

# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers  
Job No.: 21493-001-1  
Test Date: 2/20/2020

### Test Panel

Description: Ballistic Fence Class2.

Manufacturer: BullisticBarriers

Sample No.: 12ga Slug/Buckshot Class 2Fence

Size: See Remarks  
Avg. Thick: NA  
Thickness: NA

Weight: See Remarks  
Plies/Laminates: NA

Date Received: 2/20/2020  
Via: Hand Carried  
Returned: HandCarried

### Setup

Shot Spacing: UL-752 Shotgun  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 64.7°F  
BP: 30.3inHg  
RH: 26.9%  
Barrel/Gun: Test Barrel  
Gunner: Adam Beach  
Recorder: Jacob Arisman

### Ammunition

Projectile	Lot No.	Powder
(1) 12-gauge, 3 in mag., 1 oz. rifledslug	Winchester	Factory load
(2) 12-gauge, 2 3/4 in mag., 00BK	Remington	Factory load

### Applicable Standards or Procedures

- (1) UL-752 Shotgun
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	NA	2801	1785	2421	1790	1787	None	0.0	(a)
2	1	NA	2833	1765	2438	1777	1771	None	0.0	
3	1	NA	2804	1783	2425	1787	1785	None	0.0	
4	2	NA	3627	1379	3136	1382	1380	None	0.0	

#### Remarks:

Required velocity for Slug: 1585-1744 ft/s  
Required velocity for Buckshot: 1200-1320ft/s  
No sample measurements due to sampleconstruction.

#### Footnotes:

(a) Shot impacted the seam.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers  
Job No.: 21493-001-3  
Test Date: 2/20/2020

### Test Panel

Description: Ballistic Fence Class2.

Manufacturer: Bullistic Barriers

Sample No.: 180gr SP Class 2Fence

Size: See Remarks  
Avg. Thick: NA  
Thickness: NA

Weight: See Remarks  
Plies/Laminates: NA

Date Received: 2/20/2020  
Via: Hand Carried  
Returned: HandCarried

### Setup

Shot Spacing: UL Level 4  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 64.9°F  
BP: 30.3 inHg  
RH: 27.0%  
Barrel/Gun: Test Barrel  
Gunner: Adam Beach  
Recorder: Jacob Arisman

### Ammunition

Projectile	Lot No.	Powder
(1) .30-06-cal., 180-grainLCSP	Sierra	N133

### Applicable Standards or Procedures

- (1) UL-752 Level 4
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	180.0	1942	2575	1678	2582	2579	None	0.0	(a)

#### Remarks:

Required velocity: 2540-2794ft/s  
No sample measurements due to sample construction.

#### Footnotes:

(a) Shot impacted the seam.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers  
Job No.: 21493-001-4  
Test Date: 2/20/2020

### Test Panel

Description: Ballistic Fence Class2.

Manufacturer: Bullistic Barriers

Sample No.: M80 LVL 5 Class 2 Fence

Size: See Remarks  
Avg. Thick: NA  
Thickness: NA

Weight: See Remarks  
Plies/Laminates: NA

Date Received: 2/20/2020  
Via: Hand Carried  
Returned: Hand Carried

### Setup

Shot Spacing: UL-752 Level 5  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 64.7°F  
BP: 30.3 inHg  
RH: 27.0%  
Barrel/Gun: Test Barrel  
Gunner: Adam Beach  
Recorder: Jacob Arisman

### Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 150-grain M80 FMJ copperjacket	Military	N133

### Applicable Standards or Procedures

- (1) UL-752 Level 5
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	147.8	1766	2831	1527	2838	2835	None	0.0	

#### Remarks:

Required velocity: 2750-3025ft/s  
No sample measurements due to sample construction.

#### Footnotes:

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers  
Job No.: 21493-001-5  
Test Date: 2/20/2020

### Test Panel

Description: Ballistic Fence Class2.

