

INVITATION TO BID

Bid Invitation Number: 85-2013

Date of Issue: 07/11/2013

Sealed bids will be received in the office of the Division of Central Purchasing, 200 East Main Street, Lexington, Kentucky, until **2:00 PM**, prevailing local time on **07/25/2013**. Bids must be received by the above-mentioned date and time. Mailed bids should be sent to:

Division of Central Purchasing
200 East Main Street, Room 338
Lexington, KY 40507, (859) 258-3320

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

All bids must have the company name and address, bid invitation number, and the commodity/service on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: 150 E. Main St, Lexington, KY 40507

Bid Security Required: Yes No Performance Bond Required: Yes No
Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).

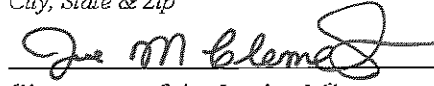
Commodity/Service
Soft Body Armor
See specifications

<p align="center"><u>Check One:</u></p> <p><input checked="" type="checkbox"/> Bid Specifications Met</p> <p><input type="checkbox"/> Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i></p>	<p align="center"><u>Proposed Delivery:</u></p> <p align="center"><u>30²</u> days after acceptance of bid.</p>
<p align="center"><u>Procurement Card Usage</u></p> <p><input checked="" type="checkbox"/> Yes The Lexington-Fayette Urban County Government will be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards?</p> <p><input type="checkbox"/> No</p>	

Submitted by: Galls LLC
Firm

1340 Russell Cave Rd.
Address

Lexington, KY 40505
City, State & Zip

Bid must be signed: 
(original signature) Signature of Authorized Company Representative – Title

Joe M. Clements
Representative's Name (Typed or printed)

800 876 4242 ext 381 877 914 2557
Area Code - Phone - Extension Fax #

Clements - Joe@galls.com
E-Mail Address

The Affidavit in this bid must be completed before your firm can be considered for award of this contract.

AFFIDAVIT

Comes the Affiant, Joe Clements, and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Joe Clements and he/she is the individual submitting the bid or is the authorized representative of

Galls LLC

the entity submitting the bid (hereinafter referred to as "Bidder").

2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.

6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

Joe M. Clements

STATE OF Kentucky

COUNTY OF Fayette

The foregoing instrument was subscribed, sworn to and acknowledged before me

by Joe Clements on this the 22nd day

of July, ~~2012~~ ²⁰¹³

My Commission expires: 6/15/15

[Signature]
NOTARY PUBLIC, STATE AT LARGE

Please refer to Section II. Bid Conditions, Item "U" prior to completing this form.

I. GREEN PROCUREMENT

A. ENERGY

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to www.Energystar.gov). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

Key Benefits

- These products use 25 to 50% less energy
- Reduced energy costs without compromising quality or performance
- Reduced air pollution because fewer fossil fuels are burned
- Significant return on investment
- Extended product life and decreased maintenance

B. GREEN SEAL CERTIFIED PRODUCTS

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to www.Greenseal.org to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

C. GREEN COMMUNITY

The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.

If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?

Yes No

II. Bid Conditions

- A. No bid may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- C. Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject any and all bids for either fiscal or technical reasons, and to award each part of the bid separately or all parts to one vendor.
- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may waive technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- I. Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be marked on the face of the envelope:

"Bid on #85-2013 Soft Body Armor"

and addressed to: Division of Central Purchasing
 200 East Main Street, Room 338
 Lexington, Kentucky 40507

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

- K. Bidder is requested to show both unit prices and lot prices. In the event of error, the unit price shall prevail.
- L. A Certified / Cashier's Check or Bid Bond in the amount of XX percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of failure to perform within the time period set forth in this bid, it is agreed the certified / cashier's check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful

bidders will be returned when the bid has been awarded.

- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.
- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*

(2) Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.

KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor

- (1) If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.
- (2) If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.
- (3) The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.

KRS 45.630 Termination of existing employee not required, when

Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.

KRS 45.640 Minimum skills

Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.

It is recommended that all of the provisions above quoted to be included as special conditions in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

- U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 33S (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and*
- (2) Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.*

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

- V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

III. Procurement Contract Bid Conditions

- A. The terms of this agreement shall be for 1 year(s) from the date of acceptance of this contract by the Lexington-Fayette Urban County Government. This agreement may be extended for an additional 1 year renewal upon the written agreement of the bidder and the Lexington-Fayette Urban County Government. Said agreement must be in writing and must be executed prior to the expiration of the current agreement.
- B. Price Changes (Space Checked Applies)
 - (XXX) 1. Prices quoted in response to the Invitation shall be firm prices for the first 90 days of the Procurement Contract. After the first 90 days, prices may be subject to revision and such changes shall be based on general industry changes. Revision may be either increases or decreases and may be requested by either party. There will be no more than one (1) price adjustment per quarter. Requests for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.
 - () 2. No provision for price change is made herein. Prices are to be firm for the term of this contract.
 - () 3. Procurement Level Contract
- C. If any contract item is not available from the vendor, the Lexington-Fayette Urban County Government, at its option, may permit the item to be back-ordered or may procure the item on the open market.
- D. All invoices must bear reference to the Lexington-Fayette Urban County Government Purchasing document numbers which are being billed.
- E. This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of intent to cancel to the other contracting party.
- F. This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.
- G. No substitutions for articles specified herein may be made without prior approval of the Division of Central Purchasing.

EQUAL OPPORTUNITY AGREEMENT

The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.


The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

I We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.


Signature


Name of Business

GENERAL PROVISIONS OF BID CONTRACT

By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:


1. Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good.
2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
3. Addenda: All addenda, if any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
4. Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of bids, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affiliate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with the bid response.
10. Ambiguity, Conflict or other Errors: If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
11. Agreement to Bid Terms: In submitting its bid response, the bidder agrees that it has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it

understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.

12. Cancellation: LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written notice period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.
13. Assignment of Contract: The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract, and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. No Waiver: No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
15. Authority to do Business: Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.
16. Governing Law: This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
17. Ability to Meet Obligations: Bidder affirmatively states that there are no actions, suits or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.
18. Bidder understands and agrees that its employees, agents, or subcontractors are not

employees of LFUCG for any purpose whatsoever. Bidder is an independent contractor at all times related to the bid response or bid contract.

19. If any term or provision of this bid contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.



Signature

7-22-13
Date

Required Insurance Coverage

Vendor shall procure and maintain for the duration of this contract the following or equivalent insurance policies at no less than the limits shown below and cause its subcontractors to maintain similar insurance with limits acceptable to LFUCG in order to protect LFUCG against claims for injuries to persons or damages to property which may arise from or in connection with the provision of equipment or goods or the performance of the work or services hereunder by Vendor. The cost of such insurance shall be included in any bid:

<u>Coverage</u>	<u>Limits</u>
General Liability (Insurance Services Office Form CG 00 01)	\$1 million per occurrence, \$2 million aggregate or \$2 million combined single limit
Commercial Automobile Liability (Insurance Services Office Form CA 0001)	combined single, \$1 million per occurrence
Worker's Compensation	Statutory
Employer's Liability	\$500,000.00

The policies above shall contain the following conditions:

- a. All Certificates of Insurance forms used by the insurance carrier shall be properly filed and approved by the Department of Insurance for the Commonwealth of Kentucky. LFUCG shall be named as an additional insured in the General Liability Policy and Commercial Automobile Liability Policy using the Kentucky DOI approved forms.
- b. The General Liability Policy shall be primary to any insurance or self-insurance retained by LFUCG.
- c. The General Liability Policy shall include a Products Liability endorsement unless it is deemed not to apply by LFUCG.
- d. LFUCG shall be provided at least 30 days advance written notice via certified mail, return receipt requested, in the event any of the required policies are canceled or non-renewed.
- e. Said coverage shall be written by insurers acceptable to LFUCG and shall be in a form acceptable to LFUCG. Insurance placed with insurers with a rating classification of no less than Excellent (A or A-) and a financial size category of no less than VIII, as defined by the most current Best's Key Rating Guide shall be deemed automatically acceptable.

Renewals

After insurance has been approved by LFUCG, evidence of renewal of an expiring policy must be submitted to LFUCG, and may be submitted on a manually signed renewal endorsement form. If the policy or carrier has changed, however, new evidence of coverage must be submitted in accordance with these Insurance Requirements.

**RISK MANAGEMENT PROVISIONS
INSURANCE AND INDEMNIFICATION**

Bid #85-2013 – Soft Body Armor

INDEMNIFICATION AND HOLD HARMLESS PROVISION

- (1) It is understood and agreed by the parties that Vendor hereby assumes the entire responsibility and liability for any and all damages to persons or property caused by or resulting from or arising out of any act or omission on the part of Vendor or its employees, agents, servants, owners, principals, licensees, assigns or subcontractors of any tier (hereinafter "Vendor") under or in connection with this agreement and/or the provision of goods or services and the performance or failure to perform any work required thereby.
- (2) Vendor shall indemnify, save, hold harmless and defend the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, volunteers, and successors in interest (hereinafter "LFUCG") from and against all liability, damages, and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penalties, fines, liens, costs, expenses, interest, defense costs and reasonable attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, from or by Vendor's performance or breach of the agreement and/or the provision of goods or services provided that: (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of the Vendor; and (b) not caused solely by the active negligence or willful misconduct of LFUCG.
- (3) In the event LFUCG is alleged to be liable based upon the above, Vendor shall defend such allegations and shall bear all costs, fees and expenses of such defense, including but not limited to, all reasonable attorneys' fees and expenses, court costs, and expert witness fees and expenses, using attorneys approved in writing by LFUCG, which approval shall not be unreasonably withheld.
- (4) These provisions shall in no way be limited by any financial responsibility or insurance requirements, and shall survive the termination of this agreement.

FINANCIAL RESPONSIBILITY

BIDDER/VENDOR understands and agrees that it shall, prior to final acceptance of its bid and the commencement of any work, demonstrate the ability to assure compliance with the above Indemnity provisions and these other risk management provisions.

INSURANCE REQUIREMENTS

YOUR ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW, AND YOU MAY NEED TO CONFER WITH YOUR INSURANCE AGENTS, BROKERS, OR CARRIERS TO DETERMINE IN ADVANCE OF SUBMISSION OF A RESPONSE THE AVAILABILITY OF THE INSURANCE COVERAGES AND ENDORSEMENTS REQUIRED HEREIN. IF YOU FAIL TO COMPLY WITH THE INSURANCE REQUIREMENTS BELOW, YOU MAY BE DISQUALIFIED FROM AWARD OF THE CONTRACT.

Deductibles and Self-Insured Programs

IF YOU INTEND TO SUBMIT A SELF-INSURANCE PLAN IT MUST BE FORWARDED TO LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, DIVISION OF RISK MANAGEMENT, 200 EAST MAIN STREET, LEXINGTON, KENTUCKY 40507 NO LATER THAN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE RESPONSE DATE.

Self-insurance programs, deductibles, and self-insured retentions in insurance policies are subject to separate approval by Lexington-Fayette Urban County Government's Division of Risk Management, upon review of evidence of Vendor's financial capacity to respond to claims. Any such programs or retentions must provide LFUCG with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance coverage. If Vendor satisfies any portion of the insurance requirements through deductibles, self-insurance programs, or self-insured retentions, Vendor agrees to provide Lexington-Fayette Urban County Government, Division of Risk Management, the following data prior to the final acceptance of bid and the commencement of any work:

- a. Latest audited financial statement, including auditor's notes.
- b. Any records of any self-insured trust fund plan or policy and related accounting statements.
- c. Actuarial funding reports or retained losses.
- d. Risk Management Manual or a description of the self-insurance and risk management program.
- e. A claim loss run summary for the previous five (5) years.
- f. Self-Insured Associations will be considered.

Verification of Coverage

Vendor agrees to furnish LFUCG with all applicable Certificates of Insurance signed by a person authorized by the insurer to bind coverage on its behalf prior to final award, and if requested, shall provide LFUCG copies of all insurance policies, including all endorsements.

Right to Review, Audit and Inspect

Vendor understands and agrees that LFUCG may review, audit and inspect any and all of its records and operations to insure compliance with these Insurance Requirements.

DEFAULT

Vendor understands and agrees that the failure to comply with any of these insurance, safety, or loss control provisions shall constitute default and that LFUCG may elect at its option any single remedy or penalty or any combination of remedies and penalties, as available, including but not limited to purchasing insurance and charging Vendor for any such insurance premiums purchased, or suspending or terminating the work.

Lexington-Fayette Urban County Government

Division of Police

Soft Body Armor

The Lexington-Fayette Urban County Government is accepting bids to establish a price contract for the purchase of Soft Body Armor for the Division of Police, 150 East Main Street, Lexington, Kentucky, 40507, as per the following specifications:

This product specification details the style and quality of concealable soft body armor vests intended for use by male or female members of this agency. The vests shall be worn comfortably while being concealed under a shirt. All vests shall provide protection against labeled projectile penetration while reducing resultant blunt trauma and vest distortion to acceptable levels. The successful vendor shall be required to supply the individual vests with applicable options and colors as ordered for male or female personnel.

- **The only acceptable model is the Point Blank Body Armor Model AII-2 for males and the Point Blank Body Armor Model AIIF for females meeting NIJ 0101.06 for Threat Level II. Bids based on body armor models made by manufacturers other than Point Blank Body Armor must be clearly identified as such, and bidders must include full product description, a complete bid sample, male and female, drawings and/or photographs, technical specifications.**
- **Where the apparent low bidder has proposed an alternate product, that bidder shall demonstrate product equivalency to the satisfaction of the department. Evidence of equivalency shall be presented for each requirement of this specification, and the burden of such equivalency is entirely on the vendor. Any bidder may be required, at any time during the procurement process, to provide documentation proving compliance with any or all the terms of this specification.**
- **Only body armor models, which have been tested by the National Institute of Justice (NIJ) National Law Enforcement & Corrections Technology Center (NLECTC), and found to comply with NIJ Standard 0101.06 Ballistic Resistance of Body Armor for Type II armor, shall be submitted under this specification. No exceptions.**
- **The winning bidder must provide delivery of the vest within 30 days of receipt of purchase order.**

The body armor is intended to be standard issue armor. It is intended for routine daily wear as an undergarment. The soft body armor shall be designed to provide the following criteria:

- Light and thin NIJ certified armor in Level II
- A high degree of concealment and comfort.
- Minimum restriction of motion or mobility.
- Optional carriers to allow for laundering and color changes.
- Provide resistance against the labeled projectiles in accordance with the NIJ Standard 0101.06.

- The ballistic panels of soft body armor meeting this specification shall provide thin, flexible, lightweight comfort utilizing high performance ballistic materials. The soft body armor shall be designed for regular daily wear as an undergarment. Therefore, vests shall be designed and constructed to provide (1) light and thin NIJ certified armor in Level II, (2) durability, (3) ease of cleaning, (4) minimum restriction of motion or mobility, and (5) the greatest amount of ballistic coverage consistent with comfort and concealment.
- The general configuration shall be the slipover vest type that covers the majority of the upper torso, including side coverage. Two removable/replaceable elastic Breathe-O-Prene® shoulder straps and four removable/replaceable elastic waist straps with hook and pile fasteners shall provide proper positioning and comfort. The entire vest perimeter shall be curved. No sharp corners or straight edges shall be allowed.
- The front ballistic panel shall cover the chest approximately up to the collar bone, have a scooped neck sufficient to maintain conceal ability when wearing an open collar shirt, extend downward to the waist but not far enough to "push up into the throat" when the wearer is seated, and extend around the sides to provide side protection. The biceps/chest region shall be cut with sufficient space to minimize irritation and restriction of arm movement during common duties such as the operation of motor vehicles. The outer shell carriers shall include front and rear 5" x 8" / 8" x 10" combination plate pockets designed to accommodate trauma, ballistic or blade inserts.
- The rear ballistic panel shall cover the back of the torso from just above the shoulder blades down to a position above the waist belt. In addition, unless otherwise stated, the maximum gap at each side shall be two inches.
- Female models shall be designed specifically for the female torso and shall have allowances for bust configuration.
- Panels shall be equipped with an integral self suspending ballistic system (SSBS). The SSBS must provide direct support to the ballistic panels to keep them sagging and creasing at the bottom of the carrier.

Each piece of soft body armor shall include the following:

1. One (1) set of ballistic panels.
2. Integral self suspending ballistic system (SSBS).
3. Removable 4 point 2" elastic waist straps (cummerbund)
4. Removable & Replaceable 2" elastic adjustable straps
5. Removable & Replaceable 4" elastic adjustable straps
6. Two (2) complete VISION™ SFT™ (Smart Fabric Technology) washable Carrier Systems with *ThorShield*™ EMD, TASER® device resistant technology, navy in color.
7. Front and Rear 5" x 8" / 8" x 10" Combo pockets.
8. One (1) Trauma Reduction insert.

