

TEST REPORT

Page 1 / 9

Report No.	L0509(E)/62	
Operation No.	6206BL0549	
Name and address of customer	LEGO ELECTRIC CO.,LTD. 72/127 Somdetphrachaotaksin Rd, Bukkhalo, Thonburi Bangkok 10600	
Sample description	Sample was submitted and identified by/on behalf of the customer as following: ELECTRICAL PLASTIC ENCLOSURES Trademark: PRI PRODUCTS Model: HG1 Size: 210X210X130mm 1 set (1 unit)	
Sample No.	BL0549	
Sample characteristic and condition	Normal	
Sample received date	June 28, 2019	
Test date	July 6, 2019 – July 8, 2019	
Issue date	July 9, 2019	
Test standard	IEC 60529:2001 (IP65)	
Test report	Details of the test report as shown on the following pages.	
Summary of testing The test results comply with standard.		
Tested by (name + signature)	Mr. Sutikorn Martdoug	
Approved by (name + signature)	Mr. Rachen Muongon	
Certified by (name, function + signature)	Mr. Arthit Wussanamongkol Division manager, Operation division 1	 

TEST REPORT

Page 2 / 9

Name and address of  
manufacturer

P.R.I. GROUP CO.,LTD

37/9 Moo 2 Sainoi, Sainoi, Nothaburi 11150

Sample photo



Possible test case verdicts :

- P : test object does meet the requirement
- F : test object does not meet the requirement
- N : test case does not apply to the test object

## TEST REPORT

### Test method

The sample was tested and complies with the IP65 requirement, Protection against access to hazardous parts, Protection against solid foreign objects and Protection against water test.

#### Protected against access to hazardous parts with a wire test (IP6X)

The test wire of 1.0 mm Ø shall not penetrate and adequate clearance shall be kept.

#### Dust-tight test (IP6X)

Category 1 enclosures

The sample shall be made to a hole specially provided for this test.

The sample is placed in a circulation dust chamber for 8 hours.

The depression is -20 mbar.

The sample shall not be operated.

The sample is supported in normal operating position inside the test chamber.

During the dust test talcum powder of is circulated. The talcum powder is able to pass through a square-meshed sieve the normal wire diameter of which is 50µm and the normal width of a gap between wires 75µm. The amount of talcum powder used is 2 kg based on the chamber volume of 1 m<sup>3</sup>

#### Protected against water jets test (IPX5)

The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in figure 6 of IEC 60529:2001

The conditions to be observed are as follows:

- Internal diameter of the nozzle: 6.3 mm;
- Delivery rate: 12.5 l/min;
- Water pressure: to be adjusted to achieve the specified delivery rate;
- Core of the substantial stream: circle of approximately 40 mm;
- Test duration per square metre of enclosure surface area likely to be sprayed: 1 min;
- Test duration: 3 min;
- Distance from nozzle to enclosure surface: 2.5 meters.



TEST REPORT

Page 4 / 9

Test Result

Degree of protection				Result / Remark	Verdict
Degree	Test	Definition			
IP65	IP6X	Protected against access to hazardous parts with a wire	The access probe of 1.0 mm Ø shall not penetrate	The access probe of 1.0 mm Ø, not penetrate to the enclosure.	P
		Dust-tight	No ingress of dust	No dust was found inside the enclosure.	P
	IPX5	Protected against water jets	Water projected in jets against the enclosure from any direction shall have no harmful effects.	No water was found inside the enclosure.	P

