	1440	3012	1439	1439	None		45	
6	1	14.4	241.8	3472	1440	3008	1440	1440	None		0	

Remarks:

Required velocity: 1400-1460 ft/s.

Projectile yaw check: 0° yaw on all Impacts

Footnotes:

N/A

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Page 1 of 1

Test Panel Description: Soft armor sample.

Manufacturer: Delta Defense Technology Inc

Sample No.: (.44 Mag, V0) C2-20244705 Back

Size: C4
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 3.660 lbs
Plies/Laminates: N/A

Date Received: 01/22/2025
Received Via: FEDEX, Express
Saver
Returned Via: FEDEX, Express
Saver

Setup

Shot Spacing: NIJ-STD-0101.07
Level HG2
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,
9.666, 10.000
Primary Vel. Location (ft): 7.500
Range to Target (ft): 15.000
Target to Witness (in): 0.000

Range No.: Range 2
Temp: 66.8 °F
BP: 30 inHg
RH: 36 %
Barrel/Gun: EL00000169
Gunner: Timothy Mackie
Recorder: Jacob Arisman

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .44 Mag, 240-grain SJHP	J28W	Speer	Accurate No. 5

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 3:30 PM; Block No. WC074169; Temp: 91 °F; Drop Depths: 18.4 mm, 19.1 mm, 19 mm, 16.9 mm, 16.2 mm

(1) NIJ-STD-0101.07 Level HG2 (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	14.4	241.8	3451	1449	2991	1449	1449	None	33.3	0	
2	1	14.4	241.6	3490	1433	3025	1432	1433	None	29.1	0	
3	1	14.4	241.5	3481	1436	3017	1436	1436	None	27.3	0	
4	1	14.4	241.3	3412	1465	2960	1464	1465	None		45	
5	1	14.4	241.3	3490	1433	3025	1432	1433	None		30	
6	1	14.4	241.3	3494	1431	3030	1430	1431	None		0	

Remarks:

Required velocity: 1400-1460 ft/s.

Projectile yaw check: 0° yaw on all impacts

Footnotes:

N/A