Options:

1. Additional VISION™ SFT™ (Smart Fabric Technology™) Carrier System.
2. Additional VISION™ SFT™ (Smart Fabric Technology™) Carrier System with ThorShield technology.
3. Quilted outer carrier.
4. R20-D tactical outer carrier.
5. Additional removable & Replaceable Breathe-O-Prene® shoulder straps.

The successful vendor must be a recognized manufacturer/wholesaler/retailer, which can provide "LFUCG on-site" measurement, fitting and service during regular business hours, Monday through Friday. Subsequent alterations and fitting of both the ballistic armor and carriers to the officer shall be included free of charge for up to one year from the initial date of purchase. Any bidder which can not provide "on-site" service will be rejected.

All materials shall be new, unused and without flaws that affect appearance, durability and function. The ballistic panels shall be constructed of a matrix of Woven Para-Aramid fabric and Polyethylene UD. No other ballistic material shall be used.

As the department has selected these materials, any bids, which represent products manufactured from other materials, shall be rejected. Accordingly, all bidders shall include a letter from the manufacturer stating that the products being submitted for consideration are manufactured from 100% first quality Woven Para-Aramid fabric and Polyethylene UD.

All workmanship is to be of the highest quality. No defects that might impair the performance, "wearability" or durability of the vest will be allowed. The Lexington Fayette Urban County Division of Police shall have the sole right to determine if this and all other requirements have been met.

All vests, which are submitted, shall represent armor, which in layer count, is uniform throughout the ballistic panel. Accordingly, any ballistic panel, which is not uniform, in layer count, throughout the entire ballistic package, shall be rejected.

It is the intent of the agency to procure the lightest weight, best performing personal armor available in relation to Areal density, therefore, a vest section of 12" x 12" (one square foot), must not exceed 12.32 oz. (.77 lbs.) per square foot for NIJ level IIA. Sample weights are (+/- 5%).

V50 Performance

Each bidder shall submit V50 test reports for the vest being offered. The V50 test shall be performed in accordance with MIL-STD-662F using NIJ Standard 0101.06 test projectiles. The test must be performed by an independent laboratory approved by the National Institute of Justice (NIJ) National Law Enforcement & Corrections Technology Center (NLECTC) for testing in accordance with NIJ Standard 0101.06. The V 50 test shall be against clay backing. V 50 reports, which represent testing without clay backing, shall be rejected. Vendor shall provide written certification that all V 50 testing is accomplished with clay backing; failure to provide certification shall be cause for rejection. Test reports submitted by the bidder shall reflect the following minimum test results for a 12.32 oz. / .77 lbs per square foot test sample. Sample weights are (+/- 5%). Blunt trauma reduction is also an important aspect of armor design. Low back face signature (BFS) should result in reduced blunt trauma injury.

The following shall apply to male vests:

The following shall apply to female vests:

	<u>9mm</u>	<u>357 Mag</u>
V50 (fps) New Armor	1677	1625
V50 (fps) Condition Armor	1647	1583
V50 (m/s) New Armor	511	495
V50(m/s) Condition Armor	502	483
BFS (mm)	33	37
BFS (in)	1.3	1.4
	<u>9mm</u>	<u>357 Mag</u>
V50 (fps) New Armor	1647	1626
V50 (fps) Condition Armor	1623	1623
V50 (m/s) New Armor	502	496
V50(m/s) Condition Armor	495	495
BFS (mm)	33	34
BFS (in)	1.3	1.3

apply to female

Bid submissions which do not meet this requirement will be rejected.

This department recognizes the importance of protecting the ballistic panel from exposure to environmental elements. Therefore, the ballistic cover material must be sealed by a sonic welding

process to prevent moisture intrusion at the seams. Also, the department is aware that high degrees of "moisture Vapor Transmission" (WVT) through the ballistic panel cover may allow moisture to migrate into the fibrous structure of the ballistic panel thus causing a reduction in ballistic performance. **Therefore, potential bidders who offer ballistic panel covers that claim to "Breathe" or allow high levels of "Moisture Vapor Transmission" to pass through them will not be considered.** This department will only consider armor systems that incorporate a Ballistic Panel Barrier System. The Barrier System must exhibit a high degree of water repellency and resistance to MVT. The Barrier system will have a water repellent treatment on its exposed surface that resists moisture and staining. In addition, the Barrier System will incorporate a Nano-Technology, Anti-Microbial/Anti-Fungal treatment that inhibits the growth of mold and bacteria. The interior of the Barrier System will incorporate an all weather film laminate technology to further enhance resistance to moisture migration and MVT. This department will only accept offers from potential suppliers who can provide laboratory test reports indicating that the ballistic panel Barrier System being offered provides the following minimum protection on a per lot basis:

Characteristic	Requirement	Test Method
Determination of resistance to water penetration - Hydrostatic pressure test (mm)	> 10,000	ISO-811
Water Vapor Transmission (gms/sq mtr / 24 hrs)	< 550	ASTM E96 D (inverted)
Wet-flex after 24 hours	No delamination	BWW -24H
Resistance to water penetration after exposure to diesel fuel (psi)	>90 <u>1/</u>	ASTM D751
Resistance to water penetration after exposure to sea water (psi)	>100 <u>1/</u>	ASTM D751
Resistance to water penetration after exposure to alcohol (psi)	>100 <u>1/</u>	ASTM D751

*** Each fabric shall be completely submerged in particular fluid for a period of 24 hours and line-dried.*

VEST OUTER CARRIER MATERIAL

Removable Carrier- VISION SFT

Removable Carrier- VISION

The machine washable carrier shall be removable from the ballistic panels for laundering. The carrier systems body side fabric shall consist of smooth fit micro-fiber with Outlast® nano-technology micro-encapsulated phase change temperatures regulation and Anti-Microbial bacteria, mold and mildew deterrent To eliminate uncomfortable body side seams and bulges, there shall be no zippers or hook & loop closures against the body. The exterior of the outer-shell will utilize microfiber with a low-torso horizontal zipper for improved insertion and removal of the ballistic panel cover. Low profile loop will be used for strap attachment points to reduce bunching and pulling of the uniform shirt. The interior of the carrier at the shoulders shall have a strip of low profile hook to allow attachment to the internal suspension (straps) of the ballistic panel via tabs of hook. This enables the wearer to utilize separate external shoulder straps. In addition, the carrier shall be designed so that it can accommodate the Self Suspending Ballistic System (SSBS). **No substitutes will be accepted.** The outer shell carriers shall include front and rear 5" x 8" / 8" x 10" combination plate pockets designed to accommodate trauma, ballistic or blade inserts.

Carrier shall be manufactured from a dimensionally stable first quality material with less than 5% shrinkage. The outer side of the carrier shall be manufactured from first quality microfiber, and

have a Soil Resistant Finish (SRF) as well as a durable water-repellent (DWR) coating. All fabrics shall have no visible fabric or color flaws.

Label material shall withstand normal wear and cleaning and remain readable during the entire warranted life of the armor or carrier.

All soft body armor shall be labeled in strict adherence to the labeling requirement set forth in NIJ Standard 0101.06 Requirements. The ballistic panel labeling shall include, but not be limited to the following:

1. Name of Manufacturer
2. Level of Protection
3. NIJ 0101.06
4. Date of Manufacture
5. Date Issue
6. Size
7. Serial Number
8. Model of Vest
9. Manufacture Location
10. Care Instructions
11. Warranty Period

Each unit of soft body armor delivered shall have an individual serial number. Each soft body armor vest shall be traceable to its original ballistic material lot number and ballistic material mill roll number. Additionally the soft body armor serial number shall be traceable to an incoming material lot test and ballistic panel lay-up lot test.

All soft body armor shall be packaged and shipped consistent with good commercial practices. Shipping Cartons: The soft body armor shall be packed into suitable corrugated cardboard box. The box shall allow for normal shipping without damage to the soft body armor.

The following documents, certifications, test-reports and samples must be included with the vendor's bid. Where one manufacturer is bidding through multiple vendors, the manufacturer may submit the appropriate paperwork on behalf of all vendors. Failure to submit the following shall be cause for rejection:

1. Models made by manufacturers other than Point Blank Body Armor must be clearly identified and shall include the following:
 - a. Full product description.
 - b. Complete bid sample, male and female.
 - c. Drawings and/or photographs.
 - d. Technical specifications.
2. Manufacturers bidding direct must include a service proposal as to how measuring, alterations and customer service will be maintained without local distribution.
3. NIJ 0101.06.Certification and test reports from an accredited laboratory for the vest being certified.
4. V50 test reports performed in accordance with MIL-STD-662F. V50 testing must be accomplished with clay backing. V50 test reports must be submitted for the

ballistic package for both NIJ calibers for that class.

5. Quality Control Procedures
 - a. Incoming materials
 - b. Lay-up configuration
 - c. In-process configuration
 - d. Testing verification
 - e. Inspection of ballistic panel stitching
 - f. Random final product inspection and continuous in-process surveillance
 - g. Quality Assurance training and indoctrination
6. Product Liability Insurance providing a minimum coverage of \$10,000,000.
7. Documentation stating the coverage and limitations of the 5-year ballistic package warranty.
8. Documentation stating the coverage and limitations of the 24-month outer-shell cover warranty.

PRICING FOR POINT BLANK VEST:

Each vest set shall contain:

1. One (1) set of ballistic panels.
2. Integral self suspending ballistic system (SSBS).
3. Removable 4 point 2" elastic waist straps (cummerbund)
4. Removable & Replaceable 2" elastic adjustable straps
5. Removable & Replaceable 4" elastic adjustable straps
6. Two (2) complete VISION™ SFT™ (Smart Fabric Technology) washable Carrier Systems with ThorShield™ EMD, TASER® device resistant technology, navy in color.
7. Front and Rear 5" x 8" / 8" x 10" Combo pockets.
8. One (1) Trauma Reduction insert

Quantity of	Male	Female
0 – 15	\$ 708. ⁰⁰	\$ 708. ⁰⁰
16 – 25	\$ 708. ⁰⁰	\$ 708. ⁰⁰
26 – 50	\$ 708. ⁰⁰	\$ 708. ⁰⁰
51 – 100	\$ 708. ⁰⁰	\$ 708. ⁰⁰
101 +	\$ 708. ⁰⁰	\$ 708. ⁰⁰

ADDITIONAL PRICING FOR ACCESSORIES:

Accessory	Quantity of 0-15	Quantity of 16-25	Quantity of 26-50	Quantity of 51-100	Quantity of 100+
Additional VISION™ SFT™ (Smart Fabric Technology™) Carrier System.	\$ 98.50	\$ 98.50	\$ 98.50	\$ 98.50	\$ 98.50
Additional VISION™ SFT™ (Smart Fabric Technology™) Carrier System with ThorShield technology	\$ 116.00	\$ 116.00	\$ 116.00	\$ 116.00	\$ 116.00
Removable & Replaceable 6 point 2" elastic adjustable straps	\$ 12.75	\$ 12.75	\$ 12.75	\$ 12.75	\$ 12.75
Removable & Replaceable 4 point 4" elastic adjustable straps	\$ 12.75	\$ 12.75	\$ 12.75	\$ 12.75	\$ 12.75
Removable & Replaceable 4" Elastic Cummerbund	\$ 18.00	\$ 18.00	\$ 18.00	\$ 18.00	\$ 18.00
Quilted outer carrier	\$ 92.00	\$ 92.00	\$ 92.00	\$ 92.00	\$ 92.00
R20-D tactical outer carrier	\$ 91.25	\$ 91.25	\$ 91.25	\$ 91.25	\$ 91.25
Additional removable & Replaceable Breathe-O-Prene® shoulder straps	\$ 12.75	\$ 12.75	\$ 12.75	\$ 12.75	\$ 12.75

SPECIAL NOTES TO BIDDERS:

- Bidders shall indicate if accessories are included with vest or provide additional pricing above.
- Bid prices shall be applicable for all Division of Police officers. (This would require contract vendor to sell items to individual officers at the contract price.)
- For questions regarding these specifications, contact Lt. Mike Wright, Division of Police at 859-258-3653. For bidding questions, contact Theresa Maynard, Buyer Senior, Division of Central Purchasing at 859-258-3320 or at theresam@lexingtonky.gov.

* The pricing above is for those items to be purchased individually.

* The package price is inclusive of items 1-8 on the previous page.

-Adam Hall
Galls, LLC.



Warranty

THIS WARRANTY IS EXPRESSLY IN LIEU OF OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND OTHER WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OR TRADE. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, THAT EXTEND BEYOND THE WARRANTY PERIOD SET FORTH HEREIN.

The warranty herein shall be void if the product has been altered, abused, or misused, stored improperly or not cleaned in accordance with cleaning instructions.

The ballistic elements are warranted to be of the same construction and design as the original N.I.J. certified model listed on the label. The design of the bullet resistant elements of this system have been tested and certified by the National Institute of Justice and passed the compliance requirements of NIJ 2005 for the level stated on the ballistic label. These bullet resistant elements are **warranted for five years from date of purchase** to be free from manufacturing defects. Upon timely notice, Point Blank will repair or replace any vest / plate in which, after examination by Point Blank, Point Blank determines there is a manufacturing defect.

The ballistic elements of this system are bullet resistant, and will reduce the possibility of serious physical injury to the wearer in the areas covered by the ballistic elements. There is NO protection where there is no ballistic element. **When worn**, the ballistic element is warranted to be bullet resistant for the life of the warranty under normal wear conditions and proper maintenance. ***There should be no expectation of bullet resistance in areas not covered by the ballistic element.*** The ballistic element is not warranted to be bulletproof.

This warranty does not cover and is void as to:

- Any ballistic element that has been altered or modified in any way other than Point Blank authorized factory alterations.
- Any ballistic element not in a Point Blank outer shell carrier.
- Damage as a result of abuse or misuse.
- Damage as a result of improper storage or maintenance.
- Penetrations as a result of ballistic testing.
- The results of any specific ballistic testing.
- Injury as a result of bullets or other projectiles not impacting the ballistic element.

The outer shell carrier is warranted to be free from manufacturing defects for 24 months from the date of purchase.

The above warranty is the only warranty in effect on this product, **THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, THAT ARE IN EFFECT.**



LX SERIES BALLISTIC SYSTEMS LEVEL II MALE AII-2

Revision: 06/29/2012

Level II – **AII-2** weight is 0.73 (+/- 5%) pounds per square foot. Thickness is .19 inches.

Protection Level Specifications

Threat 1 - Low Caliber

Model / Test ID #	Cert Size (C1-C5)	New 9mm v50 (fps / mps)		Conditioned 9mm v50 (fps / mps)		New 9mm v50 (fps / mps)		Conditioned 9mm v50 (fps / mps)		Certification Date	BERRY (Yes / No)
All-2	C1	1677	511	1647	502	33	1.299	32	1.26	03/22/2012	Y
	C5					30	1.181	26	1.02		

Threat 2 – High Caliber

Model / Test ID #	Cert Size (C1-C5)	New 357 Sig v50 (fps / mps)		Conditioned 357Sig v50 (fps / mps)		New 357 Sig v50 (fps / mps)		Conditioned 357Sig v50 (fps / mps)		Certification Date	BERRY (Yes / No)
All-2	C1	1625	495	1583	483	37	1.46	36	1.42	03/22/2012	Y
	C5					34	1.34	33	1.3		

Ballistic Panel Materials

All materials shall be new, unused and without flaws that affect appearance, durability and function. The ballistic panels shall be constructed of a matrix of Woven Aramid fabric, polyethylene UD and Woven Felt fabric. No other ballistic material shall be used.

As the department has selected these materials, any bids, which represent products manufactured from other materials, shall be rejected. Accordingly, all bidders shall include a letter from the manufacturer stating that the products being submitted for consideration are manufactured from 100% first quality ballistic materials.

Ballistic Panel Cover Material

Each ballistic panel shall be covered in 100% weldable nylon 210D double wall rip stop with TPU coating.

Panel Construction

All submitted vests have uniform layer count throughout the entire ballistic panel; if not, the vest shall be rejected.



LX SERIES BALLISTIC SYSTEMS LEVEL II FEMALE AIIF-2

Revision: 06/29/2012

Level II – AIIF-2 weight is 0.73 (+/- 5%) pounds per square foot. Thickness is .19 inches.

