

Ballistic Testing Services

Report Number: BTR-03-26-2009-PO-020355-BR-3 - Sample 4

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Report Date: March 26, 2009
 Contact: Roger Lange
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Ballistic Results

Project Summary

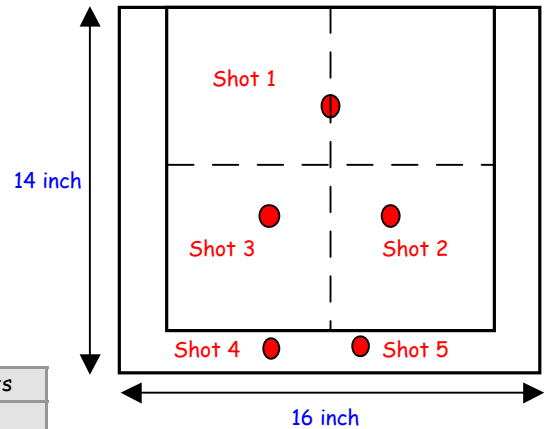
Type of Products to be tested: Door and Frame Assembly
 Test Specimen Sample size(s): 14 x 16 inch
 Number of test specimens: 6 Sample(s)
 Weight of all samples: 215 lbs
 Are Materials a Health Hazard: No
 Need the Tests performed by: March 31, 2009
 Need products shipped back: Yes
 Purchase Order Number: 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 3 Part 1 (.44 Magnum SWC)
 Velocity Range: 1,350 to 1,485 ft/s
 Number of Shots: 3 shots
 Spacing / Pattern: 4.5 inch triangle

Test Results

Product Number: BR-3 - Sample 4
 Sample Type: Door and Frame Assembly
 Sample Size: 14 x 16 inch
 Thickness: 6 inches
 Weight: 30.5 lbs
 Weapon Type: .44 Magnum
 Cartridge / Projectile Type: .44 Magnum SWC
 Projectile Weight: 240 gr
 Target Distance: 15 ft



Particular Test:	UL Level 3 Part 1 (.44 Mag.)		
Number of Shots:	3 shots Door Section		
Shot Sequence:	Shot 1	Shot 2	Shot 3
Impact Velocity (ft/sec) *:	1,378	1,380	1,355
Impact Energy (ft-lbs):	1,012	1,015	978
Impact Momentum (lb-sec):	1.47	1.47	1.44
Impact Spacing (inches) **::	4.5	4.1	4.5
Impact Angle (degrees):	0°	0°	0°
Penetration Effect:	NP	NP	NP

Frame shots	2 shots	
	Shot 4	Shot 5
Impact Velocity (ft/sec) *:	1,354	1,355
Impact Energy (ft-lbs):	977	978
Impact Momentum (lb-sec):	1.44	1.44
Impact Spacing (inches) **::	N/A	4.1
Impact Angle (degrees):	0°	0°
Penetration Effect:	NP	NP

Impact Spacing / Pattern: 4.37 inch (average)
 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
 Comments: Passed the Test

NP = No Penetration
 CP = Complete Penetration

Comments and Test Descriptions

- * Velocity measurements were taken at a distance of 6.6 ft from muzzle
- ** Impact Spacing is the distance between shots. (shot 1= 3 to 1, shot 2 = 1 to 2, shot 3 = 2 to 3)

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 3 Part 1 (.44 Magnum SWC) Ballistic test.

Projectile Penetration Effects:

There was no partial or complete projectile penetration of the Door and Frame Assembly sample for all 5 shots.

Witness Plate and Spall Effects:

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

Photographs

The following photographs show both the pre and post-test Transparent Armor Window. Additional larger sized photographs are included with this report.

Sample 4 - UL752 Level 3 Part 1 (.44 magnum) Door and Frame Assembly - 16 x 14 x 6 in.



Sample 4 Pre Test Impact Side



Sample 4 Pre Test Rear Side



Sample 4 Pre Test Impact Side



Sample 4 Pre Test Rear Side



Sample 4 Post Test Impact Side



Sample 4 Post Test Rear Side



Sample 4 Post Test Impact Side



Sample 4 Post Test Rear Side

Test and Report Engineers

Tested and Reported by: Sam Wilson

Signature: *Sam Wilson*

Date: March 26, 2009