

No.SDHL2010027662FT

Date: Nov 10, 2020

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GTV POLAND SP. Z O.O. S. K. GTV POLAND SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ SPÓŁKA KOMANDYTOWA **UL. PRZEJAZDOWA 21** 05-800 PRUSZKÓW, **POLSKA**

Sample Description

: ZM-DCHCB (HINGES)

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

: Oct 17, 2020

Test Performing Date

: Oct 21, 2020 to Nov 09, 2020

Test Performed

: Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
	Section 6.2, 6.3 and 6.4 of EN 15570:2008	PASS	1
For f	urther details, please refer to the following page(s)		

□igned for and on behalf of □G□-C□TC □tandards Technical □ervices Co., Ltd. □hunde Branch

Bill Wang

□uthorized □ignatory



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1 15.1 Building European Instinsia Part, No.1 Shurthe South Read, Masha Seuton, Dallarg Town, Shurthe Fest and Georgeony Crima 528333 1 (86-757) 22805888 1 (86-757) 22805858 www.s.gs.gs.group.com.cn 中国·广东·佛山市模核区大良街道办事处五沙顺和南路1号饮溉工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com



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TESTS AND RESULTS

Test Conducted:

Section 6.2, 6.3 and 6.4 of EN 15570:2008 – Hardware for furniture — Strength and durability of hinges and their components — Hinges pivoting on a vertical axis.

No. of Sample:

3 sets. For more sample information and pictures, please refer to the following page.

Test	Test Description and Requirements	Test Results
6 Performance Re	quirements (Strength & Durability)	
6.1	General For the following tests, three sets of hinges shall be used as follows: The first set shall be used for the first test sequence specified in 6.2. The second set shall be used for the second test sequence specified in 6.4.	.3.
6.2	Overload tests	
6.2.1	Vertical static overload Load the door with the mass specified. The mass shall be suspended 100 mm from the edge furthest from the hinge. Open and close the door 10 full cycles (back and forth) from a position 45° from fully closed to a position 10° from fully opened, up to a maximum of 135° from the fully closed position. Opening and closing can be done by hand using 3 s to 5 s for opening and 3 s to 5 s for closing. Carry out inspection and assessment according to 4.6 without the test load. The door and/or hinges shall not become detached.	PASS Level 2, test load: 20 kg
6.2.2	Horizontal static overload This test applies only to hinges with an opening angle < 135°. Apply the horizontal static load specified 10 times perpendicular to the plane of the door on its horizontal centreline100 mm from the edge furthest from the hinge. Carry out inspection without the test load. If the door, hinges or their components become detached.	PASS Level 2, test force: 60 N
6.3	Functional tests	
6.3.2	Operating forces The operating forces shall be measured before and after the durability test. The measurements of operating forces shall be made with the door unloaded.	
6.3.2.2	Closing force, hinges with self-closing mechanisms Fully opened the door 10 times by hand before measure the closing force. Slowly move the door towards the closed position and measure the force at a position 0, 5 mm before the fully closed position. During the measurement, the opening and closing forces shall be applied perpendicular to the front. The closing force of hinges with self closing spring mechanism shall not be less than 0,5N before and after the durability test.	PASS



