



Certificate No.: SDHLV19040002FT

Date of Issue: May 15, 2019

Test Certificate

This certificate confirms that the

SLIDING DOOR SYSTEM: SUBMARINE SERIES (S, 4, 5, 6, 7, 9, 10)

Supplied by

ZHONGSHAN OPIKE HARDWARE PRODUCT CO., LTD.

(Address: BUILDING 5, 6 NO. 46 GUANGFU ROAD, YONGNING,
XIAOLAN TOWN, ZHONGSHAN CITY, GD, CHINA)

has been tested at SGS-CSTC Standards Technical Services Co., Ltd. Shunde Hardlines Lab. and successfully satisfied the applicable test requirements from:

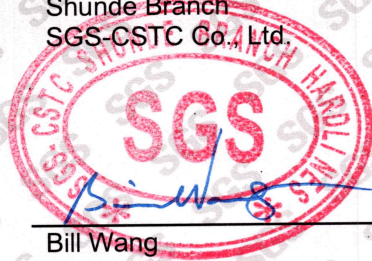
EN15706:2009 Level 3

Additional 10000 cycles durability test

According to the standard the SUBMARINE SERIES is therefore considered to be functionally suitable and sufficiently strength and durability for horizontal sliding door use as a sliding door fitting for up to 50 kg loading weight and up to 50000 cycles durability.

Report Reference: SDHL1901001350FT-01

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



Bill Wang
Approved signatory

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SGS-CSTC Standards Technical Services Co., Ltd. Shunde Hardlines Lab.

Building 1 of European Industry Park, No. 1 Shunhenan Road, Wusha Section, Daliang Town, Shunde of Foshan, Guangdong Province, China, 528333

SGS

证书编号: SDHLV19050018FT

日期: 2019-05-15

检测证书

兹证明

中山市欧派克五金制品有限公司

(地址: 广东省中山市小榄镇永宁广福路 46 号 5、6 幢)

送检的

移门滑轮系统: 潜艇 (S、4、5、6、7、9、10)

已经在通标标准技术服务有限公司顺德轻工产品实验室完成了相关检测, 结果都满足了以下适用的检测要求:

EN15706:2009 等级 3
额外增加的 10000 次耐久性测试

依据标准要求, 潜艇系列滑动门装置的功能适用性和强度及耐用性可以满足重量达 50 kg 且使用寿命达 50000 次的水平滑动门使用。

引用报告: SDHL1901001351FT-01

通标标准技术服务有限公司
顺德分公司
授权代表签署



汪国琴
批准签署人

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通标标准技术服务有限公司顺德轻工产品实验室

中国广东佛山市顺德区大良街道办事处顺和南路 1 号欧洲工业园 1 号厂房首层 邮编, 528333

Test Report

No.: SDHL1901001350FT-01

Date: May 14, 2019

Page 1 of 5

ZHONGSHAN OPIKE HARDWARE PRODUCT CO., LTD.
 BUILDING 5, 6 NO. 46 GUANGFU ROAD, YONGNING, XIAOLAN TOWN,
 ZHONGSHAN CITY, GD, CHINA



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

Sample Description : SLIDING DOOR SYSTEM
 Style / Item No. : SUBMARINE SERIES(S, 4, 5, 6, 7, 9, 10)
 Other Info : BRAND: OPK

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Jan.21, 2019
 Test Performing Date : Jan.21, 2019 to Apr.01, 2019

Test Result Summary

Test(s) Requested	Result(s)
BS EN 15706:2009 (Level 3) with additional 10000 cycles durability test.	PASS

Summary:

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

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



Bill Wang

Bill Wang
 Approved signatory

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SDHL 165535

TESTS AND RESULTS

Test Conducted:

BS EN 15706:2009 Hardware for furniture – Strength and durability of slide fittings for sliding doors and roll fronts.

No. of Sample:

1 set for overload test, 1 set for functional test, 1 set for corrosion resistance test.

Test type of door:

Horizontal sliding doors Horizontal roll fronts Vertical sliding doors Vertical roll fronts

Maximum rated capacity: 50 kg.

Test level: Level 1 Level 2 Level 3

Test door parameters used in this test:

Standard door specified in Annex B:

Height: / mm Width: / mm Thickness: / mm Mass: / kg.

Door specified by manufacturer:

Height: 1840 mm Width: 960 mm Thickness: 18 mm Mass: 20 kg.

