

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: ShotStop Ballistics, LLC
Job No.: 2631-051-C
Test Date: 12/6/2019
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Test Panel

Description: Torso plate tested stand alone. Plate Size: HS1RF3-10x12SHSC; Model #: HS1RF3SC. Lot #: 1-12+19

Manufacturer: ShotStop Ballistics, LLC

Sample No.: HS1RF3SC

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

Weight: See Remarks
Plies/Laminates: NA
Required BL(P): NA

Date Received: 12/2/2019
Via: UPS
Returned: UPS

Setup

Shot Spacing: NIJ-STD-0101.07 Level RF2
(Modified)
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 5.000, 5.333,
19.667, 20.000
Primary Vel. Location (ft): 12.500
Range to Target (ft): 25.000
Target to Witness (in): 0.000

Range No.: 2
Temp: 66.2 °F
BP: 30.0 inHg
RH: 37.1%
Barrel/Gun: Test Barrel
Gunner: Austin Blake
Recorder: Jesse Fulk

Ammunition

Projectile	Lot No.	Powder
(1) .30-06-cal., 166-grain APM2 v1	NA	H4350

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 8:00 AM; Block No. 53; Temp: 93.3 °F; Drop Depths: 26.4 mm, 27.2 mm, 26.4 mm

(1) NIJ-STD-0101.07 Level RF2 (Modified)

(2) Customer request

Shot No.	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	73.0	162.0	4928	3044	4708	3044	3044	P	No	0.0	(b)
2	75.0	162.0	4771	3144	4557	3145	3145	P	No	0.0	(c)
3	79.0	162.0	4540	3304	4334	3307	3306	P	No	0.0	(d)
4	83.0	162.0	4403	3407	4205	3409	3408	P	No	0.0	(e)
5	87.0	162.0	4171	3596	3985	3597	3597	P	No	0.0	(f)
6	88.0	162.0	4173	3595	3985	3597	3596	P	No	0.0	(g,m)
7	88.0	162.0	4144	3620	3959	3620	3620	P	No	0.0	(h)
8	88.0	162.0	4178	3590	3993	3590	3590	P	No	0.0	(i)
9	88.0	162.0	4166	3601	3978	3603	3602	P	No	0.0	(j)
10	88.0	162.0	4188	3582	4000	3583	3582	P	No	0.0	(k)
11	88.0	162.0	4176	3592	3988	3594	3593	P	No	0.0	(l)

Remarks

Required velocity: 2880 ± 30 ft/s.

Projectiles provided by Chesapeake Testing.

Footnotes:

- (a) Plate #: 01-04-19-842; Weight: 5.07 lbs; Size: 10.00 x 12.00 in.
- (b) Plate #: 01-04-19-834; Weight: 5.06 lbs; Size: 10.00 x 12.00 in.
- (c) Plate #: 01-04-19-835; Weight: 4.77 lbs; Size: 10.00 x 12.00 in.
- (d) Plate #: 01-04-19-833; Weight: 5.08 lbs; Size: 10.00 x 12.00 in.
- (e) Plate #: 01-04-19-832; Weight: 5.03 lbs; Size: 10.00 x 12.00 in.
- (f) Plate #: 01-04-19-831; Weight: 4.84 lbs; Size: 10.00 x 12.00 in.
- (g) Plate #: 01-04-19-836; Weight: 5.09 lbs; Size: 10.00 x 12.00 in.
- (h) Plate #: 01-04-19-840; Weight: 4.76 lbs; Size: 10.00 x 12.00 in.
- (i) Plate #: 01-04-19-841; Weight: 5.04 lbs; Size: 10.00 x 12.00 in.
- (j) Plate #: 01-04-19-837; Weight: 4.85 lbs; Size: 10.00 x 12.00 in.
- (k) Plate #: 01-04-19-838; Weight: 4.81 lbs; Size: 10.00 x 12.00 in.
- (l) Plate #: 01-04-19-839; Weight: 5.01 lbs; Size: 10.00 x 12.00 in.
- (m) Maximum velocity reached.

V₅₀ Summary:

No. Points: NA
V₅₀: NA ft/s
High Partial: NA ft/s
Low Complete: NA ft/s
Range of Results (ROR): NA ft/s
Range of Mix Results (RMR): NA
Gap: NA