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

June 1st, 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 2 (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. | | |
| 35329 | RG1 | 7.52 | 0.734 | .357 Mag JSP | 3 | 1312 | 1332 | 0 | <u>PASS</u> |

*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.

Darius Nuttbrock
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Oregon Ballistic Laboratories
503.689.5134
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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 - V₀

Customer: Riot Glass
OBL ID#: 35329
Date Rcv'd: 4/27/2023
Test Date: 5/11/2023
Purchase Order:

TEST SAMPLE

| | | | |
|--------------|------------------------|-----------------|--|
| Model No.: | RG1 | Size (in.): | 12 x 12 |
| Sample No.: | 2 | Weight (lb.): | 7.52 |
| Lot No.: | N/A | Thickness: | 0.734 0.732 0.734 0.734 |
| Plies: | N/A | Avg. Thk. (in): | 0.734 |
| 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: | .357 Mag/1:18.75/10" | | | | |

AMMUNITION

Projectile: .357 Mag 158gr. JSP Lot #22847 Powder: Accurate No. 2

STANDARDS / PROCEDURES

UL 752 Level 2 (mod) - Spall Allowed Required Velocity: 1250 fps + 125 fps

| SHOT NO. | PROJECTILE WT. (gr.) | POWDER WT. (gr.) | TIME 1 μ s (10 ⁻⁶) | TIME 2 μ s (10 ⁻⁶) | VELOCITY 1 ft/s | VELOCITY 2 ft/s | AVERAGE VELOCITY | PENET. P/C | OBLIQUITY | CALIPER BFD | NOTES |
|----------|----------------------|------------------|------------------------------------|------------------------------------|-----------------|-----------------|------------------|------------|-----------|-------------|----------------|
| 1 | 158.0 | 7.2 | 3758 | 3001 | 1330 | 1333 | 1332 | P | 0° | | Spall Complete |
| 2 | 158.8 | 7.2 | 3810 | 3049 | 1312 | 1312 | 1312 | P | 0° | | Spall Complete |
| 3 | 158.2 | 7.2 | 3783 | 3021 | 1322 | 1324 | 1323 | P | 0° | | Spall Complete |

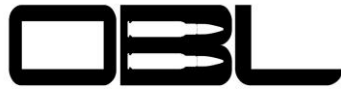
REMARKS:

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

TEST RESULTS:

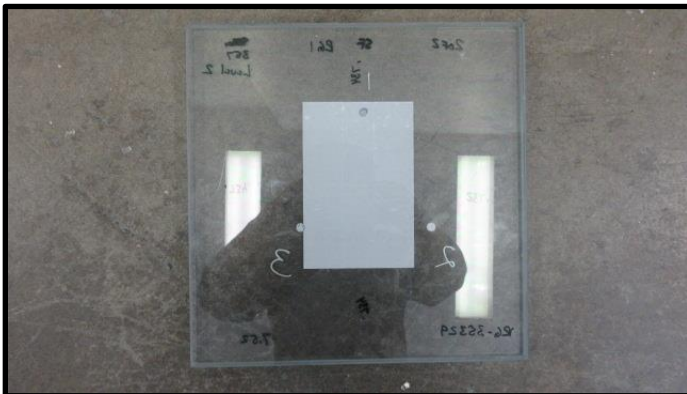
Test sample satisfied the ballistic requirements given.

FOOTNOTES:



OREGON BALLISTIC LABORATORIES

OBL #35329 – Pre Test



OBL #35329 – Post Test

