

Name: Intermat Inc.
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 Phone: Phone: 866-469-7432

Report Date: May 28, 2013
 Contact: Carleton Elliott
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Ballistic Results

Project Summary

Type of Products to be tested: Series 200BX Wall Assembly
 Test Specimen Sample size(s): 24 x 14 x 5 inch
 Number of test specimens: 2 Samples
 Weight of all samples: ~100 lbs
 Are Materials a Health Hazard: No
 Need the Tests performed by: within 7 to 10 days
 Need products shipped back: No
 Purchase Order Number: N/A

International Ballistic Standards / Specifications Testing

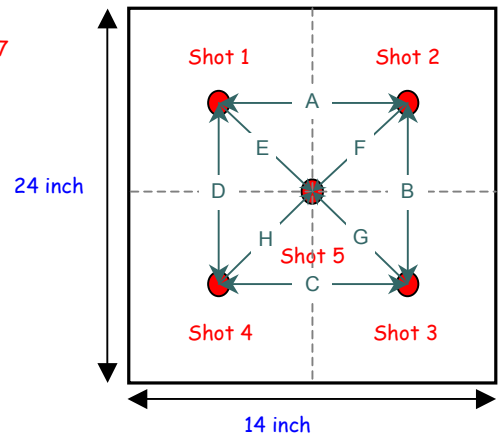
ASTM Brunswick FRA NIJ CFR Pass All
 Australian Canadian Germ DIN State Dept CFR SYA
 British EN 1063 MIL-SAMIT UL 752 Other
 Test Standard: Underwriters Laboratory UL752
 Particular Test: UL Level 8 (.30 cal. 7.62 NATO FMJ)
 Velocity Range: 2,750 to 3,025 ft/s
 Number of Shots: 5 shots
 Spacing / Pattern: 4.5 inch square

Test Results

Product Number: Sample 4 - Series 200BX Innegra BBS Model D14397
 Sample Type: Series 200BX Wall Assembly with single layer BBS
 Sample Size: 24 x 14 x 5 inch
 Thickness: 5 inch
 Weight: 50 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) *:	2,789	2,808	2,818	2,832	2,820
Impact Energy (ft-lbs):	2,590	2,626	2,644	2,671	2,648
Impact Momentum (lb-sec.):	1.86	1.87	1.88	1.89	1.88
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: 74 ° F
 Test Date: May 28, 2013
 Pass / Fail Results: Passed the Test



Impact Spacing (inches)		
A	4.50	Average 4.26
B	3.90	
C	4.25	
D	4.40	
E	3.80	Average 3.03
F	3.00	
G	2.50	
H	2.80	

Footnotes

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

NP = No Penetration
 CP = Complete Penetration

Test and Report Engineers

Tested and Reported by: Sam Raheb

Signature: *Sam Raheb*

Date: May 28, 2013

Name: **Intermat Inc.**

Report Date: **May 28, 2013**

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 or damage to the witness plate was observed.

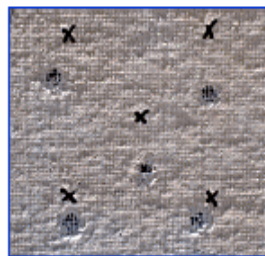
Photographs

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

Sample 4 - Series 200BX Innegra BBS Model D14397 Wall Assembly - UL752 Level 8 - 24 x 14 x 5 inch



Post Test Impact Side



Post Test Impact Side



Post Test Rear Side



Post Test Rear Side

Test and Report Engineers

Tested and Reported by: **Sam Raheb**

Signature: *Sam Raheb*

Date: **May 28, 2013**