

## H.P. WHITE LABORATORY, INC.

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28 May 2009  
(HPWLI 11043-05B)

Fortress Pacific Corporation  
3F-4, No. 26, Sec.  
2 Min-Chuan E. Rd.  
Taipei, Taiwan

Attention: Annie Chao

In accordance with your instructions, H.P. White Laboratory, Inc. conducted sharp instrument resistance testing of two armor samples received 19 May 2009 via Federal Express.


Testing was conducted in accordance with your instructions, and the modified provisions of NIJ-STD-0115.00, Blade Level 1. Please review the enclosed data record for an account of the testing.

This report is based on data obtained from having tested only the samples 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 samples are being returned via Federal Express. 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.**  
**R&D STAB TESTING, NIJ-STD-0115.00**

Customer : FORTRESS PACIFIC CORP.

Job No. : 11043-05 Test Date : 5/22/2009

**TEST SAMPLE**

Manufacturer : FORTRESS PACIFIC CORP.

Model : FP101D

Size : LARGE

Weight : SEE NOTES

Construction : WOVEN ARAMID AND COATED ARAMID WITH CARRIER

Date Rec'd : 5/19/2009

Via : FEDERAL EXPRESS

Returned : FEDERAL EXPRESS

**SET-UP**

Upper Drop Mass (g) : 1259

D Time Base (mm) : 30.0

Temperature (F) : 66

Lower Drop Mass (g) : 652

Standoff Distance (mm) : 12.7

Rel. Humidity (%) : 57

Test Personnel : B. WILLIAMSON

No	Sample Description	Blade (P1, S1, Spike)	Angle (deg.)	Desired Energy		Drop Height		Time (ms)	Impact Energy (J)	Penet. (mm)	Remarks
				Level	J	(ft.)	(in )				
1	FRONT PANEL	S1	0	L1,E1	24	4	2.75	6.0190	24.25	0	
2	FRONT PANEL	S1	0	L1,E2	36	6	5.00	4.9331	35.84	0	
3	FRONT PANEL	S1	45	L1,E1	24	4	2.75	6.0623	23.91	0	
4	FRONT PANEL	P1	0	L1,E1	24	4	2.75	6.0026	24.39	0	
5	FRONT PANEL	P1	0	L1,E2	36	6	5.00	4.9060	36.24	11	
6	FRONT PANEL	P1	45	L1,E1	24	4	2.75	6.0535	23.98	0	
7	BACK PANEL	S1	0	L1,E1	24	4	2.75	6.0374	24.11	0	
8	BACK PANEL	S1	0	L1,E2	36	6	5.00	4.9504	35.59	0	
9	BACK PANEL	S1	45	L1,E1	24	4	2.75	6.0331	24.14	0	
10	BACK PANEL	P1	0	L1,E1	24	4	2.75	6.0169	24.27	0	
11	BACK PANEL	P1	0	L1,E2	36	6	5.00	4.9274	35.92	12	
12	BACK PANEL	P1	45	L1,E1	24	4	2.75	6.0424	24.07	0	
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**NOTES**

CLIENT SUPPLIED CONSTRUCTION OF TEST PANEL.

FRONT PANEL WEIGHT: 3.59lbs.

BACK PANEL WEIGHT: 2.55lbs.

**DEFINITIONS**

Per NIJ-STD-0115.00, sample fails if E1 penetration > 7mm or E2 penetration > 20mm

Upper Drop Mass includes weight of 2 foam disks; Lower Drop Mass includes weight of test implement

D Time Base is distance between velocity sensors

Standoff Distance is measured from blade tip to armor surface when drop mass is at 0 position

(just breaking bottom velocity sensor beam)