



HELMETS – BALLISTIC TESTS
TACTICSHOP LLC PROPRIETARY INFORMATION

BALLISTIC RESISTANCE TEST

Element U.S. Space & Defense 4603B Compass Point Road Belcamp, MD 21017	Client: Tacticshop LLC Project No.: PH00012601-4 Test Date: 08/26/2024 Page 1 of 1
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Test Panel | Description: Ballistic helmet with pads and retention system

Manufacturer: Tacticshop LLC | Sample No.: (9mm, V0) 520040

Size: Large Avg. Thickness: 0.458 in Thicknesses: 0.448 in, 0.466 in, 0.453 in, 0.463 in	Weight: 3.340 lbs Plies/Laminates: N/A	Date Received: 08/23/2024 Received Via: UPS Ground Returned Via: UPS Ground
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Setup

Shot Spacing: NIJ-STD-0106.01 Witness Panel: 0.02 in 2024-T3 Al Backing Material: N/A Condition: Ambient	Primary Vel. Screens (ft): 6.500, 9.500 Primary Vel. Location (ft): 8.000 Range to Target (ft): 16.400 Target to Witness (in): 3.000	Range No.: Range 1 Temp: 68.8 °F BP: 30.2 inHg RH: 50 % Barrel/Gun: WC075131 Gunner: Adam Beach Recorder: Isaiah Lookingbill
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Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) 9-mm, 124-grain FMJ	23558	Remington	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0106.01 (Modified)
- (2) NIJ-STD-0108.01 Level IIIA (Modified)

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	Obliq. (°)	Footnotes
1	1	6.2	125.4	2097	1431	2097	1431	1431	None	0	(a)
2	1	6.2	125.4	2105	1425	2105	1425	1425	None	0	(b)
3	1	6.2	125.4	2114	1419	2114	1419	1419	None	0	(c)
4	1	6.2	125.4	2118	1416	2118	1416	1416	None	0	(d)

Remarks:
 Required Velocity: 1350-1450 ft./s.
 Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
 (a) Front
 (b) Back
 (c) Right
 (d) Left



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BALLISTIC RESISTANCE TEST

Element U.S. Space & Defense 4603B Compass Point Road Belcamp, MD 21017	Client: Tacticshop LLC Project No.: PH00012601-5 Test Date: 08/26/2024 Page 1 of 1
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Test Panel | Description: Ballistic helmet with pads and retention system

Manufacturer: Tacticshop LLC | Sample No.: (9mm, V0, Wet) 520041

Size: Large Avg. Thickness: 0.448 in Thicknesses: 0.463 in, 0.442 in, 0.445 in, 0.442 in	Weight: 3.400 lbs Plies/Laminates: N/A	Date Received: 08/23/2024 Received Via: UPS Ground Returned Via: UPS Ground
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Setup

Shot Spacing: NIJ-STD-0106.01 Witness Panel: 0.02 in 2024-T3 Al Backing Material: N/A Condition: Submerged in water for 2-4 hours	Primary Vel. Screens (ft): 6.500, 9.500 Primary Vel. Location (ft): 8.000 Range to Target (ft): 16.400 Target to Witness (in): 3.000	Range No.: Range 1 Temp: 68.8 °F BP: 30.2 inHg RH: 52 % Barrel/Gun: WC075131 Gunner: Adam Beach Recorder: Isaiah Lookingbill
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Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) 9-mm, 124-grain FMJ	23558	Remington	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0106.01 (Modified)
- (2) NIJ-STD-0108.01 Level IIIA (Modified)

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	Obliq. (°)	Footnotes
1	1	6.2	125.4	2105	1425	2105	1425	1425	None	0	(a)
2	1	6.2	125.4	2097	1431	2097	1431	1431	None	0	(b)
3	1	6.2	125.4	2114	1419	2114	1419	1419	None	0	(c)
4	1	6.2	125.4	2110	1422	2110	1422	1422	None	0	(d)

Remarks:
 Required Velocity: 1350-1450 ft. /s.
 Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
 (a) Front
 (b) Back
 (c) Right
 (d) Left



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BALLISTIC RESISTANCE TEST

Element U.S. Space & Defense 4603B Compass Point Road Belcamp, MD 21017	Client: Tacticshop LLC Project No.: PH00012601-6 Test Date: 08/26/2024 Page 1 of 1
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Test Panel | Description: Ballistic helmet with pads and retention system

Manufacturer: Tacticshop LLC | Sample No.: (9mm, V0) 520037

Size: Large Avg. Thickness: 0.433 in Thicknesses: 0.440 in, 0.421 in, 0.429 in, 0.441 in	Weight: 3.310 lbs Plies/Laminates: N/A	Date Received: 08/23/2024 Received Via: UPS Ground Returned Via: UPS Ground
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Setup

Shot Spacing: NIJ-STD-0106.01 Witness Panel: Instrumented head form Backing Material: Instrumented head form Condition: Ambient	Primary Vel. Screens (ft): 6.500, 9.500 Primary Vel. Location (ft): 8.000 Range to Target (ft): 16.400 Target to Witness (in): 3.000	Range No.: Range 1 Temp: 69.1 °F BP: 30.2 inHg RH: 50 % Barrel/Gun: WC075131 Gunner: Adam Beach Recorder: Isaiah Lookingbill
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Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) 9-mm, 124-grain FMJ	23558	Remington	Accurate No. 2