Travel length: 1760 mm

Test and Requirements	Test Results
6 Horizontal sliding doors and roll fronts	
6.2 Overload test	
6.2.2 Slam test for slide fittings with built-in end stops Test mass: $m_1 + m_2$ (Level 1 = 2 kg, Level 2 = 3 kg, Level 3 = 4 kg) Movement: 300 mm Stopping position: 10 mm Cycles: 10 times The sliding door/roll front, the fittings and their components shall not become detached.	PASS Test mass: 5 kg
6.2.3 Pull-out test Upward force: Level 1=150 N, Level 2 = 200 N, Level 3 = 250 N Angle: 10° The sliding door/roll front, the fittings and their components shall not become detached.	PASS Force: 250 N
6.2.4 Horizontal static load test Force: Level 1=150 N, Level 2 = 200 N, Level 3 = 250 N Cycles:10 times The sliding door/roll front, the fittings and their components shall not become detached.	PASS Force: 250N
6.3 Functional tests	
6.3.2 Operating forces When the door mass is < 40 kg, the opening and closing forces shall not exceed 50 N. When the door mass is ≥ 40 kg, the opening and closing forces shall not exceed 12.5 % of the maximum door mass.	PASS Opening force: 35.0 N Closing force: 35.0 N
6.3.3 Closing function, fittings with self-closing mechanisms Before and after the durability test check that the self-closing mechanisms.	PASS

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Test and Requirements	Test Results
<p>6.3.5 First slam shut/open Test mass: $m_1 + m_2$ (Level 1 = 2 kg, Level 2 = 2 kg, Level 3 = 2 kg) Movement: 300 mm Stopping position: 10 mm Cycles: 5 times After the test, the slide fittings and their components shall fulfil their functions.</p>	<p>PASS Test mass: 3 kg</p>
<p>6.3.6 Durability Average speed: 0.25 ± 0.1 m/s Speed v at the beginning of the self-closing or catch operation: $v = 35/(95+M)$ [m/s] Cycles: Level 1 = 10000, Level 2 = 20000, Level 3 = 40000 After the test, the slide fittings and their components shall fulfil their functions.</p>	<p>PASS Cycles: 50000 See remark 2</p>
<p>6.3.7 Second slam shut/open Test mass: $m_1 + m_2$ (Level 1 = 2 kg, Level 2 = 2 kg, Level 3 = 2 kg) Movement: 300 mm Stopping position: 10 mm Cycles: 5 times After the test, the slide fittings and their components shall fulfil their functions.</p>	<p>PASS Test mass: 3 kg</p>
<p>6.3.8 Sagging For doors weighing less than 40 kg the sagging shall not exceed 2 mm; For doors weighing more than 40 kg the sagging shall not exceed 0.05 mm per 1 kg mass up to a maximum of 5 mm.</p>	<p>PASS Sagging: 0.5 mm</p>
<p>7 Vertical sliding doors and roll fronts</p>	
<p>7.2 Overload tests</p>	
<p>7.2.2 Slam shut/open - For the door falling freely: Fall freely from the point of equilibrium, or at least 300 mm from fully closed/open. - For the door not falling freely: Test mass: $m_1 + m_2$ (Level 1 = 2 kg, Level 2 = 3 kg, Level 3 = 4 kg) Movement: 300 mm Stopping position: 10 mm Cycles: 10 times The sliding door/roll front, the fittings and their components shall not become detached</p>	<p>N/A</p>
<p>7.2.3 Horizontal static load test Force: Level 1=150 N, Level 2 = 200 N, Level 3 = 250 N Cycles: 10 times The sliding door/roll front, the fittings and their components shall not become detached.</p>	<p>N/A</p>
<p>7.3 Functional tests</p>	
<p>7.3.2 Operating forces When the door mass is < 40 kg, the opening and closing forces shall not exceed 50 N. When the door mass is ≥ 40 kg, the opening and closing forces shall not exceed 12.5 % of the maximum door mass.</p>	<p>N/A</p>



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Test and Requirements	Test Results
<p>7.3.3 First slam shut/open - For the door falling freely: Fall freely from the point of equilibrium, or at least 300 mm from fully closed/open. - For the door not falling freely: Test mass: $m_1 + m_2$ (Level 1 = 2 kg, Level 2 = 3 kg, Level 3 = 4 kg) Movement: 300 mm Stopping position: 10 mm Cycles: 5 times After the test, the fittings and their components shall fulfil their functions.</p>	N/A
<p>7.3.4 Durability Average speed: 0.25 ± 0.1 m/s Cycles: Level 1 = 5000, Level 2 = 10000, Level 3 = 20000 After the test, the slide fittings and their components shall fulfil their functions.</p>	N/A
<p>7.3.5 Second slam shut/open - For the door falling freely: Fall freely from the point of equilibrium, or at least 300 mm from fully closed/open. - For the door not falling freely: Test mass: $m_1 + m_2$ (Level 1 = 2 kg, Level 2 = 3 kg, Level 3 = 4 kg) Movement: 300 mm Stopping position: 10 mm Cycles: 5 times After the test, the fittings and their components shall fulfil their functions.</p>	N/A
<p>8 Corrosion resistance test 3 cycles AHT. With the exception of cutting edges, screw slots, rivet heads, aluminium and moulded parts of zinc, all parts which are visible when the rollers are mounted shall show no corrosion. The function shall be maintained.</p>	PASS

Remark:

1. N/A – Not applicable; N/R – Not Requested; N/P – Not provided.
2. According to the manufacture's requirement, added 10000 cycles, total 50000 cycles for durability tests after 40000 cycles specified by the standard with level 3.
3. According to the standard and the manufacture's requirements, just evaluated the visible parts after mounted for the corrosion resistance test.
4. According to client's statements, the Style/Item No. as stated on the first page are identical to test sample.
5. This test report is to supersede No. SDHL1901001350FT test report which was issued on Apr.04, 2019. And the original test reports (paper and electronic) are invalid.

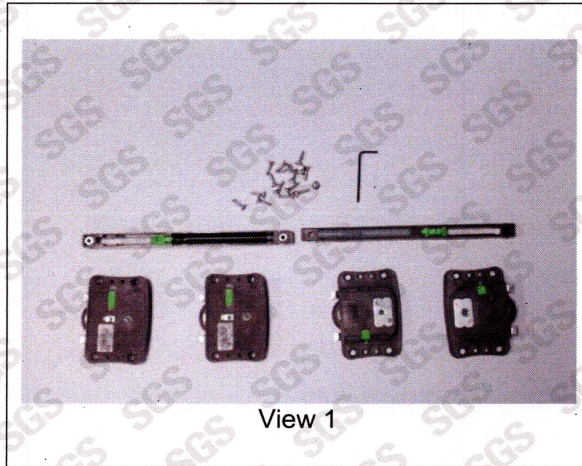


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SAMPLE INFORMATION AND PICTURES

Weight: 0.40 kg

Sample as Received



View 1

End of Report

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SDHL 165539

检测报告

编号: SDHL1901001351FT-01 日期: 2019-05-14 页码: 第 1 页共 5 页

中山市欧派克五金制品有限公司
广东省中山市小榄镇永宁广福路 46 号 5、6 幢



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到样日期 : 2019-01-21
 检验日期 : 2019-01-21 至 2019-04-01

检测结果总结

检测依据	结果
BS EN 15706:2009 (3 级) 和额外增加的 10000 次耐久性测试	符合

概要:

1. 如果想了解检测结果的细节, 请查看下述的检测结果页。

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SDHL 165540

测试及结果

测试依据:

BS EN 15706:2009 家具五金 - 滑动门和卷门滑动装置的强度及耐久性.

样品数量:

1 套过载测试, 1 套功能性测试, 1 套抗腐蚀测试.

门的类型:

水平滑动门 水平卷门 垂直滑动门 垂直卷门

最大额定载重量: 50 kg.

测试级别: 1 级 2 级 3 级

测试中用到的测试门规格:

附录中指定的标准门:

高度: / mm 宽度: / mm 厚度: / mm 重量: / kg.

厂商指定的门:

高度: 1840 mm 宽度: 960 mm 厚度: 18 mm 重量: 20 kg.

滑行长度: 1760 mm

测试及要求	测试结果
6 水平滑动门和卷门	
6.2 过载测试	
6.2.2 滑动装置内置限位的猛开关 试验载荷: $m_1 + m_2$ (1级 = 2 kg, 2级 = 3 kg, 3级 = 4 kg) 移动距离: 300 mm 停止位置: 10 mm 次数: 10 次 滑动门/卷门及其装置和部件不应松脱。	符合 试验载荷: 5 kg.
6.2.3 拉出测试 向上力: 1级=150 N, 2级 = 200 N, 3级 = 250 N 角度: 10° 滑动门/卷门及其装置和部件不应松脱。	符合 向上力: 250 N
6.2.4 水平静载荷测试 力: 1级=150 N, 2级 = 200 N, 3级 = 250 N 次数: 10 次 滑动门/卷门及其装置和部件不应松脱。	符合 水平力: 250 N
6.3 功能性测试	
6.3.2 操作力 门重 < 40 kg, 开关力 ≤ 50 N. 门重 ≥ 40 kg, 开关力不超门重的12.5 %	符合 开启力: 35.0 N 关闭力: 35.0 N