TEST REPORT

Page 5 / 9

Attached photo

Photo No.1 : Front view

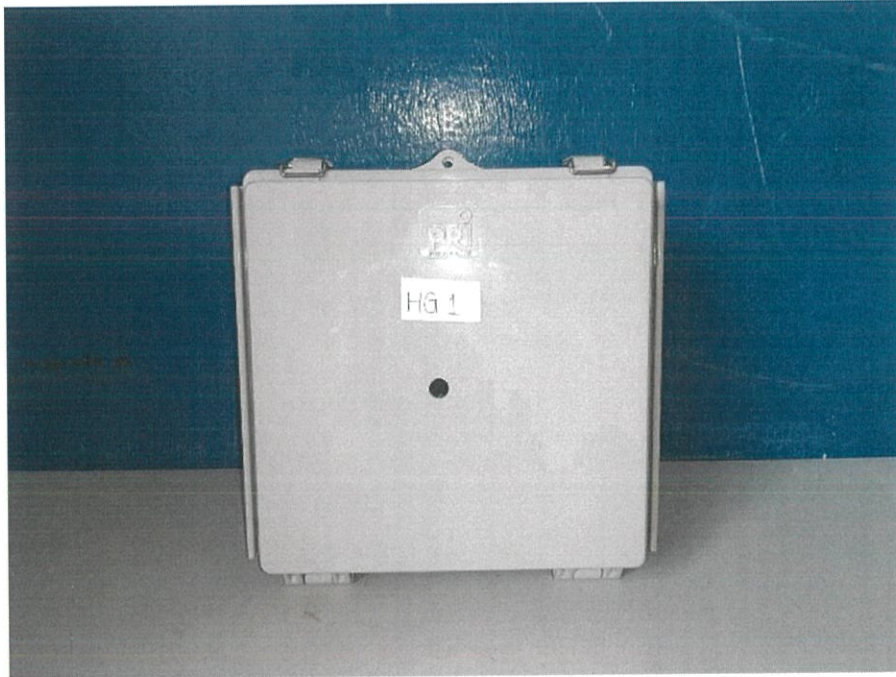
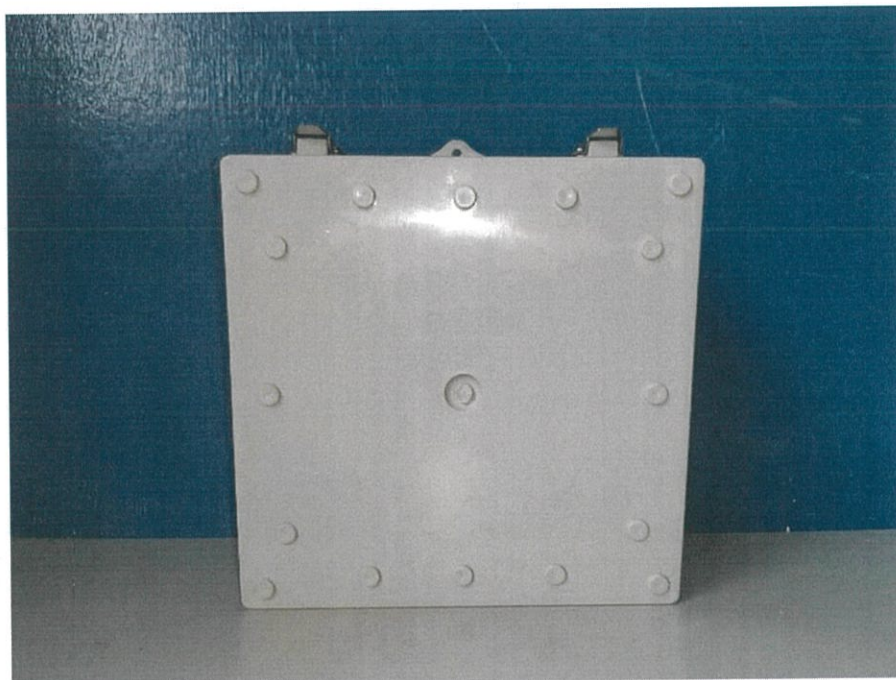


