

BALLISTIC RESISTANCE TEST

Element U.S. Space & Defense -Belcamp

4603B Compass Point Road
Belcamp, MD 21017

Client: Ace Link Industrial Inc.

Project No.: PH00011788

Test Date: 06/18/2024

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Test Panel Description: Dual Protection Soft Armor () SN: 231114-75

Manufacturer: Ace Link Industrial Inc. Sample No.: (.44 Mag, V0) Soft Panel B-2

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

Weight: 3.270 lbs
Plies/Laminates: N/A

Date Received: 05/31/2024
Received Via: UPS Ground
Returned Via: UPS Ground

Setup

Shot Spacing: NIJ-STD-0101.06
Level IIIA
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 6.500, 6.833,
11.166, 11.500
Primary Vel. Location (ft): 9.000
Range to Target (ft): 17.200
Target to Witness (in): 0.000

Range No.: Range 2
Temp: 66.1 °F
BP: 30 inHg
RH: 48 %
Barrel/Gun: EL00000169
Gunner: Adam Beach
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: 11:00 AM; Block No. WC074187; Temp: 96.8 °F; Drop Depths: 21.3 mm, 20.3 mm, 21.7 mm, 19.9 mm, 20.6 mm

- (1) Customer Request
- (2) NIJ-STD-0101.06 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	14.2	241	3525	1418	3050	1421	1420	None	27.3	0	(a)
2	1	14.2	241	3551	1408	3073	1410	1409	None	25.8	0	
3	1	14.2	241	3503	1427	3038	1426	1427	None	29.4	0	
4	1	14.2	241	3529	1417	3056	1418	1417	None	19.1	30	
5	1	14.2	241.1	3572	1400	3085	1405	1402	None	4.3	45	
6	1	14.2	241.2	3542	1412	3069	1412	1412	None	23.7	0	

Remarks:

Required Velocity: 1400 - 1460 ft/s
Projectile Yaw Check: 0° Yaw on all Impacts.

Footnotes:

(a) Projectile exited the side of the sample and embedded into the clay.

STAB RESISTANCE TEST

Element U.S. Space and Defense

4603B Compass Point Rd
Belcamp, MD 21017

Client: Ace Link Armor

Project No.: PH00011788

Test Date: 6/20/2024

Test Panel

Description: Dual Protection Soft Armor (28FDC215+6UD220+EVA)

Manufacturer: Ace Link Armor

Sample No.: B-1

Model No.: A-SAP-A15-3AS1
Lot No.: NA
Gender: NA
Size: 2XL

Plies: NA
Weight: 0.00 lbs.
Coverage Area: NA
Areal Density: NA

Date Received: 05/31-2024
Via: UPS
Returned: UPS

Setup

Temp: 71 °F
BP: 29.99 inHg
RH: 52 %

Armor Condition: Ambient
Drop Mass: 1.91 kg
Witness Material: NA

Ball Drop Bounces: 15 in. 15 in.
Tester: Kyler Reisler
Recorder: Kyler Reisler

Applicable Standards or Procedures

(1) AS PER CUSTOMER REQUEST

(2) NIJ-0115.00

Impact No.	Threat	Tip Sharpness (HRC)	Level	Energy Level	Angle of Incidence (deg.)	Drop Height (m)	Impact Velocity (m/s)	Strike Energy (J)	Depth of Penetration (mm)	Footnotes
1	Spike	-60	1	E1	0	1.30	5.01	23.97	0	
2	Spike	-60	1	E2	0	1.95	6.14	36.00	11	
3	Spike	-60	1	E1	45	1.30	5.00	23.88	0	

Remarks:

Test Threat Information Updated KCN 3.28.2022

Spike - Manufacturer: Contra Threat Sciences LLC; Lot No.: 7NIJ110921

Footnotes: