



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.: PH00011512 Test Date: 05/29/2024 Page 1 of 1				
Test Panel		Description: Ballistic helmet with pads and retention system.										
Manufacturer: Delta Defense Technology Inc						Sample No.: (9mm, V0) Sample 1						
Size: Large Avg. Thickness: 0.311 in Thicknesses: 0.308 in, 0.304 in, 0.319 in, 0.314 in				Weight: 3.020 lbs Plies/Laminates: N/A				Date Received: 05/06/2024 Received Via: UPS Ground Returned Via: UPS Ground				
Setup												
Shot Spacing: NIJ-STD-0106.01 Witness Panel: Clay Backing Material: Clay-filled 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): 0.000					Range No.: Range 3 Temp: 64.6 °F BP: 30 inHg RH: 46 % Barrel/Gun: WC020651 Gunner: Timothy Mackie Recorder: Keivin Guzman			
Ammunition												
Projectile				Lot No.		Manufacturer			Powder			
(1) 9-mm, 124-grain FMJ				23558		Remington			Accurate No. 2			
Applicable Standards or Procedures												
Clay Drop 1 - Drop Time: 11:35 AM; Block No. WC074957; Temp: 97.1 °F, 96.5 °F; Drop Depths: 24.2 mm,25.9 mm,25.5 mm (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	Deformation (mm)	Obliq. (°)	Footnotes
1	1	5.5	124	2189	1370	2186	1372	1371	None	14.8	0	(a)
2	1	5.5	124	2174	1380	2172	1381	1381	None	10.9	0	(b)
3	1	5.5	124	2176	1379	2172	1381	1380	None	6.1	0	(c)
4	1	5.5	124	2198	1365	2198	1365	1365	None	3.7	0	(d)
Remarks: Required Velocity: 1350 - 1450 ft/s. Projectile Yaw Check: 0° Yaw on all Impacts. Head form: HB1-1, Temp: 96.4 °F.												
Footnotes: (a) Front (b) Back (c) Right (d) Left												

PROTECTION BALLISTIC LIMIT TEST, V ₅₀ BL(P)													
Element U.S. Space & Defense 4603B Compass Point Road Belcamp, MD 21017										Client: Delta Defense Technology Inc Project No.: PH00011512 Test Date: 05/29/2024 Page 1 of 2			
Test Panel		Description: Ballistic helmet without pads and retention system.											
Manufacturer: Delta Defense Technology Inc							Sample No.: (17gr., V50) Sample 2						
Size: Large Avg. Thickness: 0.316 in Thicknesses: 0.318 in, 0.308 in, 0.318 in, 0.319 in					Weight: 2.700 lbs Plies/Laminates: N/A Required BL(P): 2200 ft/s					Date Received: 05/06/2024 Received Via: UPS Ground Returned Via: UPS Ground			
Setup													
Shot Spacing: STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 Witness Panel: 0.02 in 2024-T3 Al Backing Material: N/A 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): 3.000					Range No.: Range 3 Temp: 64.6 °F BP: 30 inHg RH: 42 % Barrel/Gun: WC020651 Gunner: Timothy Mackie Recorder: Keivin Guzman			
Ammunition													
Projectile				Lot No.			Manufacturer			Powder			
(1) .22 cal, 17-grain FSP				17062223			Contra Threat Sciences			Bullseye			
Applicable Standards or Procedures													
(1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016 (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)	Striking Vel. (ft/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	9.6	17	2047	2443	1774	2443	2443	2338	C	No	0	(a)
2	1	9.0	17	2106	2374	1827	2372	2373	2271	P	Yes	0	(b)
3	1	9.3	17	2074	2411	1798	2410	2410	2307	C	No	0	(c)
4	1	9.1	17	2093	2389	1815	2387	2388	2286	C	No	0	(d)
5	1	8.8	17	2140	2336	1857	2333	2335	2235	C	Yes	0	(e)
6	1	8.5	17	2186	2287	1896	2285	2286	2189	P	Yes	0	(a)
7	1	8.8	17	2140	2336	1854	2337	2337	2237	C	Yes	0	(b)
8	1	8.5	17	2220	2252	1923	2253	2253	2156	P	Yes	0	(c)
9	1	8.8	17	2203	2270	1910	2269	2269	2172	C	Yes	0	(d)
Remarks: Requested starting Velocity: 2300 ft/s. Projectile Yaw Check: 0° Yaw on all Impacts.										V ₅₀ Summary: No. of Points: 3 and 3 V ₅₀ : 2210 ft/s High Partial: 2271 ft/s Low Complete: 2172 ft/s Range of Results (ROR): 115 ft/s Range of Mix Results (RMR): 99 ft/s Gap: N/A			
Footnotes: (a) Crown (b) Front (c) Left (d) Back (e) Right													

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

Element U.S. Space & Defense
4603B Compass Point Road
Belcamp, MD 21017

Client: Delta Defense Technology Inc
Job No.: PH00011512
Test Date: 05/29/2024
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Manufacturer: Delta Defense Technology Inc

Sample No.: (17gr., V50) Sample 2

V₅₀ Summary:

No. of Points: 3 and 3
V₅₀: 2210 ft/s
High Partial: 2271 ft/s
Low Complete: 2172 ft/s
Range of Results (ROR): 115 ft/s
Range of Mix Results (RMR): 99 ft/s
Gap: N/A