Manufacturer: BullisticBarriers

Sample No.: M80 LVL 8 Class 2 Fence

Size: See Remarks  
Avg. Thick: NA  
Thickness: NA

Weight: See Remarks  
Plies/Laminates: NA

Date Received: 2/20/2020  
Via: Hand Carried  
Returned: Hand Carried

### Setup

Shot Spacing: UL-752 Level 8  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 64.9°F  
BP: 30.3 inHg  
RH: 26.7%  
Barrel/Gun: Test Barrel  
Gunner: Adam Beach  
Recorder: Jacob Arisman

### Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 150-grain M80 FMJ copperjacket	Military	N133

### Applicable Standards or Procedures

- (1) UL-752 Level 5
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	147.7	1779	2811	1534	2825	2818	None	0.0	
2	1	147.7	1781	2807	1539	2816	2812	None	0.0	
3	1	148.2	1771	2823	1530	2832	2828	None	0.0	
4	1	147.4	1771	2823	1532	2829	2826	None	0.0	
5	1	147.5	1771	2823	1530	2832	2828	None	0.0	(a)

#### Remarks:

Required velocity: 2750-3025ft/s  
No sample measurements due to sample construction.

#### Footnotes:

(a) Shot impacted the seam.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers  
Job No.: 21493-001-6  
Test Date: 2/20/2020

### Test Panel

Description: Ballistic Fence Class2.

Manufacturer: Bullistic Barriers

Sample No.: M193 Class 2 Fence

Size: See Remarks  
Avg. Thick: NA  
Thickness: NA

Weight: See Remarks  
Plies/Laminates: NA

Date Received: 2/20/2020  
Via: Hand Carried  
Returned: Hand Carried

### Setup

Shot Spacing: UL-752 Level 7  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 65.3°F  
BP: 30.3 inHg  
RH: 27.2%  
Barrel/Gun: Test Barrel  
Gunner: Adam Beach  
Recorder: Jacob Arisman

### Ammunition

Projectile	Lot No.	Powder
(1) 5.56 x 45-mm, 55-grain M193 Ball	Military	N 110

### Applicable Standards or Procedures

- (1) UL-752 Level 7
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	54.8	1581	3163	1366	3172	3167	None	0.0	
2	1	54.8	1588	3149	1373	3156	3152	None	0.0	
3	1	54.6	1578	3169	1366	3172	3170	None	0.0	
4	1	54.8	1571	3183	1359	3189	3186	None	0.0	
5	1	54.7	1574	3177	1359	3189	3183	None	0.0	(a)

#### Remarks:

Required velocity: 3080-3388ft/s  
No sample measurements due to sample construction.

#### Footnotes:

(a) Shot impacted the seam.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers  
Job No.: 21493-001-7  
Test Date: 2/20/2020

### Test Panel

Description: Ballistic Fence Class1

Manufacturer: BullisticBarriers

Sample No.: UL LVL 19mm

Size: See Remarks  
Avg. Thick: NA  
Thickness: NA

Weight: See Remarks  
Plies/Laminates: NA

Date Received: 2/20/2020  
Via: Hand Carried  
Returned: HandCarried

### Setup

Shot Spacing: UL-752 Level 1  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 60.2°F  
BP: 30.3 inHg  
RH: 24.3%  
Barrel/Gun: Test Barrel  
Gunner: Adam Beach  
Recorder: Jacob Arisman

### Ammunition

Projectile	Lot No.	Powder
(1) 9-mm, 124-grainFMJ	Remington 23558	Accurate No. 2

### Applicable Standards or Procedures

- (1) UL-752 Level 1
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	124.5	4093	1222	3536	1225	1224	None	0.0	(a)
2	1	125.1	4093	1222	3534	1226	1224	None	0.0	
3	1	124.5	4088	1223	3531	1227	1225	None	0.0	

#### Remarks:

Required velocity: 1175-1292ft/s  
No sample measurements due to sample construction.

#### Footnotes:

(a) Shot impacted the seam.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers  
Job No.: 21493-001-8  
Test Date: 2/20/2020

### Test Panel

Description: Ballistic Fence Class 1.

