

Prüfbericht-Nr.: Test Report No.:	50249492 001Rv1	Auftrags-Nr.: Order No.:	170109380	Seite 1 von 6 Page 1 of 6	
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	19.06.2019		
Auftraggeber: Client:					
Prüfgegenstand: Test item:	35mm clip on soft closing hinge, with steel damper inside the plastic cage,				
Bezeichnung / Typ-Nr.: Identification / Type No.:	A1916+C19TH01				
Auftrags-Inhalt: Order content:	Mechanical safety test with client's requirement excluding product information system.				
Prüfgrundlage: Test specification:	EN 15570:2008 (Level:2) ISO 9227:2017 (excluding cl.6.4 and Annex A of EN 15570)				
Wareneingangsdatum: Date of receipt:	07.05.2019				
Prüfmuster-Nr.: Test sample No.:	A000917961 - 001~002				
Prüfzeitraum: Testing period:	08.05.2019 – 19.06.2019				
Ort der Prüfung: Place of testing:	Unit 201, NO.7 Caipin Road, Guangzhou, P.R. China				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Guangdong) Ltd.				
Prüfergebnis*: Test result*:	Pass				
geprüft von / tested by:		kontrolliert von / reviewed by:			
19.06.2019 Jon Huang / TE		19.06.2019 Kingsley He/ Reviewer			
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position	Unterschrift Signature
		<i>Jon Huang</i>			<i>Kingsley He</i>
Sonstiges / Other: This report supersedes the previous report numbered 50249492 001, dated on 10.06.2019.					
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 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m test specification(s) F(ail) = failed a.m test specification(s) 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 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.					



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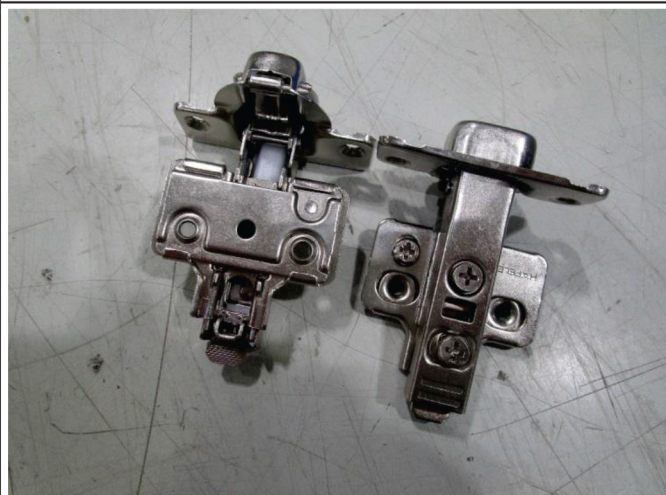
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Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i>	35mm clip on soft closing hinge
2	Maße / Gewicht <i>Dimensions / Weight</i>	H x W x D: 62 x (33 ~ 38) x (83~117)mm Weight: 88.9g (1 Pc)
3	Bedienelemente <i>Operating elements</i>	Hinge with damper
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	N/A
5	Verwendete Materialien <i>Used materials</i>	Metal and plastic
6	Sonstiges <i>Other</i>	Door size: 697 x 601 x 23mm, Door weight: 584kg

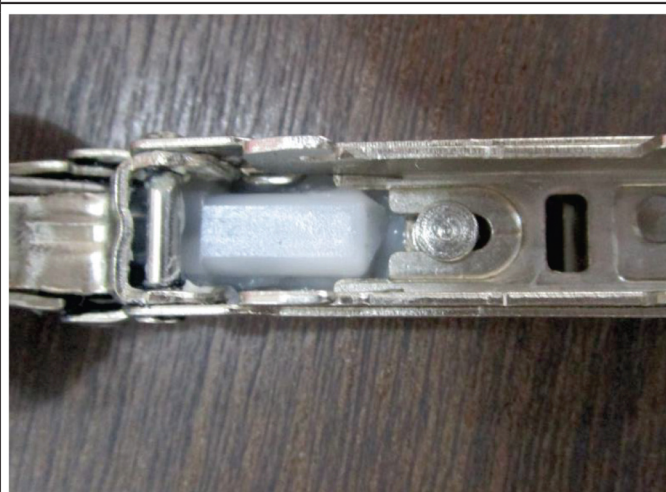
Pic 1: Overview of hinge - Open

Pic 2: Overview of hinge - Close



Pic 3: Overview of Door

Pic 3: Plastic cage of steel damper



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Absatz	EN 15570:2008 (Level:2)	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	Test parameter see Annex B	/
6.2.1	Vertical static overload		P
6.2.2	Horizontal static overload	Hinges with an opening > 135°	N/A
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)		
6.3.2.3	Opening and closing forces (< 20 N)		
6.3.3	1 st vertical static load test		P
6.3.4	1 st horizontal static load	Hinges with an opening > 135°	N/A
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: 2kg Cycles: 40000 cycles	P
6.3.8	Deflection (sagging) test (≤ 0.5 % of width of the door)	Z = 1mm	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	Not requested	N/T
7	Test report		
Annex A	(normative) Product Information system	Product information system was not provided.	/
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
Annex B	(normative) Test parameter		

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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	80

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 ₃)	kg	min. 1, max. 2	min. 1, max. 2	min. 1, max. 2
6.3.7 Durability	cycles	20 000	40 000	80 000

ISO 9227: 2017 Salt Spray Test

/	<p>Test conditions: Concentration of solution collected: 5% NaCl (m/m) Chamber temperature: (35±2) °C Volume of salt solution collected: (1.0~2.0) ml/(80cm²·h) PH of collected solution at (23±3) °C: 6.5~7.2 Exposure period: 48h Salt spray type: NSS Evaluation method : ISO 10289:2001</p>	Rust Grade: 8	/
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Rust grade refers to ISO 10289:2001, as follows:

Percent of surface rusted, A (%)	Rust Grade
A≤0.01	10
0.01<A≤0.03	9
0.03<A≤0.1	8
0.1<A≤0.3	7
0.3<A≤1.0	6
1.0<A≤3.0	5
3.0<A≤10.0	4
10.0<A≤16.0	3
16.0<A≤33.0	2
33.0<A≤50.0	1
50<A	0

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<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).

*** End of test report ***