

Element U.S. Space & Defense Test Report for Ballistic Resistance Testing

Project No.: PH00013965 Tested: 31 December 2024 P.O. No.: Signed Quote OH23335

Prepared For

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Further dissemination only as directed by Ace Link Industrial Inc., March 2025.

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Revision History

Rev.	Description	Issue Date
0	Initial Release	March 2025

BALLISTIC RESISTANCE TEST

Element U.S. Space & Defense

4603B Compass Point Road
Belcamp, MD 21017

Client: Ace Link Industrial Inc.

Project No.: PH00013965-1

Test Date: 12/31/2024

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Test Panel Description: Soft armor sample.

Manufacturer: Ace Link Industrial Inc.

Sample No.: Panel A-1 Front

Size: C5
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 4.000 lbs
Plies/Laminates: N/A

Date Received: 12/19/2024
Received Via: UPS Ground
Returned Via: UPS Ground

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 3
Temp: 65 °F
BP: 30 inHg
RH: 43 %
Barrel/Gun: WC020651
Gunner: Timothy Mackie
Recorder: Keivin Guzman

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: 10:40 AM; Block No. WC074180; Temp: 95.3 °F; Drop Depths: 20.8 mm,17.1 mm,20.7 mm, 18.7 mm,19.6 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	14.3	240	3507	1426	3033	1429	1427	None	32.1	0	(a)
2	1	14.3	240	3504	1427	3033	1429	1428	None	31.1	0	
3	1	14.3	240	3517	1422	3041	1425	1423	None	30.7	0	
4	1	14.3	240	3524	1419	3050	1421	1420	None	25.1	45	
5	1	14.3	240	3441	1453	2977	1455	1454	None	28.5	30	
6	1	14.3	240	3517	1422	3041	1425	1423	None	13.4	45	
7	1	14.3	240	3475	1439	3006	1441	1440	None	17.3	0	

Remarks:

Required Velocity: 1400 - 1460 ft/s.

Projectile Yaw Check: 0° Yaw on All Impacts.

Footnotes:

(a) Neckline Shot

ATTACHMENT A CALIBRATION DATA

WC060267	101	YIS/Cowden Group, I	Chrono USB	Chronograph 1	Range 3	6/5/2024	6/5/2025
WC067005	106	YIS/Cowden Group, I	Chrono USB	Chronograph 2	Range 3	6/5/2024	6/5/2025
WC079246	A21106926	RCBS	1500	Powder Scale	Range 3	11/12/2024	11/12/2025
WC060370	26059102	Sartorius	Combics	Floor scale	Range 3	1/17/2025	1/17/2026
WC064334	906	Starrett	530-100	100 ft Tape Measure	Range 3	5/23/2024	5/23/2025
WC074990	WC074990	Dewalt	DWHT36107	25 ft Tape Measure	Range 3	10/12/2023	10/12/2025
EL00004012	EL00004012	Craftsman	CMHT37525	25 ft Tape Measure	Range 3	9/11/2023	9/11/2025
WC067391	192291544	Control Company	4040	Temp and Humidity	Range 3	8/20/2024	8/20/2025
EL00004196	230371969	Control Company	4378	Thermometer	Range 3	10/7/2024	10/7/2026
WC060650	570001	SPI	91-316-0	Angle Block	Range 3	11/13/2023	11/13/2025
EL00004122	23/240027	Starrett	3753A-6/150	DG Tool	Range 3	5/23/2024	5/23/2025
WC079400	18/110094	Starrett	3753A-6/150	BFD Bridge	Range 3	9/12/2024	9/12/2025

END OF REPORT