

Ballistic Testing Services

Report Number: BTR-10-02-2009-TBD-Sample 6

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CloseFocusResearch.com

Name: Intermat Inc.  
 Address: 2045 Placentia Ave., Costa Mesa, California 92627  
 Phone: Phone: 866-469-7432

Report Date: October 2, 2009  
 Contact: Carleton Elliott  
 Email: support@sureboard.com

**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

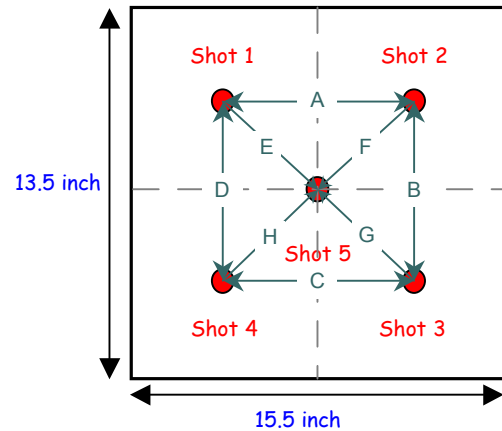
Test Standard: Underwriters Laboratory UL752  
 Particular Test: UL Level 8 (.30 cal. 7.62 NATO FMJ)  
 Velocity Range: 2,750 to 3,025 ft/s  
 Number of Shots: 5 shots  
 Spacing / Pattern: 4.5 inch square

**Test Results**

Product Number: Sample 6  
 Sample Type: Series 200B Wall Assembly  
 Sample Size: 13.5 x 15.5 inch  
 Thickness: 5.3 inch  
 Weight: 45 lbs  
 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 shots

Shot Sequence:	Shot 1	Shot 2	Shot 3	Shot 4	Shot 5
Impact Velocity (ft/sec) *:	2,796	2,869	2,885	2,842	2,861
Impact Energy (ft-lbs):	2,603	2,741	2,772	2,690	2,726
Impact Momentum (lb-sec.):	1.86	1.91	1.92	1.89	1.91
Impact Angle (degrees):	0°	0°	0°	0°	0°
Penetration Effect:	NP	NP	NP	NP	NP

Witness plate material: 0.125 in. thick corrugated cardboard  
 Spall catch box: Not required  
 Witness / Box Distance: 18 inches  
 Spall Occurrence: None  
 Test Temperature: 75 ° F  
 Test Date: October 2, 2009  
 Comments: Passed the Test



Impact Spacing (inches)	
A	4.50
B	4.50
C	4.50
D	4.25
E	3.25
F	3.13
G	3.13
H	3.13
Average 4.44	
Average 3.16	

NP = No Penetration  
 CP = Complete Penetration

**Comments and Test Descriptions**

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

**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 8 (.30 cal. 7.62 NATO FMJ) Ballistic test.

**Projectile Penetration Effects:**

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

**Witness Plate and Spall Effects:**

No spall 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 6 - Series 200B Wall Assy - UL Level 8 7.62 NATO - 13.5 x 15.5 x 5.3 inch**



Sample 6 Pretest Impact Side    Sample 6 Pretest Rear Side    Sample 6 Posttest Impact Side    Sample 6 Posttest Rear Side

**Test and Report Engineers**

Tested and Reported by: **Sam Raheb**

Signature: *Sam Raheb*

Date: **October 2, 2009**