Manufacturer: Bullistic Barriers

Sample No.: UL LVL 2 .357Mag

Size: See Remarks  
Avg. Thick: NA  
Thickness: NA

Weight: See Remarks  
Plies/Laminates: NA

Date Received: 2/20/2020  
Via: Hand Carried  
Returned: Hand Carried

### Setup

Shot Spacing: UL-752 Level 2  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 64.0°F  
BP: 30.2 inHg  
RH: 28.6%  
Barrel/Gun: Test Barrel  
Gunner: Adam Beach  
Recorder: Jacob Arisman

### Ammunition

Projectile	Lot No.	Powder
(1) .357-mag., 158-grain JSP	Remington 22847	Accurate No. 2

### Applicable Standards or Procedures

- (1) UL-752 Level 2
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	158.3	3710	1348	3202	1353	1351	None	0.0	(a)
2	1	158.1	3714	1346	3209	1350	1348	None	0.0	
3	1	158.7	3710	1348	3202	1353	1351	None	0.0	

Remarks:

Required velocity: 1250-1375ft/s  
No sample measurements due to sample construction.

Footnotes:

(a) Shot impacted the seam.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers  
Job No.: 21493-001-9  
Test Date: 2/20/2020

### Test Panel

Description: Ballistic Fence Class 1.

Manufacturer: Bullistic Barriers

Sample No.: UL LVL 3 .44Mag

Size: See Remarks  
Avg. Thick: NA  
Thickness: NA

Weight: See Remarks  
Plies/Laminates: NA

Date Received: 2/20/2020  
Via: Hand Carried  
Returned: Hand Carried

### Setup

Shot Spacing: UL-752 Level 3  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 63.5°F  
BP: 30.2 inHg  
RH: 28.7%  
Barrel/Gun: Test Barrel  
Gunner: Adam Beach  
Recorder: Jacob Arisman

### Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SWCGC	Rim Rock Bullets	HP-38

### Applicable Standards or Procedures

- (1) UL-752 Level 3
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	240.6	3504	1427	3024	1433	1430	None	0.0	
2	1	239.8	3492	1432	3014	1438	1435	None	0.0	
3	1	239.4	3500	1429	3021	1434	1431	None	0.0	(a)

#### Remarks:

Required velocity: 1350-1485ft/s  
No sample measurements due to sample construction.

#### Footnotes:

(a) Shot impacted the seam.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**





# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers  
Job No.: 21493-001-10  
Test Date: 2/20/2020

### Test Panel

Description: Ballistic Fence Class 1.

Manufacturer: Bullistic Barriers

Sample No.: UL LVL 6 9mm

Size: See Remarks  
Avg. Thick: NA  
Thickness: NA

Weight: See Remarks  
Plies/Laminates: NA

Date Received: 2/20/2020  
Via: Hand Carried  
Returned: HandCarried

### Setup

Shot Spacing: UL-752 Level 6  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 64.2°F  
BP: 30.2 inHg  
RH: 28.0%  
Barrel/Gun: Test Barrel  
Gunner: Adam Beach  
Recorder: Jacob Arisman

### Ammunition

Projectile	Lot No.	Powder
(1) 9-mm, 124-grain FMJ	Remington 23558	Accurate No. 2

### Applicable Standards or Procedures

- (1) UL-752 Level 6
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	124.5	3602	1388	3109	1394	1391	None	0.0	(a)
2	1	124.5	3458	1446	2985	1452	1449	None	0.0	(b)
3	1	124.5	3504	1427	3028	1431	1429	None	0.0	
4	1	124.5	3446	1451	2975	1457	1454	None	0.0	
5	1	124.5	3495	1431	3019	1435	1433	None	0.0	
6	1	124.6	3490	1433	3011	1439	1436	None	0.0	(c)

#### Remarks:

Required velocity: 1400-1540ft/s  
No sample measurements due to sample construction.

