

**Hanstar Hardware International Ltd**

3F, North Wing, Building 14, JUDA Innovation Industry Park ,  
644 Shibe Industrial Road, Panyu, Guangzhou, China.

**The following sample(s) was/were submitted and identified on behalf of HANSTAR as:**

Sample Description :  $\Phi$ 35 One-Way Clip-On Soft-Close Excentric Hinge W/Plate

Customer No.: /

Item No.: 01367

Test Performing Date: 2025/10/20 - 2025/11/03

**Test Result Summary**

NO.	Test(s) Requested	Result(s)	Comments
1	Clause 17.6 of ANSI/BIFMA X5.5-2014	Pass	/
2	ASTM B 117-19:standard Practice for Operating Salt Spray (Fog) Apparatus	Pass	/

For further details, please refer to the following page(s)

Signed for and on behalf of

HANSTAR

Bruce Xian

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Jack Huang

Quality Manager

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**Test Conducted:** as below I and II

**General Test Condition:**

The following test program was conducted in a laboratory environment maintained at 15°C to 25°C and 50%±5RH. The sample was individually tested after conditioning in the test environment for at least 24 hours prior to conducting the test.

The results obtained for each of the applicable tests are presented in their respective section describing the procedures below.

The tests were carried out in the following order on the same sample.

**I. Clause 17.6 of ANSI/BIFMA X5.5-2014**

Clause	Test Methods & Requirements	Test Results
17.6	Wear and Fatigue Test for Hinged, Horizontally Sliding, and Tambour Doors. Cycle the testing door for a total of 50,000 cycles as specified. The cyclic rate shall be 12±4 cycles per minute unless the rate is controlled by the door operating mechanisms. After test, there shall be no loss of serviceability to the hinges.	PASS

Remark:

1. The cyclic number of 50,000 cycles is specified by applicant.
2. The dimension of The testing door is 600mmH x 500mmW x 18mmT, with weight of 3.5kg.



**II. Test Conducted: ASTM B 117-19-Standard Practice for Operating Neutral Salt Spray (fog) Apparatus (Mod.)**

**General Test Condition:**

- Test Method: Neutral Salt Spray
- Concentration of NaCl Solution: 5 Parts by mass of Sodium Chloride Dissolve in 95 parts of Water
- pH of Salt Solution: 6.5~7.2
- Measure of the salt fog fall:  $1.5 \pm 0.5$  (ml/80cm<sup>2</sup>/h)
- Test Duration: 48 hours
- Test Temperature:  $35 \pm 2$  °C

**Test Information:**

**Observation Rating (Evaluating based on ASTM D 610-08 (R2019))Test conditions:**

<p>1. The observation rating is based on ASTM D 610-08 (R2019) which is just method standard. Pass and Fail criteria will depend on buyer's acceptable specifications.</p> <p>2. The observation rating is based on the 11-step scale of 0 to 10, where 0 is bad and 10 is good.</p>	Rating	Surface Corrosion Percentage of Tested Sample
	Grade 10	A≤0.01%
	Grade 9	0.01<A≤0.03%
	Grade 8	0.03<A≤0.1%
	Grade 7	0.1<A≤0.3%
	Grade 6	0.3<A≤1.0%
	Grade 5	1.0<A≤3.0%
	Grade 4	3.0<A≤10.0%
	Grade 3	10.0<A≤16.0%
	Grade 2	16.0<A≤33.0%
	Grade 1	33.0<A≤50.0%
Grade 0	A>50%	

**Test Results**

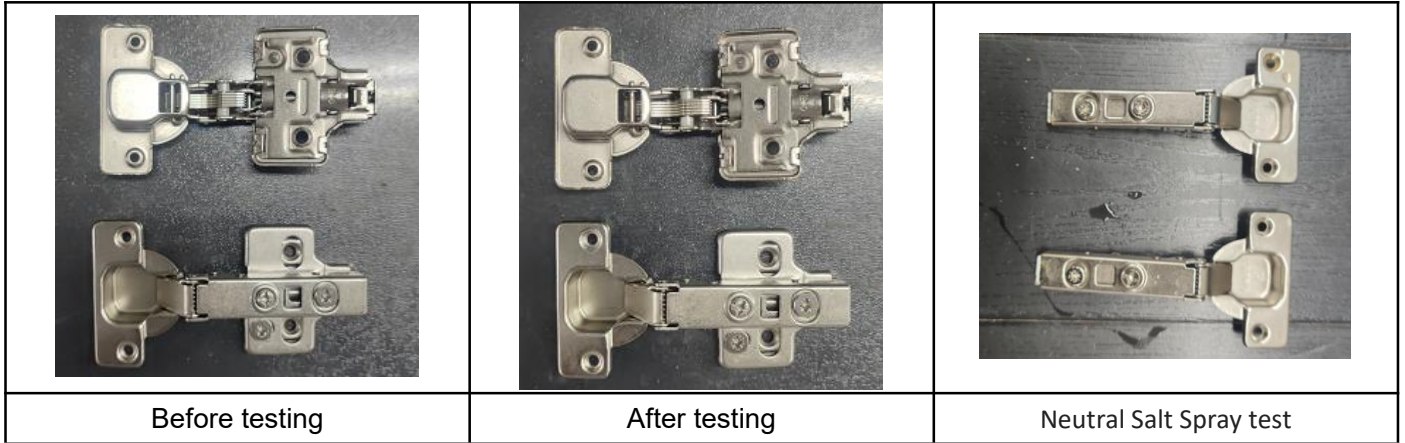
Specimen No.	Observation Rating	Requirement	Result(s)
#1	Grade 7	Grade 7 or above	Pass

**Remark:**

For the sample information and pictures, please refer to the following page.



**Photo Appendix:**



\*\*\* End of Report \*\*\*

