



Ballistic Resistance Test

SMS Testing	Client:	Premier Body Armor
McNamee Rd	Job No.:	83-1113
Rising Sun, MD 21911	Test Date:	10/27/2023

Test Panel Description: Level III torso plate tested as stand alone

Manufacturer:	Premier Body Armor	Sample No.	#4 GT (M80, M855-V0)
Size:	Medium	Weight:	4.40 lbs
Avg Thick:	NA	Plies:	NA
Thickness:	NA		

Setup

Shot Spacing: NIJ 0101.06	Muzzle to Target (ft):	25	Range No. 1
Witness Panel: Clay	Target to Witness (in):	NA	Temp: 72.5 °F
Backing Material: Clay/Plywood	VS Screen 1 (ft):	10	RH: 46%
Condition: Ambient	VS Screen 2 (ft):	20	Barrel/Gun: .308 cal
	Midpoint to Target (ft):	10	Technician: Mark
			Range Manager: Tony

Ammunition

Projectile	Lot No.	Powder
1 M80	Military	N133
2 M855	Military	N120
3		

Applicable Standards or Procedure	Clay
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1 NIJ Standard 0101.07 Draft (Modified)	Drops: 19.63 mm, 20.76 mm, 19.33 mm, 18.33 mm, 18.91 mm
2 Per Customer Request	Temp: 100.5 °F
3	Block No: 8

Shot Table

Shot No.	Ammo	Weight (Gr)	Time 1 (sec)	Vel. 1 (ft/s)	Time 2 (sec)	Vel. 2 (ft/s)	Velocity Average (ft/s)	Velocity Striking (ft/s)	.Penetration.	Def. (mm)	Obliq.	Notes
1	1	40.4	0.0036	2780	0.00359	2785	2783	2783	P	38.6	0°	
2	1	40.4	0.0036	2776	0.00360	2779	2777.5	2778	P	37.1	0°	
3	1	40.4	0.00359	2786	0.00358	2791	2788.5	2789	P	43.3	0°	
4	2	20.9	0.00323	3093	0.00323	3096	3094.5	3095	P	24.3	0°	
5	2	20.9	0.0032	3123	0.00320	3128	3125.5	3126	P	25.7	0°	
6	2	20.9	0.0032	3126	0.00319	3132	3129	3129	P	28.6	0°	

Remarks

Remarks: Requested M80 velocity: 2780 ft/s.
Requested M855 velocity: 3115 ft/s.