

TEST REPORT

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Report No.	TC20250561EA	
Operation No.	TC2025080505	
Name and address of customer	UI TRUNKING & METAL WORK CO., LTD. 939 MOO 15, THEPARAK INDUSTRIAL ESTATE, THEPARAK ROAD, BANGSAOTHONG, SAMUTHPRAKARN 10570	
Sample description	Sample was submitted and identified by/on behalf of the customer as following:  Enclosure for electrical equipment PULL BOX (HOT DIP GALVANIZED) SIZE : 200x200x100 mm. THICKNESS : 1.6 mm.  1 set	
Sample No.	TC2025080505	
Sample characteristic and condition	Normal	
Sample received date	August 28, 2025	
Test date	September 7, 2025 - September 8, 2025	
Issue date	September 10, 2025	
Test standard	IEC 60529:1989, IEC 60529:1989/AMD1:1999 (IP54)	
Test report	Details of the test report as shown on the following pages.	
<b>Summary of testing</b>		
The test results comply with standard.		
This report was prepared electronically using applicable electronic signature. Printing or copy of file are considered as a copy of the document.		
Tested by (name + signature)	Mr. Mongkol Jocharoenpanich	
Reviewed by (name + signature)	Mr. Rachen Muongon	
Approved by (name, position + signature)	Mr. Arthit Wussanamongkol Division manager, Operation division 1	

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

Product description

Product name ..... : PULL BOX (HOT DIP GALVANIZED)

SIZE ..... : 200x200x100 mm.

THICKNESS ..... : 1.6 mm.

TEST REPORT

Clause	Requirement – Test	Remark	Result
1	SCOPE AND OBJECT		-
2	NORMATIVE REFERENCES		-
3	DEFINITIONS		-
4	DESIGNATIONS		-
5	DEGREES OF PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS AND AGAINST SOLID FOREIGN OBJECTS INDICATED BY THE FIRST CHARACTERISTIC NUMERAL		-
6	DEGREES OF PROTECTION AGAINST INGRESS OF WATER INDICATED BY THE SECOND CHARACTERISTIC NUMERAL		-
7	DEGREES OF PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS INDICATED BY THE ADDITIONAL LETTER		-
8	SUPPLEMENTARY LETTERS		-
9	EXAMPLES OF DESIGNATIONS WITH THE IP CODE		-
10	MARKING		-
11	GENERAL REQUIREMENTS FOR TESTS		-
12	TESTS FOR PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS INDICATED BY THE FIRST CHARACTERISTIC NUMERAL		P
12.1	Access probes		P
12.2	Test conditions		P
	Access probe pushed against or inserted through any openings of the enclosure with a test force as specified in Table 6		-
	Access probe	Test wire 1.0 mm (Ø) long 100 mm	-
	Test force	1 N ± 10 %	-
12.3	Acceptance conditions		P
	Adequate clearance was kept between the access probe and hazardous parts. The access probe 1 mm. diameter shall not completely pass through the opening		-

TEST REPORT

Clause	Requirement – Test	Remark	Result
12.3.1	For low voltage equipment (rated voltages not exceeding 1000 Va.c. and 1500 Vd.c)		N
	The access probe did not touch hazardous live parts		-
12.3.2	For high voltage equipment (rated voltages exceeding 1000 Va.c. and 1500 Vd.c.)		N
12.3.3	For equipment with hazardous mechanical parts		N
	Access probe did not touch hazardous mechanical parts		-
13	TESTS FOR PROTECTION AGAINST SOLID FOREIGN OBJECTS INDICATED BY THE FIRST CHARACTERISTIC NUMERAL		P
13.1	Test means		P
13.2	Test conditions for first characteristic numerals 1, 2, 3, 4		N
13.3	Acceptance conditions for first characteristic numerals 1, 2, 3, 4		N
13.4	Dust test for first characteristic numerals 5 and 6		P
	Category	2	-
	Duration	8 h	-
	The test is made using a dust chamber incorporating the basic principles show in figure 2 of IEC 60529:1989, IEC 60529:1989/AMD1:1999 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50 $\mu\text{m}$ and the nominal width of a gap between wires 75 $\mu\text{m}$ . The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume.		-
13.5	Special conditions for first characteristic numeral 5		P
13.5.1	Test conditions for first characteristic numeral 5		P
13.5.2	Acceptance conditions for first characteristic numeral 5		P
	No deposit of dust was observable inside the any of enclosure		-
13.6	Special conditions for first characteristic numeral 6		N

TEST REPORT

Clause	Requirement – Test	Remark	Result
14	TESTS FOR PROTECTION AGAINST WATER INDICATED BY THE SECOND CHARACTERISTIC NUMERAL		P
14.1	Test means		P
14.2	Test conditions		P
	Test item temperature during test	Within $\pm 5^{\circ}\text{C}$ of water temperature	-
14.2.1	Test for second characteristic numeral 1 with the drip box		N
14.2.2	Test for second characteristic numeral 2 with the drip box		N
14.2.3	Test for second characteristic numeral 3 with the oscillating tube or spray nozzle		N
14.2.4	Test for second characteristic numeral 4 with the oscillating tube or spray nozzle		P
	Test by spraying water on the enclosure from every direction possible. with a stream of water from a standard test nozzle		-
	Water flow rate	0.84 l/min	-
	Test duration / area	-	-
	Test duration	10 min	-
14.2.5	Test for second characteristic numeral 5 with the 6.3 mm spray nozzle		N
14.2.6	Test for second characteristic numeral 6 with the 12.5 mm spray nozzle		N
14.2.7	Test for second characteristic numeral 7: temporary immersion between 0.15 m and 1 m		N
14.2.8	Test for second characteristic numeral 8: continuous immersion subject to agreement		N
14.3	Acceptance condition		P
	No water was found inside any of the enclosure		-
15	TESTS FOR PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS INDICATED BY THE ADDITIONAL LETTER		N

Attached photo

Photo No.1 : Front View



Photo No.2 : Back View



Attached photo

Photo No.3 : Side View



Photo No.4 : IP5X Dust test



Attached photo

Photo No.5 : IPX4 Water test



Photo No.6 : After test



Attached photo

Photo No.7 : After test



Photo No.8 : After test



- End of report -