Protection Level Specifications

Threat 1 - Low Caliber

Model / Test ID #	Cert Size (C1-C5)	New 357 Sig v50 (fps / mps)		Conditioned 357Sig v50 (fps / mps)		New 357Sig BFS (mm/fps)		Conditioned 357Sig BFS (mm / In)		Certification Date	BERRY (Yes / No)
AIIF-2	C1	1643	501	1603	489	33	1.299	30	1.18	03/19/2012	Y
	C5					30	1.81	26	1.02		

Threat 2 – High Caliber

Model / Test ID #	Cert Size (C1-C5)	44 mag v50 (fps / mps)		Conditioned 44 mag v50 (fps / mps)		New 44 mag BFS (mm/fps)		44 mag BFS (mm / In)		Certification Date	BERRY (Yes / No)
AIIF-2	C1	1583	483	1579	481	37	1.46	36	1.42	03/19/2012	Y
	C5					31	1.22	33	1.3		

Ballistic Panel Materials

All materials shall be new, unused and without flaws that affect appearance, durability and function. The ballistic panels shall be constructed of a matrix of Woven Aramid fabric, polyethylene UD and Woven Felt fabric. No other ballistic material shall be used.

As the department has selected these materials, any bids, which represent products manufactured from other materials, shall be rejected. Accordingly, all bidders shall include a letter from the manufacturer stating that the products being submitted for consideration are manufactured from 100% first quality ballistic materials.

Ballistic Panel Cover Material

Each ballistic panel shall be covered in 100% weldable nylon 210D double wall rip stop with TPU coating.

Panel Construction

All submitted vests have uniform layer count throughout the entire ballistic panel; if not, the vest shall be rejected.



U.S. Department of Justice

Office of Justice Programs

National Institute of Justice

Washington, D.C. 20530

March 22, 2012

Sam White
Executive Vice President
Point Blank Solutions Inc.
2102 SW 2nd Street
Pompano Beach, FL 33069

Notice of Compliance with NIJ Standard–0101.06
Body Armor Model Designation: AII-2
NIJ Compliance Status Expires: March 22, 2017

Dear Mr. White:

We have completed our evaluation of the body armor model identified above that was submitted to the National Institute of Justice's (NIJ's) Voluntary Body Armor Compliance Testing Program. We are pleased to inform you that the above body armor model satisfies the requirements of NIJ Standard–0101.06 and the Compliance Testing Program.

We also received your completed declaration concerning the model noted above and your agreement to participate in the conformity assessment follow-up process.

The body armor model details are listed on the NIJ Compliant Products List available at www.justnet.org/CTP.

You are now authorized to place the NIJ Statement of Compliance on the labels of this body armor model and all subsequent production units. The Statement of Compliance shall read:

“This model of armor has been determined to comply with NIJ Standard–0101.06 by the NIJ Compliance Testing Program and is listed on the NIJ Compliant Products List.”

All compliance requirements, as identified by the *NIJ Body Armor Compliance Testing Program Administrative Manual* and the *Ballistic Body Armor Applicant Package*, must be maintained as long as the NIJ Statement of Compliance is displayed on this armor model's labels. If, at any time, the compliance status of this armor model is changed, the NIJ Statement of Compliance shall cease to be used as of the date of the status change.

Sincerely,

Michael K. O'Shea
Law Enforcement Program Manager
US Department of Justice
OJP/NIJ/OST/Operational Technologies Division

This is Revision Number: 04

Revision Date: 8/2/2009

Document Status:

Official NIJ-Approved Test Laboratory Compliance Testing Report (CTR)

This CTR is to be used only with testing associated with NIJ Body Armor Compliance Testing Program (CTP) and should not be distributed to any unauthorized parties.

Do not modify this document. If problems or issues with this CTR are discovered please contact the CTP so they can be resolved.

GENERAL INSTRUCTIONS:

1. These worksheets are intended as a method of recording and documenting ballistic test results from tests performed to the requirements of NIJ Standard-0101.06 for body armor models that will be part of the NIJ body armor conformity testing program.
 2. In general, gray shaded cells are intended to be filled in by the test laboratory. All others cells are automatic calculatlions and should not be changed. Some shaded cells will fill in automatically; however, these cells may be manually filled in when necessary.
 3. Many of the worksheets have their own instructions at the top of the sheet.
 4. To fully utilize these spreadsheets, the R statistical package and the RExcel statistics connector will need to be installed on the computer where this spreadsheet is used. These packages are not necessary for running a test or inputting data, but the ballistic limit summary ("BL Summary" worksheet) will not be completely calculated unless these packages are properly installed. Detailed instructions for obtaining and installing these pacakges is provided in the worksheet "Stats Install Instructions".
 5. The laboratory may choose to modify the print header on the data and summary pages to include their name, logo, and applicable accreditation information.
 6. The worksheet "Laboratory and Armor" should be filled in with the details of the test configuration and armor model.
 7. The worksheet "Sample Information" should be filled in with the details of the individual armor samples that will be tested as part of the conformity test.
 8. The worksheet "Handloads" can be used to record handload development data for each of the P-BFS test rounds. This worksheet is optional.
 9. The worksheets "P-BFS..." are intended for recording the test results from each P-BFS sample. These worksheets are initially all identical. Many of the cells that fill in automically are filled in based on the name of the worksheet. When necessary, these sheets may be deleted and replaced by copying the worksheet "P-BFS Spare" and renaming the new copy. The name of each P-BFS sheet has the following form:
P-BFS <Condition> T<Threat Number> S<Sample Number>
Where:
 <Condition> is either "New" for as manufactured sampled or "Cond" for environmental conditioned samples.
 <Threat Number> is the test round number from Table 4 in NIJ-0101.06.
 <Sample Number> is the armor sample number as listed in the "Sample Information" worksheet. This number should always be listed as a two digit number, i.e. "02" instead of "2", in the worksheet name.
 10. The worksheets "BL..." are intended for recording the test results from each ballistic limit sample. These worksheets are initially all identical. Many of the cells that fill in automically are filled in based on the name of the worksheet. When necessary, these sheets may be deleted and replaced by copying the worksheet "BL Spare" and renaming the new copy. The name of each BL sheet has the following form:
BL <Condition> T<Threat Number> S<Sample Number>
Where:
 <Condition> is either "New" for as manufactured sampled or "Cond" for environmental conditioned samples.
 <Threat Number> is the test round number from Table 4 in NIJ-0101.06.
 <Sample Number> is the armor sample number as listed in the "Sample Information" worksheet. This number should always be listed as a two digit number, i.e. "02" instead of "2", in the worksheet name.
 11. The worksheets "P-BFS Summary" and "BL Summary" are automatically generated summaries of the respective test results. No input is required on this sheet, but these sheets will indicate whether the armor model meets the performance requirements of NIJ-0101.06.
-

INSTRUCTIONS FOR INSTALLING R AND THE REXCEL STATISTICS CONNECTOR:

Requirements:

The ballistic limit summary worksheet in this spreadsheet requires the "R" statistics package and the "Rexcel" statistics connector for calculating the logistic regression, the V50, and the V05 response.

To use this spreadsheets you will need to have the following software installed:

- Microsoft Excel (version 2002 or newer).
- The R statistical analysis package (version 2.2.1 or newer).
- The R(D)com server (version 2.01 or newer).
- The RExcel add-in for MS Excel (version 1.50 or newer).

The R statistical package, R(D)com server, and RExcel are all free software licensed under variants of the GNU General Public License (GPL). These packages should accompany this document, or they may be downloaded from the following locations:

R is available from <http://www.r-project.org/>

Specifically, the current version (2.8.1) can be downloaded from:

<http://cran.cnr.berkeley.edu/bin/windows/base/R-2.8.1-win32.exe>

<http://cran.cnr.berkeley.edu/bin/windows/base/README.R-2.8.1>

R(D)Com and Rexcel are available at:

<http://sunsite.univie.ac.at/rcom/download/current/>

Specifically, the current versions can be downloaded from:

http://sunsite.univie.ac.at/rcom/download/current/RSrv250_pl1.exe

or:

<http://sunsite.univie.ac.at/rcom/download/current/RSrv250S.zip>

(Note that RExcel is included in RSrv250_pl1.exe)

Additional information about R(D)Com and Rexcel is available from:

<http://sunsite.univie.ac.at/rcom/>

Installation:

1. Install Microsoft Excel, if it is not already installed on the computer.
2. Install R by running R-2.7.1-win32.exe (or a newer version). Accept the default installation options.
3. Install the R(D)Com server and RExcel by running RSrv250_pl1.exe (or a newer version). Again, accept the default installation options.

Test the installation by starting Excel and selecting "RExcel" on the main menu (If the RExcel add-in is properly installed, the RExcel menu item should appear between "Window" and "Help" on the Excel menu bar). Select "Demo Worksheets" and "Interactive Graphics". The demo spreadsheet should load and automatically generate a chart titled "A Test", which can be changed and regenerated by adjusting the sliders in the spreadsheet.

When R and RExcel are properly installed, this spreadsheet will automatically calculate the logistic response curve, V50, and V05 for a set of ballistic limit test data. In addition, the installed versions of R and Excel will appear on both the "Laboratory and Armor" and "BL Summary" worksheets.

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

COMPLIANCE TESTING INFORMATION

FACILITY DESCRIPTION:

Test Laboratory: H.P. WHITE LABORATORY Report Number: 11901-66
Test Start Date: 12/19/11 Report Date: 01/05/12
End Date: 12/31/11

TESTING CERTIFICATION:

Laboratory Representative: P. PAYNE L. CHES
Witnessed by: JOE BARKER Name
POINT BLANK SOLUTIONS, INC Representing
& witnessed by: N/A Name
N/A Representing

RANGE INFORMATION:

Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Velocity 2: 5.00 ft.

Velocity Measurement Units: TIME
Chronographs will report the time of flight.
Data should be entered in μs (10^{-6} s).

ARMOR DESCRIPTION:

Manufacturer: POINT BLANK SOLUTIONS, INC Test ID: PBS09-001916
Date Rec'd: 12/16/11 Style: N/A
*Ballistic Material: HYBRID Model Designation: AII-2

Armor Style: VEST
NIJ Armor Type: 2

*Ballistic Material Choices

<i>Aramid</i>	<i>PBO</i>	<i>Ceramic</i>	<i>Metal</i>
<i>Polyethylene</i>	<i>Hybrid</i>	<i>Composite</i>	<i>Other</i>

Shot-to-Edge Requirements:

Threat 1: 2 Inches
Threat 2: 3 Inches

Labels meet requirements of section 4.1.5.3: YES (Yes/No)

ARMOR CONSTRUCTION:

Front Closure (Y/N): N
Removable Carrier (Y/N): Y
Number of Layers: 15

Front Panel

Description of Stitching: LAYERS 1-3, PERIMETER STITCH.
LAYERS 1-15, TACK AT SHOULDERS.

Rear Panel

N
Y
15

Description of Stitching: LAYERS 1-3, PERIMETER STITCH.
LAYERS 1-15, TACK AT SHOULDERS.

Individual Layer Description:

LAYER 1, 8 PLY: PLYS 1-7, FLEX WOVEN ARAMID FIBER, (9x24); PLY 8, WHITE FELT.
LAYERS 2-7, FLEX POLYETHYLENE FILM, SB71.
LAYERS 8-15, FLEX POLYETHYLENE FILM, SA-4144.
RIP STOP TAB TACKED AT SHOULDERS BETWEEN LAYERS 7 AND 8.

LAYER 1, 8 PLY: PLYS 1-7, FLEX WOVEN ARAMID FIBER, (9x24); PLY 8, WHITE FELT.
LAYERS 2-7, FLEX POLYETHYLENE FILM, SB71.
LAYERS 8-15, FLEX POLYETHYLENE FILM, SA-4144.
RIP STOP TAB TACKED AT SHOULDERS BETWEEN LAYERS 7 AND 8.

REMARKS:

STRAPPING: 2 VERTICAL AND 3 HORIZONTAL.
PANELS SHOT ON A PLANAR CONFIGURATION.

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Sample Information and Description

Armors in "As-New" Condition

SAMPLE DESCRIPTION	Sample 1		Sample 2		Sample 3		Sample 4		Sample 5		Sample 6		Sample 7		Sample 8		Sample 9		Sample 10		
	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	
Size: C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	
Panel Serial Number: 048	022	053	024	006	012	011	052	028	054	023	001	010	003	007	056	026	038	030	030	030	
Plate Serial Number: N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Lot Number: 121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	
Gross Weight (lb.): 3.16	3.16	3.16	3.22	0.97	1.04	0.97	1.04	3.16	3.23	3.16	0.97	1.04	3.16	0.97	1.04	3.14	3.24	3.14	3.23	3.23	
TEST DESCRIPTION																					
Water Submersion:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Threat Ammunition:	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	
Bullet (grain/type):	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	
Reference Velocity (ft/s):	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	
Angle at Location #4:	30	45	30	30	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	
THREAT DESCRIPTION																					
Bullet Manufacturer:	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	
Bullet Lot/Product Number:	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	
Test Barrel Manufacturer:	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	
Test Barrel Length (in):	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	

SAMPLE DESCRIPTION	Sample 11		Sample 12		Sample 13		Sample 14		Sample 15		Sample 16		Sample 17		Sample 18		Sample 19		Sample 20		
	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	
Size: C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	
Panel Serial Number: 048	033	047	020	020	025	056	021	041	029	046	018	045	042	013	042	013	051	017	050	016	
Plate Serial Number: N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Lot Number: 121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	
Gross Weight (lb.): 3.15	3.16	3.16	3.23	3.16	3.22	3.15	3.24	3.16	3.15	3.22	3.15	3.24	3.16	3.23	3.18	3.23	3.16	3.22	3.16	3.22	
TEST DESCRIPTION																					
Water Submersion:	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
Threat Ammunition:	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	
Bullet (grain/type):	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	
Reference Velocity (ft/s):	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	
Shots on Panel:	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
THREAT DESCRIPTION																					
Bullet Manufacturer:	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	
Bullet Lot/Product Number:	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	
Test Barrel Manufacturer:	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	
Test Barrel Length (in):	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	

Environmental Conditioned Armors

SAMPLE DESCRIPTION	Sample 21		Sample 22		Sample 23		Sample 24		Sample 25		Sample 26		Sample 27		Sample 28	
	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back
Size: C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5	C5
Panel Serial Number: 036	034	005	009	043	015	004	009	038	032	035	027	040	031	044	014	014
Plate Serial Number: N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lot Number: 121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121
Gross Weight (lb.): 3.14	3.21	0.97	1.05	3.16	3.23	3.17	1.04	3.17	3.23	3.19	3.21	3.17	3.17	3.17	3.23	3.23
TEST DESCRIPTION																
Water Submersion:	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Threat Ammunition:	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm	9mm
Bullet (grain/type):	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ	124/FMJ
Reference Velocity (ft/s):	1245	1245	1245	1340	1340	1340	1340	1340	1245	1245	1340	1340	1340	1340	1340	1340
Angle at Loc #4/ Shots on Panel:	30	45	45	30	45	45	30	30	45	45	30	30	30	30	30	30
THREAT DESCRIPTION																
Bullet Manufacturer:	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON	REMINGTON
Bullet Lot/Product Number:	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558	23558
Test Barrel Manufacturer:	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.	H.P.W.L.I.
Test Barrel Length (in):	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

HANDLOAD VERIFICATION WORKSHEET

This form is not required and may be substituted with appropriate internal laboratory documentation.

Report Number: 11901-66
NIJ Armor Type: 2

Report Date: 01/05/12

Range Length: 17.20 ft.

Velocity 1: 5.00 ft.
Velocity 2: 5.00 ft.

