

Test Record No.	Product/Model No.	Weapon	Joules	Penetration (mm)
BRBS15001 Page 1 of 4	RiggsShield RSL1	Spike	43.5	0
		Spike	65.3	0
		Spike	43.1	0
		P1/A	43.5	0
		P1/A	65.0	0
		P1/A	43.1	0
		S1/G	43.5	0
		S1/G	64.9	0
		S1/G	43.6	0
BRBS15001 Page 2 of 4	RiggsShield RSL1	Spike	43.7	0
		Spike	65.6	0
		Spike	43.6	0
		P1/A	43.5	0
		P1/A	64.7	0
		P1/A	43.5	0
		S1/G	43.0	0
		S1/G	65.4	0
		S1/G	43.2	0
BRBS15001 Page 3 of 4	RiggsShield RSL1	Spike	43.6	0
		Spike	65.1	0
		Spike	43.0	0
		P1/A	43.6	0
		P1/A	65.3	0
		P1/A	43.4	0
		S1/G	43.2	0
		S1/G	65.3	0
		S1/G	42.9	0
BRBS15001 Page 4 of 4	RiggsShield RSL1	Spike	43.7	0
		Spike	65.4	0
		Spike	43.4	0
		P1/A	43.4	0
		P1/A	65.8	0
		P1/A	43.7	0
		S1/G	43.0	0
		S1/G	64.8	0
		S1/G	43.3	0



**National Institute
of Justice (NIJ)**

Approved Test Laboratory

For Personal Body Armor

Expiration Date:

April 30, 2016

National Technical Systems

7447 W. 33rd St. N.

Wichita, KS 67205 U.S.A.

Phone (316) 832-1600 Fax (316) 832-1602

Email ustl@nts.com

www.nts.com/locations/wichita



NVLAP LAB CODE: 200818-0

Approved Signatory: Matthew Lutz

MODIFIED / ABBREVIATED NIJ 0115.00 STAB RESISTANCE TEST

Date Received: 07/21/15

Via: UPS

Returned Via: UPS

Sample 1

Manufacturer: BRB Design, LLC

Model No.: RiggsShield RSL1

Serial No.: 7152015-2

Test Conditions:

Temperature: 70 °F

Humidity: 52 %

Record No.: BRBS15001

Test Date: 07/31/15

Customer: BRB Design, LLC

Page 1 of 4

Laser Beam Distance:	30 mm		Upper Drop Mass: 1245 g.															
Drop Number	1		2		3		4		5		6		7		8		9	
Strike Energy Goal (J)	E1	43	E2	65	E1	43	E1	43	E2	65	E1	43	E1	43	E2	65	E1	43
Angle of Incidence	0°		0°		45°		0°		0°		45°		0°		0°		45°	
Threat Weapon	Spike		Spike		Spike		P1/A		P1/A		P1/A		S1/G		S1/G		S1/G	
Spike Mass (g)	7.00		7.00		7.00		18.79		18.79		18.79		44.33		44.33		44.33	
Lower Mass w/o Blade (g)	652.00		652.00		652.00		634.00		634.00		634.00		609.00		609.00		609.00	
Total Drop Mass (g)	1904		1904		1904		1898		1898		1898		1898		1898		1898	
Drop Height	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in
	7	10.0	11	10.0	7	10.0	7	10.0	11	10.0	7	10.0	7	10.0	11	10.0	7	10.0
Time to Traverse Beams (ms)	4.529		3.692		4.551		4.522		3.694		4.542		4.523		3.698		4.521	
Drop Energy (J)	43.5		65.3		43.1		43.5		65.0		43.1		43.5		64.9		43.6	
Fair Hit (Y/N)	Y		Y		Y		Y		Y		Y		Y		Y		Y	
Penetration (mm)	0		0		0		0		0		0		0		0		0	
Impact Location	Top Left		Center		Center Right		Top Center		Center Left		Bottom Right		Bottom Left		Center		Top Right	
Sample Weight (lbs.)	4.95		4.95		4.95		4.95		4.95		4.95		4.95		4.95		4.95	
Tip Sharpness (HRC)	Pass		Pass		Pass		Pass		Pass		Pass		Pass		Pass		Pass	
Remarks																		

This test report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST, NIJ or any agency of the Federal Government. This report contains data that are not covered by the NVLAP accreditation. This test was performed in accordance with the specification requirements listed in addition to any customer testing modifications or requests. The test results properly reflect the performance of the listed sample. This report shall not be reproduced except in full without written approval of National Technical Systems.

