

TEST REPORT

Report No.: HC20028/2013

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Date: March 18, 2013

TWINHEAD INTERNATIONAL CORP.
10F, NO. 550, RUEIGUANG ROAD,
NEIHU, TAIPEI, TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: DURABOOK
Style/Item No.: SA14iT/ No.1, No.2
Quantity: Total 2 sets
Testing Period: Mar. 14, 2013 to Mar. 15, 2013

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

1. Dust test
2. Waterproof Test

Test Results: -PLEASE SEE ATTACHED SHEETS-

Signed for and on behalf of
SGS TAIWAN Ltd.



Winson Tseng
Asst. Manager

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1. Dust test

Test Equipment:

Name	Brand	Model	Serial No.
Dust Tester	T-MACHINE	TMJ-9723C	T-23-050411

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Method/ Specification:

Test method: IEC 60529 Edition 2.1: 2001--IP5X (Dust test)

Sample condition: Non-Operating

Type of dust: Talcum powder

The amount of dust: 2 kg

The chamber size: 1 m³

Test duration: 8 hours

- Perform functional check after this test.
- Functional check: Turn on the power of specimen then execute test program "Burn-in" while performing functional check.

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Specimen:

Style/ Item No.: SA14iT/ No.1

Quantity: Total 1 set

Test Result:

Check Item	Functional check
Style/ Item No.	
SA14iT/ No.1	Normal

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2. Waterproof Test

Test Equipment:

Name	Brand	Model	Serial No.
Waterproof Test Chamber	T-MACHINE	TMJ-9710A	T-10-120304

Lab Environmental Conditions:

Ambient temperature: $(25 \pm 3) ^\circ\text{C}$

Ambient humidity: $(55 \pm 20) \% \text{RH}$

Test Method/ Specification:

Test method: IEC 60529 Edition 2.1: 2001--IPX3

Sample condition: The specimen is under Non-operating condition during this test.

Oscillating angle: $\sim 120^\circ$ ($\sim 60^\circ$ / side)

Oscillating speed: 4 seconds / cycle ($\sim 2 \times 120^\circ$)

Tube radius and

Number of open holes: See below items marked "●",

Test condition used:		●						
Tube radius (mm)	200	400	600	800	1000	1200	1400	1600
Number of open holes	8	16	25	33	41	50	58	67

Water flow rate: $0.07 \text{ l} / \text{minute} \pm 5\% / \text{hole}$

Specimen orientation: (1) Test specimen be placed at the center point of the test device, defined as Test orientation I (see photo 5, 6)

(2) Test specimen be turned through an horizontal angle of 90° , defined as Test orientation II (see photo 7, 8)

Test duration: 5 minutes / orientation

- Examine the protection against ingress water of specimen and perform functional check after this test.
- Functional check: Turn on the power of specimen then execute test program "Burn-in" while performing functional check.

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Specimen:

Style/ Item No.: SA14iT/ No.2







Quantity: Total 1 set

Test Result:

Check Item Style/ Item No.	Does any water permeate into the panel of the specimen?	Functional check
SA14iT/ No.2	No	Normal





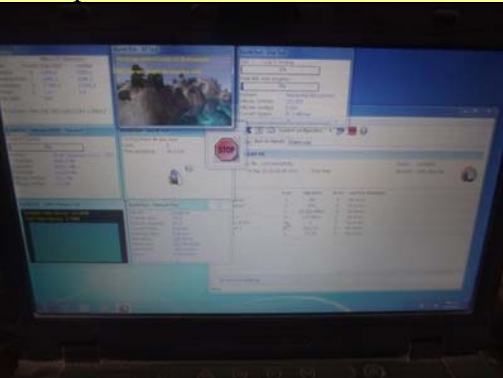
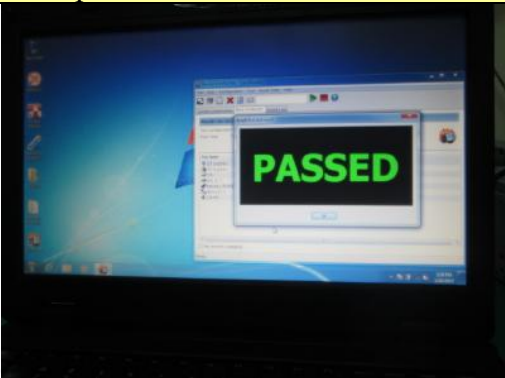
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Test Photos:

	
<p>1. Appearance of specimen: SA14iT</p>	<p>2. Appearance of specimen: SA14iT</p>
	
<p>3. Test for protection against solid foreign objects (Dust test)</p>	<p>4. Test for protection against solid foreign objects (Dust test)</p>
	
<p>5. Test for protection against water</p>	<p>6. Test for protection against water</p>

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Test Photos--Continued:

	
<p>7. Test for protection against water</p>	<p>8. Test for protection against water</p>
	
<p>9. Appearance of the interior of specimen after waterproof test</p>	<p>10. Appearance of the interior of specimen after waterproof test</p>
	
<p>11. Functional check</p>	<p>12. Functional check</p>

— — — The End of Test Report — — —

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