Applicable Standards or Procedures

- (1) NIJ-STD-0106.01 (Modified)
- (2) NIJ-STD-0108.01 Level IIIA (Modified)

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	6.2	125.4	2105	1425	2105	1425	1425	None	344.690	0	(a)
2	1	6.2	125.4	2088	1437	2088	1437	1437	None	393.490	0	(b)
3	1	6.2	125.4	2088	1437	2088	1437	1437	None	287.570	0	(c)
4	1	6.2	125.4	2097	1431	2097	1431	1431	None	316.940	0	(d)

Remarks:
 Required Velocity: 1350-1450 ft. /s.
 Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:
 (a) Front
 (b) Back
 (c) Right
 (d) Left



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BALLISTIC RESISTANCE TEST											
Element U.S. Space & Defense-Belcamp 4603B Compass Point Road Belcamp, MD 21017						Client: Tacticshop LLC Project No.: PH00013582 Test Date: 11/19/2024 Page 1 of 1					
Test Panel		Description: Ballistic helmet with pads and retention system.									
Manufacturer: Tacticshop LLC						Sample No.: (.44 Mag, V0) 520042					
Size: Large Avg. Thickness: 0.309 in Thicknesses: 0.310 in, 0.308 in, 0.308 in, 0.309 in				Weight: 3.230 lbs Plies/Laminates: N/A				Date Received: 11/13/2024 Received Via: USPS Returned Via: USPS			
Setup											
Shot Spacing: NIJ-STD-0106.01(Modified) Witness Panel: 0.02 in 2024-T3 Al Backing Material: NIJ-0106.01 Head form Condition: Ambient				Primary Vel. Screens (ft): 6.500, 9.500 Primary Vel. Location (ft): 8.000 Range to Target (ft): 16.400 Target to Witness (in): 3.000				Range No.: Range 2 Temp: 66.8 °F BP: 30 inHg RH: 42 % Barrel/Gun: EL00000169 Gunner: David Bell Recorder: Jacob Arisman			
Ammunition											
Projectile			Lot No.			Manufacturer			Powder		
(1) .44 Mag., 240-grain SWCGC			NA			Remington			3 N 38		
Applicable Standards or Procedures											
(1) NIJ-STD-0106.01 (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	Obliq. (°)	Footnotes
1	1	13.8	239.7	2149	1396	2157	1391	1393	None	0	(a)
2	1	13.8	239.7	2210	1357	2218	1353	1355	None	0	(b)
3	1	13.8	239.9	2184	1374	2192	1369	1371	None	0	(c)
4	1	13.8	239.9	2101	1428	2110	1422	1425	None	0	(d)
Remarks: Required velocity: 1350-1450 ft/s. Projectile yaw check: 0° yaw on all Impacts											
Footnotes: (a) Front (b) Back (c) Right (d) Left											



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BALLISTIC RESISTANCE TEST											
Element U.S. Space & Defense 4603B Compass Point Road Belcamp, MD 21017						Client: Tacticsshop LLC Project No.: PH00012601-1 Test Date: 08/26/2024 Page 1 of 1					
Test Panel Description: Ballistic helmet with pads and retention system											
Manufacturer: Tacticsshop LLC						Sample No.: (.44 Mag, V0) 520036					
Size: Large Avg. Thickness: 0.443 in Thicknesses: 0.433 in, 0.438 in, 0.441 in, 0.458 in				Weight: 3.430 lbs Plies/Laminates: N/A				Date Received: 08/23/2024 Received Via: UPS Ground Returned Via: UPS Ground			
Setup											
Shot Spacing: NIJ-STD-0106.01 Witness Panel: 0.02 in 2024-T3 Al Backing Material: N/A Condition: Ambient				Primary Vel. Screens (ft): 6.500, 9.500 Primary Vel. Location (ft): 8.000 Range to Target (ft): 16.400 Target to Witness (in): 3.000				Range No.: Range 1 Temp: 68.8 °F BP: 30.2 inHg RH: 52 % Barrel/Gun: CT-3033 Gunner: Adam Beach Recorder: Isaiah Lookingbill			
Ammunition											
Projectile			Lot No.			Manufacturer			Powder		
(1) .44 Mag., 240-grain SWCGC			NA			Remington			3 H 38		
Applicable Standards or Procedures											
(1) NIJ-STD-0106.01 (Modified) (2) NIJ-STD-0108.01 Level IIIA (Modified)											
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	Obliq. (°)	Footnotes
1	1	14.2	239.6	2079	1443	2079	1443	1443	None	0	(a)
2	1	14.2	239.5	2105	1425	2105	1425	1425	None	0	(b)
3	1	14.2	240	2223	1350	2223	1350	1350	None	0	(c)
4	1	14.2	239.9	2192	1369	2192	1369	1369	None	0	(d)
Remarks: Required Velocity: 1350-1450 ft./s. Projectile Yaw Check: 0° Yaw on All Impacts.											
Footnotes: (a) Front (b) Back (c) Right (d) Left											