#### Footnotes:

- (a) ) Projectile had insufficient velocity.
- (b) Replacement for Shot No. 1.
- (c) Shot impacted the seam.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC

Project No.: PR146272-1

Test Date: 09/15/2021

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**Test Panel** Description: Louver

Manufacturer: Bullistic Barrier

Sample No.: Louver-M80 CJLC

Size: 30.5 x 14.25 in  
Avg. Thickness: N/A  
Thicknesses: N/A

Weight: 37.220 lbs  
Plies/Laminates: N/A

Date Received: 09/15/2021  
Received Via: Hand Carried  
Returned Via: Hand Carried

## Setup

Shot Spacing: Customer Request  
Witness Panel: .125 in Cardboard  
Backing Material: N/A  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.666, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: Range 6  
Temp: 66.9 °F  
BP: 29.9 inHg  
RH: 51 %  
Barrel/Gun: WC024531  
Gunner: Brennan Heuer  
Recorder: Jesse Fulk

## Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 150-grain M80 CJLC	Military	N133

## Applicable Standards or Procedures

(1) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	42.5	148.9	1776	2815	1539	2815	2815	None	0.0	(a)
2	1	42.5	148.6	1761	2839	1525	2841	2840	None	0.0	(b)

### Remarks:

Required velocity: 2750-3025 ft/s.

### Footnotes:

- (a) Shot impacted on the flat surface of the louver.
- (b) Shot impacted on the very edge/seam of the louver.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC

Project No.: PR146272-2

Test Date: 09/15/2021

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**Test Panel** Description: Louver

**Manufacturer:** Bullistic Barrier

**Sample No.:** Louver-.44 Mag SWCGC

Size: 30.5 x 14.25 in  
Avg. Thickness: N/A  
Thicknesses: N/A

Weight: 37.220 lbs  
Plies/Laminates: N/A

Date Received: 09/15/2021  
Received Via: Hand Carried  
Returned Via: Hand Carried

## Setup

Shot Spacing: Customer Request  
Witness Panel: .125 in Cardboard  
Backing Material: N/A  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.666, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: Range 6  
Temp: 66.9 °F  
BP: 29.9 inHg  
RH: 50.5 %  
Barrel/Gun: WC024531  
Gunner: Brennan Heuer  
Recorder: Jesse Fulk

## Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SWCGC	Rim Rock	Accurate No. 5

## Applicable Standards or Procedures

(1) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	11.0	241.5	3548	1409	3058	1417	1413	None	0.0	(a)
2	1	11.0	242.1	3517	1422	3033	1429	1425	None	0.0	(b)

### Remarks:

Required velocity: 1350-1485 ft/s.

### Footnotes:

- (a) Shot impacted on the flat surface of the louver.
- (b) Shot impacted on the very edge/seam of the louver.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC

Project No.: PR146272-3

Test Date: 09/15/2021

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**Test Panel** Description: Louver

**Manufacturer:** Bullistic Barrier

**Sample No.:** Louver-M193

Size: 30.5 x 14.25 in  
Avg. Thickness: N/A  
Thicknesses: N/A

Weight: 37.220 lbs  
Plies/Laminates: N/A

Date Received: 09/15/2021  
Received Via: Hand Carried  
Returned Via: Hand Carried

## Setup

Shot Spacing: Customer Request  
Witness Panel: .125 in Cardboard  
Backing Material: N/A  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.666, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: Range 6  
Temp: 66.8 °F  
BP: 29.9 inHg  
RH: 48.7 %  
Barrel/Gun: WC024531  
Gunner: Brennan Heuer  
Recorder: Jesse Fulk

## Ammunition

Projectile	Lot No.	Powder
(1) 5.56 x 45-mm, 55-grain M193	Military	N 110

## Applicable Standards or Procedures

(1) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	18.6	55.0	1574	3177	1361	3184	3180	None	0.0	(a)
2	1	18.6	55.0	1554	3218	1346	3219	3218	None	0.0	(b)

### Remarks:

Required velocity: 3080-3388 ft/s.

