

TEST REPORT NO. 53628-1



TEST, ENGINEERING AND RESEARCH GROUP, SAN BERNARDINO

Pelican Products, Inc.
23215 Early Avenue
Torrance, CA 90505

Our Job No. DE 53628
Contract —
Your P.O. No. 43647
Date November 1, 2006

This report contains true and correct data obtained in the performance of the test program set forth in your purchase order. Test methods, results, and equipment used are recorded on these data sheets.

Where applicable, instrumentation used in obtaining this data has been calibrated using standards which are traceable to the National Institute of Standards and Technology.

SUMMARY:

One Case, Part No. 1080 (no serial number) was subjected to Dust IP6X Category 2 Testing and Rain Intrusion IPX6 Testing in accordance with CEI IEC 529 specifications. Upon completion of the tests, no visible evidence of damage to the test specimen was observed. Complete test details, including photos and equipment lists, are contained in this report.

Test Dates: 10/13/06-10/30/06

STATE OF CALIFORNIA }
COUNTY OF SAN BERNARDINO } SS.

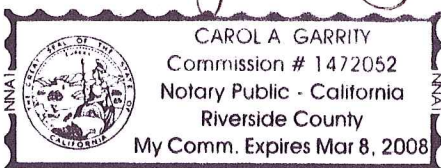
Douglas G. Anderson

being duly sworn, deposes and says: That the information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

[Signature]

SUBSCRIBED and sworn to before me this 1 day of Nov, 2006 by Douglas G. Anderson personally known to me or proved to me on the basis of satisfactory evidence to be the person who appeared before me.

[Signature]



TEST OPERATIONS

TEST ENGINEER *[Signature]* 11/1/06
H. Pemberton

DEPT. MANAGER *[Signature]* 11/1/06
P. Knoll

QUALITY ASSURANCE *[Signature]*
For G. Montgomery



DATA SHEET

Customer Pelican Products, Inc. Job No. 53628

Date 10/9/2006

Specimen Case

RECEIVING INSPECTION

No. of Specimens Received: 1

Record identification information exactly as it appears on the tag or specimen:

Manufacturer: Pelican Products, Inc.

P/N's 1080 S/N's N/A

How does identification information appear: (name plate, tag, painted, imprinted, etc.)

Sticker

Examination: Visual, for evidence of damage, poor workmanship, or other defects, and completeness of identification.

Inspection Results: There was no visible evidence of damage to the specimen(s) unless otherwise noted below.

recinsp

Inspected By [Signature] 10/9/06
Sheet No. 1 of 1
Approved [Signature] Date 10/9/06



DATA SHEET

Test Title Dust IP6X Category 2

Customer Pelican Products, Inc. Job No. 53628
Specimen Case Date Started 10/13/2006
Part No. 1080 Serial No. N/A Date Comp. 10/13/2006
Spec. CEI IEC 529 Par. 13.4 & 13.6 Photo Yes Amb. Temp. 15°C to 35 °C

Requirements:

Dust Concentration: 2 Kg per cubic meter test chamber volume
Duration: 8 hours

Test Method:

Place the test specimen in a test chamber. Establish a dust concentration of 2 Kg per cubic meter of test chamber volume. Expose the test specimen to this dust environment for 8 hours.

Remove accumulated dust from the test specimen by brushing, wiping, or shaking, taking care to avoid introducing additional dust into the test item. Do not remove dust by either air blast or vacuum cleaning. Perform a visual examination for evidence of damage or deterioration.

Test Results:

All testing was performed according to the Test Methods and Requirements stated above. Upon completion of the test, no visual evidence of dust intrusion was observed inside the test specimen. No visible evidence of damage to the test specimen was observed upon completion of testing.

