

NTS Technical Systems Test Report for Stab Resistance Testing

Project No.: PH00008242 **Tested:** 18 September 2023 **P.O. No.:** J-230813NTS

Prepared For

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Further dissemination only as directed by Lam Enterprise Co., 28 September 2023.

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Revision History

Rev.	Description	Issue Date
0	Initial Release	28 September 2023

STAB RESISTANCE TEST

NTS-Belcamp
4603B Compass Point Rd
Belcamp, MD 21017

Client: Armor Japan
Project No.: PH00008242-1
Test Date: 9/18/2023

Test Panel Description: 8 x 8 Panel

Manufacturer: Lam Enterprise Co.

Sample No.: NA

Model No.: AR40
Lot No.: NA
Gender: NA
Size: NA

Plies: 40
Weight: 0.46 lbs.
Coverage Area: NA
Areal Density: NA

Date Received: 9/18/2023
Via: FedEx
Returned: FedEx

Setup

Temp: 69.0 °F
BP: 29.99 inHg
RH: 51 %

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

Ball Drop Bounces: 15 in. 15 in.
Tester: Jason Kelsch
Recorder: Jason Kelsch

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	P1	-60	1	E1	0.0	1.30	4.99	23.78	0.0	
2	P1	-60	1	E2	0.0	1.95	6.15	36.12	20.0	
3	S1	-60	1	E2	0.0	1.95	6.15	36.12	1.0	
4	Spike	-60	1	E1	0.0	1.30	5.02	24.07	0.0	
5	Spike	-60	1	E2	0.0	1.95	6.18	36.47	0.0	

Remarks:

Lot Numbers as of 3.28.2022 KCN

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

Threat: P1/A, Manufacturer: High Speed Carbide, Lot No.: NA

Threat: S1/G, Manufacturer: High Speed Carbide, Lot No.: NA

Footnotes:

**ATTACHMENT A
CALIBRATION DATA**

Asset Number	Asset Type	Manufacturer	Model	Calibrated	Due
465	Stab Tower	BioKinetics	Stab Tower Apparatus	NA	NA
192291247	Thermometer and Humidity Monitor	Control Company	4040	10/28/2022	10/28/2023
EL00004021	Stab Sabot	BioKinetics	Stab Sabot	NA	NA
EL00004023	Velocity Gate	BioKinetics	Velocity Gate	NA	NA
1	Stab Tower Potentiometer	Sakae	MT46-20	NA	NA

END OF REPORT