New Armor - Test Round 1							New Armor - Test Round 2						
Ammunition: 9mm 124/FMJ Test Date: _____							Ammunition: .357 Mag 158/JSP Test Date: _____						
Temp: _____ F RH: _____ %							Temp: _____ F RH: _____ %						
Shot No.	Charge (grain)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Shot No.	Charge (grain)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)
1			0		0		1			0		0	
2			0		0		2			0		0	
3			0		0		3			0		0	
4			0		0		4			0		0	
5			0		0		5			0		0	
6			0		0		6			0		0	
7			0		0		7			0		0	
8			0		0		8			0		0	
9			0		0		9			0		0	
10			0		0		10			0		0	

Mean:

Mean:

Mean:

Mean:

New Armor - Test Round 1

NIJ Reference Velocity:	1305	ft/s
Handload (NIJ Reference ± 10 ft/s):	Invalid	ft/s
Range (NIJ Reference ± 30 ft/s):	1275 1335	ft/s

Velocity Summary:	Min	Max	ft/s
	0	0	

New Armor - Test Round 2

NIJ Reference Velocity:	1430	ft/s
Handload (NIJ Reference ± 10 ft/s):	Invalid	ft/s
Range (NIJ Reference ± 30 ft/s):	1400 1460	ft/s

Velocity Summary:	Min	Max	ft/s
	0	0	

Conditioned Armor - Test Round 1							Conditioned Armor - Test Round 2						
Ammunition: 9mm 124/FMJ Test Date: _____							Ammunition: .357 Mag 158/JSP Test Date: _____						
Temp: _____ F RH: _____ %							Temp: _____ F RH: _____ %						
Shot No.	Charge (grain)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Shot No.	Charge (grain)	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)
1			0		0		1			0		0	
2			0		0		2			0		0	
3			0		0		3			0		0	
4			0		0		4			0		0	
5			0		0		5			0		0	
6			0		0		6			0		0	
7			0		0		7			0		0	
8			0		0		8			0		0	
9			0		0		9			0		0	
10			0		0		10			0		0	

Mean:

Mean:

Mean:

Mean:

Conditioned Armor - Test Round 1

NIJ Reference Velocity:	1245	ft/s
Handload (NIJ Reference ± 10 ft/s):	Invalid	ft/s
Range (NIJ Reference ± 30 ft/s):	1215 1275	ft/s

Velocity Summary:	Min	Max	ft/s
	0	0	

Conditioned Armor - Test Round 2

NIJ Reference Velocity:	1340	ft/s
Handload (NIJ Reference ± 10 ft/s):	Invalid	ft/s
Range (NIJ Reference ± 30 ft/s):	1310 1370	ft/s

Velocity Summary:	Min	Max	ft/s
	0	0	

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Penetration and BFS Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1305 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

Sample 1
Front Panel
Plate Serial No: N/A

Panel Serial No: 049

PRE-TEST CLAY VALIDATION:

Block ID: R2B2
 Time of Day: 7:20 HH:mm
 Clay Temperature: 100.5 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	21	20	20	19	20	20.0
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

	Start	End		Start	End
Ambient Temp:	<u>68</u>	<u>69</u>	F	Armor Submersion	Firing Sequence
Rel. Humidity:	<u>35</u>	<u>35</u>	%	Start: <u>6:45</u> HH:mm	Start: <u>7:25</u> HH:mm
				End: <u>7:15</u> HH:mm	End: <u>7:33</u> HH:mm
				Duration: <u>30</u> min	Duration: <u>8</u> min

FRONT PANEL											
Shot No.	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3815	1311	3824	1308	1309	0°	Y	0		30	
2	3738	1338	3743	1336	1337	0°	Y	0		30	
3	3797	1317	3797	1317	1317	0°	Y	0		33	
4	3792	1319	3792	1319	1319	30°	Y	0			
5	3783	1322	3788	1320	1321	45°	Y	0			
6	3783	1322	3779	1323	1322	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Penetration and BFS Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1305 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

**Sample 1
Back Panel**

Panel Serial No: 022 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B2
 Time of Day: 7:38 HH:mm
 Clay Temperature: 99.8 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	20	19	19	19	19.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 69 69 F
 Rel. Humidity: 35 35 %

Armor Submersion
 Start: 7:05 HH:mm
 End: 7:35 HH:mm
 Duration: 30 min

Firing Sequence
 Start: 7:45 HH:mm
 End: 7:53 HH:mm
 Duration: 8 min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3860	1295	3855	1297	1296	0°	Y	0		29	
2	3824	1308	3828	1306	1307	0°	Y	0		32	
3	3846	1300	3846	1300	1300	0°	Y	0		36	
4	3819	1309	3819	1309	1309	45°	Y	0			
5	3824	1308	3828	1306	1307	30°	Y	0			
6	3844	1301	3845	1300	1301	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R2B2
 Time of Day: 7:56 HH:mm
 Clay Temperature: 98.9 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	19	18	17	18	18.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1305 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): D.ADAMS
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

**Sample 2
Front Panel**

Panel Serial No: 053 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B3
 Time of Day: 9:05 HH:mm
 Clay Temperature: 99.7 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	20	19	18	19	19.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 68 68 F
 Rel. Humidity: 33 33 %

Armor Submersion
 Start: 8:30 HH:mm
 End: 9:00 HH:mm
 Duration: 30 min

Firing Sequence
 Start: 9:10 HH:mm
 End: 9:20 HH:mm
 Duration: 10 min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3815	1311	3815	1311	1311	0°	Y	0		26	
2	3761	1329	3761	1329	1329	0°	Y	0		22	
3	3806	1314	3806	1314	1314	0°	Y	0		28	
4	3801	1315	3801	1315	1315	45°	Y	0			
5	3797	1317	3797	1317	1317	30°	Y	0			
6	3806	1314	3806	1314	1314	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1305 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): D.ADAMS
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

**Sample 2
Back Panel**

Panel Serial No: 024 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B3
 Time of Day: 9:25 HH:mm
 Clay Temperature: 99.1 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	19	18	18	18	18.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 68 68 F
 Rel. Humidity: 33 33 %

Armor Submersion
 Start: 8:50 HH:mm
 End: 9:20 HH:mm
 Duration: 30 min

Firing Sequence
 Start: 9:32 HH:mm
 End: 9:39 HH:mm
 Duration: 7 min

BACK PANEL											
Shot No.	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3828	1306	3833	1304	1305	0°	Y	0		28	
2	3842	1301	3851	1298	1300	0°	Y	0		29	
3	3801	1315	3806	1314	1315	0°	Y	0		32	
4	3842	1301	3846	1300	1301	30°	Y	0			
5	3752	1333	3752	1333	1333	45°	Y	0			
6	3819	1309	3824	1308	1308	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R2B3
 Time of Day: 9:42 HH:mm
 Clay Temperature: 98.4 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	18	17	18	17	17	17.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1305 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

**Sample 3
Front Panel**

Panel Serial No: 006 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B1
 Time of Day: 6:40 HH:mm
 Clay Temperature: 101.0 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
20	20	19	20	19	19.6	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Start End
 Ambient Temp: 68 68 F
 Rel. Humidity: 35 35 %

Armor Submersion

Start: 6:05 HH:mm
 End: 6:35 HH:mm
 Duration: 30 min

Firing Sequence

Start: 6:45 HH:mm
 End: 6:53 HH:mm
 Duration: 8 min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3797	1317	3801	1315	1316	0°	Y	0		32	
2	3828	1306	3833	1304	1305	0°	Y	0		31	
3	3783	1322	3783	1322	1322	0°	Y	0		34	
4	3747	1334	3747	1334	1334	30°	Y	0			
5	3761	1329	3761	1329	1329	45°	Y	0			
6	3869	1292	3873	1291	1292	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: -						

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1305 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

Sample 4

Panel Serial No: 011 Back Panel Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:
 Block ID: R9B2
 Time of Day: 3:52 HH:mm
 Clay Temperature: 100.1 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	21	21	20	20	20.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:
 Start End
 Ambient Temp: 62 62 F
 Rel. Humidity: 41 41 %

Armor Submersion
 Start: 3:17 HH:mm
 End: 3:47 HH:mm
 Duration: 30 min

Firing Sequence
 Start: 3:57 HH:mm
 End: 4:06 HH:mm
 Duration: 9 min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3870	1292	3865	1294	1293	0°	Y	0		35	
2	3827	1307	3823	1308	1307	0°	Y	0		31	
3	3827	1307	3829	1306	1306	0°	Y	0		31	
4	3868	1293	3864	1294	1293	30°	Y	0			
5	3788	1320	3789	1320	1320	45°	Y	0			
6	3887	1286	3882	1288	1287	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:
 Block ID: R9B2
 Time of Day: 4:10 HH:mm
 Clay Temperature: 99.6 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	19	18	18	20	18.8
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

- NOTES:
- a - Excessive velocity
 - b - Insufficient velocity
 - c - Too close to edge
 - d - Too close to prior impact
 - e - Excessive total impacts (test terminated)
 - f - Excessive area impacts (test terminated)
 - g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1305 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

Sample 4

Panel Serial No: 002 Front Panel Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R9B2
 Time of Day: 3:30 HH:mm
 Clay Temperature: 100.7 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	21	20	20	20	20.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 63 63 F
 Rel. Humidity: 41 41 %

Armor Submersion
 Start: 2:56 HH:mm
 End: 3:26 HH:mm
 Duration: 30 min

Firing Sequence
 Start: 3:36 HH:mm
 End: 3:49 HH:mm
 Duration: 13 min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3826	1307	3829	1306	1306	0°	Y	0		32	
2	3815	1311	3812	1312	1311	0°	Y	0		33	
3	3841	1302	3839	1302	1302	0°	Y	0		32	
4	3876	1290	3872	1291	1291	45°	Y	0			
5	3907	1280	3903	1281	1280	30°	Y	0			
6	3847	1300	3843	1301	1300	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: -

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1430 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

Sample 5
Front Panel

Panel Serial No: 052 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R9B1
 Time of Day: 9:12 HH:mm
 Clay Temperature: 101.4 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	19	19	19	19	19.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 64 64 F
 Rel. Humidity: 34 34 %

Armor Submersion
 Start: 8:36 HH:mm
 End: 9:06 HH:mm
 Duration: 30 min

Firing Sequence
 Start: 9:17 HH:mm
 End: 9:26 HH:mm
 Duration: 9 min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3540	1412	3538	1413	1413	0°	Y	0		33	
2	3505	1427	3502	1428	1427	0°	Y	0		34	
3	3498	1429	3495	1431	1430	0°	Y	0		34	
4	3467	1442	3464	1443	1443	30°	Y	0			
5	3445	1451	3442	1453	1452	45°	Y	0			
6	3542	1412	3539	1413	1412	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: -

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1430 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

**Sample 5
Back Panel**

Panel Serial No: 028 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R9B1
 Time of Day: 9:29 HH:mm
 Clay Temperature: 100.4 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	19	18	19	18	18.6
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 64 62 F
 Rel. Humidity: 34 34 %

Armor Submersion
 Start: 8:49 HH:mm
 End: 9:19 HH:mm
 Duration: 30 min

Firing Sequence
 Start: 9:34 HH:mm
 End: 9:43 HH:mm
 Duration: 9 min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3540	1412	3531	1416	1414	0°	Y	0		32	
2	3492	1432	3488	1433	1433	0°	Y	0		41	
3	3408	1467	3404	1469	1468	0°	Y	0		35	
4	3447	1451	3442	1453	1452	45°	Y	0			
5	3433	1456	3428	1459	1458	30°	Y	0			
6	3481	1436	3477	1438	1437	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R9B1
 Time of Day: 9:45 HH:mm
 Clay Temperature: 99.4 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	17	17	17	16	19	17.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1430 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

**Sample 6
Front Panel**

Panel Serial No: 054 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R9B2
 Time of Day: 10:02 HH:mm
 Clay Temperature: 101.5 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	19	19	19	20	19.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Ambient Temp: 62 62 F
 Rel. Humidity: 35 35 %
 Armor Submersion Start: 9:25 HH:mm End: 9:55 HH:mm Duration: 30 min
 Firing Sequence Start: 10:06 HH:mm End: 10:17 HH:mm Duration: 11 min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3530	1416	3525	1418	1417	0°	Y	0		33	
2	3545	1410	3541	1412	1411	0°	Y	0		31	
3	3485	1435	3482	1436	1435	0°	Y	0		33	
4	3470	1441	3466	1443	1442	45°	Y	0			
5	3446	1451	3442	1453	1452	30°	Y	0			
6	3456	1447	3452	1448	1448	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1305 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

**Sample 3
Back Panel**

Panel Serial No: 012 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B1
 Time of Day: 7:00 HH:mm
 Clay Temperature: 100.4 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	19	19	20	18	19.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Ambient Temp: 68 69 F
 Rel. Humidity: 35 35 %
 Armor Submersion Start: 6:25 HH:mm End: 6:55 HH:mm Duration: 30 min
 Firing Sequence Start: 7:05 HH:mm End: 7:12 HH:mm Duration: 7 min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3833	1304	3833	1304	1304	0°	Y	0		33	
2	3819	1309	3824	1308	1308	0°	Y	0		34	
3	3851	1298	3855	1297	1298	0°	Y	0		33	
4	3851	1298	3851	1298	1298	45°	Y	0			
5	3824	1308	3824	1308	1308	30°	Y	0			
6	3770	1326	3774	1325	1326	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R2B1
 Time of Day: 7:15 HH:mm
 Clay Temperature: 99.7 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	18	19	19	18	18.6
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

**NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT**

Perforation and BFS Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1430 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

Sample 6

Panel Serial No: 023 Back Panel Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R9B2
 Time of Day: 10:22 HH:mm
 Clay Temperature: 100.9 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	19	19	20	18	19.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 62 62 F
 Rel. Humidity: 34 34 %
 Armor Submersion Start: 9:42 HH:mm End: 10:12 HH:mm Duration: 30 min
 Firing Sequence Start: 10:25 HH:mm End: 10:35 HH:mm Duration: 10 min

BACK PANEL											
Shot No.	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3472	1440	3468	1442	1441	0°	Y	0		36	
2	3442	1453	3438	1454	1453	0°	Y	0		35	
3	3458	1446	3454	1448	1447	0°	Y	0		33	
4	3404	1469	3401	1470	1470	30°	Y	0			
5	3466	1443	3462	1444	1443	45°	Y	0			
6	3414	1465	3411	1466	1465	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R9B2
 Time of Day: 10:39 HH:mm
 Clay Temperature: 100.1 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	20	20	18	18	19.0
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Penetration and BFS Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1430 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

**Sample 7
Front Panel**

Panel Serial No: 001 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R9B3
 Time of Day: 10:50 HH:mm
 Clay Temperature: 98.9 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	17	17	17	19	20	18.0
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 63 63 F
 Rel. Humidity: 36 36 %

Armor Submersion
 Start: 10:11 HH:mm
 End: 10:41 HH:mm
 Duration: 30 min

Firing Sequence
 Start: 10:55 HH:mm
 End: 11:02 HH:mm
 Duration: 7 min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3507	1426	3503	1427	1427	0°	Y	0		39	
2	3453	1448	3449	1450	1449	0°	Y	0		38	
3	3463	1444	3459	1446	1445	0°	Y	0		40	
4	3559	1405	3555	1406	1406	30°	Y	0			
5	3459	1446	3454	1448	1447	45°	Y	0			
6		0		0		0°					
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Penetration and BFS Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1430 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

**Sample 7
Back Panel**

Panel Serial No: 010 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R9B3
 Time of Day: 11:05 HH:mm
 Clay Temperature: 98.5 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	18	17	18	18	20	18.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Ambient Temp: 62 62 F
 Rel. Humidity: 35 35 %
 Armor Submersion Start: 10:29 HH:mm End: 10:59 HH:mm Duration: 30 min
 Firing Sequence Start: 11:10 HH:mm End: 11:19 HH:mm Duration: 9 min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3457	1446	3453	1448	1447	0°	Y	0		35	
2	3462	1444	3458	1446	1445	0°	Y	0		33	
3	3457	1446	3453	1448	1447	0°	Y	0		33	
4	3438	1454	3433	1456	1455	45°	Y	0			
5	3444	1452	3440	1453	1453	30°	Y	0			
6		0		0		0°					
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R9B3
 Time of Day: 11:23 HH:mm
 Clay Temperature: 98.1 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	17	17	16	18	19	17.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

**NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT**

Perforation and BFS Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1430 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

**Sample 8
Front Panel**

Panel Serial No: 003 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:
 Block ID: R9B1
 Time of Day: 1:51 HH:mm
 Clay Temperature: 100.7 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	18	20	19	19	19	19.0
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

	Start	End		Start		Start	
Ambient Temp:	<u>63</u>	<u>63</u>	F	Armor Submersion		Firing Sequence	
				Start:	<u>1:19</u>	Start:	<u>1:59</u>
Rel. Humidity:	<u>41</u>	<u>41</u>	%	End:	<u>1:49</u>	End:	<u>2:06</u>
				Duration:	<u>30</u>	Duration:	<u>7</u>
				min		min	

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3540	1412	3536	1414	1413	0°	Y	0		37	
2	3478	1438	3474	1439	1438	0°	Y	0		41	
3	3472	1440	3467	1442	1441	0°	Y	0		38	
4	3426	1459	3423	1461	1460	45°	Y	0			
5	3438	1454	3434	1456	1455	30°	Y	0			
6		0		0		0°					
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:
 Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/19/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1430 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: Yes

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): J. CONTRERAS
 Laboratory Range #: 9 Velocity 2: 5.00 ft. M. GOMEZ

Sample 8

Panel Serial No: 007 Back Panel Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R9B1
 Time of Day: 2:09 HH:mm
 Clay Temperature: 99.4 F

Depth of	Drop Number					Avg.
	1	2	3	4	5	
Indent:	18	19	19	18	18	18.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

	Start	End		Start	End		Start	End	
Ambient Temp:	<u>63</u>	<u>63</u>	F	Armor Submersion	<u>1:34</u>	HH:mm	Firing Sequence	<u>2:14</u>	HH:mm
Rel. Humidity:	<u>39</u>	<u>39</u>	%	End:	<u>2:04</u>	HH:mm	End:	<u>2:22</u>	HH:mm
				Duration:	<u>30</u>	min	Duration:	<u>8</u>	min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3471	1441	3468	1442	1441	0°	Y	0		39	
2	3444	1452	3445	1451	1452	0°	Y	0		37	
3	3455	1447	3459	1446	1446	0°	Y	0		37	
4	3472	1440	3467	1442	1441	30°	Y	0			
5	3417	1463	3412	1465	1464	45°	Y	0			
6		0		0		0°					
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R9B1
 Time of Day: 2:31 HH:mm
 Clay Temperature: 99.1 F

Depth of	Drop Number					Avg.
	1	2	3	4	5	
Indent:	18	18	18	19	18	18.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

NOTES:

- | | | |
|---------------------------|---|--------------------|
| a - Excessive velocity | d - Too close to prior impact | g - Impact on seam |
| b - Insufficient velocity | e - Excessive total impacts (test terminated) | |
| c - Too close to edge | f - Excessive area impacts (test terminated) | |

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/26/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): TRAUTMAN / CHES

Sample 11
Front Panel

Panel Serial No: 048 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 7:48 HH:mm
Temperature: 101.8 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	20	20	20	19	20	19.8
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 64 F
Rel. Humidity: 40 %

Firing Sequence

Start: 8:00 HH:mm
End: 8:13 HH:mm
Duration: 13 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3788	1320	3792	1319	1319		X	Y	
2		3342	1496	3347	1494	1495		X	Y	
3		3131	1597	3135	1595	1596		X	Y	
4		2928	1708	2937	1702	1705	X		Y	
5		3194	1565	3198	1563	1564		X	Y	
6		3036	1647	3041	1644	1646		X	Y	
7		2928	1708	2928	1708	1708		X	Y	
8		2834	1764	2834	1764	1764	X		Y	
9		2910	1718	2915	1715	1717		X	Y	
10		2825	1770	2829	1767	1769	X		Y	
11		2987	1674	2991	1672	1673		X	Y	
12		2883	1734	2883	1734	1734		X	Y	
13			0		0					
14			0		0					
15			0		0					
Count:						12	3	9	12	

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

**NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT**

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/26/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): TRAUTMAN / CHES

**Sample 11
Back Panel**

Panel Serial No: 033 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 8:32 HH:mm
Temperature: 100.3 F

Depth of indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	20	18	19	19	20	19.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 70 F
Rel. Humidity: 32 %

Firing Sequence

Start: 8:38 HH:mm
End: 8:51 HH:mm
Duration: 13 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3761	1329	3765	1328	1329		X	Y	
2		3383	1478	3392	1474	1476		X	Y	
3		3162	1581	3167	1579	1580		X	Y	
4		3005	1664	3005	1664	1664		X	Y	
5		2838	1762	2838	1762	1762	X		Y	
6		2721	1838	2721	1838	1838	X		Y	
7		3149	1588	3149	1588	1588		X	Y	
8		2982	1677	2982	1677	1677		X	Y	
9		2915	1715	2924	1710	1713		X	Y	
10		2856	1751	2861	1748	1749	X		Y	
11		2897	1726	2901	1724	1725	X		Y	
12		3027	1652	3032	1649	1650	X		Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/26/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): TRAUTMAN / CHES

Sample 12
Front Panel

Panel Serial No: 047 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER1
Time of Day: 9:10 HH:mm
Temperature: 101.1 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21	21	20	21	21	20.8
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 68 F
Ref. Humidity: 32 %

Firing Sequence

Start: 9:14 HH:mm
End: 9:28 HH:mm
Duration: 14 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3725	1342	3725	1342	1342		X	Y	
2		3441	1453	3441	1453	1453		X	Y	
3		3176	1574	3176	1574	1574		X	Y	
4		3072	1628	3077	1625	1626		X	Y	
5		2901	1724	2906	1721	1722	X		Y	
6		3036	1647	3036	1647	1647	X		Y	
7		3225	1550	3230	1548	1549		X	Y	
8		3131	1597	3135	1595	1596		X	Y	
9		3005	1664	3005	1664	1664	X		Y	
10		3158	1583	3158	1583	1583		X	Y	
11		3032	1649	3036	1647	1648		X	Y	
12		2928	1708	2928	1708	1708	X		Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 4 8 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/26/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): TRAUTMAN / CHES

Sample 12
Back Panel

Panel Serial No: 020 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER1
Time of Day: 9:43 HH:mm
Temperature: 99.3 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	19	20	18	20	17	18.8
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 67 F
Rel. Humidity: 32 %

Firing Sequence

Start: 9:47 HH:mm
End: 10:00 HH:mm
Duration: 13 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3761	1329	3761	1329	1329		X	Y	
2		3450	1449	3450	1449	1449		X	Y	
3		3248	1539	3248	1539	1539		X	Y	
4		3059	1635	3063	1632	1633	X		Y	
5		3239	1544	3234	1546	1545		X	Y	
6		3122	1602	3131	1597	1599		X	Y	
7		3023	1654	3018	1657	1655		X	Y	
8		2973	1682	2973	1682	1682		X	Y	
9		2843	1759	2847	1756	1757	X		Y	
10		2933	1705	2937	1702	1704	X		Y	
11		3090	1618	3090	1618	1618		X	Y	
12		2951	1694	2951	1694	1694		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 3 9 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/26/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): TRAUTMAN / CHES / PAYNE

Sample 13
Front Panel

Panel Serial No: 037 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER2
Time of Day: 10:16 HH:mm
Temperature: 101.1 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21	21	20	20	20	20.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 32 %

Firing Sequence

Start: 10:21 HH:mm
End: 10:34 HH:mm
Duration: 13 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3765	1328	3774	1325	1326		X	Y	
2		3392	1474	3396	1472	1473		X	Y	
3		3167	1579	3176	1574	1577		X	Y	
4		3059	1635	3063	1632	1633		X	Y	
5		2883	1734	2888	1731	1733	X		Y	
6		3009	1662	3009	1662	1662	X		Y	
7		3113	1606	3113	1606	1606		X	Y	
8		3086	1620	3086	1620	1620		X	Y	
9		2964	1687	2969	1684	1685	X		Y	
10		3122	1602	3122	1602	1602		X	Y	
11		2991	1672	3000	1667	1669		X	Y	
12		2915	1715	2919	1713	1714		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 3 9 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/26/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ

Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): TRAUTMAN / CHES / PAYNE

Sample 13
Back Panel

Panel Serial No: 025 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER2
Time of Day: 10:51 HH:mm
Temperature: 98.8 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	20	18	17	18	19	18.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 32 %

Firing Sequence
Start: 10:59 HH:mm
End: 11:14 HH:mm
Duration: 15 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3639	1374	3644	1372	1373		X	Y	
2		3405	1468	3410	1466	1467		X	Y	
3		3216	1555	3216	1555	1555		X	Y	
4		3050	1639	3054	1637	1638	X		Y	
5		3221	1552	3221	1552	1552		X	Y	
6		3131	1597	3131	1597	1597		X	Y	
7		2946	1697	2951	1694	1696	X		Y	
8		3099	1613	3108	1609	1611		X	Y	
9		2978	1679	2982	1677	1678	X		Y	
10		3077	1625	3072	1628	1626	X		Y	
11		3297	1517	3302	1514	1515		X	Y	
12		3158	1583	3158	1583	1583		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 4 8 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/27/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): GOMEZ/TRAUTMAN

Sample 14
Front Panel

Panel Serial No: 056 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 9:10 HH:mm
Temperature: 99.8 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	22	20	21	21	20	20.0
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 65 F
Rel. Humidity: 35 %

Firing Sequence

Start: 9:15 HH:mm
End: 9:30 HH:mm
Duration: 15 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front											
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks	
							Perf (CP)	Stop (PP)			
1		3740	1337	3740	1337	1337		X	Y		
2		3356	1490	3356	1490	1490		X	Y		
3		3144	1590	3149	1588	1589		X	Y		
4		2969	1684	2969	1684	1684	X		Y		
5		3234	1546	3234	1546	1546		X	Y		
6		3126	1599	3135	1595	1597		X	Y		
7		3009	1662	3009	1662	1662	X		Y		
8		3153	1586	3153	1586	1586		X	Y		
9		3122	1602	3126	1599	1601		X	Y		
10		3000	1667	3005	1664	1665		X	Y		
11		2933	1705	2933	1705	1705		X	Y		
12		2838	1762	2843	1759	1760		X	Y		
13			0		0						
14			0		0						
15			0		0						

Count: 12 2 10 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/27/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): GOMEZ/TRAUTMAN

**Sample 14
Back Panel**

Panel Serial No: 021 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 9:45 HH:mm
Temperature: 99.5 F

	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Depth of Indent:	20	20	20	20	19	19.8
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 65 F
Rel. Humidity: 35 %

Firing Sequence

Start: 9:55 HH:mm
End: 10:10 HH:mm
Duration: 15 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3837	1303	3837	1303	1303		X	Y	
2		3491	1432	3491	1432	1432		X	Y	
3		3234	1546	3239	1544	1545		X	Y	
4		3135	1595	3135	1595	1595		X	Y	
5		2897	1726	2892	1729	1727	X		Y	
6		3014	1659	3014	1659	1659	X		Y	
7		3180	1572	3180	1572	1572		X	Y	
8		3045	1642	3050	1639	1641		X	Y	
9		2955	1692	2960	1689	1691	X		Y	
10		3027	1652	3032	1649	1650	X		Y	
11		3189	1568	3194	1565	1567		X	Y	
12		3117	1604	3117	1604	1604		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 4 8 12

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/27/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): GOMEZ/TRAUTMAN

Sample 15
Front Panel

Panel Serial No: 041 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER1
Time of Day: 10:20 HH:mm
Temperature: 99.8 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	18	19	20	21	18	19.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 67 F
Rel. Humidity: 33 %

Firing Sequence

Start: 10:25 HH:mm
End: 10:41 HH:mm
Duration: 16 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front											
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks	
							Perf (CP)	Stop (PP)			
1		3824	1308	3828	1306	1307		X	Y		
2		3401	1470	3401	1470	1470		X	Y		
3		3171	1577	3176	1574	1576		X	Y		
4		2987	1674	2991	1672	1673	X		Y		
5		3126	1599	3126	1599	1599		X	Y		
6		3045	1642	3045	1642	1642		X	Y		
7		2942	1700	2942	1700	1700		X	Y		
8		2861	1748	2865	1745	1746	X		Y		
9		2919	1713	2919	1713	1713	X		Y		
10		2960	1689	2964	1687	1688	X		Y		
11		3126	1599	3131	1597	1598	X		Y		
12		3027	1652	3027	1652	1652		X	Y		
13			0		0						
14			0		0						
15			0		0						

Count: 12 5 7 12

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/27/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
 Laboratory Range #: 2 Velocity 2: 5.00 ft.
 Lab Technician(s): GOMEZ/TRAUTMAN

Sample 15
Back Panel

Panel Serial No: 029 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER1
 Time of Day: 10:53 HH:mm
 Temperature: 99.2 F

	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Depth of Indent:	20	20	20	20	18	19.6
Requirements: All drops: 19 ± 3 mm , Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 67 F
 Rel. Humidity: 34 %

Firing Sequence
 Start: 10:56 HH:mm
 End: 11:10 HH:mm
 Duration: 14 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3779	1323	3783	1322	1322		X	Y	
2		3455	1447	3459	1446	1446		X	Y	
3		3185	1570	3189	1568	1569		X	Y	
4		3000	1667	3005	1664	1665	X		Y	
5		3176	1574	3176	1574	1574		X	Y	
6		3113	1606	3113	1606	1606		X	Y	
7		3014	1659	3014	1659	1659		X	Y	
8		2906	1721	2910	1718	1719	X		Y	
9		2951	1694	2955	1692	1693	X		Y	
10		3054	1637	3059	1635	1636	X		Y	
11		3239	1544	3243	1542	1543		X	Y	
12		3140	1592	3140	1592	1592		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 4 8 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): ADAMS/TRAUTMAN

Sample 16
Front Panel

Panel Serial No: 046 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 10:20 HH:mm
Temperature: 101.2 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21	21	21	20	20	20.6
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 69 F
Rel. Humidity: 32 %

Firing Sequence

Start: 10:25 HH:mm
End: 10:40 HH:mm
Duration: 15 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3473	1440	3482	1436	1438		X	Y	
2		3302	1514	3311	1510	1512		X	Y	
3		3144	1590	3135	1595	1593		X	Y	
4		3059	1635	3068	1630	1632	X		Y	
5		3135	1595	3144	1590	1593		X	Y	
6		3099	1613	3108	1609	1611		X	Y	
7		3027	1652	3036	1647	1649	X		Y	
8		3131	1597	3140	1592	1595		X	Y	
9		3027	1652	3036	1647	1649	X		Y	
10		3077	1625	3086	1620	1623	X		Y	
11		3167	1579	3180	1572	1576		X	Y	
12		3086	1620	3090	1618	1619	X		Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): ADAMS/TRAUTMAN

Sample 16
Back Panel

Panel Serial No: 018 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 10:51 HH:mm
Temperature: 99.7 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	20	20	20	21	20	20.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 32 %

Firing Sequence

Start: 10:55 HH:mm
End: 11:10 HH:mm
Duration: 15 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3549	1409	3545	1410	1410		X	Y	
2		3306	1512	3297	1517	1514		X	Y	
3		3135	1595	3126	1599	1597	X		Y	
4		3392	1474	3387	1476	1475		X	Y	
5		3203	1561	3216	1555	1558		X	Y	
6		3135	1595	3140	1592	1594		X	Y	
7		3077	1625	3086	1620	1623		X	Y	
8		2960	1689	2964	1687	1688	X		Y	
9		3045	1642	3054	1637	1640	X		Y	
10		3086	1620	3095	1616	1618	X		Y	
11		3222	1552	3222	1552	1552		X	Y	
12		3131	1597	3140	1592	1595	X		Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): ADAMS/TRAUTMAN

Sample 17
Front Panel

Panel Serial No: 045 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER5
Time of Day: 1:16 HH:mm
Temperature: 101.4 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	20	20	19	20	19	19.6
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 32 %

Firing Sequence

Start: 1:21 HH:mm
End: 1:35 HH:mm
Duration: 14 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3513	1423	3513	1423	1423		X	Y	
2		3333	1500	3347	1494	1497		X	Y	
3		3131	1597	3135	1595	1596		X	Y	
4		3059	1635	3068	1630	1632	X		Y	
5		3216	1555	3225	1550	1553		X	Y	
6		3095	1616	3099	1613	1614		X	Y	
7		3068	1630	3077	1625	1627	X		Y	
8		3095	1616	3099	1613	1614	X		Y	
9		3243	1542	3261	1533	1538		X	Y	
10		3203	1561	3216	1555	1558	X		Y	
11		3243	1542	3252	1538	1540		X	Y	
12		3149	1588	3158	1583	1586		X	Y	
13			0		0					
14			0		0					
15			0		0					
Count:						12	4	8	12	

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): ADAMS/TRAUTMAN

Sample 17
Back Panel

Panel Serial No: 019 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER5
Time of Day: 1:43 HH:mm
Temperature: 100.0 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21	20	20	19	19	19.8
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 32 %

Firing Sequence

Start: 1:47 HH:mm
End: 2:00 HH:mm
Duration: 13 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3530	1416	3530	1416	1416		X	Y	
2		3329	1502	3320	1506	1504		X	Y	
3		3113	1606	3113	1606	1606	X		Y	
4		3329	1502	3336	1498	1500		X	Y	
5		3212	1557	3216	1555	1556		X	Y	
6		3099	1613	3108	1609	1611		X	Y	
7		3023	1654	3023	1654	1654	X		Y	
8		3158	1583	3167	1579	1581	X		Y	
9		3284	1523	3293	1518	1520	X		Y	
10		3423	1461	3423	1461	1461		X	Y	
11		3360	1488	3369	1484	1486		X	Y	
12		3248	1539	3257	1535	1537		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 4 8 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): ADAMS/TRAUTMAN

Sample 18
Front Panel

Panel Serial No: 042 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER6
Time of Day: 2:12 HH:mm
Temperature: 100.6 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21	21	20	20	20	20.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 33 %

Firing Sequence

Start: 2:15 HH:mm
End: 2:30 HH:mm
Duration: 15 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3522	1420	3540	1412	1416		X	Y	
2		3279	1525	3288	1521	1523		X	Y	
3		3081	1623	3090	1618	1620	X		Y	
4		3248	1539	3257	1535	1537		X	Y	
5		3194	1565	3198	1563	1564		X	Y	
6		3180	1572	3194	1565	1569		X	Y	
7		3090	1618	3099	1613	1616		X	Y	
8		3032	1649	3036	1647	1648	X		Y	
9		3113	1606	3122	1602	1604		X	Y	
10		3023	1654	3027	1652	1653	X		Y	
11		3068	1630	3077	1625	1627	X		Y	
12		3122	1602	3126	1599	1601		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 4 8 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): ADAMS/TRAUTMAN

Sample 18
Back Panel

Panel Serial No: 013 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2ER6
Time of Day: 2:40 HH:mm
Temperature: 99.3 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	19	19	18	18	17	18.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 32 %

Firing Sequence

Start: 2:45 HH:mm
End: 3:02 HH:mm
Duration: 17 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3473	1440	3482	1436	1438		X	Y	
2		3252	1538	3261	1533	1535		X	Y	
3		3131	1597	3126	1599	1598	X		Y	
4		3261	1533	3270	1529	1531		X	Y	
5		3149	1588	3153	1586	1587		X	Y	
6		3050	1639	3059	1635	1637		X	Y	
7		3059	1635	3063	1632	1633		X	Y	
8		2942	1700	2946	1697	1698	X		Y	
9		3072	1628	3081	1623	1625	X		Y	
10		3122	1602	3126	1599	1601	X		Y	
11		3144	1590	3153	1586	1588		X	Y	
12		3117	1604	3122	1602	1603	X		Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916
NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): R.TRAUTMAN/M.SHEAHY

Sample 19
Front Panel

Panel Serial No: 051 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 4:30 HH:mm
Temperature: 100.4 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	20	20	19	19	21	19.8
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 70 F
Rel. Humidity: 50 %

Firing Sequence

Start: 4:35 HH:mm
End: 4:57 HH:mm
Duration: 22 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3473	1440	3482	1436	1438		X	Y	
2		3149	1588	3158	1583	1586		X	Y	
3		3090	1618	3099	1613	1616		X	Y	
4		2861	1748	2861	1748	1748		X	Y	
5		2730	1831	2735	1828	1830	X		Y	
6		2807	1781	2816	1776	1778	X		Y	
7		2955	1692	2964	1687	1689	X		Y	
8		3086	1620	3090	1618	1619		X	Y	
9		2951	1694	2960	1689	1692		X	Y	
10		2834	1764	2838	1762	1763	X		Y	
11		2942	1700	2955	1692	1696		X	Y	
12		2834	1764	2838	1762	1763	X		Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/21/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
 Laboratory Range #: 2 Velocity 2: 5.00 ft.
 Lab Technician(s): R.TRAUTMAN/M.SHEAHY

Sample 19
Back Panel

Panel Serial No: 017 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
 Time of Day: 5:10 HH:mm
 Temperature: 100.2 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	19	20	20	19	19	19.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 71 F
 Rel. Humidity: 50 %

Firing Sequence
 Start: 5:15 HH:mm
 End: 5:36 HH:mm
 Duration: 21 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3410	1466	3414	1465	1465		X	Y	
2		3185	1570	3185	1570	1570	X		Y	
3		3365	1486	3369	1484	1485		X	Y	
4		3153	1586	3162	1581	1584		X	Y	
5		3104	1611	3113	1606	1608		X	Y	
6		2982	1677	2991	1672	1674		X	Y	
7		2901	1724	2906	1721	1722	X		Y	
8		2955	1692	2960	1689	1691		X	Y	
9		2816	1776	2820	1773	1774		X	Y	
10		2681	1865	2685	1862	1864	X		Y	
11		2807	1781	2811	1779	1780	X		Y	
12		2870	1742	2874	1740	1741	X		Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/22/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP

Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): ADAMS/TRAUTMAN

Sample 20
Front Panel

Panel Serial No: 050 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 8:45 HH:mm
Temperature: 99.9 F

	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Depth of Indent:	22	20	20	19	20	20.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 32 %

Firing Sequence

Start: 8:50 HH:mm
End: 9:04 HH:mm
Duration: 14 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3478	1438	3478	1438	1438		X	Y	
2		3338	1498	3347	1494	1496		X	Y	
3		3113	1606	3117	1604	1605		X	Y	
4		3031	1650	3031	1650	1650		X	Y	
5		2856	1751	2865	1745	1748	X		Y	
6		3059	1635	3068	1630	1632	X		Y	
7		3210	1558	3219	1553	1555		X	Y	
8		3140	1592	3149	1588	1590		X	Y	
9		3002	1666	3008	1662	1664	X		Y	
10		3095	1616	3104	1611	1613	X		Y	
11		3122	1602	3131	1597	1599	X		Y	
12		3230	1548	3239	1544	1546		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/22/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): ADAMS/TRAUTMAN

**Sample 20
Back Panel**

Panel Serial No: 016 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 9:16 HH:mm
Temperature: 99.0 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21	19	18	19	19	19.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 33 %

Firing Sequence

Start: 9:20 HH:mm
End: 9:34 HH:mm
Duration: 14 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3522	1420	3536	1414	1417		X	Y	
2		3315	1508	3329	1502	1505		X	Y	
3		3099	1613	3104	1611	1612	X		Y	
4		3243	1542	3252	1538	1540		X	Y	
5		3171	1577	3180	1572	1575	X		Y	
6		3203	1561	3212	1557	1559	X		Y	
7		3360	1488	3369	1484	1486		X	Y	
8		3261	1533	3270	1529	1531		X	Y	
9		3189	1568	3203	1561	1564		X	Y	
10		3072	1628	3063	1632	1630	X		Y	
11		3216	1555	3230	1548	1551	X		Y	
12		3266	1531	3275	1527	1529		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - Conditioned Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1245 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

Sample 21

Front Panel

Panel Serial No: 036 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B1
 Time of Day: 7:10 HH:mm
 Clay Temperature: 99.9 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	20	20	19	20	19.8
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 68 68 F
 Rel. Humidity: 36 33 %

Armor Submersion
 Start: _____ HH:mm
 End: _____ HH:mm
 Duration: _____ min

Firing Sequence
 Start: 7:15 HH:mm
 End: 7:22 HH:mm
 Duration: 7 min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	4103	1219	4107	1217	1218	0°	Y	0		31	
2	4058	1232	4062	1231	1232	0°	Y	0		33	
3	4034	1239	4034	1239	1239	0°	Y	0		30	
4	3972	1259	3977	1257	1258	30°	Y	0			
5	3920	1276	3927	1273	1274	45°	Y	0			
6	3950	1266	3950	1266	1266	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: _____
 Time of Day: _____ HH:mm
 Clay Temperature: _____ F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: -

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - Conditioned Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1245 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

Sample 21

Back Panel

Panel Serial No: 034 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B1
 Time of Day: 7:28 HH:mm
 Clay Temperature: 99.1 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	19	19	18	20	19.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 68 69 F
 Rel. Humidity: 33 33 %
 Armor Submersion Start: _____ HH:mm End: _____ HH:mm Duration: _____ min
 Firing Sequence Start: 7:32 HH:mm End: 7:40 HH:mm Duration: 8 min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3999	1250	3999	1250	1250	0°	Y	0		31	
2	4022	1243	4022	1243	1243	0°	Y	0		33	
3	3981	1256	3977	1257	1257	0°	Y	0		32	
4	4035	1239	4040	1238	1238	45°	Y	0			
5	3968	1260	3968	1260	1260	30°	Y	0			
6	3954	1265	3959	1263	1264	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R2B1
 Time of Day: 7:42 HH:mm
 Clay Temperature: 98.1 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	19	18	17	18	18.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - Conditioned Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1245 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

Sample 22

Panel Serial No: 005 **Front Panel** Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B2
 Time of Day: 7:48 HH:mm
 Clay Temperature: 100.2 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	21	20	21	20	19	20.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 69 68 F
 Rel. Humidity: 33 33 %

Armor Submersion

Start: _____ HH:mm
 End: _____ HH:mm
 Duration: _____ min

Firing Sequence

Start: 7:53 HH:mm
 End: 8:00 HH:mm
 Duration: 7 min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	4008	1248	4013	1246	1247	0°	Y	0		30	
2	3986	1254	3990	1253	1254	0°	Y	0		33	
3	4049	1235	4049	1235	1235	0°	Y	0		31	
4	4013	1246	4013	1246	1246	45°	Y	0			
5	4049	1235	4053	1234	1234	30°	Y	0			
6	3999	1250	3999	1250	1250	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: _____
 Time of Day: _____ HH:mm
 Clay Temperature: _____ F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass:						-

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - Conditioned Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916 Reference Velocity: 1245 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

Sample 22

Panel Serial No: 008 Back Panel
 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B2
 Time of Day: 8:05 HH:mm
 Clay Temperature: 99.6 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	20	19	19	19	19.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 68 68 F
 Rel. Humidity: 33 33 %
 Armor Submersion Start: HH:mm End: HH:mm Duration: min
 Firing Sequence Start: 8:10 HH:mm End: 8:17 HH:mm Duration: 7 min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3941	1269	3945	1267	1268	0°	Y	0		32	
2	3986	1254	3986	1254	1254	0°	Y	0		33	
3	4044	1236	4044	1236	1236	0°	Y	0		34	
4	4040	1238	4040	1238	1238	30°	Y	0			
5	4049	1235	4049	1235	1235	45°	Y	0			
6	4076	1227	4071	1228	1227	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R2B2
 Time of Day: 8:20 HH:mm
 Clay Temperature: 98.4 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	19	18	17	17	18.0
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - Conditioned Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1340 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

Sample 23

Panel Serial No: 043 Front Panel Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B3
 Time of Day: 8:30 HH:mm
 Clay Temperature: 99.4 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	19	20	20	19	19.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: Yes

TEST CONDITIONS:

Ambient Temp: 67 67 F Start End
 Rel. Humidity: 34 34 %
 Armor Submersion Start: HH:mm End: HH:mm Duration: min
 Firing Sequence Start: 8:35 HH:mm End: 8:41 HH:mm Duration: 6 min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3734	1339	3734	1339	1339	0°	Y	0		31	
2	3684	1357	3684	1357	1357	0°	Y	0		32	
3	3725	1342	3729	1341	1342	0°	Y	0		37	
4	3680	1359	3680	1359	1359	30°	Y	0			
5	3693	1354	3698	1352	1353	45°	Y	0			
6	3684	1357	3684	1357	1357	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						Pass: -

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - Conditioned Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1340 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P.PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R.TRAUTMAN

Sample 23

Back Panel

Panel Serial No: 015 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B3
 Time of Day: 8:55 HH:mm
 Clay Temperature: 99.2 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	20	20	19	19	19.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

	Armor Submersion	Firing Sequence
Start: <u>67</u> End: <u>67</u> F	Start: _____ HH:mm	Start: <u>9:00</u> HH:mm
Rel. Humidity: <u>34</u> %	End: _____ HH:mm	End: <u>9:05</u> HH:mm
	Duration: _____ min	Duration: <u>5</u> min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3725	1342	3729	1341	1342	0°	Y	0		30	
2	3675	1361	3680	1359	1360	0°	Y	0		33	
3	3684	1357	3689	1355	1356	0°	Y	0		36	
4	3702	1351	3711	1347	1349	45°	Y	0			
5	3702	1351	3702	1351	1351	30°	Y	0			
6	3707	1349	3707	1349	1349	0°	Y	0			
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R2B3
 Time of Day: 9:07 HH:mm
 Clay Temperature: 98.7 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	19	20	19	20	19.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

NOTES:

- | | | |
|---------------------------|---|--------------------|
| a - Excessive velocity | d - Too close to prior impact | g - Impact on seam |
| b - Insufficient velocity | e - Excessive total impacts (test terminated) | |
| c - Too close to edge | f - Excessive area impacts (test terminated) | |

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - Conditioned Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1340 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P. PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R. TRAUTMAN

Sample 24

Panel Serial No: 004 **Front Panel** Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B1
 Time of Day: 9:10 HH:mm
 Clay Temperature: 99.7 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	20	20	18	19	19	19.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

	Start End	Armor Submersion	Firing Sequence
Ambient Temp: <u>69</u> <u>69</u> F		Start: <u> </u> HH:mm	Start: <u>9:15</u> HH:mm
Rel. Humidity: <u>33</u> <u>34</u> %		End: <u> </u> HH:mm	End: <u>9:20</u> HH:mm
		Duration: <u> </u> min	Duration: <u>5</u> min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3720	1344	3720	1344	1344	0°	Y	0		37	
2	3765	1328	3761	1329	1329	0°	Y	0		34	
3	3666	1364	3671	1362	1363	0°	Y	0		36	
4	3671	1362	3675	1361	1361	45°	Y	0			
5	3729	1341	3734	1339	1340	30°	Y	0			
6		0		0		0°					
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: -						

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Perforation and BFS Firing Data - Conditioned Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
 Test ID: PBS09-001916 Reference Velocity: 1340 ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s): P. PAYNE
 Laboratory Range #: 2 Velocity 2: 5.00 ft. R. TRAUTMAN

Sample 24

Back Panel

Panel Serial No: 009 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B1
 Time of Day: 9:25 HH:mm
 Clay Temperature: 99.6 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	19	20	20	19	19	19.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

TEST CONDITIONS:

Start End
 Ambient Temp: 69 68 F
 Rel. Humidity: 34 33 %

Armor Submersion

Start: _____ HH:mm
 End: _____ HH:mm
 Duration: _____ min

Firing Sequence

Start: 9:30 HH:mm
 End: 9:35 HH:mm
 Duration: 5 min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1	3756	1331	3761	1329	1330	0°	Y	0		37	
2	3743	1336	3738	1338	1337	0°	Y	0		37	
3	3788	1320	3788	1320	1320	0°	Y	0		36	
4	3675	1361	3675	1361	1361	30°	Y	0			
5	3729	1341	3729	1341	1341	45°	Y	0			
6		0		0		0°					
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID: R2B1
 Time of Day: 9:42 HH:mm
 Clay Temperature: 98.7 F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
	17	19	18	19	19	18.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
						Pass: Yes

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - Conditioned Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): P.PAYNE/R.TRAUTMAN

Sample 25
Front Panel

Panel Serial No: 039 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B5
Time of Day: 11:52 HH:mm
Temperature: 101.0 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	21	21	20	21	20	20.6
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 70 F
Rel. Humidity: 34 %

Firing Sequence

Start: 11:58 HH:mm
End: 12:11 HH:mm
Duration: 13 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		4022	1243	4022	1243	1243		X	Y	
2		3653	1369	3653	1369	1369		X	Y	
3		3392	1474	3392	1474	1474		X	Y	
4		3149	1588	3153	1586	1587		X	Y	
5		2982	1677	2982	1677	1677	X		Y	
6		3090	1618	3090	1618	1618		X	Y	
7		3005	1664	3005	1664	1664	X		Y	
8		3095	1616	3099	1613	1614		X	Y	
9		2987	1674	2987	1674	1674	X		Y	
10		3100	1613	3104	1611	1612		X	Y	
11		3032	1649	3032	1649	1649		X	Y	
12		2960	1689	2960	1689	1689		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 3 9 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - Conditioned Armor - Threat 1

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: 9mm 124/FMJ
 Test ID: PBS09-001916
 NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
 Laboratory Range #: 2 Velocity 2: 5.00 ft.
 Lab Technician(s): P.PAYNE/R.TRAUTMAN

**Sample 25
Back Panel**

Panel Serial No: 032 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B5
 Time of Day: 12:25 HH:mm
 Temperature: 100.1 F

	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Depth of Indent:	21	20	20	20	20	20.2
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 70 F
 Rel. Humidity: 35 %

Firing Sequence
 Start: 12:31 HH:mm
 End: 12:44 HH:mm
 Duration: 13 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		4017	1245	4017	1245	1245		X	Y	
2		3666	1364	3666	1364	1364		X	Y	
3		3441	1453	3441	1453	1453		X	Y	
4		3279	1525	3284	1523	1524		X	Y	
5		3041	1644	3041	1644	1644	X		Y	
6		3162	1581	3162	1581	1581		X	Y	
7		3068	1630	3077	1625	1627		X	Y	
8		3018	1657	3023	1654	1655	X		Y	
9		3099	1613	3099	1613	1613		X	Y	
10		2955	1692	2960	1689	1691	X		Y	
11		3086	1620	3090	1618	1619	X		Y	
12		3131	1597	3135	1595	1596		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 4 8 12

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - Conditioned Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): P.PAYNE/R.TRAUTMAN

Sample 26
Front Panel

Panel Serial No: 035 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 10:20 HH:mm
Temperature: 101.0 F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
	20	21	20	19	20	20.0
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 68 F
Rel. Humidity: 35 %

Firing Sequence
Start: 10:24 HH:mm
End: 10:38 HH:mm
Duration: 14 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3747	1334	3752	1333	1334		X	Y	
2		3459	1446	3464	1443	1444		X	Y	
3		3230	1548	3234	1546	1547		X	Y	
4		3195	1565	3195	1565	1565		X	Y	
5		3000	1667	2996	1669	1668	X		Y	
6		3126	1599	3131	1597	1598		X	Y	
7		3036	1647	3036	1647	1647		X	Y	
8		2942	1700	2951	1694	1697	X		Y	
9		3054	1637	3054	1637	1637	X		Y	
10		3149	1588	3149	1588	1588	X		Y	
11		3212	1557	3216	1555	1556	X		Y	
12		3302	1514	3297	1517	1515		X	Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Firing Data - Conditioned Armor - Threat 2

Report Number: 11901-66 Report Date: 01/05/12 Test Date: 12/31/11

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: .357 Mag 158/JSP
Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: No

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: 2 Velocity 2: 5.00 ft.
Lab Technician(s): P.PAYNE/R.TRAUTMAN

**Sample 26
Back Panel**

Panel Serial No: 027 Plate Serial No: N/A

PRE-TEST CLAY VALIDATION:

Block ID: R2B4
Time of Day: 10:52 HH:mm
Temperature: 100.2 F

	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Depth of Indent:	20	20	20	18	19	19.4
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: Yes						

TEST CONDITIONS:

Ambient Temp: 70 F
Rel. Humidity: 33 %

Firing Sequence
Start: 11:00 HH:mm
End: 11:22 HH:mm
Duration: 22 min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (us)	Vel. 1 (ft/s)	Time 2 (us)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1		3761	1329	3761	1329	1329		X	Y	
2		3419	1462	3423	1461	1462		X	Y	
3		3225	1550	3225	1550	1550		X	Y	
4		3189	1568	3194	1565	1567		X	Y	
5		2987	1674	2991	1672	1673	X		Y	
6		3135	1595	3135	1595	1595	X		Y	
7		3167	1579	3167	1579	1579	X		Y	
8		3333	1500	3333	1500	1500		X	Y	
9		3171	1577	3180	1572	1575	X		Y	
10		3261	1533	3266	1531	1532		X	Y	
11		3194	1565	3194	1565	1565		X	Y	
12		3176	1574	3176	1574	1574	X		Y	
13			0		0					
14			0		0					
15			0		0					

Count: 12 5 7 12

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Summary Data

Report Number: 11901-66 Test ID: PBS09-001916 Report Date: 01/05/12
 Manufacturer: POINT BLANK SOLUTIONS, INC Model Designation: All-2 NIJ Armor Type: 2

Threat 1 - New Armor
 Ammunition: 9mm 124/FMJ Reference Velocity: 1305 ± 30 ft/s Water Submersion: Yes
 Shot-to-Edge: 2 inches

Shot Number	Sample 1 Size: C5				Sample 2 Size: C5										
	Front Panel		Back Panel		Front Panel		Back Panel								
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note			
1	1309.1	0	30.0		1296.2	0	29.0		1310.6	0	26.0		1305.3	0	28.0
2	1336.7	0	30.0		1306.8	0	32.0		1329.4	0	22.0		1299.9	0	29.0
3	1316.8	0	33.0		1300.1	0	36.0		1313.7	0	28.0		1314.6	0	32.0
4	1318.6	0			1309.2	0			1315.4	0			1300.7	0	
5	1320.8	0			1306.8	0			1316.8	0			1332.6	0	
6	1322.4	0			1300.6	0			1313.7	0			1308.4	0	
7															
8															
Summary:		Perforations: 0 (Pass)				BFS Statistics: Count: 12				Average: 29.6 mm					
		Maximum BFS: 36.0 mm				k1: 1.568				St. Dev.: 3.58 mm					
(Pass - No BFS greater than 44 mm)															

Shot Number	Sample 3 Size: C1				Sample 4 Size: C1											
	Front Panel		Back Panel		Front Panel		Back Panel									
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note
1	1316.1	0	32.0		1304.5	0	33.0		1306.3	0	32.0		1292.8	0	35.0	
2	1305.3	0	31.0		1306.4	0	34.0		1311.1	0	33.0		1307.2	0	31.0	
3	1321.7	0	34.0		1297.7	0	33.0		1302.1	0	32.0		1306.2	0	31.0	
4	1334.4	0			1298.4	0			1290.7	0			1293.3	0		
5	1329.4	0			1307.5	0			1280.4	0			1319.8	0		
6	1291.7	0			1325.6	0			1300.4	0			1287.2	0		
7																
8																
Summary:		Perforations: 0 (Pass)				BFS Statistics: Count: 12				Average: 32.6 mm						
		Maximum BFS: 35.0 mm				k1: 1.568				St. Dev.: 1.31 mm						
(Pass - No BFS greater than 44 mm)																

Threat 2 - New Armor
 Ammunition: .357 Mag 158/JSP Reference Velocity: 1430 ± 30 ft/s Water Submersion: Yes
 Shot-to-Edge: 3 inches

Shot Number	Sample 5 Size: C5				Sample 6 Size: C5											
	Front Panel		Back Panel		Front Panel		Back Panel									
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note
1	1412.8	0	33.0		1414.2	0	32.0		1417.4	0	33.0		1440.9	0	36.0	
2	1427.1	0	34.0		1432.7	0	41.0		1411.2	0	31.0		1453.5	0	35.0	
3	1430.0	0	34.0		1468.0	0	35.0		1435.3	0	33.0		1446.8	0	33.0	
4	1442.8	0			1451.6	0			1441.8	0			1469.5	0		
5	1452.0	0			1457.5	0			1451.8	0			1443.4	0		
6	1412.2	0			1437.2	0			1447.6	0			1465.2	0		
7																
8																
Summary:		Perforations: 0 (Pass)				BFS Statistics: Count: 12				Average: 34.2 mm						
		Maximum BFS: 41.0 mm				k1: 1.568				St. Dev.: 2.55 mm						
(Pass - No BFS greater than 44 mm)																

Shot Number	Sample 7 Size: C1				Sample 8 Size: C1											
	Front Panel		Back Panel		Front Panel		Back Panel									
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note
1	1426.5	0	39.0		1447.2	0	35.0		1413.2	0	37.0		1441.1	0	39.0	
2	1448.9	0	38.0		1445.1	0	33.0		1438.4	0	41.0		1451.6	0	37.0	
3	1444.7	0	40.0		1447.2	0	33.0		1441.1	0	38.0		1446.3	0	37.0	
4	1405.7	0			1455.4	0			1460.1	0			1441.1	0		
5	1446.6	0			1452.6	0			1455.2	0			1464.3	0		
6																
7																
8																
Summary:		Perforations: 0 (Pass)				BFS Statistics: Count: 12				Average: 37.3 mm						
		Maximum BFS: 41.0 mm				k1: 1.568				St. Dev.: 2.53 mm						
(Pass - No BFS greater than 44 mm)																

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Perforation and BFS Summary Data

Report Number: 11901-66 Test ID: PBS09-001916 Report Date: 01/05/12
 Manufacturer: POINT BLANK SOLUTIONS, INC Model Designation: All-2 NIJ Armor Type: 2

Threat 1 - Conditioned Armor
 Ammunition: 9mm 124/FMJ Test Velocity: 1245 ± 30 ft/s Water Submersion: No
 Shot-to-Edge: 2 inches

Shot Number	Sample 21 Size: C5				Sample 22 Size: C1				
	Front Panel		Back Panel		Front Panel		Back Panel		
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	
1	1218.0	0	31.0		1250.3	0	31.0		
2	1231.5	0	30.0		1243.2	0	33.0		
3	1239.5	0	30.0		1256.6	0	32.0		
4	1258.0	0			1238.4	0			
5	1274.4	0			1260.1	0			
6	1265.8	0			1263.7	0			
7									
8									
Summary:					Summary:				
Perforations: 0 (Pass)					Perforations: 0 (Pass)				
Maximum BFS: 33.0 mm (no requirement)					Maximum BFS: 34.0 mm (no requirement)				

Threat 2 - Conditioned Armor
 Ammunition: .357 Mag 158/JSP Test Velocity: 1340 ± 30 ft/s Water Submersion: No
 Shot-to-Edge: 3 inches

Shot Number	Sample 23 Size: C5				Sample 24 Size: C1				
	Front Panel		Back Panel		Front Panel		Back Panel		
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	BFS (mm)	Note	
1	1339.0	0	31.0		1341.6	0	35.0		
2	1357.2	0	32.0		1359.6	0	33.0		
3	1341.6	0	37.0		1356.3	0	36.0		
4	1358.7	0			1349.0	0			
5	1353.0	0			1350.6	0			
6	1357.2	0			1348.8	0			
7									
8									
Summary:					Summary:				
Perforations: 0 (Pass)					Perforations: 0 (Pass)				
Maximum BFS: 37.0 mm (no requirement)					Maximum BFS: 37.0 mm (no requirement)				

Overall P-BFS Summary	
Perforations: This requirement is for all P-BFS tested samples - New and Conditioned	
0 This armor model meets the perforation performance requirements of NIJ Standard-0101.06 Section 7.8.8.	
Backface Signature: This requirement is for New armors only	
Maximum BFS: 41.0 mm	
This armor model meets the BFS performance requirements of NIJ Standard-0101.06 Section 7.8.8 Item a.	

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

Ballistic Limit Summary Data

Report Number: 11901-66 Test ID: PBS09-001916 Report Date: 01/05/12
 Manufacturer: POINT BLANK SOLUTIONS, INC Model Designation: All-2 NIJ Armor Type: 2

Threat 1 - New Armor

Ammunition: 9mm 124/FMJ Reference Velocity: 1305 ± 30 ft/s Water Submersion: No

Shot Number	Sample 11			Sample 11			Sample 12			Sample 12			Sample 13		
	Front Panel	Avg. Vel.	Perf	Back Panel	Avg. Vel.	Perf	Front Panel	Avg. Vel.	Perf	Back Panel	Avg. Vel.	Perf	Front Panel	Avg. Vel.	Perf
	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note
1	1319.3	0		1328.7	0		1342.3	0		1329.4	0		1326.4	0	
2	1495.0	0		1476.0	0		1453.1	0		1449.3	0		1473.2	0	
3	1595.9	0		1580.0	0		1574.3	0		1539.4	0		1576.5	0	
4	1705.0	1		1663.9	0		1626.3	0		1633.5	1		1633.5	0	
5	1564.5	0		1761.8	1		1722.1	1		1544.9	0		1732.8	1	
6	1645.5	0		1837.6	1		1646.9	1		1599.2	0		1661.7	1	
7	1707.65	0		1587.81	0		1549.19	0		1655.36	0		1606.17	0	
8	1764.29	1		1676.73	0		1595.92	0		1681.8	0		1620.22	0	
9	1716.74	0		1712.63	0		1663.89	1		1757.47	1		1685.49	1	
10	1768.66	1		1749.17	1		1583.28	0		1703.58	1		1601.54	0	
11	1672.8	0		1724.73	1		1647.99	0		1618.12	0		1669.17	0	
12	1734.3	0		1650.44	1		1707.65	1		1694.34	0		1714.09	0	
13															
14															
15															

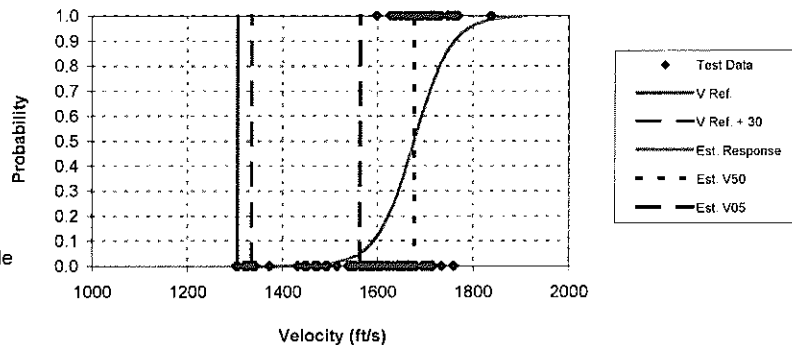
Shot Number	Sample 13			Sample 14			Sample 14			Sample 15			Sample 15		
	Back Panel	Avg. Vel.	Perf	Front Panel	Avg. Vel.	Perf	Back Panel	Avg. Vel.	Perf	Front Panel	Avg. Vel.	Perf	Back Panel	Avg. Vel.	Perf
	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note
1	1373.1	0		1336.9	0		1303.1	0		1306.8	0		1322.4	0	
2	1467.4	0		1489.9	0		1432.3	0		1470.2	0		1446.3	0	
3	1554.7	0		1589.1	0		1544.9	0		1575.5	0		1568.9	0	
4	1638.3	1		1684.1	1		1594.9	0		1672.8	1		1665.3	1	
5	1552.3	0		1546.1	0		1727.4	1		1599.5	0		1574.3	0	
6	1596.9	0		1597.2	0		1668.9	1		1642.0	0		1606.2	0	
7	1695.78	1		1661.68	1		1572.33	0		1699.52	0		1658.93	0	
8	1611.09	0		1585.79	0		1640.69	0		1746.42	1		1719.4	1	
9	1677.85	1		1600.51	0		1690.62	1		1712.92	1		1693.19	1	
10	1626.28	1		1665.28	0		1650.44	1		1688.05	1		1635.86	1	
11	1515.38	0		1704.74	0		1566.66	0		1598.21	1		1542.73	0	
12	1583.28	0		1760.25	0		1604.11	0		1651.8	0		1592.36	0	
13															
14															
15															

Summary: Total Usable Shots: 120 Acceptable Perforations below 1335 ft/s: 0 Acceptable
 Perforations (Complete Penetrations): 37 Acceptable
 Stops (Partial Penetrations): 83 Good

Test Data and Regression Model

Regression Analysis
 Regression Model: Logistic
 Model Parameters: β_0 : -43.5
 β_1 : 0.026
 Estimated V50: 1677 ft/s
 Estimated V05: 1563 ft/s

Probability of perforation at NIJ reference velocity (1305 ft/sec): 0.0% Acceptable



**NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT**

Ballistic Limit Summary Data

Report Number: 11901-66 Test ID: PBS09-001916 Report Date: 01/05/12
 Manufacturer: POINT BLANK SOLUTIONS, INC Model Designation: All-2 NIJ Armor Type: 2

Threat 2 - New Armor
 Ammunition: .357 Mag 158/JSP Reference Velocity: 1430 ± 30 ft/s Water Submersion: No

Shot Number	Sample 16			Sample 16			Sample 17			Sample 17			Sample 18		
	Front	Panel		Back	Panel		Front	Panel		Back	Panel		Front	Panel	
	Avg. Vel.	Perf	Note	Avg. Vel.	Perf	Note	Avg. Vel.	Perf	Note	Avg. Vel.	Perf	Note	Avg. Vel.	Perf	Note
	(ft/sec)	(Y=1/N=0)		(ft/sec)	(Y=1/N=0)		(ft/sec)	(Y=1/N=0)		(ft/sec)	(Y=1/N=0)		(ft/sec)	(Y=1/N=0)	
1	1437.8	0		1409.6	0		1423.3	0		1416.4	0		1416.0	0	
2	1512.2	0		1514.5	0		1497.0	0		1504.0	0		1522.8	0	
3	1592.6	0		1597.2	1		1595.9	0		1606.2	1		1620.5	1	
4	1632.1	1		1475.1	0		1632.1	1		1499.9	0		1537.3	0	
5	1592.6	0		1557.9	0		1552.6	0		1555.7	0		1564.5	0	
6	1611.1	0		1593.6	0		1614.5	0		1611.1	0		1568.9	0	
7	1649.35	1		1622.59	0		1627.34	1		1653.99	1		1615.77	0	
8	1594.65	0		1688.05	1		1614.47	1		1581.03	1		1647.99	1	
9	1649.35	1		1639.62	1		1537.53	0		1520.45	1		1603.85	0	
10	1622.59	1		1617.86	1		1557.88	1		1460.71	0		1652.89	1	
11	1575.55	0		1551.83	0		1539.65	0		1486.11	0		1627.34	1	
12	1619.17	1		1594.65	1		1585.54	0		1537.28	0		1600.51	0	
13															
14															
15															

Shot Number	Sample 18			Sample 19			Sample 19			Sample 20			Sample 20		
	Back	Panel		Front	Panel		Back	Panel		Front	Panel		Back	Panel	
	Avg. Vel.	Perf	Note	Avg. Vel.	Perf	Note	Avg. Vel.	Perf	Note	Avg. Vel.	Perf	Note	Avg. Vel.	Perf	Note
	(ft/sec)	(Y=1/N=0)		(ft/sec)	(Y=1/N=0)		(ft/sec)	(Y=1/N=0)		(ft/sec)	(Y=1/N=0)		(ft/sec)	(Y=1/N=0)	
1	1437.8	0		1437.8	0		1465.4	0		1437.6	0		1416.8	0	
2	1535.4	0		1585.5	0		1569.9	1		1495.9	0		1505.1	0	
3	1598.2	1		1615.8	0		1485.0	0		1605.1	0		1612.1	1	
4	1531.2	0		1747.6	0		1583.5	0		1649.6	0		1539.6	0	
5	1586.8	0		1829.6	1		1608.5	0		1748.0	1		1574.6	1	
6	1636.9	0		1778.4	1		1674.2	0		1632.1	1		1558.8	1	
7	1633.45	0		1689.48	1		1722.06	1		1555.45	0		1486.11	0	
8	1698.37	1		1619.17	0		1690.62	0		1590.08	0		1531.16	0	
9	1625.23	1		1691.77	0		1774.31	0		1663.9	1		1564.46	0	
10	1600.51	1		1763.05	1		1863.59	1		1613.17	1		1630	1	
11	1588.06	0		1695.79	0		1779.99	1		1599.24	1		1551.36	1	
12	1602.82	1		1763.05	1		1740.95	1		1545.84	0		1528.82	0	
13															
14															
15															

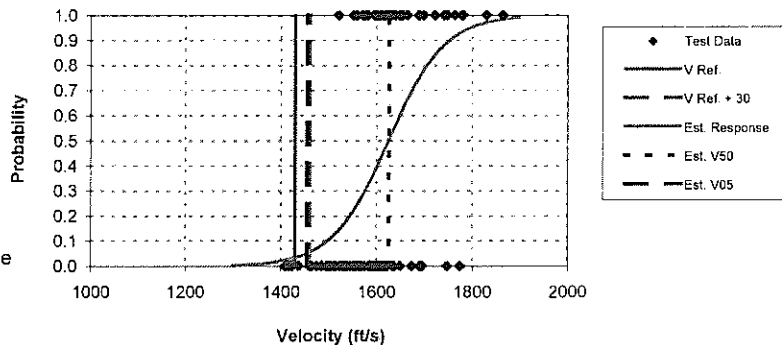
Summary: Total Usable Shots: 120 Good Perforations below 1460 ft/s: 0 Acceptable
 Perforations (Complete Penetrations): 47 Acceptable
 Stops (Partial Penetrations): 73 Acceptable

Test Data and Regression Model

Regression Analysis
 Regression Model: **Logistic**
 Model Parameters: β_0 : -28.0
 β_1 : 0.017

 Estimated V50: **1625 ft/s**
 Estimated V05: **1454 ft/s**

Probability of perforation at NIJ reference velocity (1305 ft/sec): **3.3% Acceptable**



**NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT**

Ballistic Limit Summary Data

Report Number: 11901-66 Test ID: PBS09-001916 Report Date: 01/05/12
 Manufacturer: POINT BLANK SOLUTIONS, INC Model Designation: All-2 NIJ Armor Type: 2

Threat 1 - Conditioned Armor

Ammunition: 9mm 124/FMJ
 Test Velocity: 1245 ± 30 ft/s Wet: No

Threat 2 - Conditioned Armor

Ammunition: .357 Mag 156/JSP
 Test Velocity: 1340 ± 30 ft/s Wet: No

Shot Number	Sample 25				Sample 25			
	Front Panel		Back Panel		Front Panel		Back Panel	
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)
1	1243.2	0		1244.7	0		1243.2	0
2	1368.7	0		1363.9	0		1368.7	0
3	1474.1	0		1453.1	0		1474.1	0
4	1586.8	0		1523.7	0		1586.8	0
5	1676.7	1		1644.2	1		1676.7	1
6	1618.1	0		1581.3	0		1618.1	0
7	1663.89	1		1627.34	0		1663.89	1
8	1614.47	0		1655.36	1		1614.47	0
9	1673.92	1		1613.42	0		1673.92	1
10	1611.86	0		1690.62	1		1611.86	0
11	1649.08	0		1619.17	1		1649.08	0
12	1689.19	0		1595.92	0		1689.19	0
13								
14								
15								

Summary:
 Total Usable Shots: 24 Acceptable
 Perforations (CP): 7
 Stops (PP): 17
 Perforations below 1275 ft/s: 0 Acceptable
Regression Analysis
 Regression Model: **Logistic**
 Model Parameters: β0: -80.1
 β1: 0.049

Shot Num	Sample 26				Sample 26			
	Front Panel		Back Panel		Front Panel		Back Panel	
	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)	Note	Avg. Vel. (ft/sec)	Perf (Y=1/N=0)
1	1333.5	0		1329.4	0		1333.5	0
2	1444.5	0		1461.6	0		1444.5	0
3	1547.0	0		1550.4	0		1547.0	0
4	1564.9	0		1566.7	0		1564.9	0
5	1667.8	1		1672.8	1		1667.8	1
6	1598.2	0		1594.9	1		1598.2	0
7	1646.9	0		1578.78	1		1646.9	0
8	1696.93	1		1500.15	0		1696.93	1
9	1637.2	1		1574.56	1		1637.2	1
10	1587.81	1		1532.1	0		1587.81	1
11	1555.69	1		1565.44	0		1555.69	1
12	1515.38	0		1574.31	1		1515.38	0
13								
14								
15								

Summary:
 Total Usable Shots: 24 Acceptable
 Perforations (CP): 10
 Stops (PP): 14
 Perforations below 1370 ft/s: 0 Acceptable
Regression Analysis
 Regression Model: **Logistic**
 Model Parameters: β0: -48.1
 β1: 0.030

Overall Ballistic Limit Summary

<p>Perforations below Vref + 30 ft/sec: 0 <u>This requirement is for all Ballistic Limit tested samples - New and Conditioned</u> This armor model meets the low perforation velocity performance requirements of NIJ Standard-0101.06 Section 7.9.5.</p> <p>Probability of perforation at the P-BFS reference velocity <u>This requirement is for New armors only</u> Threat 1: 0.0% Threat 2: 3.3% This armor model meets the estimated V05 performance requirements of NIJ Standard-0101.06 Section 7.9.5.</p>

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

#VALUE!

Report Number: 11901-66 Report Date: 01/05/12 Test Date:

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: #VALUE! #VALUE!
 Test ID: PBS09-001916 Reference Velocity: #VALUE! ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: #VALUE!

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s):
 Laboratory Range #: Velocity 2: 5.00 ft.

#VALUE!

Panel Serial No: #VALUE! Front Panel Plate Serial No: #VALUE!

PRE-TEST CLAY VALIDATION:
 Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: -						

TEST CONDITIONS:

	Start	End	Armor Submersion	Firing Sequence
Ambient Temp:	<u> </u> F	<u> </u> F	Start: <u> </u> HH:mm	Start: <u> </u> HH:mm
Rel. Humidity:	<u> </u> %	<u> </u> %	End: <u> </u> HH:mm	End: <u> </u> HH:mm
			Duration: <u> </u> min	Duration: <u> </u> min

FRONT PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1		0		0		0°					
2		0		0		0°					
3		0		0		0°					
4		0		0		#####					
5		0		0		#####					
6		0		0		0°					
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:
 Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: -						

- NOTES:
- a - Excessive velocity
 - b - Insufficient velocity
 - c - Too close to edge
 - d - Too close to prior impact
 - e - Excessive total impacts (test terminated)
 - f - Excessive area impacts (test terminated)
 - g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

#VALUE!

Report Number: 11901-66 Report Date: 01/05/12 Test Date:

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: #VALUE! #VALUE!
 Test ID: PBS09-001916 Reference Velocity: #VALUE! ± 30 ft/s
 NIJ Armor Type: 2 Water Submersion: #VALUE!

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft. Lab Technician(s):
 Laboratory Range #: Velocity 2: 5.00 ft.

#VALUE!

Panel Serial No: #VALUE! Back Panel Plate Serial No: #VALUE!

PRE-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: -						

TEST CONDITIONS:

Start End
 Ambient Temp: F
 Rel. Humidity: %
 Armor Submersion Start: HH:mm End: HH:mm Duration: min
 Firing Sequence Start: HH:mm End: HH:mm Duration: min

BACK PANEL											
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Comments
1		0		0		0°					
2		0		0		0°					
3		0		0		0°					
4		0		0		#####					
5		0		0		#####					
6		0		0		0°					
7		0		0							
8		0		0							

POST-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Clay Temperature: F

Depth of Indent:	Drop Number					Avg.
	1	2	3	4	5	
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: -						

NOTES:

- a - Excessive velocity
- b - Insufficient velocity
- c - Too close to edge
- d - Too close to prior impact
- e - Excessive total impacts (test terminated)
- f - Excessive area impacts (test terminated)
- g - Impact on seam

NATIONAL INSTITUTE OF JUSTICE
COMPLIANCE TEST REPORT

#VALUE!

Report Number: 11901-66 Report Date: 01/05/12 Test Date:

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: #VALUE! #VALUE!

Test ID: PBS09-001916

NIJ Armor Type: 2 Water Submersion: #VALUE!

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
Laboratory Range #: Velocity 2: 5.00 ft.
Lab Technician(s):

Sample re
Front Panel

Panel Serial No: #VALUE! Plate Serial No: #VALUE!

PRE-TEST CLAY VALIDATION:

Block ID:
Time of Day: HH:mm
Temperature: F

Depth of Indent:	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: -						

TEST CONDITIONS:

Ambient Temp: F
Rel. Humidity: %

Firing Sequence

Start: HH:mm
End: HH:mm
Duration: min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1			0		0					
2			0		0					
3			0		0					
4			0		0					
5			0		0					
6			0		0					
7			0		0					
8			0		0					
9			0		0					
10			0		0					
11			0		0					
12			0		0					
13			0		0					
14			0		0					
15			0		0					

Count: 0 0 0 0

Remarks:

- a - Too close to edge
- b - Too close to prior impact
- c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

#VALUE!

Report Number: 11901-66 Report Date: 01/05/12 Test Date:

Manufacturer: POINT BLANK SOLUTIONS, INC Ammunition: #VALUE! #VALUE!
 Test ID: PBS09-001916
 NIJ Armor Type: 2 Water Submersion: #VALUE!

TEST DIMENSIONS: Range Length: 17.20 ft. Velocity 1: 5.00 ft.
 Laboratory Range #: Velocity 2: 5.00 ft.
 Lab Technician(s):

**Sample re
Back Panel**

Panel Serial No: #VALUE! Plate Serial No: #VALUE!

PRE-TEST CLAY VALIDATION:

Block ID:
 Time of Day: HH:mm
 Temperature: F

	Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Depth of Indent:						
Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm						
Pass: -						

TEST CONDITIONS:

Ambient Temp: F
 Rel. Humidity: %

Firing Sequence
 Start: HH:mm
 End: HH:mm
 Duration: min

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

BL PANEL 1 - Front										
Shot No.	Charge Weight	Time 1 (μs)	Vel. 1 (ft/s)	Time 2 (μs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Result		Used (Y/N)	Remarks
							Perf (CP)	Stop (PP)		
1			0		0					
2			0		0					
3			0		0					
4			0		0					
5			0		0					
6			0		0					
7			0		0					
8			0		0					
9			0		0					
10			0		0					
11			0		0					
12			0		0					
13			0		0					
14			0		0					
15			0		0					

Count: 0 0 0 0

Remarks:

- a - Too close to edge b - Too close to prior impact c - Impact on seam



QUALITY CONTROL

PACA has established a quality management system detailed in the Quality System Manual that is in compliance with the International Quality System Standard ISO 9001:2008. All elements of the standard apply to operations at the PACA Body Armor plant in Jacksboro, Tennessee with the exception of design and development validation. These processes are validated through Point Blank Solutions, Inc. Technology Center. PACA is a wholly owned subsidiary of Point Blank Solutions, Inc., a publicly held company.

At PACA we take quality seriously because we know that an officer's life may depend on it. Technology has given us better materials to incorporate into our body armor - and deadlier weapons to work against. With the use of advanced, bullet resistant materials, persistent research and development, and product testing, we provide lifesaving ballistic protection that is as comfortable and wearable as possible.

We design and manufacture soft body armor, ballistic blankets, prison cell extraction suits, training and tactical equipment for law enforcement agencies, correctional facilities, federal government and military agencies.

PACA Body Armor's top management is committed to quality because it is essential to the success of our company. The policy of PACA Body Armor is to produce quality products that fully satisfy customer expectations. We recognize quality is the responsibility of each individual, and every employee is expected to pursue continuous improvement in the quality and productivity of products and services provided.

At PACA it is our policy to meet or exceed each customer's quality needs and expectations today and concurrently anticipate the requirements of tomorrow. Quality control and quality assurance are vital links in the production and assembly process. Quality is planned and built into every product made at PACA Body Armor.

We know that our immediate and long term success is dependent on supplying our customer's service and product that fully meets their requirements, on time, every time, at a fair price. We know that we are not alone in this effort. We must work with our customer to get all information necessary to make sure that we can understand their requirements. We must work with our suppliers to make sure that all purchased materials and services fully meet our requirements. Our vision is to build a relationship with our customers and suppliers to ensure quality is never compromised.

The PACA Body Armor Quality Policy Statement, summarizing the importance of the key attributes of our Quality Management System, shall be known and understood by all employees.

We have assembled an ISO Steering Committee who will develop and review quality objectives frequently. These objectives will be reviewed by Upper Management.

Documentation of the PACA Body Armor quality program is organized in four tiers:

- a. Quality System Manual is the highest tier quality document and addresses the company policy and over-arching requirements at the company level. The Quality System Manual generally explains "what" the quality system addresses.
- b. Quality Assurance Procedures are second tier quality documents that tell "how" the requirements are ISO 9001 will be met. The Quality Assurance Procedures are tied directly to specific elements of ISO 9001:2008.
- c. Quality Work Instructions are the third tier documents used in the quality program. Work Instructions are brief and focus on specific tasks.
- d. Forms are the lowest tier.

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We have prepared documented processes consistent with the company quality policy and the requirements of ISO 9001:2008. The Quality System Manual, Quality Assurance Procedures, and Quality Work Instructions are tools to assure that the PACA quality management system is implemented throughout the company and is understood at all levels.

The range and detail of the Quality Assurance Procedures and Quality Work Instructions address the complexity of the work, the methods used, and the skills and training needed by employees to carry out their tasks.

PACA has established and maintains documented processes for contract review and coordination of these activities. The Contract Review Team is assigned the task of ensuring that all potential contracts are properly reviewed before responding to a bid, entering into a contract, accepting a purchase order, or initiating production.

PACA's Product Development Personnel are responsible for maintaining documented processes to control and verify the design of the product in order to ensure that specified requirements are met.

The document and data control system is designed to ensure that the information used in the production of product or parts is clear, complete, correct and current. Quality records are maintained to demonstrate achievement of the required quality and the effectiveness of the quality system.

The purchasing system is constructed to ensure that purchased material conforms to specified requirements. Purchases are to be made only from approved vendors who have demonstrated capability and performance or who have a documented quality system.

Documented processes exist to ensure that if a customer has supplied us with product the utmost attention is given to maintain and store the product in such a manner as to prevent deterioration or loss.

All products purchased or customer supplied is handled, stored, packaged, and preserved in such a way to prevent damage or deterioration through all processes including delivery of the finished product to the final destination.

Systems are in place to ensure that product and parts are identifiable to all applicable drawings and/or specifications throughout all stages of production and delivery. Process control procedures ensure that production operations are planned and verified and that they are proceeding under controlled conditions in the specified manner and sequence.

Incoming material inspection shall verify the conformance of incoming raw materials and products. In-process inspection, final inspection, and testing shall ensure conformance to product specifications.

To ensure conformity of product or parts inspection and testing is used at appropriate points in receiving of incoming materials, during the manufacturing process and before product is released for shipment. Tools and gages used for measuring are of the type, range, accuracy, and precision appropriate to the product, the part, and the process. The calibration system assures that the measuring and test equipment are calibrated, adjusted, repaired or replaced prior to becoming inaccurate. The inspection and test status of the product or parts are clearly identified by marking, tags, labels, inspection records, test reports, physical location or other suitable means which indicated the conformance or nonconformance of the product.

To insure that ultimate quality products are released for shipment we have included in our Quality Assurance Procedures plans that have been established and implemented to ensure that product, whether it is incoming raw materials or product in process which are, or become non conforming is prevented from unintended use. This procedure includes identification, documentation, evaluation, segregation, and disposition.

If a nonconformance occurs, the corrective action plan is activated. Anyone seeing the need for corrective action is responsible for reporting the problem to the proper supervisor or manager. When possible, the root cause of the unsatisfactory condition is determined, and a proposed remedy is put in place. The effectiveness of the corrective action is verified.

Internal quality audits are performed to evaluate the effectiveness of the quality system as well as the level of product conformance. Internal quality audits are planned to be sure that the audit itself is effective. Internal quality audit results are documented and reviewed with the personnel having responsibility in the area being audited.