Test Remarks/Notes:

BRB Design, LLC, Model No.: RiggsShield RSL1, Size: 16.25 x 8.5 inch.

Sample Description:

Layer 1: Rigid woven material (5x5, 0.500" thick).

Nguyen

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Date Received: 07/21/15
Via: UPS
Returned Via: UPS

Sample 2
Manufacturer: BRB Design, LLC
Model No.: RiggsShield RSL1
Serial No.: 7162015-2

Test Conditions:
Temperature: 70 °F
Humidity: 52 %

Record No.: BRBS15001
Test Date: 07/31/15
Customer: BRB Design, LLC

Laser Beam Distance:	30 mm		Upper Drop Mass: 1245 g.															
Drop Number	10		11		12		13		14		15		16		17		18	
Strike Energy Goal (J)	E1	43	E2	65	E1	43	E1	43	E2	65	E1	43	E1	43	E2	65	E1	43
Angle of Incidence	0°		0°		45°		0°		0°		45°		0°		0°		45°	
Threat Weapon	Spike		Spike		Spike		P1/A		P1/A		P1/A		S1/G		S1/G		S1/G	
Spike Mass (g)	7.00		7.00		7.00		18.79		18.79		18.79		44.33		44.33		44.33	
Lower Mass w/o Blade (g)	652.00		652.00		652.00		634.00		634.00		634.00		609.00		609.00		609.00	
Total Drop Mass (g)	1904		1904		1904		1898		1898		1898		1898		1898		1898	
Drop Height	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in
	7	10.0	11	10.0	7	10.0	7	10.0	11	10.0	7	10.0	7	10.0	11	10.0	7	10.0
Time to Traverse Beams (ms)	4.519		3.683		4.526		4.525		3.702		4.521		4.550		3.683		4.538	
Drop Energy (J)	43.7		65.6		43.6		43.5		64.7		43.5		43.0		65.4		43.2	
Fair Hit (Y/N)	Y		Y		Y		Y		Y		Y		Y		Y		Y	
Penetration (mm)	0		0		0		0		0		0		0		0		0	
Impact Location	Bottom Left		Center		Top Right		Top Left		Center		Center Right		Top Center		Center Left		Bottom Right	
Sample Weight (lbs.)	4.95		4.95		4.95		4.95		4.95		4.95		4.95		4.95		4.95	
Tip Sharpness (HRC)	Pass		Pass		Pass		Pass		Pass		Pass		Pass		Pass		Pass	
Remarks																		

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Test Remarks/Notes:

BRB Design, LLC, Model No.: RiggsShield RSL1, Size: 16.25 x 8.5 inch.

Sample Description:

Layer 1: Rigid woven material (5x5, 0.500" thick).

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Sample 3

Manufacturer: BRB Design, LLC

Model No.: RiggsShield RSL1

Serial No.: 7152015-3

Test Conditions:

