



October 12, 2016

Boydd Products, Inc.
 19510 Van Buren Blvd. F3-259
 Riverside, CA 92508
 ATTN: James Boydd

Dear Mr. Boydd:

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

The sample was tested in accordance with NIJ-STD-0101.06 Level IV (abbrev) (mod) in an indoor range with the muzzle of the test barrel mounted 50 feet away from the target and positioned to produce 0-degree obliquity impacts. Four infrared light screens, in conjunction with time-based frequency counters, were positioned such that bullet velocity was measured 8.25 feet from the target. Penetrations were determined by examination of a 5.5-inch clay block mounted behind 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.) | Projectile | Shots | Velocity (fps) | | Penetrations | BFD (mm) | | Pass/Fail |
| | | | | | Min. | Max. | | Min. | Max. | |
| 14397 | BPI-004-MC | 6.14 | .30 cal M2AP | 6 | 2852 | 2892 | 0 | 37.73 | 38.65 | Pass |

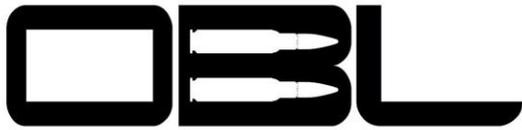
Samples will be maintained at Oregon Ballistic Laboratories for 30 days and then discarded, unless other instructions are received. If you have any further questions or concerns, please contact us.

Sincerely,

Brandon Bertsch
 Oregon Ballistic Laboratories



This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: **Boydd Products, Inc.**
OBL ID#: **14397**
Test Date: **10/12/2016**
Purchase Order:

TEST SAMPLE

Model No.: **BPI-004-MC**
Sample No.: **N/A**
Lot No.: **N/A**
Plies: **N/A**
Description: **Level IV Hard Armor Plate**

Size: **10 x 12**
Weight (lb.): **6.14**
Thickness: **N/A**
Avg. Thk. (in):

RANGE SET-UP

Range to Target: **50 ft.** Range #: **2**
Screen Dist. Vel. 1 (ft.): **5** Temperature: **67.0 °F**
Screen Dist. Vel. 2 (ft.): **5** Bar. Pressure: **30.10 in. Hg**
Screen 4 to target (ft): **N/A** Rel. Humidity: **54.2 %**
Primary Vel. Location: **8.25 ft. from target** Sample Temp. **Amb. °F**
Striking Velocity: **No** Recorder: **Joe Simon**
Target to Witness: **N/A** Gunner: **Grant Zitek**
Witness Panel: **N/A**
Backing Material: **5.5" clay block w/ 3/4" plywood backing**
Obliquity: **0 Degrees**
Barrel: **.30-06/1:10/33"**

Pre Test:
Clay Drops (mm): **16.83 17.76 18.84 17.71 20.98**
Drop Avg (mm): **18.42**
Clay Temp °F: **93.0**
Clay Box #: **1**
Post Test:
Clay Drops (mm): **18.85 16.97 16.72 18.09 19.47**
Drop Avg (mm): **18.02**
Clay Temp °F: **91.4**

AMMUNITION

Projectile: **.30 cal. 160gr. M2 AP**

Powder: **N133**

STANDARDS / PROCEDURES

NIJ-STD-0101.06 Level IV (abbrev)

Required Velocity: **2880 fps ± 30 fps**

| SHOT NO. | PROJECTILE WT. (gr.) | POWDER WT. (gr.) | TIME 1 $\mu s (10^{-6})$ | TIME 2 $\mu s (10^{-6})$ | VELOCITY 1 ft/s | VELOCITY 2 ft/s | AVERAGE VELOCITY | PENET. P/C | OBLIQUITY | CALIPER BFD | NOTES |
|----------|----------------------|------------------|--------------------------|--------------------------|-----------------|-----------------|------------------|------------|-----------|-------------|-------|
| 1 | 161.7 | 47.0 | 1734 | 1736 | 2884 | 2880 | 2882 | P | 0° | 38.65 | |
| 2 | 161.9 | 47.0 | 1735 | 1740 | 2882 | 2874 | 2878 | P | 0° | 37.73 | |
| 3 | 163.0 | 47.0 | 1750 | 1757 | 2857 | 2846 | 2852 | P | 0° | | |
| 4 | 163.5 | 47.2 | 1732 | 1736 | 2887 | 2880 | 2884 | P | 0° | | |
| 5 | 163.1 | 47.2 | 1745 | 1748 | 2865 | 2860 | 2863 | P | 0° | | |
| 6 | 162.7 | 47.2 | 1728 | 1730 | 2894 | 2890 | 2892 | P | 0° | | |

REMARKS:

P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:

Sample was subjected to Armor Drop Test per section 6.2.3.4
Sample was subjected to Armor Submersion per section 7.8.2



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