

Ballistic Testing Services

Report Number: BTR-10-02-2009-TBD-Sample 2

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CloseFocusResearch.com

Name: [Intermat Inc.](#)
 Address: [2045 Placentia Ave., Costa Mesa, California 92627](#)
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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

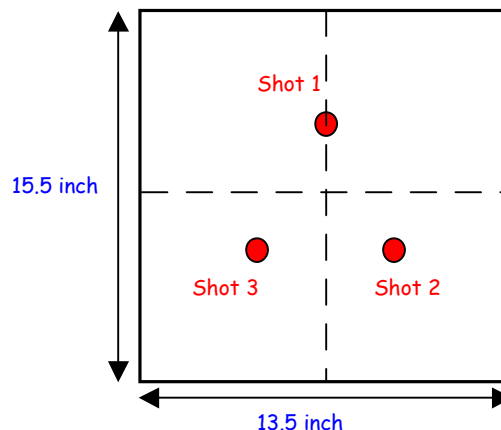
ASTM Brunswick FRA NIJ CFR Pass All
 Australian Canadian Germ DIN State Dept CFR SYA
 British EN 1063 MIL-SAMIT UL 752 Other
 Test Standard: [Underwriters Laboratory UL752](#)
 Particular Test: [UL Level 3 Part 1 \(.44 Magnum SWC\)](#)
 Velocity Range: [1,350 to 1,485 ft/s](#)
 Number of Shots: [3 shots](#)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

Test Results

Product Number: [Sample 2](#)
 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) *:	1,407	1,400	1,413
Impact Energy (ft-lbs):	1,055	1,044	1,064
Impact Momentum (lb-sec):	1.50	1.49	1.51
Impact Spacing (inches) **:	2.50	3.25	3.50
Impact Angle (degrees):	0 °	0 °	0 °
Penetration Effect:	NP	NP	NP

Impact Spacing / Pattern: [3.08 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 2 - Series 200B Wall Assy - UL Level 3 44 magnum - 13.5 x 15.5 x 5.3 inch



Sample 2 Pretest Impact Side Sample 2 Pretest Rear Side Sample 2 Posttest Impact Side Sample 2 Posttest Rear Side

Test and Report Engineers

Tested and Reported by: **Sam Raheb**

Signature: *Sam Raheb*

Date: **October 2, 2009**