Tested By Chris Thayer 10/23/06
Engineer Wah Penh 10/23/06

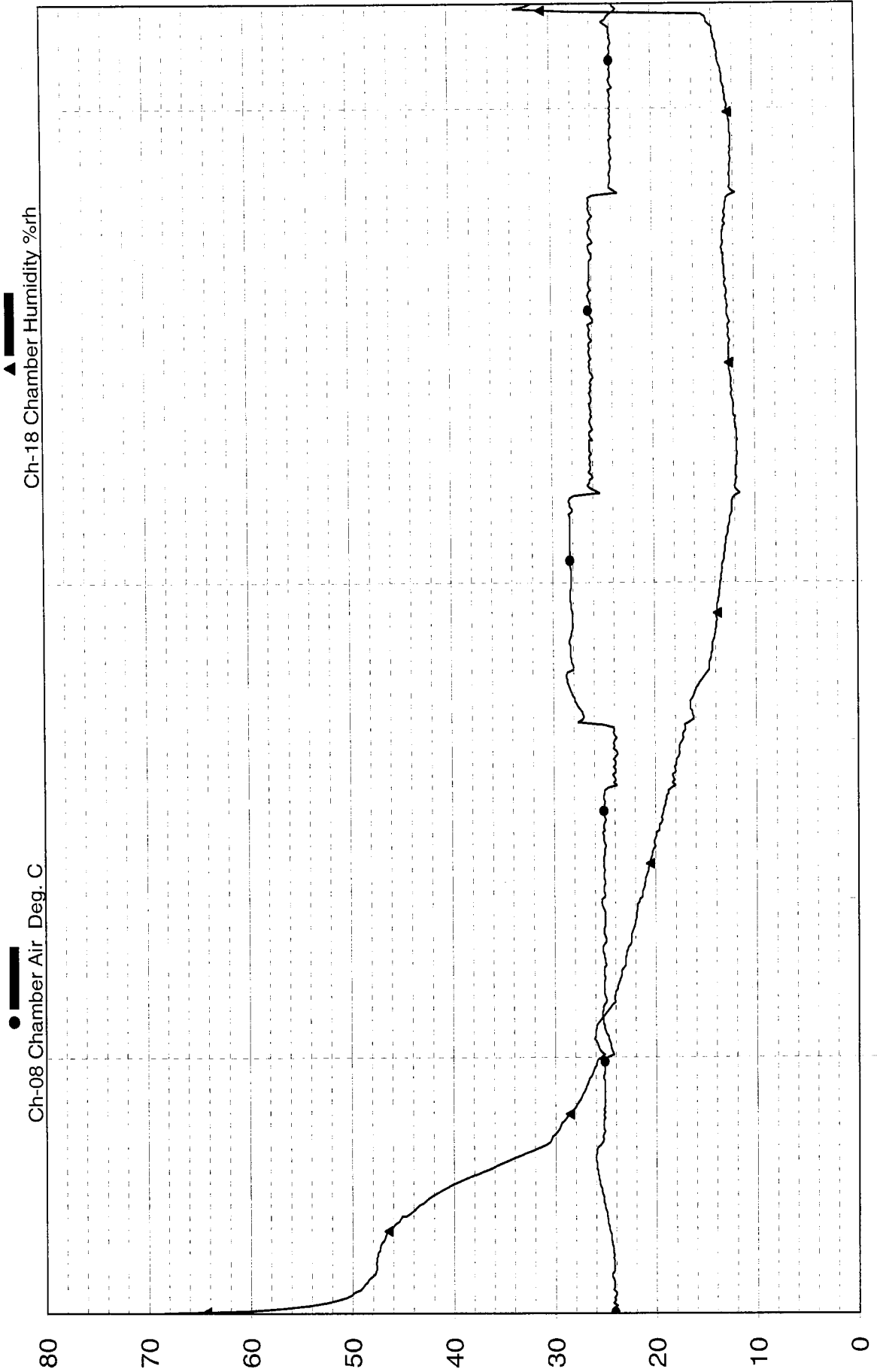


Pelican J/ N-53628

Cases # 1430 , 1440 , 1080 , 0340

File: D:\WyleDL\53628C104.prn

10-23-2006 11:31:56 DL2k5



3PM

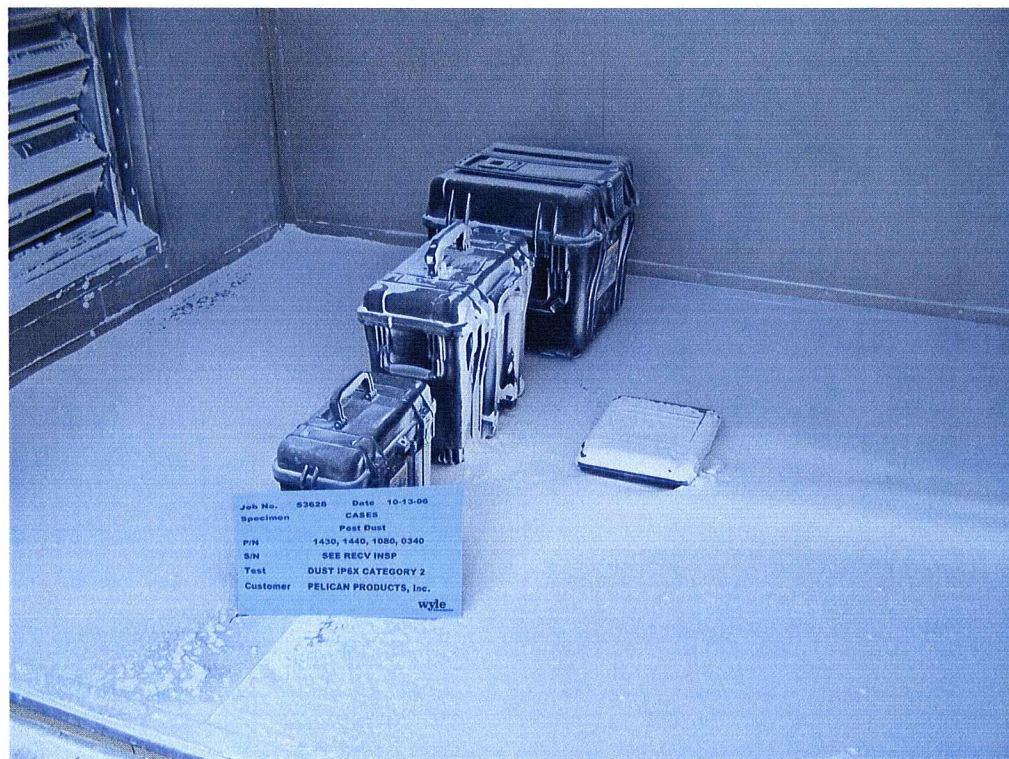
12PM
Dust IP6X Category 2

9AM

13 Fri Oct 2006



*Photograph 1
Dust Test Setup (Tested with other Pelican Product Items)*



*Photograph 2
Post Dust Test*



TEST TITLE: Dust (IPX6 Category 2)

CUSTOMER: Pelican Products, Inc

Job No.: 53628

Date: 10-10-2006

Specimen: Cases

Technician: C. Natzic

CN
10-10-06

Part No.: See Recv. Insp.

Serial No.: See Recv. Insp.

Engineer: H. Pemberton

HP
10-10-06

EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIBRATION		ACCY.
					LAST	DUE	
Chamber - Environmental	Wyle	Dust	-60 to +180°F / 11' x 7' x 7' / LN2	W50716	* System	Calibration *	Mfg. Spec.
Controller - Chamber	Watlow / Omega	922 / CN9000	-100° to 240°F	W50708	* System	Calibration *	Mfg. Spec.
Multimeter/DAS	Keithley	2700	10VDC & Type T TC's	W13690	12/01/2005	12/01/2006	±2%
Multiplexer Module	Keithley	7700	20 Channels Volts or TC's	W14903	12/01/2005	12/01/2006	Mfg. Spec.
Rh Probe	Vaisala	HMP 135Y	0-100%	W11829	05/31/2006	11/30/2006	3%
Stopwatch	Cole Parmer	365530	10 hour	W13604	07/28/2006	01/28/2007	.1 sec

Where applicable, the listed test equipment has been calibrated using standards which are traceable to the National Institute of Science & Technology. Certificates and reports of all calibrations are retained in the Wyle Laboratories QA files and are available for inspection upon request. *Equipment identified as System Calibration are verified prior to use.



DATA SHEET

Test Title Rain Intrusion (IPX6)

Customer Pelican Products, Inc. Job No. 53628
Specimen Case Date Started 10/30/2006
Part No. 1080 Serial No. N/A Date Comp. 10/30/2006
Spec. CEI IEC 529 Par. 14.2.6 Photo Yes Amb. Temp. 75° ±15F

Requirements:

Water Delivery: 100 liter/min ± 5% (26 gal/min)
Water Pressure: Adjusted as needed to achieve specified delivery rate