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SDHL 165541

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测试及要求	测试结果
6.3.3 自动关闭装置的关闭功能 耐久性前后检查自动关闭装置的关闭功能。	符合
6.3.5 首次猛开关 试验载荷: $m_1 + m_2$ (1级 = 2 kg, 2级 = 2 kg, 3级 = 2 kg) 移动距离: 300 mm 停止位置: 10 mm 次数: 5 次 测试后, 滑动装置和部件应保持其功能。	符合 试验载荷: 3 kg.
6.3.6 耐久性 平均速度: 0.25 ± 0.1 m/s 自动关闭或吸住功能开始时速度: $v = 35/(95+M)$ [m/s] 次数: 1级 = 10000, 2级 = 20000, 3级 = 40000 测试后, 滑动装置和部件应保持其功能。	符合 次数: 50000 见备注 2
6.3.7 末次猛开关 试验载荷: $m_1 + m_2$ (1级 = 2 kg, 2级 = 2 kg, 3级 = 2 kg) 移动距离: 300 mm 停止位置: 10 mm 次数: 5 次 测试后, 滑动装置和部件应保持其功能。	符合 试验载荷: 3 kg.
6.3.8 下沉 门重 < 40 kg, 下沉量应不大于 2 mm; 门重 > 40 kg, 下沉量不应超过每公斤门重的 0.05 mm, 但最大不应超过 5 mm.	符合 位移: 0.5 mm
7 垂直滑动门和卷门	
7.2 过载测试	
7.2.2 猛开关 - 自由滑落的门: 从平衡点自由滑落, 或至少从距完全开关位置的300mm自由滑落。 - 非自由滑落门: 试验载荷: $m_1 + m_2$ (1级 = 2 kg, 2级 = 3 kg, 3级 = 4 kg) 移动距离: 300 mm 停止位置: 10 mm 次数: 10 次 滑动门/卷门及其装置和部件不应松脱。	不适用
7.2.3 水平静载荷测试 力: 1级=150 N, 2级 = 200 N, 3级 = 250 N 次数: 10 次 滑动门/卷门及其装置和部件不应松脱。	不适用
7.3 功能性测试	
7.3.2 操作力 门重 < 40 kg, 开关力 ≤ 50 N. 门重 ≥ 40 kg, 开关力不超门重的12.5 %	不适用



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测试及要求	测试结果
<p>7.3.3 首次猛开关</p> <p>- 自由滑落的门: 从平衡点自由滑落, 或至少从距完全开关位置的300mm自由滑落。</p> <p>- 非自由滑落门: 试验载荷: $m_1 + m_2$ (1级 = 2 kg, 2级 = 3 kg, 3级 = 4 kg) 移动距离: 300 mm 停止位置: 10 mm 次数: 5次 滑动门/卷门及其装置和部件不应松脱。</p>	不适用
<p>7.3.4 耐久性</p> <p>平均速度: 0.25 ± 0.1 m/s 次数: 1级 = 5000, 2级 = 10000, 3级 = 20000 测试后, 滑动装置和部件应保持其功能。</p>	不适用
<p>7.3.5 末次猛开关</p> <p>- 自由滑落的门: 从平衡点自由滑落, 或至少从距完全开关位置的300mm自由滑落。</p> <p>- 非自由滑落门: 试验载荷: $m_1 + m_2$ (1级 = 2 kg, 2级 = 3 kg, 3级 = 4 kg) 移动距离: 300 mm 停止位置: 10 mm 次数: 5次 滑动门/卷门及其装置和部件不应松脱。</p>	不适用
<p>8 抗腐蚀测试</p> <p>3 循环 AHT. 测试后, 除了切开、螺纹槽、铆钉头、铝及镀锌铸造件之外, 所有安装后可以看见的部件不应腐蚀, 并保持正常的功能。</p>	符合

备注:

1. 本报告是编号为 SDHL1901001350FT-01 英文检测报告的中文译本, 如有歧义, 以英文版本为准。
2. 根据生产商的要求, 在完成标准规定的等级 3 的 40000 次耐久性测试后, 额外增加 10000 次, 共 50000 次。
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SDHL 165543

样品信息和图片

重量: 0.40 kg.

样品图片

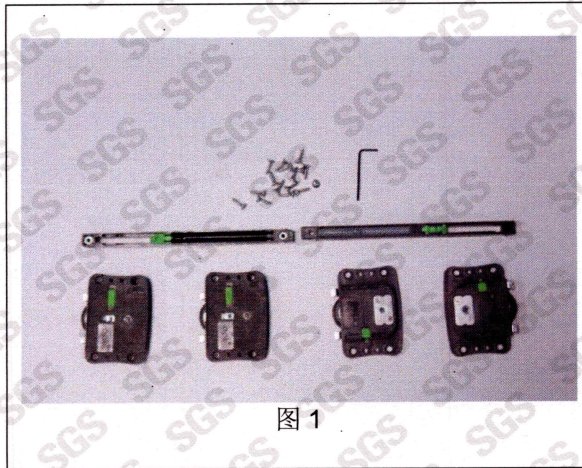


图 1

报告结束

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