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

Sample Description	:	HINGE
Supplier Item No.	:	A16
Sample Receiving Date	:	Jun.14, 2017
Test Performing Date	:	Jun.14, 2017 to Jun.22, 2017

Test Result Summary

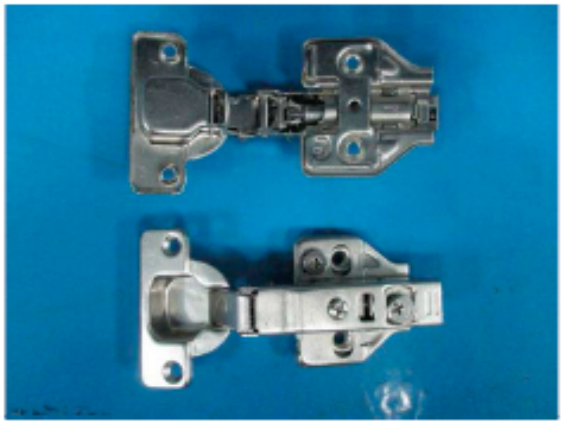
Test(s) Requested	Result(s)
Clause 6.3.7 of BS EN 15570:2008	PASS
ISO 9227-2012 (5%, 48 hours)	Grade 9

Summary:

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

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.

Caming Fan
Approved signatory



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SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch
检验检测专用章 Inspection & Testing Services
1/F,4 Building,European Industrial Park,No.1 Shunfu South Road,Wusha Section,Daliang Town,Shunde,Foshan,Guangdong,China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙顺和路段4号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

TESTS AND RESULTS

Part I. Test Conducted:
Clause 6.3.7 of EN 15570:2008 Hardware for furniture - Strength and durability of hinges and their components - Hinges pivoting on a vertical axis.

General Test Condition:
The following test program was conducted in a laboratory environment maintained at 15℃ to 25℃ and 50%±5 RH. The sample was individually tested after conditioning in the test environment for at least 24 hours prior to conducting the test.
The complete detailed procedures may be found in the referenced specification and are only summarized herein. Unless otherwise specified, the tests are carried out in the following order on the same sample.

No. of Sample:
1 pair. For more sample information and pictures, please refer to the following page.

Test and Requirements	Test Results
6.3.7 Durability test Attach two masses, 1 kg each, one on each side of the door at the middle of the vertical centerline. Fully open the door to a maximum of 130° and fully close it for the number of cycles (back and forth) according to Annex A and Annex B, without forcing built-in stops in the open position. The door shall be gently opened and closed at each cycle without forcing dampers and/or catch devices including self-opening and self-closing mechanisms. Approximately 3 s shall be used for opening and 3 s for closing the door. If the hinges have dampers and/or catch devices, including self-opening and self-closing mechanisms, these shall be allowed to operate correctly according to their function at each cycle. The recommended rate is a maximum of 6 cycles per minute with the pause in the closed position. When dampers start to function, the angular velocity should be (45 ± 20) °/s. After the test, the hinges and their components shall fulfill their functions.	PASS

Remark:
1. The dimension of the testing door is 700 mm H x 600 mm W x 19 mm T, weight: 5.0 kg;
2. The test cycles of 50000 and total load 7 kg were specified by the client.

SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch Huaxiang

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中国·广东·佛山市顺德区大良新涌办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Part II. Test Conducted:

ISO 9227-2012 Corrosion Tests in Artificial Atmospheres — Salt Spray Tests

General Test Condition:

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

The complete detailed procedures may be found in the referenced specification and are only summarized herein.

No. of Sample:

1 piece (Sample 1). For more sample information and pictures, please refer to the following page.

1. General Information:

Test Method: Neutral Salt Spray

- Concentration of NaCl Solution: 5 % Sodium Chloride Dissolve in 95 % Distill Water
- pH of Salt Solution: 6.5~7.2
- Measure of the salt fog fall: 1.5 ± 0.5 (ml/80cm^2/h)
- Test Duration: 48 hours
- Test Temperature: 35 ± 2 ℃

2. Observation Rating (Evaluating based on ISO 10289:2001)

1. The observation rating is based on ISO 10289:2001 which is just method standard. Pass and Fail criteria will depend on buyer's acceptable specifications.
2. The observation rating is based on the 11-step scale of 0 to 10, where 0 is bad and 10 is good.

Rating (R_P or R_A)	Area of defects A (%)
10	No defects
9	0 < A ≤ 0.1
8	0.1 < A ≤ 0.25
7	0.25 < A ≤ 0.5
6	0.5 < A ≤ 1.0
5	1.0 < A ≤ 2.5
4	2.5 < A ≤ 5.0
3	5.0 < A ≤ 10
2	10 < A ≤ 25
1	25 < A ≤ 50
0	50 < A

3. Test Results

Specimen No.	Observation Rating
# 1	Grade 9

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SGSCSTC Standards Technical Services Co., Ltd. Shunde Branch Fatshan
1/F,4th Building,European Industrial Park,No.1 Shunhe South Road,Rusha Section,Daliang Town,Shunde,Foshan,Guangdong,China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良新城办事处五沙顺和南路4号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

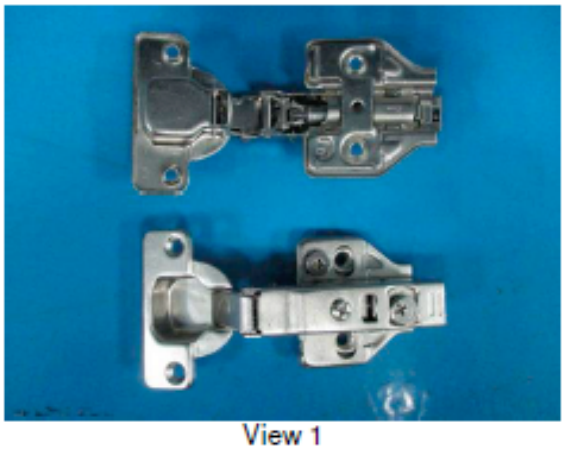
SAMPLE INFORMATION AND PICTURES

Weight: 113.0 g/piece

Cup Diameter: 35 mm

Other Dimensions: /

Sample as Received



View 1



View 2



View 3

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1/F,4th Building,European Industrial Park,No.1 Shunhe South Road,Aocha Section,Daliang Town,Shunde,Foshan,Guangdong,China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn

中国·广东·佛山市顺德区大良新通办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Test Pictures with Details



Sample #1 after salt spray test - View 1



Sample #1 after salt spray test - View 2



Sample #1 after salt spray test - View 3



Sample #1 after salt spray test - View 4

End of Report

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