Nozzle Inner Diameter: 12.5 mm inner diameter (0.5 inches)
Distance: 2.5 to 3 meters from nozzle to test specimen
Water Temperature: Water temperature maintained at not less than 5 °K (10 °F) below the specimen temperature
Test Duration: 1 minute per square meter of surface area of the test specimen but at least a minimum of 3 minutes

Test Method:

Measure and record the enclosure outer dimensions. Measure and record the water temperature and specimen surface temperature. Verify the water temperature is not less than 5 °K (10 °F) below the specimen temperature.

Using the requirements stated above, expose the test specimen to the specified water test for duration of 1 minute per square meter of surface area of the test specimen but at least a minimum of 3 minutes.

Perform a visual examination for ingress of water. Specify, if any, the amount of water which may have entered the test specimen and where the water was deposited.

Test Results:

The test was completed following the test method and requirements stated above. Upon completion of the test, no water was observed in the test specimen. No visible evidence of damage to the test specimen was observed upon completion of testing.



*Photograph 3
Rain Intrusion Test Setup*



*Photograph 4
Rain Intrusion Test Setup*



TEST TITLE: Rain Intrusion (IPX6)

CUSTOMER: Pelican Products, Inc.

Job No.: 53628

Date: 10-30-2006

Specimen: Case

Technician: S. Paysen

Part No.: See Recv. Insp.

Serial No.: See Recv. Insp.

Engineer: H. Pemberton

HP
10-30-06

EQUIPMENT	MANUFACTURER	MODEL #	RANGE	WYLE #	CALIBRATION		ACCY.
					LAST	DUE	
Gauge Pressure	Ashcroft	4.5"	30" Hg VAC / 100 PSIG	W47046	10/27/2006	04/27/2007	0.5%
Stopwatch	Cole Parmer	365530	10 hour	W13604	07/28/2006	01/28/2007	.1 sec
Tape Measure	Keson	100	100 ft.	W12590	06/26/2006	06/26/2007	Mfg. Spec.
Temperature - Digital Indicator	Tegam	819	-300 to +700 °F	W13596	07/28/2006	01/28/2007	.1%

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