

Hanstar Hardware International Ltd

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

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

Sample Description : Φ 35 One-Way Clip-On Soft-Close Hinge W/Plate

Customer No.: /

Item No.: 01370101

Test Performing Date: 2025/11/23 - 2025/11/28

Test Result Summary

NO.	Test(s) Requested	Result(s)	Comments
1	Clause 17.6 of ANSI/BIFMA X5.5-2021	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

Jack Huang

Quality Manager

Hanstar Hardware International Ltd

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

Hinge durability test with reference to clause 16.6 of ANSI/BIFMA X5.5-2014

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.

I. Clause 17.6 of ANSI/BIFMA X5.5-2021**No. of Sample:**

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

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 30,000 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. Testing door size: 500mm W x 600mm H x 18mm T;
2. Weight of testing door: 3.5 kg;
3. The cyclic number of 30,000 cycles is specified by applicant.

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 ± 0.5 (ml/80cm₂/h)
- Test Duration: 24 hours
- Test Temperature: 35 ± 2 °C

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

	Rating	Surface Corrosion Percentage of Tested Sample
Grade 10	$A \leq 0.01\%$	
Grade 9	$0.01 < A \leq 0.03\%$	
Grade 8	$0.03 < A \leq 0.1\%$	
Grade 7	$0.1 < A \leq 0.3\%$	
Grade 6	$0.3 < A \leq 1.0\%$	
Grade 5	$1.0 < A \leq 3.0\%$	
Grade 4	$3.0 < A \leq 10.0\%$	
Grade 3	$10.0 < A \leq 16.0\%$	
Grade 2	$16.0 < A \leq 33.0\%$	
Grade 1	$33.0 < A \leq 50.0\%$	
Grade 0	$A > 50\%$	

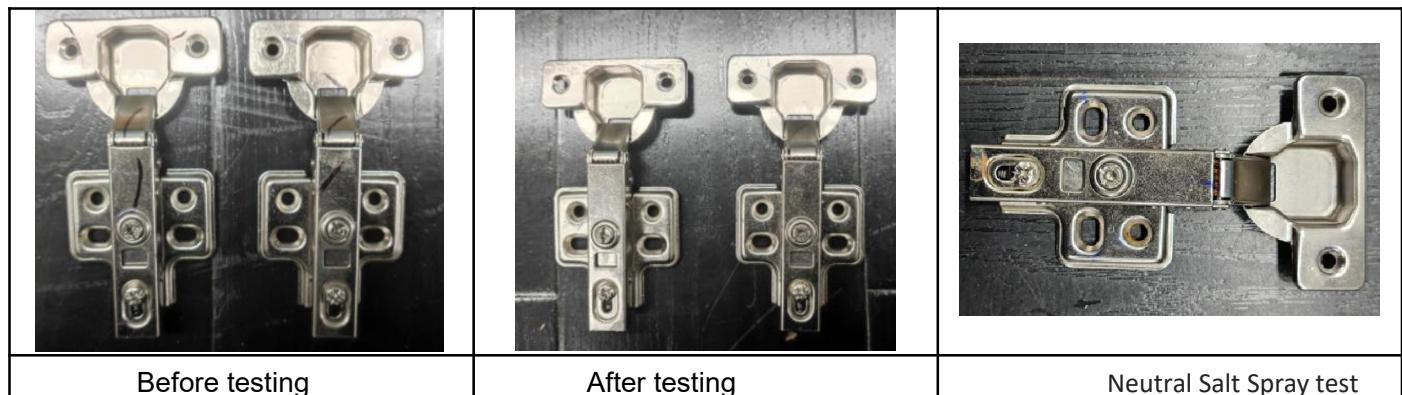
Test Results

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 *****