OREGON BALLISTIC LABORATORIES

March 30, 2016

Legacy Safety & SECURITY
125 Stafford Place
New Orleans LA 70124
Attn: Robert Hausman

Dear Mr. Hausman:

In accordance with your instructions, Oregon Ballistic Laboratories conducted stab testing on one sample.
The sample were tested in accordance with NIJ-0115.0 in an indoor lab. Two laser break screens, in conjunction with one time-based frequency counter, were used to measure impact velocity and calculate strike energy. Penetrations were determined by examination of NIJ foam and polyart paper.

Samples will be maintained at Oregon Ballistic Laboratories for 30 days and then discarded, unless other instructions are received. If you have any further questions or concerns, please contact us.

Sincerely,

Brandon Bertsch
Oregon Ballistic Laboratories

OREGON BALLISTIC LABORATORIES

STAB RESISTANCE TEST

Customer:	**Legacy Safety & SECURITY**
OBL ID#:	**12340**
Test Date:	**3/29/2016**
Purchase Order:	

TEST SAMPLE

Sample No.:	**N/A**	**Size (in.):**	**16 x 16**
Serial No.:	**N/A**	**Weight (lb.):**	**3.72**
Lot No.:	**N/A**	**Thickness:**	
Plies:	**N/A**	**Avg. Thk. (in):**	
Description:	**Soft Armor Panel**		

RANGE SET-UP

Velocity measurement:	**Frequency counter (HP 5316B)**	**Tester:**	**Brandon Bertsch**
Witness Material:	**NIJ Foam**	**Recorder:**	**Brandon Bertsch**
Armor Condition:	**New**	**Temperature:**	**70.0**
Ball Drop Bounces (in.):	**15.5 & 15.5**	**Rel. Humidity:**	**42.5**
		Bar. Pressure:	**30.10**

STANDARDS / PROCEDURES

NIJ-0115.0

IMPACT NO.	THREAT	TIP SHARPNESS (HRC)	LEVEL	ENERGY LEVEL	Drop Mass (kg.)	ANGLE OF INCIDENCE (DEGREES)	DROP HEIGHT (M)	TIME ms (10-3)	IMPACT VELOCITY (M/S)	STRIKE ENERGY (J)	DEPTH OF PENETRATION (MM)	NOTES
1	P1	-50	1	E1	1.920	0°	1.346	8.115	5.01	24.08	-	Max Penetration: 7 mm
2	P1	-50	1	E2	1.920	0°	2.062	6.600	6.16	36.40	-	Max Penetration: 20 mm
3	S1	-74	1	E1	1.920	0°	1.349	8.186	4.96	23.66	-	
4	S1	-74	1	E2	1.920	0°	2.058	6.482	6.27	37.74	-	
5	S1	-74	1	E1	1.920	45°	1.360	8.175	4.97	23.73	-	
6	P1	-50	1	E1	1.920	45°	1.373	8.049	5.05	24.47	-	

REMARKS:

Spike weight = 1.910kg

Blade weight = 1.920kg

TEST RESULTS:

Test sample satisfied the requirements given.