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ISO/IEC 17025:2017 Accredited Laboratory  
NVLAP Code: 200826-0

June 1<sup>st</sup>, 2023

Riot Glass  
17941 Brookshire Lane  
Huntington Beach, CA 93647  
ATTN: Brad Campbell

Dear Mr. Campbell:

In accordance with your instructions, Oregon Ballistic Laboratories conducted Ballistic Resistance testing ( $V_0$ ) on one sample.

The sample was tested in accordance with UL 752 Level 3 (modified) – Spall Allowed in an indoor range with the muzzle of the test barrel mounted 16.5 feet from the target and positioned to produce 0-degree obliquity impacts. Four Oehler model 57 infrared velocity light screens, in conjunction with two HP 5315A time-based frequency counters, were placed such that projectile velocity was measured 8.25 feet from the target. Penetrations were determined by examination of a piece of 1/8" corrugated cardboard witness mounted 18 inches behind and parallel to the test sample. Results for all testing performed for this purpose are summarized in the following table.

Test Sample				Ballistic Threat				Results	
OBL No.:	Model No.:	Weight (lbs.)	Average Thickness (in.)	Projectile	Shots	Velocity (fps)		Penetrations	Pass/Fail
						Min.	Max.		
35331	RG2	11.53	1.031	.44 Mag SWCGC	3	1381	1409	0	<b><u>PASS</u></b>

\*Data shown in the table represents fair impacts only.

**This report pertains only to the samples tested and may not be modified or edited in any way.** This report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any federal government agency. Samples will be maintained at Oregon Ballistic Laboratories for 30 days and discarded unless other instructions are received. If you have any further questions or concerns, don't hesitate to contact us.

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Contributors to measurement of uncertainty:

Velocity- tape measure used for screen spacing, Measurement of uncertainty of frequency counters



## BALLISTIC RESISTANCE TEST - V<sub>0</sub>

Customer: Riot Glass  
OBL ID#: 35331  
Date Rcv'd: 4/27/2023  
Test Date: 5/11/2023  
Purchase Order:

### TEST SAMPLE

Model No.:	RG2	Size (in.):	12 x 12
Sample No.:	2	Weight (lb.):	11.53
Lot No.:	N/A	Thickness:	1.031 1.031 1.032 1.030
Plies:	N/A	Avg. Thk. (in):	1.031
Description:	Ballistic Transparency		

### RANGE SET-UP

Range to Target:	16.5 ft.	Range #:	3	Pre Test:	CLAY CALIBRATION NOT REQUIRED
Screen Dist. Vel. 1 (ft.):	5	Temperature:	71.9 °F	Clay Drops (mm):	
Screen Dist. Vel. 2 (ft.):	4	Bar. Pressure:	29.81 in. Hg	Drop Avg (mm):	
Screen 4 to target (ft):	N/A	Rel. Humidity:	44.0 %	Clay Temp °F:	
Primary Vel. Location:	8.25 ft. from target	Sample Temp.	Amb. °F	Clay Box #:	
Striking Velocity:	No	Recorder:	Jerhemi Stone	Post Test:	
Target to Witness:	18 in.	Gunner:	Nathan Myers	Clay Drops (mm):	
Witness Panel:	1/8" Corr. Cardboard			Drop Avg (mm):	
Backing Material:	N/A			Clay Temp °F:	
Obliquity:	0 Degrees				
Barrel:	.44 Mag/1:20/8"				

### AMMUNITION

Projectile: .44 Mag 240gr. SWCGC RCBS 82042 Montana Bullet Works Powder: Accurate No. 2

### STANDARDS / PROCEDURES

UL 752 Level 3 (mod) - Spall Allowed Required Velocity: 1350 fps + 135 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 $\mu$ s (10 <sup>-6</sup> )	TIME 2 $\mu$ s (10 <sup>-6</sup> )	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	CALIPER BFD	NOTES
1	240.1	11.9	3551	2839	1408	1409	1409	P	0°		Spall Complete
2	240.6	12.0	3635	2889	1376	1385	1381	P	0°		Spall Complete
3	241.4	12.0	3553	2838	1407	1409	1408	P	0°		Spall Complete

### REMARKS:

P=Partial Penetration  
C=Complete Penetration  
UH=Unfair Hit  
Projectile Yaw Check: <5° for all velocity shots

### TEST RESULTS:

Test sample satisfied the ballistic requirements given.

### FOOTNOTES:

