



# Sinoarmor

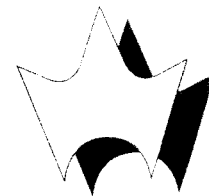
Division Of Concept East Ltd

## **NIJ III PE Ballistic Insert Independent Laboratory Testing**

**(For more information on our products, please visit our website  
[www.sinoarmor.com](http://www.sinoarmor.com))**

# H.P. WHITE LABORATORY, INC.

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2 March 2009  
(HPWLI 11069-02B)

Concept East Ltd.  
16E Neich Tower  
128 Gloucester Road  
Wanchai  
Hong Kong

Attention: Rob Thompson

Gentlemen:

In accordance with your instructions, H.P. White Laboratory, Inc. conducted ballistic penetration testing of one proprietary armor sample received 19 February 2009 via Hong Kong Post.

Testing was conducted in accordance with your instructions, and the modified provisions of NIJ-STD-0101.06, Level III, using caliber 7.62x51mm, 149 grain, M80, Ball ammunition. The test sample was mounted on an indoor range 50.3 feet from the muzzle of a test barrel to produce zero degree obliquity impacts. Velocity screens were positioned at 39.5 and 44.5 feet which, in conjunction with elapsed time counters (chronographs), were used to compute projectile velocities 42.0 feet from the muzzle. Table I presents a summary of the attached data record.

TABLE I. SUMMARY OF RESULTS

Test Sample			Ballistic Threat				Results	
Number	Weight Plate (lb)	Weight Vest (lb)	Caliber	Shots	Velocity (fps) Max.	Min.	Penetrations	Deformations (mm) (a)
DC3-3	3.75	2.23	7.62, M80	6	2804	2765	0	37/30

(a) Deformation of 5.5 inch clay backing; maximum permissible deformation: 44mm.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample is being returned via Federal Express, or equivalent. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Very truly yours,

H.P. White Laboratory, Inc.

Craig B. Dunn

CBD/tc  
Enclosure



# H.P. White Laboratory, Inc.

## BALLISTIC RESISTANCE TEST

Client : CONCEPT EAST LTD.

Job No. : 11069-02

Test Date : 3/2/09

### TEST PANEL

Manufacturer : CONCEPT EAST LTD.  
 Size : PLATE: 10 x 12; VEST: 15 x 15 in.  
 Thicknesses : NA  
 Avg. Thick. : NA  
 Description : PROPRIETARY  
 MODEL# DC3-3

Sample No. : DC3-3  
 Weight : PLATE: 3.75; VEST: 2.23 lbs. Date Rec'd. : 2/19/09  
 Hardness : NA  
 Plies/Laminates : NA  
 Via : HONG KONG POST  
 Returned : Federal Express

### SET-UP

Shot Spacing : PER NIJ-STD-0101.06 LEVEL III  
 Witness Panel : CLAY  
 Obliquity : 0 deg.  
 Backing Material : 5.5" CLAY/PLYWOOD  
 Conditioning : SUBMERGED FOR 30MIN

Primary Vel. Screens : 39.5 ft., 44.5 ft.  
 Primary Vel. Location : 42.0 ft. From Muzzle  
 Residual Vel. Screens : NA  
 Residual Vel. Location : NA  
 Range to Target : 50.3 ft.  
 Target to Wit. : 0.0 in.

Range No. : 1  
 Temp. : 75 F  
 BP : 29.88 in. Hg  
 RH : 24%  
 Barrel No./Gun : .308/R-1  
 Gunner : L. CHES  
 Recorder : B. SHAFFER

### AMMUNITION

- (1) : 7.62mm Ball, M80, 149 gr.
- (2) :
- (3) :
- (4) :

Lot No. : WRA-67  
 Lot No. :  
 Lot No. :  
 Lot No. :

### APPLICABLE STANDARDS OR PROCEDURES

- (1) : PER NIJ-STD-0101.06 LEVEL III (MODIFIED)
- (2) : PRE-TEST CLAY DROPS: 22mm, 21mm, 20mm, 18mm, 20mm
- (3) : PRE-TEST CLAY TEMP: 98.9 F

Shot No.	Ammo.	Time 1 (usec)	Velocity 1 (ft/s)	Time 2 (usec)	Velocity 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Footnotes
1	1	1787	2798	1792	2790	2794	None	DEF. 37mm
2	1	1782	2806	1784	2803	2804	None	DEF. 30mm
3	1	1801	2776	1808	2765	2771	None	
4	1	1800	2778	1800	2778	2778	None	
5	1	1800	2778	1800	2778	2778	None	
6	1	1809	2764	1808	2765	2765	None	

#### REMARKS :

#### FOOTNOTES :