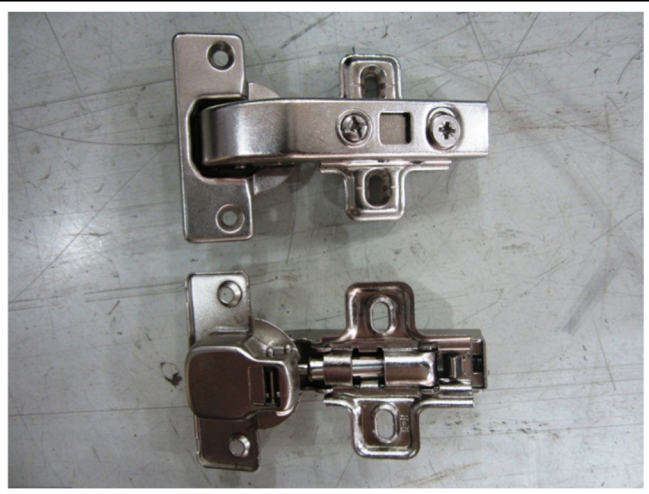


Prüfbericht-Nr.: Test Report No.:	174014080/GZF/01-01	Auftrags-Nr.: Order No.:	174014080	Seite 1 von 6 Page 1 of 6
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	21.08.2013	
Auftraggeber: Client:	🔒 TRADE SECRET			
Prüfgegenstand: Test item:	Soft closing hinge			
Bezeichnung / Typ-Nr.: Identification / Type No.:	Hinge(s) / T90			
Auftrags-Inhalt: Order content:	Partial mechanical safety test			
Prüfgrundlage: Test specification:	EN 15570: 2008			

Wareneingangsdatum: Date of receipt:	21.08.2013
Prüfmuster-Nr.: Test sample No.:	A000021569-001~004
Prüfzeitraum: Testing period:	21.08.2013 – 27.08.2013
Ort der Prüfung: Place of testing:	🔒 TRADE SECRET
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Guangdong) Ltd.
Prüfergebnis*: Test result*:	Pass



geprüft von / tested by: 04.09.2013 Kingsley He / TE	kontrolliert von / reviewed by: 04.09.2013 Waley Huang / Reviewer				
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position	Unterschrift Signature

Sonstiges / Other:

Partial Mechanical safety test for domestic use and following the parameter "column 2" according to Table B.2 and Table B.3 of EN 15570: 2008

Zustand des Prüfgegenstandes bei Anlieferung:
Condition of the test item at delivery:

Prüfmuster vollständig und unbeschädigt
Test item complete and undamaged

* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable	5 = poor 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 only relates to the a. m. test sample. 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 test mark.

v04

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Liste der verwendeten Prüfmittel
List of used test equipment

Prüfmittel <i>Test equipment</i>	Prüfmittel-Nr. / ID-Nr. <i>Equipment No. / ID-No.</i>	Nächste Kalibrierung <i>Next calibration</i>
Ruler (1m) / Tape	1.193U	2014-12-20
Electric Balance (20g)	1.193P	2014-03-28
Digital caliper (200mm)	1.193H	2015-03-28
Digital force gauge (200N)	1.193A	2014-03-28
Electric Balance (0.5g)	1.041E	2013-11-22
Digital height gauge	1.GZF.0010	2013-12-19
Door tester	3.070R	Initial check only

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Test Report No.:

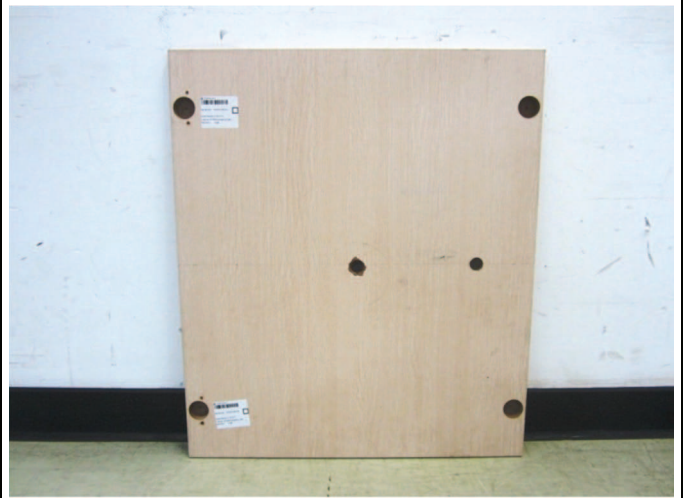
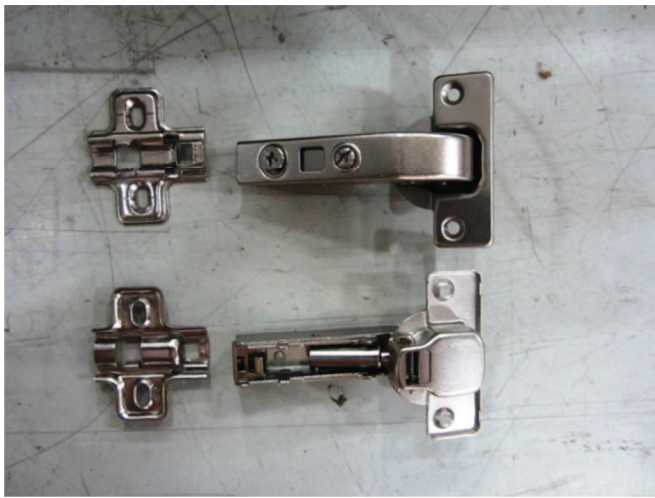
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Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i>	See page 5
2	Maße / Gewicht <i>Dimensions / Weight</i>	See page 5
3	Bedienelemente <i>Operating elements</i>	See page 5
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	N/A
5	Verwendete Materialien <i>Used materials</i>	Metal
6	Sonstiges <i>Other</i>	N/A

