

Ballistic Testing Services

Report Number: BTR-03-26-2009-PO-020355-BR-8 - Sample 3

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Name: Security Metal Products Corporation  
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Report Date: March 26, 2009  
 Contact: Roger Lange  
 Email: sales@secmet.com

**Ballistic Results**

**Project Summary**

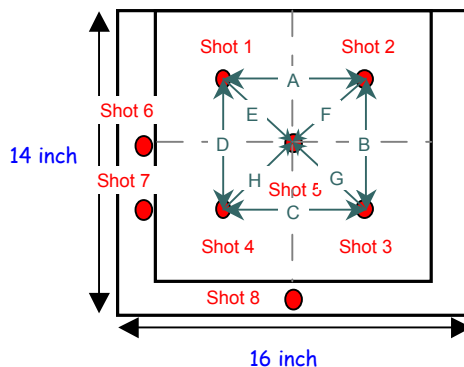
Type of Products to be tested: Door and Frame Assembly  
 Test Specimen Sample size(s): 14 x 16 inch  
 Number of test specimens: 6 Sample(s)  
 Weight of all samples: 215 lbs  
 Are Materials a Health Hazard: No  
 Need the Tests performed by: March 31, 2009  
 Need products shipped back: Yes  
 Purchase Order Number: PO-020355

**International Ballistic Standards / Specifications Testing**

ASTM     Brunswick     FRA     NIJ     CFR Pass All  
 Australian     Canadian     Germ DIN     State Dept     CFR SYA  
 British     EN 1063     MIL-SAMIT     UL 752     Other  
 Test Standard: UL 752  
 Particular Test: UL Level 8 (.30 cal. 7.62 NATO FMJ)  
 Velocity Range: 2,750 to 3,025 ft/s  
 Number of Shots: 5 shots  
 Spacing / Pattern: 4.5 inch square

**Test Results**

Product Number: BR-8 - Sample 3  
 Sample Type: Door and Frame Assembly  
 Sample Size: 14 x 16 inch  
 Thickness: 6 inches  
 Weight: 41 lbs  
 Weapon Type: 7.62 Rifle  
 Cartridge / Projectile Type: 7.62 x 51 NATO / M80 FMJ  
 Projectile Weight: 150 gr  
 Target Distance: 15 ft



	UL Level 8 (.30 cal. 7.62 NATO FMJ)				
	Door Section				
Particular Test:	UL Level 8 (.30 cal. 7.62 NATO FMJ)				
Number of Shots:	5 shots				
Shot Sequence:	Shot 1	Shot 2	Shot 3	Shot 4	Shot 5
Impact Velocity (ft/sec) *:	2,778	2,849	2,804	2,856	2,842
Impact Energy (ft-lbs):	2,570	2,703	2,618	2,716	2,690
Impact Momentum (lb-sec.):	1.85	1.90	1.87	1.90	1.89
Impact Angle (degrees):	0°	0°	0°	0°	0°
Penetration Effect:	NP	NP	NP	NP	NP

Frame shots		
3 shots		
Shot 6	Shot 7	Shot 8
2,800	2,845	2,779
2,611	2,695	2,572
1.86	1.89	1.85
0°	0°	0°
NP	NP	NP

Witness plate material: 0.125 in. thick corrugated cardboard  
 Witness Plate Distance: 18 inches  
 Spall Occurrence: None  
 Test Temperature: 74 °F  
 Test Date: March 26, 2009      NP = No Penetration  
 Comments: Passed the Test      CP = Complete Penetration

Impact Spacing (inches)	
A	4.10
B	4.70
C	4.80
D	3.75
E	2.75
F	2.50
G	3.80
H	3.20
Average	
4.34	
Average	
3.06	

**Comments and Test Descriptions**

\* Velocity measurements were taken at a distance of 6.6 ft from muzzle

**Test and Report Engineers**

Tested and Reported by: Sam Wilson

Signature: Sam Wilson

Date: March 26, 2009

Name: [Security Metal Products Corporation](#)

Report Date: [March 26, 2009](#)

**Ballistic Test Results and Photographs**

**Ballistic Test Results:**

The Door and Frame Assembly sample passed the UL Level 8 (.30 cal. 7.62 NATO FMJ) Ballistic test.

**Projectile Penetration Effects:**

There was no partial or complete projectile penetration of the Door and Frame Assembly sample for all 8 shots.

**Witness Plate and Spall Effects:**

No spall was observed and no damage occurred to the 0.125 in. thick corrugated cardboard witness plate.

**Test and Report Engineers**

Tested and Reported by: Sam Wilson

Signature: *Sam Wilson*

Date: [March 26, 2009](#)