

Ballistic Testing Services

Report Number: BTR-02-15-2015-SD4063-Sample 1

Phone: 800-513-4291 Email: [techsupport@CloseFocusResearch.com](mailto:techsupport@CloseFocusResearch.com)

CloseFocusResearch.com

Name: GPS Specialty Doors  
 Address: 90 Dayton Ave, Unit 4B, Suite 13, Passaic, NJ 07055  
 Phone: Phone: 973-778-6200 / Fax: 973-778-2177

Report Date: February 15, 2015  
 Contact: Will Brown  
 Email: [will@shieldingsystems.com](mailto:will@shieldingsystems.com)

**Ballistic Results**

**Project Summary**

Type of Products to be tested: **Bullet Resistant Door Assembl**  
 Test Specimen Sample size(s): **16.31 x 13.88 x 6.13 inch**  
 Number of test specimens: **1 Sample**  
 Weight of all samples: **61.6 lbs**  
 Are Materials a Health Hazard: **No**  
 Need the Tests performed by: **To be determined**  
 Need products shipped back: **Yes**  
 Purchase Order Number: **SD4063**

**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: **Underwriters Laboratory UL752**  
 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 ± 0.5 inch square**

**Test Results**

Test Sample: **Sample 1**  
 Item / D.O.M.: **1 / 01-29-2016**  
 Sample ID: **SD14013BTS1**  
 Sample Type: **Bullet Resistant Door Assembly**  
 Sample Size: **16.31 x 13.88 inch (414.3 x 352.4 mm)**  
 Thickness: **6.125 inch (155.6 mm)**  
 Weight: **61.6 lbs (27.9 kg)**  
 Weapon Type: **7.62 NATO**  
 Cartridge / Projectile Type: **7.62 NATO / M80 FMJ**  
 Projectile Weight: **150 grains**  
 Target Distance: **15 feet**

Number of Shots: **5 Door / 10 shots Gap, Frame, and Hinge**

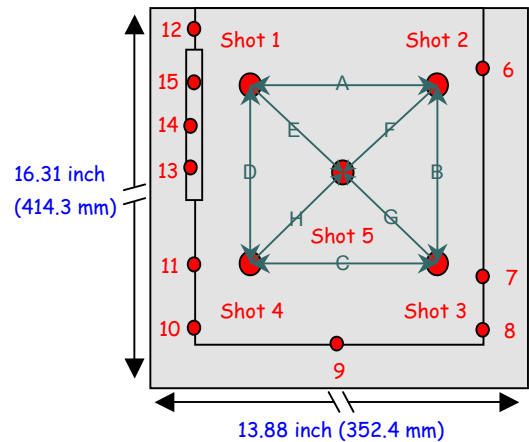
Shot Sequence:	Shot 1	Shot 2	Shot 3	Shot 4	Shot 5
Impact Velocity (ft/sec) *:	2,771	2,767	2,780	2,777	2,768
Impact Energy (ft-lbs):	2,557	2,550	2,574	2,568	2,551
Impact Momentum (lb-sec.):	1.85	1.84	1.85	1.85	1.84
Impact Angle (degrees):	0°	0°	0°	0°	0°
Sample Penetration:	NP	NP	NP	NP	NP
Witness Plate Penetration:	NP	NP	NP	NP	NP

Witness Plate & Spall Result:

Witness plate material: **0.125 in. thick corrugated cardboard**  
 Spall catch box: **Not required**  
 Witness / Box Distance: **18.0 inches**  
 Spall Occurrence: **No spall occurred**  
 Test Temperature: **73 ° F**  
 Test Date: **February 15, 2015**  
 Pass / Fail Results: **Passed the Test**  
 Comments: **Door Dimensions: 11.75 x 11.88 x 2.48 inch**

**Footnotes**

\* Velocity measurements were taken at a distance of 6 feet from muzzle.



Impact Spacing (inches)	
A	4.60
B	4.65
C	4.65
D	4.10
Average 4.50	
E	2.95
F	3.45
G	3.20
H	3.15
Average 3.19	

NP = No Penetration  
 PP = Partial Penetration  
 CP = Complete Penetration  
 N/A = Not Applicable

**Test and Report Engineers**

Tested and Reported by: **Sam Raheb**

Signature: *Sam Raheb*

Date: **February 15, 2015**

Name: GPS Specialty Doors

Report Date: February 15, 2015

Ballistic Test Results and Photographs

Ballistic Test Results:

Test Sample 1 passed the Underwriters Laboratory UL752 UL Level 8 (.30 cal. 7.62 NATO FMJ) Ballistic test. There was no partial or complete penetration of the test sample from any of the 7.62 NATO / M80 FMJ caliber projectiles.