Photo No.2 : Back view





TEST REPORT

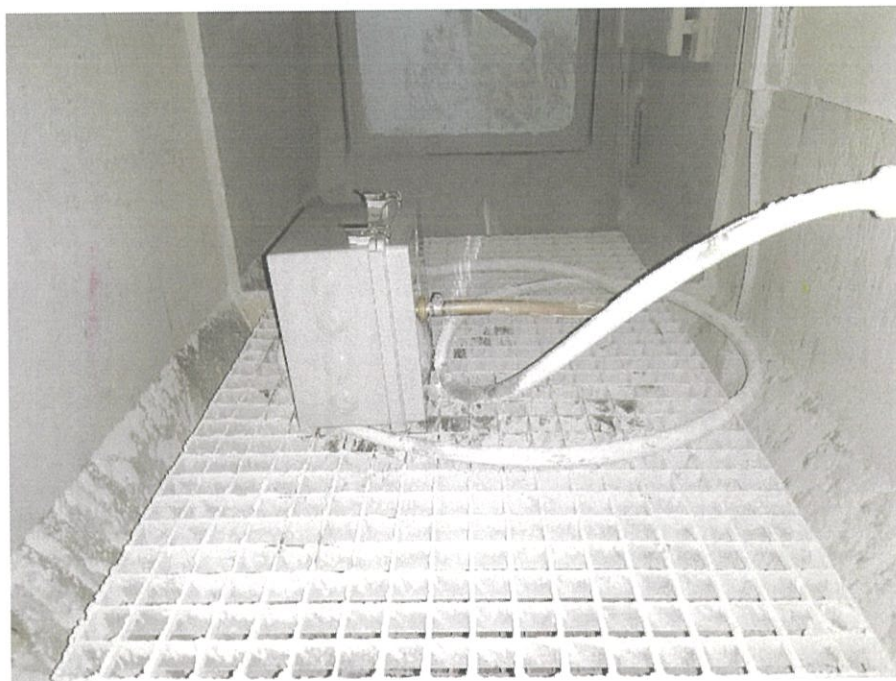
Page 6 / 9

Attached photo

Photo No.3 : Side view



Photo No.4 : IP6X Dust test

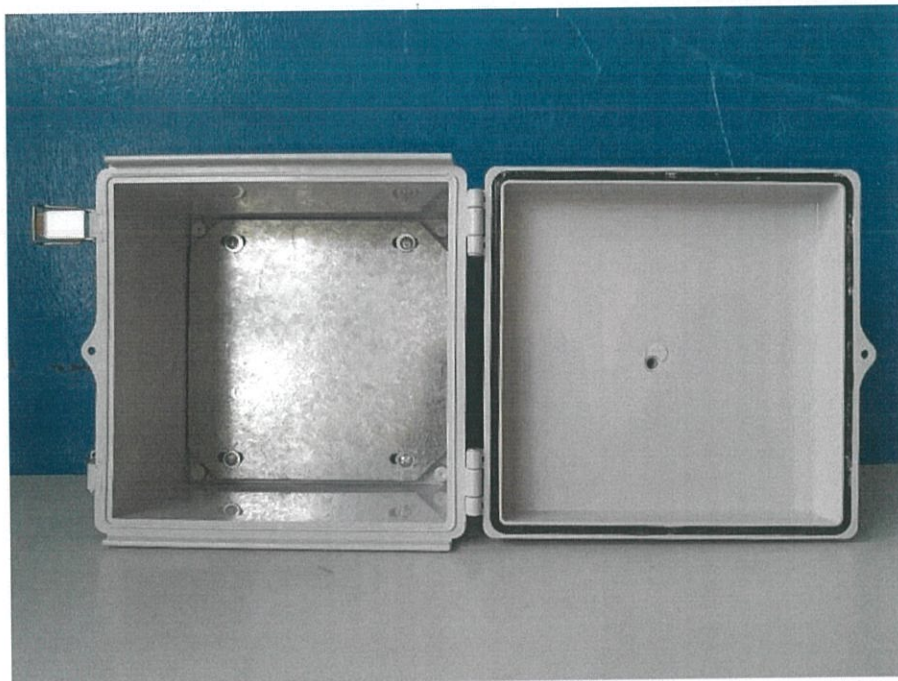


Attached photo

Photo No.5 : IPX5 Water test



Photo No.6 : After test