Temperature: 70 °F

Humidity: 52 %

Record No.: BRBS15001

Test Date: 07/31/15

Customer: BRB Design, LLC

Page 3 of 4

Laser Beam Distance:	30 mm		Upper Drop Mass: 1245 g.															
Drop Number	19		20		21		22		23		24		25		26		27	
Strike Energy Goal (J)	E1	43	E2	65	E1	43	E1	43	E2	65	E1	43	E1	43	E2	65	E1	43
Angle of Incidence	0°		0°		45°		0°		0°		45°		0°		0°		45°	
Threat Weapon	Spike		Spike		Spike		P1/A		P1/A		P1/A		S1/G		S1/G		S1/G	
Spike Mass (g)	7.00		7.00		7.00		18.79		18.79		18.79		44.33		44.33		44.33	
Lower Mass w/o Blade (g)	652.00		652.00		652.00		634.00		634.00		634.00		609.00		609.00		609.00	
Total Drop Mass (g)	1904		1904		1904		1898		1898		1898		1898		1898		1898	
Drop Height	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in
	7	10.0	11	10.0	7	10.0	7	10.0	11	10.0	7	10.0	7	10.0	11	10.0	7	10.0
Time to Traverse Beams (ms)	4.524		3.698		4.555		4.520		3.687		4.528		4.539		3.686		4.556	
Drop Energy (J)	43.6		65.1		43.0		43.6		65.3		43.4		43.2		65.3		42.9	
Fair Hit (Y/N)	Y		Y		Y		Y		Y		Y		Y		Y		Y	
Penetration (mm)	0		0		0		0		0		0		0		0		0	
Impact Location	Top Center		Center Left		Bottom Right		Bottom Left		Center		Top Right		Top Left		Center		Center Right	
Sample Weight (lbs.)	5.03		5.03		5.03		5.03		5.03		5.03		5.03		5.03		5.03	
Tip Sharpness (HRC)	Pass		Pass		Pass		Pass		Pass		Pass		Pass		Pass		Pass	
Remarks																		

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Test Remarks/Notes:

BRB Design, LLC, Model No.: RiggsShield RSL1, Size: 16.25 x 8.5 inch.

Sample Description:

Layer 1: Rigid woven material (5x5, 0.500" thick).

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Date Received: 07/21/15

Via: UPS

Returned Via: UPS

Sample 4

Manufacturer: BRB Design, LLC

Model No.: RiggsShield RSL1

Serial No.: 7162015-3

Test Conditions:

Temperature: 70 °F

Humidity: 52 %

Record No.: BRBS15001

Test Date: 07/31/15

Customer: BRB Design, LLC

Page 4 of 4

Laser Beam Distance:		30 mm		Upper Drop Mass:		1245 g.												
Drop Number	28		29		30		31		32		33		34		35		36	
Strike Energy Goal (J)	E1	43	E2	65	E1	43	E1	43	E2	65	E1	43	E1	43	E2	65	E1	43
Angle of Incidence	0°		0°		45°		0°		0°		45°		0°		0°		45°	
Threat Weapon	Spike		Spike		Spike		P1/A		P1/A		P1/A		S1/G		S1/G		S1/G	
Spike Mass (g)	7.00		7.00		7.00		18.79		18.79		18.79		44.33		44.33		44.33	
Lower Mass w/o Blade (g)	652.00		652.00		652.00		634.00		634.00		634.00		609.00		609.00		609.00	
Total Drop Mass (g)	1904		1904		1904		1898		1898		1898		1898		1898		1898	
Drop Height	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in
	7	10.0	11	10.0	7	10.0	7	10.0	11	10.0	7	10.0	7	10.0	11	10.0	7	10.0
Time to Traverse Beams (ms)	4.522		3.689		4.537		4.527		3.671		4.515		4.549		3.701		4.536	
Drop Energy (J)	43.7		65.4		43.4		43.4		65.8		43.7		43.0		64.8		43.3	
Fair Hit (Y/N)	Y		Y		Y		Y		Y		Y		Y		Y		Y	
Penetration (mm)	0		0		0		0		0		0		0		0		0	
Impact Location	Center		Center Right		Top Left		Bottom Right		Top Center		Center Left		Top Right		Bottom Left		Center	
Sample Weight (lbs.)	4.99		4.99		4.99		4.99		4.99		4.99		4.99		4.99		4.99	
Tip Sharpness (HRC)	Pass		Pass		Pass		Pass		Pass		Pass		Pass		Pass		Pass	
Remarks																		

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Sample Description:

Layer 1: Rigid woven material (5x5, 0.500" thick).

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