### Footnotes:

- (a) Shot impacted on the flat surface of the louver.
- (b) Shot impacted on the very edge/seam of the louver.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC

Project No.: PR146272-4

Test Date: 09/15/2021

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**Test Panel** | Description: Proprietary

**Manufacturer:** Bullistic Barrier

**Sample No.:** LVL 3- 2.0

Size: 17.25 x 12.50 in  
Avg. Thickness: 2.417 in  
Thicknesses: 2.429 in, 2.419 in,  
2.408 in, 2.413 in

Weight: 27.530 lbs  
Plies/Laminates: N/A

Date Received: 09/15/2021  
Received Via: Hand Carried  
Returned Via: Hand Carried

## Setup

Shot Spacing: Customer Request  
Witness Panel: .125 in Cardboard  
Backing Material: N/A  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.666, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: Range 6  
Temp: 67.0 °F  
BP: 29.9 inHg  
RH: 54.5 %  
Barrel/Gun: WC024531  
Gunner: Brennan Heuer  
Recorder: Jesse Fulk

## Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 150-grain M80 CJLC	Military	Norma 202

## Applicable Standards or Procedures

- (1) UL 752 Level 8
- (2) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	42.6	148.9	1783	2804	1544	2806	2805	None	0.0	
2	1	42.6	148.3	1774	2818	1537	2819	2819	None	0.0	

Remarks:  
N/A

Footnotes:  
N/A

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC

Project No.: PR146272-5

Test Date: 09/15/2021

Page 1 of 1

**Test Panel** Description: Proprietary

**Manufacturer:** Bullistic Barrier

**Sample No.:** LVL 3-2.0-M193

Size: 17.25 x 12.50 in  
Avg. Thickness: 2.417 in  
Thicknesses: 2.429 in, 2.419 in,  
2.408 in, 2.413 in

Weight: 27.530 lbs  
Plies/Laminates: N/A

Date Received: 09/15/2021  
Received Via: Hand Carried  
Returned Via: Hand Carried

## Setup

Shot Spacing: Customer Request  
Witness Panel: .125 in Cardboard  
Backing Material: N/A  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.666, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: Range 6  
Temp: 67.0 °F  
BP: 29.9 inHg  
RH: 50.6 %  
Barrel/Gun: WC024531  
Gunner: Brennan Heuer  
Recorder: Jesse Fulk

## Ammunition

Projectile	Lot No.	Powder
(1) 5.56 x 45-mm, 55-grain M193	Military	N 110

## Applicable Standards or Procedures

- (1) UL 752 Level 7
- (2) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel.2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	18.6	55.0	1547	3232	1339	3236	3234	None	0.0	
2	1	18.6	55.0	1556	3213	1349	3212	3213	None	0.0	

Remarks:

Required velocity: 3080-3388 ft/s.

Footnotes:

N/A

## BULLISTIC BARRIERS PROPRIETARY INFORMATION



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC  
Job No.: 21493-002-1  
Test Date: 12/31/2020

### Test Panel

Description: Rigid Armor.

Manufacturer: Bullistic Barriers

Sample No.: Class 1-31320 (9mm)

Size: 30.00 x 24.00 in  
Avg. Thick: 0.973 in  
Thickness: 0.977 in; 0.967 in;  
0.974 in; 0.973 in

Weight: 45.84 lbs  
Plies/Laminates: NA

Date Received: 12/31/2020  
Via: FedEx  
Returned: FedEx

### Setup

Shot Spacing: UL 752 Level 6  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 68.5 °F  
BP: 30.0 inHg  
RH: 37.0%  
Barrel/Gun: Test Barrel  
Gunner: M. Skrocki  
Recorder: J.Fulk

### Ammunition

Projectile	Lot No.	Powder
(1) 9-mm, 124-grain FMJ	Remington	Accurate No. 2

### Applicable Standards or Procedures

- (1) UL- 752 Level 6
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	124.0	3446	1451	2989	1450	1450	None	0.0	
2	1	124.0	3343	1496	2902	1493	1494	None	0.0	
3	1	124.0	3317	1507	2877	1506	1507	None	0.0	
4	1	124.0	3331	1501	2889	1500	1500	None	0.0	
5	1	124.0	3280	1524	2848	1522	1523	None	0.0	

Remarks:

Required velocity: 1400-1540 ft/s.

