



Test Report

Report Number: 170122100GZU-001

Applicant Name : Roca Industry AB Taiwan Branch
Applicant Address : 10FL, No.3, Guyfeng St, Tayshan district, New Taipei city, Taiwan
Attn : David

Report Date : February 28, 2017

Sample Description: Glass door hinge, model: 860880/1/2/3, rated door weight: 60 kg, four models have same material and construction except for the finish, difference are listed as below table:

Model	Finish
860880	Painted white RAL-9010 Glossy 30-40
860881	Painted grey RAL-9006 Glossy 30-40
860882	Satin nickel plated and clear varnish
860883	Painted black RAL 9005 Glossy 30

Model 860882 was subjected durability test, and Model 860880/1/3 were evaluated based on the test data of Model 860882. Refer to Appendix A product photos for detailed appearance.

This report pertains only to the sample model listed in the Product Description section of this report. The evaluated production model was submitted via the client's own courier on January 18, 2017. These samples were evaluated between February 6, 2017 and February 24, 2017 and were received in good condition at the Intertek Guangzhou laboratory located at Block E, No.7-2 Guang Dong Software Science Park, Cai Pin Road, Science city, Guangzhou Economic Development Zone, Guangzhou, P. R. China.

Conclusion: The submitted samples were tested according to durability test (25 000 cycles) refer to EN 1935:2002/AC:2003 clause 7.5, and the test result refer to Page 2 for details.

Should you have any query on this report, you may contact at Ivy.Guo@intertek.com

Approved by:

Prepared by:

Credy Chen
Supervisor

Yubin Deng
Engineer

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The conclusions of this test report may no be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

TTRF-PERF-02-EN Approved Date: May 5, 2014

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Test Items, Method and Results:

*When determining the test result, measurement uncertainty has been considered.
If related to subcontract, the remark* for the test items conducted by a subcontractor.*

Performance			
Test Items	Method - Test	Results - Remark	Verdict
-	<p>Durability Test Mount the hinge on the test apparatus specified in 6.1 using the appropriate method specified in 6.3. Ensure that the hinge has not previously been subjected to any other tests. Rotate the hinged element through the lesser of $92,5^\circ \pm 2,5^\circ$ or the full angular movement permitted by the hinge for 20 cycles without shock. Measure and record the torque required to initiate movement of the hinged element at opening angles of $0^\circ \pm 5^\circ$, $30^\circ \pm 5^\circ$, $60^\circ \pm 5^\circ$ and $90^\circ \pm 5^\circ$. Measure and record the initial horizontal and vertical gaps between the hinged element and the datum surfaces. Measure and record the torque on the fixing screws at the beginning and end of the test. Operate the hinged element through the lesser of $92,5^\circ \pm 2,5^\circ$ or the full angular movement permitted by the hinge for the appropriate number of cycles specified in Table 1. Ensure that each cycle commences with the hinge fully closed and the speed of operation is (600 ± 30) cycles per hour.</p>	<p>Door mass:60 kg Door width:1000 mm Hinge distance: 1540 mm.</p> <p>Before the durability test, initial friction torque measurements: 0 degree: 1,8 Nm 30 degree: 1,6 Nm 60 degree: 1,5 Nm 90 degree: 1,4 Nm</p> <p>After 25 000 cycles, all the parts remain operational and not require any adjustment. Final friction torque measurements: 0 degree: 2,0 Nm 30 degree: 1,7 Nm 60 degree: 1,6 Nm 90 degree: 1,5 Nm. Lateral wear of the hinge: 0,06 mm Vertical wear of the hinge: 0,18 mm.</p> <p>Note: Intertek was not involved in sampling.</p>	-

Appendix A
Sample Photo



Glass door hinge, model: 860882

Appendix A
Sample Photo



Glass door hinge, model: 860880

Appendix A
Sample Photo



Glass door hinge, model: 860881

Appendix A
Sample Photo



Glass door hinge, model: 860883



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Revision Summary

DD/MM/YYYY	Engineer/ Reviewer	Page #	Project No	Reason for revision
February 28, 2017	Yubin Deng/ Credy Chen	--	170122100GZU-001	First issue

The End of The Report