



# IP55 TEST REPORT

Company ..... : Impakt S.A.  
Address..... : Stanislawa Lema 16 street, 62-050, Mosina, Poland  
Sample Name ..... : IP Rated cabinets  
Model Name ..... : IP5X/FF55 cabinet series  
Brand Name ..... : N/A  
Service Requested ..... : Perform the IP55 test as customer's requirement  
Date of Report ..... : June 20, 2019  
Date of Tested ..... : June 18, 2019 to June 19, 2019

TESTING LABORATORY ..... : Shenzhen Pinliang Testing Technology Co., Ltd.  
ADDRESS ..... : Room 203, 2/F., Huafeng Xin'an Commercial Building,  
Zone 45, Xin'an Street, Bao'an District, Shenzhen,  
Guangdong, China

	Name	Signature	Date
Testing Engineer	Sam Tan		2019.06.20
Approving Manager	Tony Chen		2019.06.20

## Notes:

1. This report will be invalid if duplicated or photocopied in part.
2. This report refers only to the specimen(s) submitted to test, and is invalid as separately used.
3. This report is invalid without examination stamp and signature of this company.
4. The tested specimen(s) will be preserved for thirty days from the date issued, if not taken back by the applicant.



**1: Test item**

IP55 test

**2: Test environment**

Temperature: 24.5°C

Relative humidity: 65%RH

**3: Test sample description**

Test the sample from a customer a IP Rated cabinets.

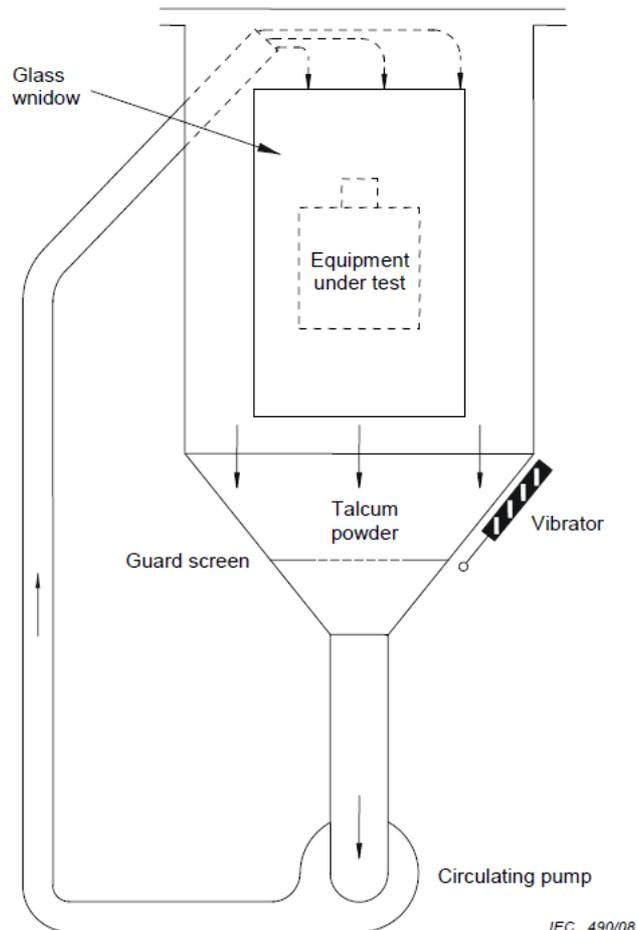
**4: Testing standard**

IEC 60529:1989+A1:1999+A2:2013(GB/T 4208-2017) Degrees of Protection provided by enclosures (IP code)

**5: Test requirement and result**

**5.2 IP5X Dust-proof Test**

**5.2.1 Test equipment**





### 5.1.2 Test method

appliance tested in a dust chamber, in which talcum powder is maintained in suspension by an air current. The chamber shall contain 2 kg of powder for every cubic meter of its volume. The talcum powder used shall be able to pass through a square-meshed sieve whose nominal wire diameter is  $50 \mu\text{m}$  and whose nominal free distance between wires is  $75 \mu\text{m}$ . It shall not have been used for more than 20 tests.

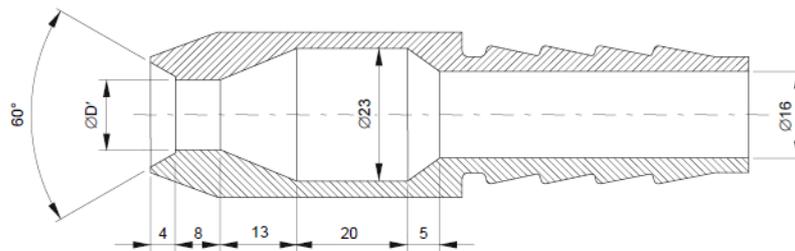
### 5.1.3 Test result

8 hours without significant dust deposition shell after the test, which recognizes test pass.

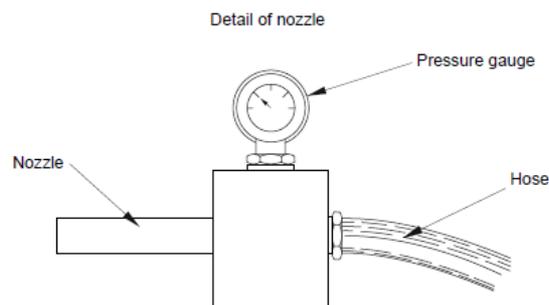
Test result: After the test, there was no dust entered.

## 5.2 IPX5 Rain-proof Test

### 5.2.1 Test equipment



$D' = 6,3 \text{ mm}$  for the test of 9.2.6 (second characteristic numeral 5)  
 $D' = 12,5 \text{ mm}$  for the test of 9.2.7 (second characteristic numeral 6)



### 5.2.2 Test method

Test for second characteristic numeral 5 with the 6,3mm nozzle.

The test is made by spraying the enclosure from all practicable direction with a stream of water from a standard the nozzle as show in Figure 6.

The conditions to be observed are as follows:

- internal diameter of the nozzle: 6,3mm;
- delivery rate:  $12,5\text{l}/\text{min} \pm 5\%$ ;
- water pressure: to be adjusted to achieve the specified delivery rated;



- core of the substantial stream: circle of approximately 40mm diameter at 2,5m distance from nozzle;
- test duration per square meter of enclosure surface area likely to be sprayed: 1min;
- minimum test duration: 3min
- distance from nozzle to enclosure surface: between 2,5m and 3m.

### 5.2.3 Test Result

Test result: After the test, there was no water entered. The sample complies with the requirements of the standard.

### 6: Test instrument used

Item	Test instrument	Model No.	Manufacturer	Serial No.	Last Cal.
1	Sand and dust test chamber	GS-SC800	Gaosheng	GOSUN201 40512-MT04	2020.01.09
2	Rain test chamber	JQ-IPX1-6	Jianqiao	JQ2014041 9-RT02	2020.01.20



**Attachment: Photos of the product:**

Photo 1

Description: Overview



Description: IPX5 Test





Description: After Test



Description: After Test





Description: After Test



Description: After Test





Description: After Test



Description: After Test



--End of report--