Footnotes:

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC  
Job No.: 21493-002-2  
Test Date: 12/31/2020

### Test Panel

Description: Rigid Armor.

Manufacturer: Bullistic Barriers

Sample No.: Class 1-31320 (44 SWCGC)

Size: 30.00 x 24.00 in  
Avg. Thick: 0.973 in  
Thickness: 0.977 in; 0.967 in;  
0.974 in; 0.973 in

Weight: 45.84 lbs  
Plies/Laminates: NA

Date Received: 12/31/2020  
Via: FedEx  
Returned: FedEx

### Setup

Shot Spacing: UL 752 Level 3  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 68.6 °F  
BP: 30.2 inHg  
RH: 36.0%  
Barrel/Gun: Test Barrel  
Gunner: M. Skrocki  
Recorder: J.Fulk

### Ammunition

Projectile	Lot No.	Powder
(1) .44-mag., 240-grain SWCGC	Rim Rock Bullets	HP-38

### Applicable Standards or Procedures

- (1) UL- 752 Level 3
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	240.0	3465	1443	3009	1440	1442	None	0.0	
2	1	240.0	3507	1426	3028	1431	1428	None	0.0	
3	1	240.0	3458	1446	3002	1443	1445	None	0.0	

Remarks:  
Required velocity: 1350-1485 ft/s.

Footnotes:

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**





# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC  
Job No.: 21493-002-3  
Test Date: 12/31/2020

### Test Panel

Description: Rigid Armor.

Manufacturer: Bullistic Barriers

Sample No.: Class 1-31320 (357 Mag)

Size: 30.00 x 24.00 in  
Avg. Thick: 0.973 in  
Thickness: 0.977 in; 0.967 in;  
0.974 in; 0.973 in

Weight: 45.84 lbs  
Plies/Laminates: NA

Date Received: 12/31/2020  
Via: FedEx  
Returned: FedEx

### Setup

Shot Spacing: UL 752 Level 2  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 68.5 °F  
BP: 30.0 inHg  
RH: 34.0%  
Barrel/Gun: Test Barrel  
Gunner: M. Skrocki  
Recorder: J.Fulk

### Ammunition

Projectile	Lot No.	Powder
(1) .357-mag., 158-grain JSP	Remington	Accurate No. 2

### Applicable Standards or Procedures

- (1) UL- 752 Level 2
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	158.0	3785	1321	3285	1319	1320	None	0.0	
2	1	158.0	3880	1289	3368	1287	1288	None	0.0	
3	1	158.0	3915	1277	3400	1275	1276	None	0.0	

Remarks:

Required velocity: 1250-1375 ft/s.

Footnotes:

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC  
Job No.: 21493-002-5  
Test Date: 12/31/2020

### Test Panel

Description: Rigid Armor.

Manufacturer: Bullistic Barriers

Sample No.: Class 3 rev.4-3.5 (30 APM2)

Size: 7.25 x 9.25 in  
Avg. Thick: 4.375 in  
Thickness: 5.250 in; 5.250 in;  
3.500 in; 3.500 in

Weight: 22.30 lbs  
Plies/Laminates: NA

Date Received: 12/31/2020  
Via: FedEx  
Returned: FedEx

### Setup

Shot Spacing: Customer request  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 68.5 °F  
BP: 30.2 inHg  
RH: 36.0%  
Barrel/Gun: Test Barrel  
Gunner: M. Skrocki  
Recorder: J.Fulk

### Ammunition

Projectile	Lot No.	Powder
(1) .30-06-cal., 166-grain APM2	Military	N133

### Applicable Standards or Procedures

- (1) UL-Level 9
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	NA	1757	2846	1525	2842	2844	None	0.0	(a)

**Remarks:**

Required velocity: 2715-2986 ft/s.

**Footnotes:**

(a) Impacted on the body of the sample.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC  
Job No.: 21493-002-8  
Test Date: 12/31/2020

### Test Panel

Description: Rigid Armor.

