| Close Focus Research Ballistic Testing and Design Services Phone: 800-513-4291 Email: <u>technicalsupport@CloseFocusResear</u> | | | | | of 2 | Rep | Ballistic Test Report ort Number: BTR-02-01-2006-TBD-Sample 2 CloseFocusResearch.com |
|---|---|--------------------------------------|--------------------------------------|---|-----------------------------|----------------|--|
| Name:Shooting Ranges InternationalAddress:3885 Rockbottom St., North Las Vegas, NV. 89030Phone:Phone: 702-362-3623 | | | | - - - | Contac | t: Jake C | ary 1, 2006 Cook <u>@shootingrangesintl.com</u> |
| Ballistic ResultsProject SummaryType of Products to be tested:Test Specimen Sample size(s):Number of test specimens:Weight of all samples: | Ballistic N 12 x 12 an 4 Samples 115 lbs | nd 24 x 24 | inch | 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: CFR Pass All | | | |
| Are Materials a Health Hazard: Need the Tests performed by: Need products shipped back: Purchase Order Number: | NoParticular Test:CFR-PA-08 (7.62 NATO M80) modifiedFebruary 10, 2006Velocity Range:2,750 to 3,025 ft/sYesNumber of Shots:5 shots - shot at 30° angleTBDSpacing / Pattern:4.3 inch square | | | | | | |
| Test Results Product Number: Sample Type: Sample Size: Thickness: Weight: Weight: Weapon Type: | Sample 2 12 x 12 x 2.85 inch Composite Ballistic Material 12.0 x 12.0 inch 2.85 inch 23.5 lbs 7.62 Rifle 12.0 inch | | | | | | |
| Cartridge / Projectile Type: Projectile Weight: Target Distance: Number of Shots: Shot Sequence: Impact Velocity (ft/sec) *: | 147 grNP = No Penetr15 ftCP = Complete R5 shots - shot at 30° angleShot 1Shot 2Shot 3Shot 4 | | | | | netration 5 | H Shot 5 C Shot 4 Shot 3 |
| Impact Energy (ft-lbs): Impact Momentum (lb-sec.) Impact Angle (degrees): Penetration Effect: | 30 ° NP | 2,936 2,813 1.92 30 ° NP | 2,929 2,800 1.91 30 ° NP | 2,934 2,809 1.92 30 ° NP | 2,785 1.91 30 ° NP | * | 12.0 inch Impact Spacing (inches) |
| Bulge Height (inches) **: Witness plate material: Witness Plate Distance: Spall Occurrence: Test Temperature: | 6 inches None 74 °F | 0.00 hick Alum | 0.00 inum foil | 0.00 | 0.00 | | A 4.48 B 5.14 C 4.32 D 4.35 E 2.94 |
| Test Date: Comments: | February Passed the | | | | | | F 3.58 Average G 3.55 3.27 H 3.00 |

Comments and Test Descriptions

- * Velocity measurements were taken at a distance of 6.6 ft from muzzle
- ** The post impact Bulge Height is the distance between the apex of the extruded deformation bulge to the tangent plane of the flat surface. This measurement is taken from the side opposite to the impacts.

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Test and Report Engineers

Tested and Reported by: Sam Wilson

Signature: Sam Wilson

Date: February 1, 2006

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Ballistic Test Report

Ballistic Testing and Design Services Phone: 800-513-4291 Email: <u>technicalsupport@CloseFocusResearch.com</u> Report Number: BTR-02-01-2006-TBD-Sample 2 CloseFocusResearch.com

Name: Shooting Ranges International Ballistic Test Results and Photographs

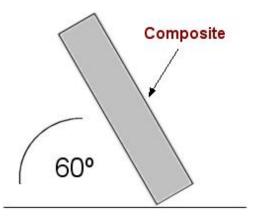
Report Date: February 1, 2006

Ballistic Test Results:

All five shots penetrated the impact surface but did not completely penetrate through sample. This Ballistic Material test sample passed the <u>modified</u> CFR Pass All - CFR-PA-08 (7.62 NATO M80) Ballistic test.

Witness Plate Spall Effects:

No Spall was observed.



2.85 inch Composite

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Test and Report Engineers

Tested and Reported by: Sam Wilson

Signature: Sam Wilson

Date: February 1, 2006

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