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Test	Test Description and Requirements	Test Results
6.3.2.3	Opening and closing forces The opening and closing forces, F, shall be measured at the measuring point, through the full opening angle using a constant and slow opening/closing speed. The opening and closing forces shall be determined at the beginning of the durability test. The forces shall not be more than 20 N before and after the durability test.	PASS
6.3.3	1 st vertical static load test Suspend a mass specified on the door. Open and close it10 full cycles (back and forth) from a position 45° from fully closed to a position 10° from fully opened, up to a maximum of 135° from the fully closed position. After the test, the hinges and their components shall fulfill their functions.	PASS Level 2, test load: 15 kg
6.3.4	1st horizontal static load This test applies only to hinges with an opening angle < 135°. Apply the horizontal static load specified 10 times perpendicular to the plane of the door on its horizontal centre line 100 mm from the edge furthest from the hinge. After the test, the hinges and their components shall fulfill their functions.	PASS Level 2, test force: 30 N
6.3.5	Slam shut Slam closed all doors 10 times using the masses $(m_1 + m_2)$. The mass shall fall through a distance of 300 mm or the distance required closing the door through 30°, whichever is the smaller. After the test, the hinges and their components shall fulfill their functions.	PASS m1: 0.6 kg m2: 3 kg
6.3.7	Durability Attach two masses, 1 kg each, and one on each side of the door at the middle of the vertical centerline. Fully open the door to a maximum of 130 and fully close it for the number of cycles (back and forth), without forcing built-in stops in the open position. The door shall be gently opened and closed at each cycle without forcing dampers and/or catch devices including self-opening and self-closing mechanisms. Approximately 3 s shall be used for opening and 3 s for closing the door. If the hinges have dampers and/or catch devices, including self-opening and self-closing mechanisms, these shall be allowed to operate correctly according to their function at each cycle. After the test, the hinges and their components shall fulfill their functions.	PASS (Test cycles: 80,000, specified by applicant.)
6.3.8	Deflection (sagging) test After the durability test and after removing the two 1 kg masses, the sagging shall be determined before and after using adjustment systems. The sagging before using adjustment systems shall not exceed 0.5 % of the width of the door.	PASS Sagging: 1.2 mm (0.2%)
6.3.9	2 nd vertical static load Suspend a mass specified on the door. Open and close it10 full cycles (back and forth) from a position 45° from fully closed to a position 10° from fully opened, up to a maximum of 135° from the fully closed position. After the test, the hinges and their components shall fulfill their functions.	PASS Level 2, test load: 15 kg



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Test	Test Description and Requirements	Test Results
	2 nd horizontal static load This test applies only to hinges with an opening angle < 135°. Apply the horizontal static load specified 10 times perpendicular to the	PASS
6.3.10	plane of the door on its horizontal centre line 100 mm from the edge furthest from the hinge. After the test, the hinges and their components shall fulfill their functions.	Level 2, test force: 30 N
6.4	Corrosion resistance The corrosion test shall be carried out when required on the third set of hinges according to EN ISO 6270-2. Requirement: 3 cycles AHT. With the exception of cutting edges, screw slots, rivet head, aluminium and moulded parts of zinc, all parts which are visible when the hinges are mounted shall show no corrosion. The function shall be maintained. If the corrosion test has not been carried out, information on this shall be included in the product information (Annex A).	PASS

Remark

- 1. The dimension of the testing door is 700 mm H x 600 mm W x 19 mm T, with weight of 5.20 kg;
- 2. N/A Not applicable; N/R Not Requested; N/P Not provided.
- 3. For the sample information and pictures, please refer to the following page.





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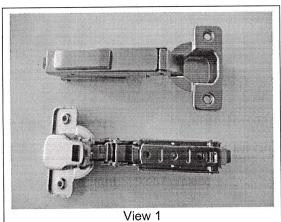
SAMPLE INFORMATION AND PICTURES

Weight: 92.57 g/piece

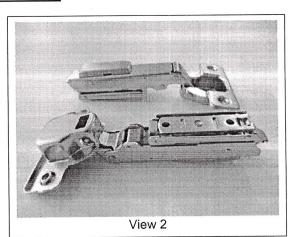
Cup Diameter: Ф35 mm

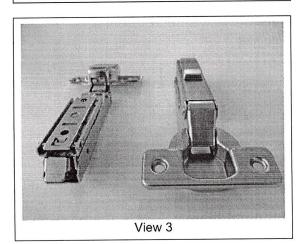
Other Dimensions: /

Sample as Received

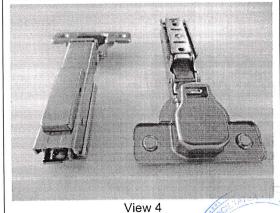








End of Report





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