Additional Velocities for the Door Assembly's Gap, Frame, and Hinge:

V6 = 2,775, V7 = 2,782, V8 = 2,772, V9 = 2,784, V10 = 2,778, V11 = 2,768, V12 = 2,770, V13 = 2,775, V14 = 2,778, V15 = 2,771 ft / sec

Witness Plate and Spall Effects:

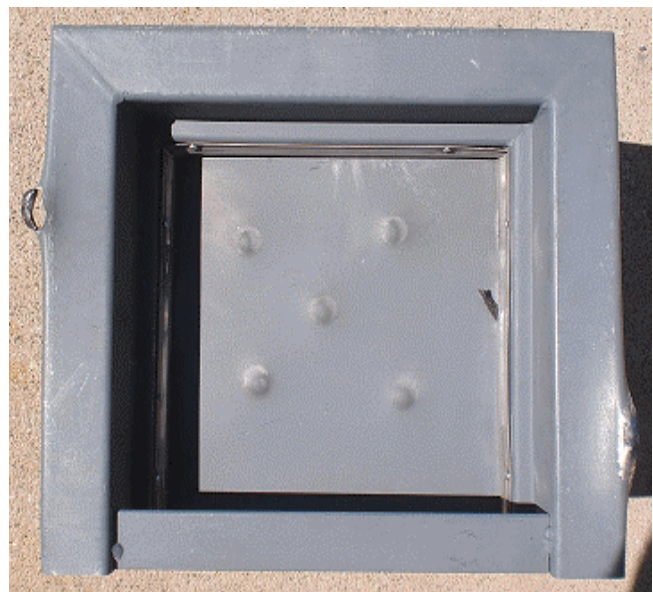
No spall occurred or damage to the 0.125 in. thick corrugated cardboard witness plate was observed.

Photographs

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



Sample 1 Post Test Impact Side



Sample 1 Post Test Rear Side

Test and Report Engineers

Tested and Reported by: Sam Raheb

Signature: *Sam Raheb*

Date: February 15, 2015

Name: GPS Specialty Doors

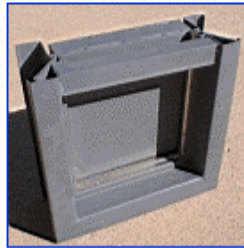
Report Date: February 15, 2015

Ballistic Test Results and Photographs

Sample 1: Bullet Resistant Door Assembly SD14013BTS1 - UL752 Level 8 - 16.31 x 13.88 x 6.13 in.



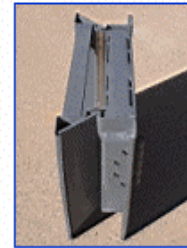
Pre Test Impact Side



Pre Test Rear Side



Pre Test Rear Side



Pre Test Left Side



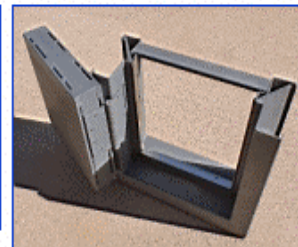
Pre Test Right Side



Pre Test Top Side



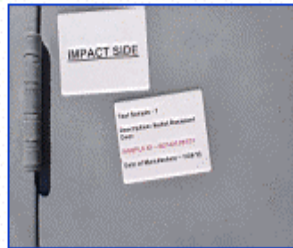
Pre Test Front Side Door Open



Pre Test Front Side Door Open



Pre Test Impact Side



Pre Test Impact Side



Pre Test Rear Side



Post Test Impact Side



Post Test Rear Side



Post Test Impact Side



Post Test Impact Side



Post Test Impact Side



Post Test Impact Side



Post Test Impact Side



Post Test Impact Side



Post Test Impact Side

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Ballistic Test Results and Photographs

Sample 1: Bullet Resistant Door Assembly SD14013BTS1 - UL752 Level 8 - 16.31 x 13.88 x 6.13 in.



Post Test Impact Hinge



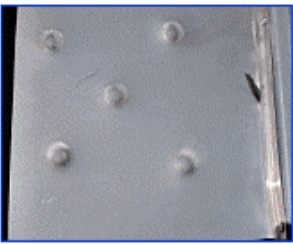
Post Test Impact Hinge



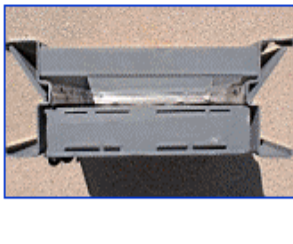
Post Test Impact Hinge



Post Test Rear Side



Post Test Rear Side



Post Test Top Side



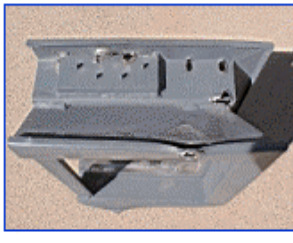
Post Test Top Side



Post Test Impact Bottom Side



Post Test Rear Bottom Side



Post Test Rear Left Side



Post Test Rear Left Side



Post Test Rear Left Side



Post Test Rear Left Side



Post Test Rear Left Side



Post Test Left Side



Post Test Impact Left Side



Post Test Impact Right Side



Post Test Impact Right Side



Post Test Impact Right Side



Post Test Rear Right Side

Test and Report Engineers

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Signature: *Sam Raheb*

Date: February 15, 2015