## NATIONAL TECHNICAL SYSTEMS **BALLISTIC RESISTANCE TEST**

Record No.: WC15005 Date Received: 05/05/15 **UPS** Test Date: 05/07/15 Via:

Returned Via: UPS Customer: Waco Composites

**Test Conditions** 

Temperature: 72 °F Humidity: 52 %

Test Spec.: NIJ 0108.01, September 1985

Threat Level: Ш

Paragraph No.: Table 1 & Paragraph 5.2.5

No. of Shots: 5 Range 4

Muzzle to Screen 1:

Screen 1 - 2: 5.00 ft. Screen 2 - Target: 37.65 ft. Midpoint to Target: 40.15 ft. Target to Witness: 0.50 ft. Witness: 2024-T3 Alum. Barrel Length:

6.56 ft.

26 in.

Sample Description				Test / Ammunition Description				Chronograph		Results
Sample	Sample	Sample	Shot	Shot	Degree	Caliber	Bullet	TIME	VELOCITY	Penetration
Number	Thickness (in.)	Weight (lbs.)	No.	Location	Obliquity		Weight (gr.) /Type	sx-5	fps	No Penetration
1500605A	1.45"	15.51	*1	*TL	0°	7.62mm	150 / FMJ	177.3	2820	No Penetration
1500605A	1.45"	15.51	2	TR	0°	7.62mm	150 / FMJ	178.7	2798	No Penetration
1500605A	1.45"	15.51	3	BR	0°	7.62mm	150 / FMJ	181.6	2753	No Penetration
1500605A	1.45"	15.51	4	BL	0°	7.62mm	150 / FMJ	180.2	2775	No Penetration
1500605A	1.45"	15.51	5	С	0°	7.62mm	150 / FMJ	179.1	2792	No Penetration
This test was performed in accordance with the				National Technical Systems, Inc.			Phone		316-832-1600	
specification requirements and the results properly				7447 W. 33rd St. N.		Fax		316-832-1602		
reflect the ballistic performance of the listed sample.				Wichita,	KS 67205	U.S.A.		Email	ustl@nts.com	

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## **REMARKS / NOTES:**

·Sample secured using frame and clamps.

## Test Round Used:

7.62mm (.308 Winchester) 150 gr. FMJ (U.S. Military designation M80) @ NIJ 0108.01 Level III velocity of 2750 +/- 50 fps

## **Shot Locations / Spacing:**

•Minimum Requirement: 2.0" shot-to-edge and shot-to-shot spacing per Paragraph 3.2 Fair Hit.

•Shots 1-4 placed approximately 3.5" shot-to-edge and 5.0" shot-to-shot; Shot 5 placed 6.0" shot-to-edge and 3.5" shot-to-shot.

Shot No. 1: TL - Top Left Shot No. 2: TR - Top Right Shot No. 3: BR - Bottom Right

Shot No. 4: BL - Bottom Left Shot No. 5: C - Center

Sample Tested:			POST-TEST RESULTS / NOTES / REMARKS:		
Manufacturer:	Waco Composites	Shot No. 1:	*Excessive velocity (over 2800 fps)		
Model No.:	R&D		Deemed a fair hit due to no penetration.		
Sample No.:	1500605A		Bullet stopped in sample		
Size (in.):	12" x 12"				
Thickness (in.):	1.45"	Shot No. 2:	Fair Hit; Bullet stopped in sample		
Weight (lbs.):	15.51				
		Shot No. 3:	Fair Hit; Bullet stopped in sample		
		Shot No. 4:	Fair Hit; Bullet stopped in sample		
Sample Descri		Shot No. 5:	Fair Hit; Bullet stopped in sample		
Layer 1: Rigid v	voven roving (5x5, 1.45" thick).				
Crawford/Lando	n				