

Name: Intermat Inc.
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Report Date: October 5, 2012
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 12 inch
Number of test specimens: 1 Sample
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: 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 10 (.50 cal FMJ Military Ball)
Velocity Range: 2,810 to 3,091 ft/s
Number of Shots: 1 shot
Spacing / Pattern: Center shot

Test Results

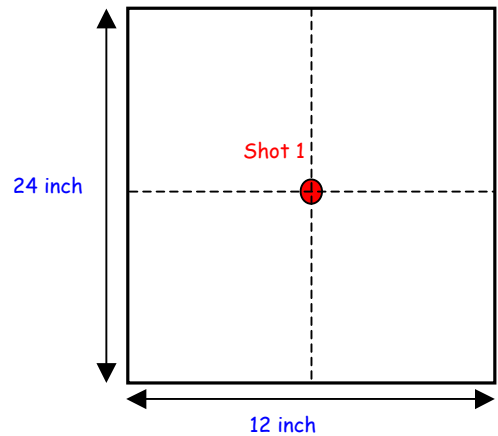
Product Number: Sample 3 - Series 200BX 14 Gauge with Kevlar Bag
Sample Type: Series 200BX Wall Assembly
Sample Size: 24 x 12 inch
Thickness: 15.38 inch
Weight: ~100 lbs
Weapon Type: .50 caliber
Cartridge / Projectile Type: .50 cal FMJ Military Ball
Projectile Weight: 710 grains
Target Distance: 15 feet
Number of Shots: 1 shot
Shot Sequence:

Shot 1

Impact Velocity (ft/sec) *: 2,812
Impact Energy (ft-lbs): 12,464
Impact Momentum (lb-sec): 8.86
Impact Angle (degrees): 0 °
Penetration Effect:

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: October 5, 2012
Pass / Fail Results: Passed the Test



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: October 5, 2012

Name: **Intermat Inc.**

Report Date: **October 5, 2012**

Ballistic Test Results and Photographs

Ballistic Test Results:

The test sample passed the Underwriters Laboratory UL752 Level 10 (.50 cal FMJ Military Ball) Ballistic test.

Projectile Penetration Effects:

There was no partial or complete projectile penetration of the sample for the single shot test.

Witness Plate and Spall Effects:

The rear surface remained intact and no spall or damage to the witness plate was observed.

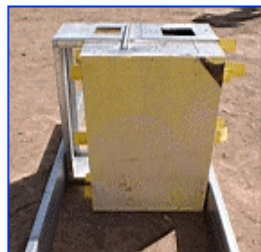
Photographs

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

Sample 3 - Series 200BX 14 Gauge Kevlar Bag 24 x 12 x 15.38 inch Wall Assembly - UL752 Level 10



Pretest Impact Side



Pretest Rear Side



Pretest Impact Side



Pretest Rear Side



Post Test Impact Side



Post Test Rear Side

Test and Report Engineers

Tested and Reported by: **Sam Raheb**

Signature: *Sam Raheb*

Date: **October 5, 2012**