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BALLISTIC TEST REPORT

TEST PANEL

SET-UP

Description concrete Thickness 3 in. Obliquity 0 Backing Material N/A Witness Panel paper
 Plies/Laminates fiber reinforced Hardness #10 Range 15 ft Target to Witness 15 inches Shot Spacing 4.5 in.
 Size 24 in. x 24 in. Weight 135 lbs Standard/Procedures U.L. 7.52 10TH ED 3/2000 Level IV - **modified

Velocity confirmed and recorded by Oehler Model 35 Proof Chronograph, and a Pact No. 16 Professional Chronograph.

Rnd	Weapon	Barrel	Caliber	Ammo	Projectile	Rnge	Mfg Vel	Chron Vel	Temp	Hmdty	Hard Panel		Soft Panel		Other:
											Penetration	Spall	Penetration	Spall	
1	1903 S.F.*	20	30/06	Win	180 SP	15'		2542	78	41	PP	NO			
2	1903 S.F.	20	30/06	Win	180 SP	15'		2544	78	41	PP	NO			
3	1903 S.F.	20	30/06	Win	180 SP	15'		2553	78	41	PP	NO			
4	1903 S.F.	20	30/06	Win	180 SP	15'		2544	78	41	PP	NO			
5	1903 S.F.	20	30/06	Win	180 SP	15'		2553	78	41	PP	NO			

	1 SHOT	3 SHOT	5 SHOT	SHOT
AVERAGE			2547	
LOW			2542	
HIGH			2553	
ALLOWED			2540	
SPREAD			2794	

CLIENT INFORMATION:

W.R. GRACE & CO
 62 Whittenmore Ave.
 Cambridge MA 02140

Document No. C13: W01-302

Project No. J4720

Gunner N. SMITH

Observer Alex Brakovik; Ray Tooth

COMMENTS:

Back side of test sample No. 5 chipped off and cracked off with no penetration of witness panel.

Projectile energy in foot pounds at muzzle: 2913 ft. lbs.

at 100 yds.: 2203 ft. lbs.

* Model 1903 Springfield Rifle

**U.L. spec noted calls for one shot, here modified in that product shot 5 times.

CERTIFICATION

This test sample meets the Standard and Procedures listed above.

does not meet the Standard and Procedures listed above.

CERTIFIED this 5th day of September, 2001, by:

Norman E. Smith

Ballistic Technician