

Prüfbericht - Nr.:

Test Report No.: 174005720/GZF/01-02

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Auftraggeber:

Client:

 TRADE SECRET

Gegenstand der Prüfung:

Test item:

Furniture Soft Close Hinge

Bezeichnung:

Identification:

W093

Serien-Nr.:

Serial No.:

-

Wareneingangs-Nr.:

Receipt No.:

174005720-02-A01~B01

Eingangsdatum:

Date of receipt:

October 09, 2012

Zustand des Prüfgegenstandes bei Anlieferung:

Condition of test item at delivery:

No visual damage before testing

Prüfört:

Testing location:

Unit 201, NO.7 Caipin Road GZ Science City, Guangzhou 510663, P.R. China

Prüfgrundlage:

Test specification:

Clause 17.2, 17.3, 17.6, 17.10 of BIFMA X5.5: 2008

Prüfergebnis:

Test Result:

The test item PASSED the test specification(s).

Prüflaboratorium:

Testing Laboratory:

Furniture Testing Laboratory

TÜV Rheinland (Guangdong) Ltd.

geprüft/ tested by:



November 19, 2012 Jason Rao / PE

kontrolliert/ reviewed by:



November 19, 2012 Waley Huang / TC

Datum	Name/Stellung	Unterschrift	Datum	Name/Stellung	Unterschrift
Date	Name/Position	Signature	Date	Name/Position	Signature

Sonstiges/ Other Aspects:

Test period: October 10, 2012 to November 16, 2012

Test order: Test requirements for Mechanical character

Abkürzungen: P(ass) = entspricht Prüfgrundlage
F(ail) = entspricht nicht Prüfgrundlage
N/A = nicht anwendbar
N/T = nicht getestet

Abbreviations: P(ass) = passed
F(ail) = failed
N/A = not applicable
N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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Verwendete Meßgeräte/Prüfmittel/Equipmentlist

Prüfmittel/Equipment	Gerätenummer/ Ident.-Nummer Barcode-Nummer Equipment number	nächste Kalibrierung/ Überwachung next calibration/ surveillance
Ruler (1m)/ Tape	1.193U	2014-12-21
Electric Balance (20g)	1.193P	2013-04-25
Digital force gauge (500N)	1.193	2013-01-16
Door tester	3.070R	Initial check only

Sample Information:

TÜV Rheinland LGA Products · Tillystrasse 2 · D-90431 Nürnberg · Tel.: +49 911 655 5225 · Fax +49 911 655 5226
Mail: service@de.tuv.com · Web: www.tuv.com

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Received on:	First sample: October 09, 2012 Improved sample: November 14, 2012
Product Description:	Furniture Soft Close Hinge
Testing is:	First Time <input checked="" type="checkbox"/> Retest <input type="checkbox"/> Previous Report #:
Revised Report:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Reason For Revision:	-

Product pictures:


Pic. 1: Hinge (top & back view)



Pic. 2: Hinge mounted with a door (1)



Pic. 3: Hinge mounted on a cabinet (2)

Dimensions:

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Height (hinge):	50 mm	Length (door):	920 mm
Width (hinge):	145 mm	Width (door):	292 mm
Depth (hinge):	67 mm	Weight (door):	3.76 kg
Weight (1 piece hinge):	0.2 kg		

General tolerances: Unless otherwise specified the accuracy of the linear dimension is defined according to DIN 7168-g relating to old design and DIN ISO 2768 part 1 „c“ for new design. For all other physical dimensions the uncertainty of measurement shall have an accuracy of < 5 % of the nominal force. The tests are performed in common room climate.

Objections:

None

Recommendation:

None

Remark(s):

- Per client's request, only following tests were performed in this report:
 - Strength Test for vertically-Hinged Doors, Bi-fold Doors, and Vertically Receding Doors
 - Hinge Override Test for Vertically-Hinged Doors
 - Wear and Fatigue Tests for Hinged, Horizontally Sliding, and Tambour Doors
 - Slam Closed Test for Vertically Hinged and Vertically Receding Doors

Reference test standard(s) for Mechanical tests

ANSI BIFMA X5.5: 2008	American National Standard For Office Furnishings – Desk Products
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Mechanical Character:

Attribute	Test Method/Standard	Requirement / Limit	Results
Strength Test for vertically-Hinged Doors, Bi-fold Doors, and Vertically Receding Doors	ANSI / BIFMA X5.5-2008 clause 17.2	Attach a load so that its weight is evenly distributed on both sides of the door and so that its center of gravity acts 4 inches from the edge of the door opposite the hinge. Cycle the door 10 times from a position 45° from fully closed to a position 10° from fully open and return. Door height<46cm: Load 10kg (22lbs) Door height>= 46cm: Load 20kg (44lbs)	First sample 1: Passed (load: 20kg)
Hinge Override Test for Vertically-Hinged Doors	ANSI / BIFMA X5.5-2008 clause 17.3	Apply a 60N (13.5 lbf.) horizontal force perpendicular to the plane of the door on its horizontal centerline 100mm (4in) from the edge farthest from the hinge.	First sample 1: Passed
Wear and Fatigue Test for Doors/Hinge	ANSI / BIFMA X5.5-2008 clause 17.6	Cycle the door 10 times from a position 10° from fully closed to a position 10° from fully open and return, not to exceed a maximum swing angle of 90°. Cycle the door 20,000 times.	Improved sample 1: Passed

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Attribute	Test Method/Standard	Requirement / Limit	Results
Slam Closed Test for Vertically Hinged and Vertically Receding Doors	ANSI / BIFMA X5.5-2008 clause 17.10	a) Load door shelves according to table 1 plus 2kg (4.5lbs) b) Open the door through an angle of 30° so that the force gauge, perpendicular to the door, indicates a 20 lbf. c) Release the door allowing it to close. Repeat steps (a) and (c) for a total of 10 times.	First sample 1: Passed

The tests were carried out in indoor ambient conditions at a temperature between 15 °C – 25 °C.

Note: The test results exclusively base on the presented samples. Detailed information regarding measurement uncertainty is available in the test lab and could be shown on customer's request.

- End of Test Report -