

BALLISTIC RESISTANCE TEST

HP White Laboratory, Inc

3114 Scarboro Rd, Street,
MD 21154

Client: Canadian Armour Ltd.
Job No.: CD01-2018-R06BRT-148412
Test Date: 2/6/2018

Test Panel

Description: 6mm + 2mm Foam, Lvl 4 SA SC Plate thickness: 8mm.

Manufacturer: Canadian Armour Ltd.

Sample No.: 1 (M80, V0)

Size: 10.00 x 12.00 in
Avg. Thick: NA
Thickness: NA

Weight: 7.895 lbs
Plies/Laminates: NA

Date Received: 2/6/2019
Via: Hand Carried
Returned: Hand Carried

Setup

Shot Spacing: NIJ-STD-0101.06 Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 37.000, 37.333, 46.667, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: 6
Temp: 66.7 °F
BP: 29.9 inHg
RH: 38.3%
Barrel/Gun: CT-1687
Gunner: Glenn Snyder
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 149-grain M80 FMJ	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:40 PM; Block No. 15; Temp: 94.1°F; Drop Depths: 19.3mm,19.4mm,21.3mm,17.6mm,17.3mm
(1) NIJ-STD-0101.06 Level IV (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	Deformation (mm)	Obliq. (°)	Footnotes
1	1	147.9	3585	2789	3343	2792	2791	None	0.05	0.0	
2	1	147.7	3575	2797	3329	2804	2800	None	0.05	0.0	
3	1	147.7	3614	2767	3368	2771	2769	None		0.0	
4	1	147.2	3463	2888	3231	2889	2888	None		0.0	
5	1	147.7	3353	2982	3129	2983	2983	None		0.0	
6	1	146.9	3246	3081	3026	3084	3083	None		0.0	

Remarks:
Required Velocity: 2780 ± 30 ft/s.

Footnotes:

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Description: 6mm + 2mm Foam, Lvl 4 SA SC Plate thickness: 8mm.

Manufacturer: Canadian Armour Ltd.

Sample No.: 2 (M80, V0)

Size: 10.00 x 12.00 in
Avg. Thick: NA
Thickness: NA

Weight: 7.895 lbs
Plies/Laminates: NA

Date Received: 2/6/2019
Via: Hand Carried
Returned: Hand Carried

Setup

Shot Spacing: NIJ-STD-0101.06 Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 37.000, 37.333,
46.667, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: 6
Temp: 66.9 °F
BP: 29.9 inHg
RH: 38.7%
Barrel/Gun: CT-1687
Gunner: Glenn Snyder
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 149-grain M80 FMJ	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:40 PM; Block No. 15; Temp: 94.1 °F; Drop Depths:
19.3mm, 19.4mm, 21.3mm, 17.6mm, 17.3mm (1) NIJ-STD-0101.06 Level IV (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	Deformation (mm)	Obliq. (°)	Footnotes
1	1	148.0	3585	2789	3338	2796	2793	None	0.02	0.0	
2	1	147.8	3605	2774	3363	2775	2775	None	0.09	0.0	
3	1	148.8	3592	2784	3353	2784	2784	None		0.0	(a)

Remarks:

Required Velocity: 2780 ± 30 ft/s.

Footnotes:

(a) Testing terminated per customer request

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Description: 6mm + 2mm Foam, Lvl 4 SA SC Plate thickness: 8mm.

Manufacturer: Canadian Armour Ltd.

Sample No.: 3 (M80, V0)

Size: 10.00 x 12.00 in
Avg. Thick: NA
Thickness: NA

Weight: 7.895 lbs
Plies/Laminates: NA

Date Received: 2/6/2019
Via: Hand Carried
Returned: Hand Carried

Setup

Shot Spacing: NIJ-STD-0101.06 Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 37.000, 37.333,
46.667, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: 6
Temp: 66.9 °F
BP: 29.9 inHg
RH: 38.8%
Barrel/Gun: CT-1687
Gunner: Glenn Snyder
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 149-grain M80 FMJ	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:40 PM; Block No. 15; Temp: 94.1 °F; Drop Depths: 19.3mm,19.4mm,21.3mm,17.6mm,17.3mm
(1) NIJ-STD-0101.06 Level IV (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	Deformation (mm)	Obliq. (°)	Footnotes
1	1	147.7	3609	2771	3365	2774	2772	None	0.08	0.0	
2	1	148.0	3573	2799	3331	2802	2800	None	0.07	0.0	
3	1	147.9	3580	2793	3341	2794	2793	None		0.0	
4	1	148.0	3609	2771	3363	2775	2773	None		0.0	
5	1	148.1	3617	2765	3370	2770	2767	None		0.0	
6	1	147.7	3590	2786	3348	2788	2787	None		0.0	

Remarks:

Required Velocity: 2780 ± 30 ft/s.

Footnotes:

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Test Panel

Description: 6mm + 2mm Foam, Lvl 4 SA SC Plate thickness: 8mm.

Manufacturer: Canadian Armour Ltd.

Sample No.: 4 (M80, V0)

Size: 10.00 x 12.00 in
Avg. Thick: NA
Thickness: NA

Weight: 7.895 lbs
Plies/Laminates: NA

Date Received: 2/6/2019
Via: Hand Carried
Returned: Hand Carried

Setup

Shot Spacing: NIJ-STD-0101.06 Level IV
Witness Panel: Clay
Backing Material: 5.5-in clay/plywood
Condition: Ambient

Primary Vel. Screens (ft): 37.000, 37.333,
46.667, 47.000
Primary Vel. Location (ft): 42.000
Range to Target (ft): 50.200
Target to Witness (in): 0.000

Range No.: 6
Temp: 66.9 °F
BP: 29.9 inHg
RH: 39.0%
Barrel/Gun: CT-1687
Gunner: Glenn Snyder
Recorder: Lance Eveland

Ammunition

Projectile	Lot No.	Powder
(1) 7.62 x 51-mm, 149-grain M80 FMJ	Military	N133

Applicable Standards or Procedures

Clay Drop 1 - Drop Time: 1:40 PM; Block No. 15; Temp: 94.1 °F; Drop Depths: 19.3mm,19.4mm,21.3mm,17.6mm,17.3mm
(1) NIJ-STD-0101.06 Level IV (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	Deformation (mm)	Obliq. (°)	Footnotes
1	1	147.4	3627	2757	3382	2760	2758	None	0.04	0.0	(a)
2	1	147.9	3653	2737	3409	2738	2738	None	0.01	0.0	
3	1	148.0	3624	2759	3378	2763	2761	None	0.02	0.0	
4	1	147.5	3602	2776	3360	2778	2777	None		0.0	
5	1	147.7	3597	2780	3351	2785	2783	None		0.0	
6	1	148.3	3570	2801	3329	2804	2802	None		0.0	

Remarks:

Required Velocity: 2780 ± 30 ft/s

Footnotes:

(a) Insufficient velocity