Attached photo

Photo No.7 : After test

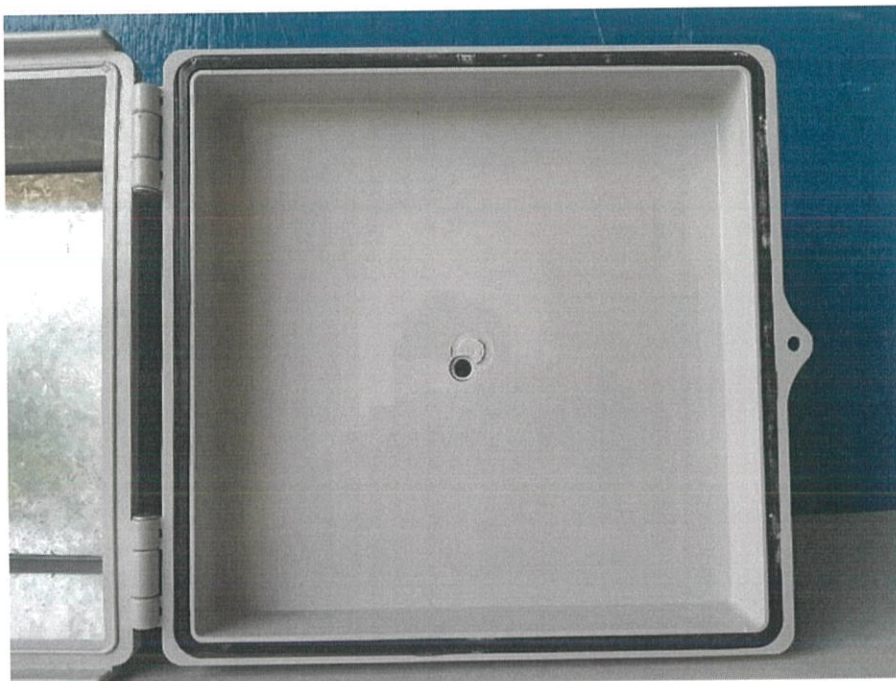
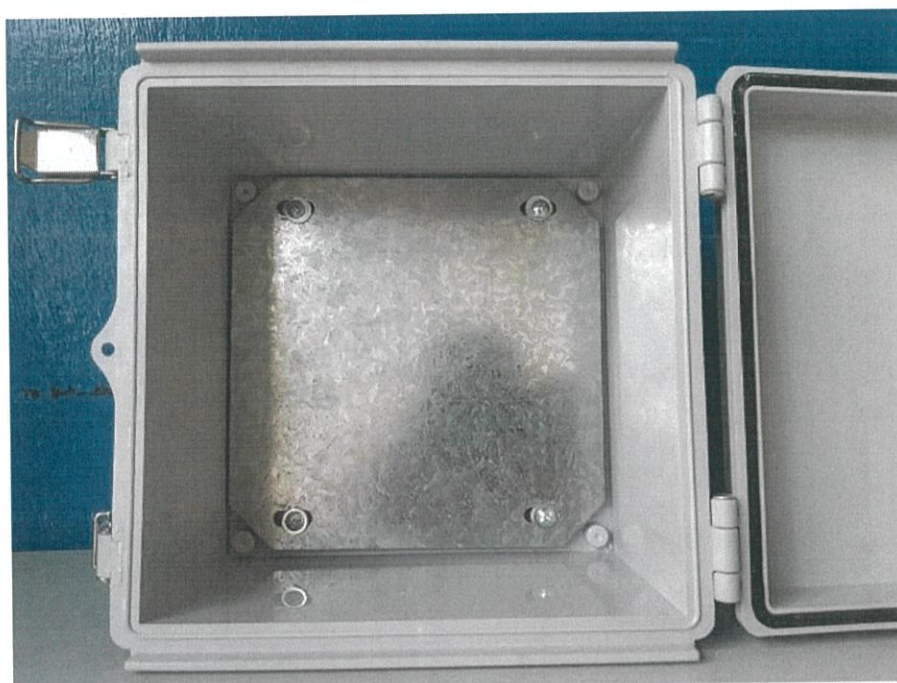


Photo No.8 : After test





TEST REPORT

Page 9 / 9

Attached photo

Photo No.9 : After test



Photo No.10 : After test



- End of report -