

Ballistic Testing Services

Report Number: BTR-10-02-2009-TBD-Sample 3

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CloseFocusResearch.com

Name: [Intermat Inc.](#)  
 Address: [2045 Placentia Ave., Costa Mesa, California 92627](#)  
 Phone: [Phone: 866-469-7432](tel:866-469-7432)

Report Date: [October 2, 2009](#)  
 Contact: [Carleton Elliott](#)  
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**Ballistic Results**

**Project Summary**

Type of Products to be tested: [Series 200B Wall Assemblies](#)  
 Test Specimen Sample size(s): [13.4 x 15.5 inch](#)  
 Number of test specimens: [6 Samples](#)  
 Weight of all samples: [210 lbs](#)  
 Are Materials a Health Hazard: [No](#)  
 Need the Tests performed by: [October 5, 2009](#)  
 Need products shipped back: [Yes](#)  
 Purchase Order Number: [TBD](#)

**International Ballistic Standards / Specifications Testing**

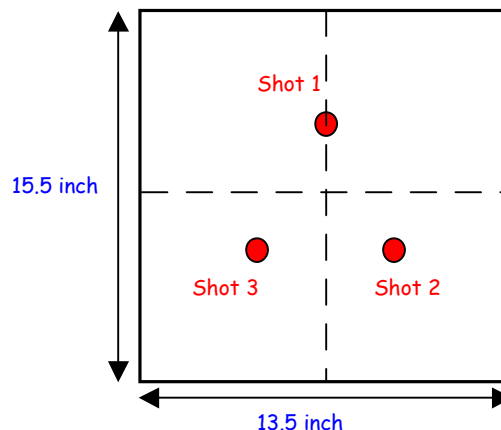
ASTM  Brunswick  FRA  NIJ  CFR Pass All  
 Australian  Canadian  Germ DIN  State Dept  CFR SYA  
 British  EN 1063  MIL-SAMIT  UL 752  Other  
 Test Standard: [Underwriters Laboratory UL752](#)  
 Particular Test: [UL Level 3 Part 1 \(.44 Magnum SWC\)](#)  
 Velocity Range: [1,350 to 1,485 ft/s](#)  
 Number of Shots: [3 shots](#)  
 Spacing / Pattern: [4.0 inch triangle](#)

**Test Results**

Product Number: [Sample 3](#)  
 Sample Type: [Series 200B Wall Assembly](#)  
 Sample Size: [13.5 x 15.5 inch](#)  
 Thickness: [5.3 inch](#)  
 Weight: [25 lbs](#)  
 Weapon Type: [.44 Magnum](#)  
 Cartridge / Projectile Type: [.44 Magnum SWC](#)  
 Projectile Weight: [240 grains](#)  
 Target Distance: [15 feet](#)  
 Number of Shots: [3 shots](#)  
 Shot Sequence:

Shot 1	Shot 2	Shot 3	
Impact Velocity (ft/sec) *:	1,412	1,434	1,422
Impact Energy (ft-lbs):	1,062	1,096	1,077
Impact Momentum (lb-sec):	1.50	1.53	1.52
Impact Spacing (inches) **:	2.88	3.38	3.25
Impact Angle (degrees):	0 °	0 °	0 °
Penetration Effect:	NP	NP	NP

Impact Spacing / Pattern: [3.17 inch \(average\)](#)  
 Witness plate material: [0.125 in. thick corrugated cardboard](#)  
 Spall catch box: [Not required](#)  
 Witness / Box Distance: [18 inches](#)  
 Spall Occurrence: [A small amount, see page 2](#)  
 Test Temperature: [75 ° F](#)  
 Test Date: [October 2, 2009](#)  
 Comments: [Passed the Test](#)



NP = No Penetration  
 CP = Complete Penetration

**Comments and Test Descriptions**

- \* Velocity measurements were taken at a distance of 6 feet 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 Raheb](#)

Signature: *Sam Raheb*

Date: [October 2, 2009](#)

Name: **Intermat Inc.**

Report Date: **October 2, 2009**

**Ballistic Test Results and Photographs**

**Ballistic Test Results:**

The test sample passed the Underwriters Laboratory UL752 Level 3 Part 1 (.44 Magnum SWC) Ballistic test.

**Projectile Penetration Effects:**

There was no partial or complete projectile penetration of the sample for all 3 shots.

**Witness Plate and Spall Effects:**

A small amount of spall in the form of powder sized particles was observed, but no damage to the witness plate occurred.

**Photographs**

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

**Sample 3 - Series 200B Wall Assy - UL Level 3 44 magnum - 13.5 x 15.5 x 5.3 inch**



Sample 3 Pretest Impact Side Sample 3 Pretest Rear Side Sample 3 Posttest Impact Side Sample 3 Posttest Rear Side

**Test and Report Engineers**

Tested and Reported by: **Sam Raheb**

Signature: *Sam Raheb*

Date: **October 2, 2009**