Pic. 1: Overview of hinge

Pic. 2: Overview of door for test



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Absatz	EN 15570: 2008	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

EN 15570: 2008 Hardware for furniture – Strength and durability of hinges and their components – Hinges pivoting on a vertical axis

1	Scope		
2	Normative references		
3	Terms and definitions		
4	General test conditions		
5	Test apparatus		
6	Test methods and requirements		
6.1	General		/
6.2	Overload tests	(refer to Note #1)	/
6.2.1	Vertical static overload		N/T
6.2.2	Horizontal static overload		N/T
6.3	Functional tests	Test parameter see Annex B	/
6.3.1	General		
6.3.2	Operating forces		/
6.3.2.1	General		
6.3.2.2	Closing force, hinges with self-closing mechanisms (≥ 0,5 N)	Before durability test: 3.5 N After durability test: 1.1 N	P
6.3.2.3	Opening and closing forces (< 20 N)	Before durability test: 4.7 N After durability test: 10.2 N	P
6.3.3	1 st vertical static load test		P
6.3.4	1 st horizontal static load		P
6.3.5	Slam shut		P
6.3.6	Determination of referent point for the door sagging		/
6.3.7	Durability (0° to max. 130°)	Load and test rate used: 2 kg, 6 cycles / min	P
6.3.8	Deflection (sagging) test (≤ 0.5 % of width of the door)	Z = 1.06 mm ≤ 3 mm	P
6.3.9	2 nd vertical static load		P
6.3.10	2 nd horizontal static load		P
6.4	Corrosion resistance (EN ISO 6270-2) Requirement: 3 cycles AHT	(refer to Note #1)	N/T
7	Test report		
Annex A	(normative) Product Information system	(refer to Note #1)	/
A.1	General		
A.2	Field of application		N/T
A.3	The mass and size of the door		N/T
A.4	Adjustment systems and spring and damper mechanisms		N/T
A.5	Corrosion test		N/T

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Annex
B

(normative) Test parameter

Table B.2 – Overload tests				
Clause / Test	Unit	Loads		
		1	2	3
6.2.1 Vertical static overload	kg	-	20	30
6.2.2 Horizontal static overload	N	-	60	60

Table B.3 – Functional tests				
Clause / Test	Unit	Loads and cycles		
		1	2	3
6.3.3 and 6.3.9 Vertical static load	kg	10	15	20
6.3.4 and 6.3.10 Horizontal static load	N	25	30	40
6.3.5 Slam shut (m ₂)	kg	2	3	4
6.3.5 Additional slam shut for doors with dampers (m ₂)	kg	min. 1, max. 2	min. 1, max. 2	min. 1, max. 2
6.3.7 Durability	cycles	20 000	40 000	60 000

Note:

#1. Only functional tests were performed per customer's request.

Dimensions:

Hinge

Height: 62 mm
Width: 40 - 73 mm
Depth: 85 - 90 mm
Hinge cup diameter: Ø 36 mm
Weight: 111.8 g

Door

Height: 700 mm
Width: 600 mm
Thickness: 19 mm
Weight: 5.28 kg

with damper

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Absatz	EN 15570: 2008	Messergebnisse - Bemerkungen	Bewertung
<i>Clause</i>	<i>Anforderungen - Prüfungen / Requirements - Tests</i>	<i>Measuring results - Remarks</i>	<i>Evaluation</i>

Remark:

- Clause(s) with the symbol “ / ” in the result refers to the result(s) of its sub-clause(s).
- This test report does not give evidence of the compliance of relevant standard(s) by the submitted sample but only the requested test(s).
- Detailed information regarding measurement uncertainty is available in the test laboratory(s) and could be shown on client request. Deviation report in Simplified Chinese is available on client's request.

*** End of test report ***