

BALLISTIC RESISTANCE TEST

NTS-Chesapeake Testing

 4603B Compass Point Road
 Belcamp, MD 21017

Client: Bullistic Barriers LLC

Project No.: PR154378

Test Date: 02/14/2022

Page 1 of 1

Test Panel Description: Rigid armor

Manufacturer: Bullistic Barrier

Sample No.: (.50 cal APM2, .50 cal M2 ball, V0) 2

 Size: 24.00 x 24.00 in
 Avg. Thickness: N/A
 Thicknesses: N/A

 Weight: 247.640 lbs
 Plies/Laminates: N/A

 Date Received: 02/11/2022
 Received Via: Hand Carried
 Returned Via: Hand Carried

Setup

 Shot Spacing: UL 752 Level 10
 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 1
 Temp: 68.2 °F
 BP: 30.2 inHg
 RH: 36.8 %
 Barrel/Gun: WC020651
 Gunner: James Eveland
 Recorder: James Eveland

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .50 cal, 710-grain M2 Ball	NA	Military	IMR 4831
(2) .50-cal., 695-grain APM2	NA	Military	IMR 4831
(3) .30-06 cal, 166-grain APM2	NA	Military	Norma 202

Applicable Standards or Procedures

- (1) UL 752 Level 10 (Modified)
 (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	2	205.0	696.1	1715	2915	1483	2922	2919	None	0	
2	2	205.0	697.2	1715	2915	1483	2922	2919	None	0	
3	1	205.0	693.1	1705	2933	1476	2936	2934	None	0	
4	1	205.0	693	1708	2927	1478	2932	2930	None	0	
5	3	42.0	161.9	1698	2945	1471	2946	2945	None	0	
6	3	41.0	162.2	1722	2904	1493	2902	2903	None	0	

Remarks:

Required velocity: 2810 - 3091 ft/s.

Required velocity APM2 .30-06 cal: 2715 - 2986 ft/s.

Footnotes:

N/A

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 Class 2.

Manufacturer: Bullistic Barriers

Sample No.: 12ga Slug/Buckshot 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 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: 30.3 inHg
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. rifled slug	Winchester	Factory load
(2) 12-gauge, 2 3/4 in mag., 00 BK	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 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.: 21493-001-3
Test Date: 2/20/2020

Test Panel

Description: Ballistic Fence Class 2.

Manufacturer: Bullistic Barriers

Sample No.: 180gr SP 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 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-grain LCSP	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: 2540-2794 ft/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 Class 2.

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 copper jacket	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: 2750-3025 ft/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 Class 2.

Manufacturer: Bullistic Barriers

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 copper jacket	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	(a)
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	

Remarks:
Required velocity: 2750-3025 ft/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 Class 2.

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 M193Ball	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: 3080-3388 ft/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 Class 1

Manufacturer: Bullistic Barriers

Sample No.: UL LVL 1 9mm

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 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-grain FMJ	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: 1175-1292 ft/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 .357 Mag

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: 1250-1375 ft/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 .44 Mag

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	(a)
2	1	239.8	3492	1432	3014	1438	1435	None	0.0	
3	1	239.4	3500	1429	3021	1434	1431	None	0.0	

Remarks:

Required velocity: 1350-1485 ft/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: Hand Carried

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: 1400-1540 ft/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

Page 1 of 1

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.

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

Page 1 of 1

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.

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

Page 1 of 1

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.

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

Page 1 of 1

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

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

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:

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:

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:

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.

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.

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.

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.