Manufacturer: Bullistic Barriers

Sample No.: Class 3 rev.4-40 (30 APM2)

Size: 7.00 x 7.25 in  
Avg. Thick: 5.750 in  
Thickness: 5.750 in; 5.750 in;  
5.750 in; 5.750 in

Weight: 17.09 lbs  
Plies/Laminates: NA

Date Received: 12/31/2020  
Via: FedEx  
Returned: FedEx

### Setup

Shot Spacing: Customer request  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 68.5 °F  
BP: 30.1 inHg  
RH: 36.0%  
Barrel/Gun: Test Barrel  
Gunner: M. Skrocki  
Recorder: J.Fulk

### Ammunition

Projectile	Lot No.	Powder
(1) .30-06-cal., 166-grain APM2	Military	N133

### Applicable Standards or Procedures

- (1) UL-Level 9
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	166.0	1752	2854	1520	2851	2852	None	0.0	(a)

Remarks:  
Required velocity: 2715-2986 ft/s.

Footnotes:  
(a) Impacted on the body of the sample.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC  
Job No.: 21493-002-9  
Test Date: 12/31/2020

## Test Panel

Description: Rigid Armor.

Manufacturer: Bullistic Barriers

Sample No.: Class 3 rev.4-40 (50 APM2)

Size: 7.00 x 7.25 in  
Avg. Thick: 5.750 in  
Thickness: 5.750 in; 5.750 in;  
5.750 in; 5.750 in

Weight: 17.09 lbs  
Plies/Laminates: NA

Date Received: 12/31/2020  
Via: FedEx  
Returned: FedEx

## Setup

Shot Spacing: Customer request  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 68.4 °F  
BP: 30.2 inHg  
RH: 36.0%  
Barrel/Gun: Test Barrel  
Gunner: M. Skrocki  
Recorder: J.Fulk

## Ammunition

Projectile	Lot No.	Powder
(1) .50-cal., 695-grain APM2	Military	H50BMG

## Applicable Standards or Procedures

- (1) UL-Level 10 (Modified)
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	695.0	1742	2870	1513	2864	2867	None	0.0	

### Remarks:

Required velocity: 2810-3091 ft/s.

### Footnotes:

- (a) Impacted on the body of the sample.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**



# BALLISTIC RESISTANCE TEST

## NTS-Chesapeake Testing

4603B Compass Point Road  
Belcamp, MD 21017

Client: Bullistic Barriers LLC  
Job No.: 21493-002-10  
Test Date: 12/31/2020

### Test Panel

Description: Rigid Armor.

Manufacturer: Bullistic Barriers

Sample No.: Class 3 rev.4-40 (50 M2 Ball)

Size: 7.00 x 7.25 in  
Avg. Thick: 5.750 in  
Thickness: 5.750 in; 5.750 in;  
5.750 in; 5.750 in

Weight: 17.09 lbs  
Plies/Laminates: NA

Date Received: 12/31/2020  
Via: FedEx  
Returned: FedEx

### Setup

Shot Spacing: Customer request  
Witness Panel: .125 in Cardboard  
Backing Material: NA  
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,  
9.667, 10.000  
Primary Vel. Location (ft): 7.500  
Range to Target (ft): 15.000  
Target to Witness (in): 18.000

Range No.: 6  
Temp: 68.5 °F  
BP: 30.2 inHg  
RH: 35.0%  
Barrel/Gun: Test Barrel  
Gunner: M. Skrocki  
Recorder: J.Fulk

### Ammunition

Projectile	Lot No.	Powder
(1) .50-Cal, 710-grain M2 Ball	Military	H50BMG

### Applicable Standards or Procedures

- (1) UL-Level 10
- (2) Customer request

Shot No.	Ammo	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	710.0	1749	2859	1518	2855	2857	None	0.0	(a)

**Remarks:**

Required velocity: 2810-3091 ft/s.

**Footnotes:**

(a) Impacted on the body of the sample.

**BULLISTIC BARRIERS PROPRIETARY INFORMATION**

