

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

Chesapeake Testing

121 Bata Boulevard, Suite F
Belcamp, MD 21017

Client: Mofet Etzion Yehuda, Ltd.

Job No.: X042-010-1

Test Date: 6/5/2008

Test Panel	Description: Liba panel plus 0.250 in aluminum panel and 0.250 in aluminum panel		
Manufacturer: Mofet Etzion Yehuda, Ltd.		Sample No.: CDS-1 V ₅₀	
Size: See remarks	Heat No.: NA	Date Received: 5/5/2008	
Thickness: See remarks	Weight: See remarks	Via: FedEx	
Avg. Thick: See remarks	Hardness: NA	Returned: NA	
Required BL(P): NA	Plies/Laminates: NA		

Setup			
Shot Spacing: Per Customer Request	Primary Vel. Screens: 10 ft, 20 ft	Range No.: 1	
Witness Panel: 0.02 in, 2024-T3 Al	Primary Vel. Location: 15 ft	Temp: 71 °F	
Obliquity: 0°	Range to Target: 25 ft	BP: 29.71 inHg	
Backing Material: NA	Target to Witness: 6 in	RH: 50%	
Condition: Ambient		Barrel/Gun: CDS-0189	
		Gunner: J. McDowell	
		Recorder: Craig Thomas	

Ammunition		
Projectile	Lot No.	Powder
(1) .30-06-cal., 165-grain APM2	Unknown	N 140

Applicable Standards or Procedures
(1) MIL-STD-662F
(2) Per customer request

Shot No.	Powder/Seating	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Result	Include in V ₅₀	Footnotes
1	52.0	3415	2928	3416	2927	2928	2922	C	True	
2	50.0	3522	2839	3524	2838	2838	2832	P	True	
3	51.0	3488	2867	3490	2865	2866	2860	P	True	
4	52.0	3390	2950	3391	2949	2949	2943	C	False	
5	51.0	3487	2868	3488	2867	2867	2861	C	True	
6	50.0	3551	2816	3552	2815	2816	2810	P	True	
7	51.0	3466	2885	3467	2884	2885	2879	C	True	

<p>Remarks:</p> <p>Liba panel, Weight: 23.32 lbs, Size: 23.75 x 23.75 in., Four corner thickness: 0.477 in, 0.469 in, 0.465 in, and 0.466 in; Avg. thickness: 0.469 in, Cylinder SC211: 12.48mm diameter, 10.75 mm height</p> <p>Aluminum panel No. 1, Weight: 14.52 lbs, Size: 24.00 x 24.00 in, Four corner thickness: 0.256 in, 0.255 in, 0.255 in, and 0.255 in; Avg. thickness: 0.255 in</p> <p>Aluminum panel No. 2, Weight: 14.47 lbs, Size: 24.00 x 24.00 in, Four corner thickness: 0.256 in, 0.256 in, 0.255 in, and 0.254 in; Avg. thickness: 0.255 in</p>	<p>V₅₀ Summary:</p> <p>No. Points: 3 and 3 V₅₀: 2861 ft/s High Partial: 2860 ft/s Low Complete: 2861 ft/s Range of Results (ROR): 112 ft/s Range of Mix Results (RMR): NA Gap: 1 ft/s</p>
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