

Orderer / Customer: **Grass-Hopper (HongKong) Limited**
7th Floor, Allied Kajima Building, 138 Gloucester Road,
WanChai, Hong Kong

Object / Test specimen: Full extension concealed slide with soft closing and self-closing

Model no.: CRD-13A

Order: Partial Test according to EN 15338: 2007

Statement:

The overall test result: Passed

The Full extension concealed slide with soft closing and self-closing was tested partially according to EN 15338: 2007 for contract use and following the parameter "column 3" according to Table C.1 and Table C.2 of EN 15338: 2007. The tests were carried out between December 30, 2009 and January 07, 2010. The tests were conducted according to EN 15338: 2007, EN ISO 6270-2: 2005 and with respect to the present state of safety engineering.

Technical data and test results can be seen in the following test report.

The tests were carried out in indoor ambient conditions at a temperature between 15°C – 25°C. Hinges which include structural hardware parts made of hygroscopic plastic material were conditioned at 18°C – 28°C and at a relative humidity of 45% – 55% for 7 days before testing.

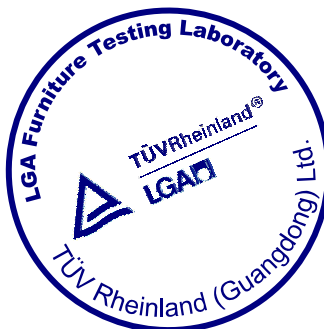
The test report consists of 5 pages.

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 request.

Guangzhou, 18/01/2010 (dd/mm/yyyy)

LGA Furniture Testing Laboratory
TÜV Rheinland (Guangdong) Ltd.
Furniture Department



Person in Charge

Stephan Pesch
Head of Furniture Department

Waley Huang
Project Engineer

Item:

Article: Full extension concealed slide with soft closing and self-closing
Article no: CRD-13A
Number of samples: 1 set with complete cabinet, 1 single set slide
Supplier: Grass-Hopper (HongKong) Limited
Received on: 23rd December, 2009

Scope of testing:

General tests:

Technical test

The following mechanical tests according to EN 15338: 2007, EN ISO 6270-2: 2005:

- Durability test
- Corrosion resistance

Scope of the test results:

The test results only refer to the samples submitted to the test.

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.

Test standards for mechanical tests:

EN 15338: 2007 Hardware for furniture - Strength and durability of extension elements and their components
EN ISO 6270-2: 2005 Paints and varnishes - Determination of resistance to humidity - Part 2: Procedure for exposing test specimens in condensation- water atmospheres

and with respect to the present state of safety engineering following to the German Equipment and Safety Act

Dimensions of extension element (drawer):

Height:	150 mm	Depth:	580 mm
Width:	450 mm	Front height:	150 mm
Inner dimension:			
Height: 80 mm	Width: 378 mm	Depth: 523 mm	
Extension length (n _x):	554 mm		
Weight of drawer:	7.00 kg	Weight of the slide:	2.46 kg
Loading capacity (M):	30.0 kg	<input checked="" type="checkbox"/> with catch device	

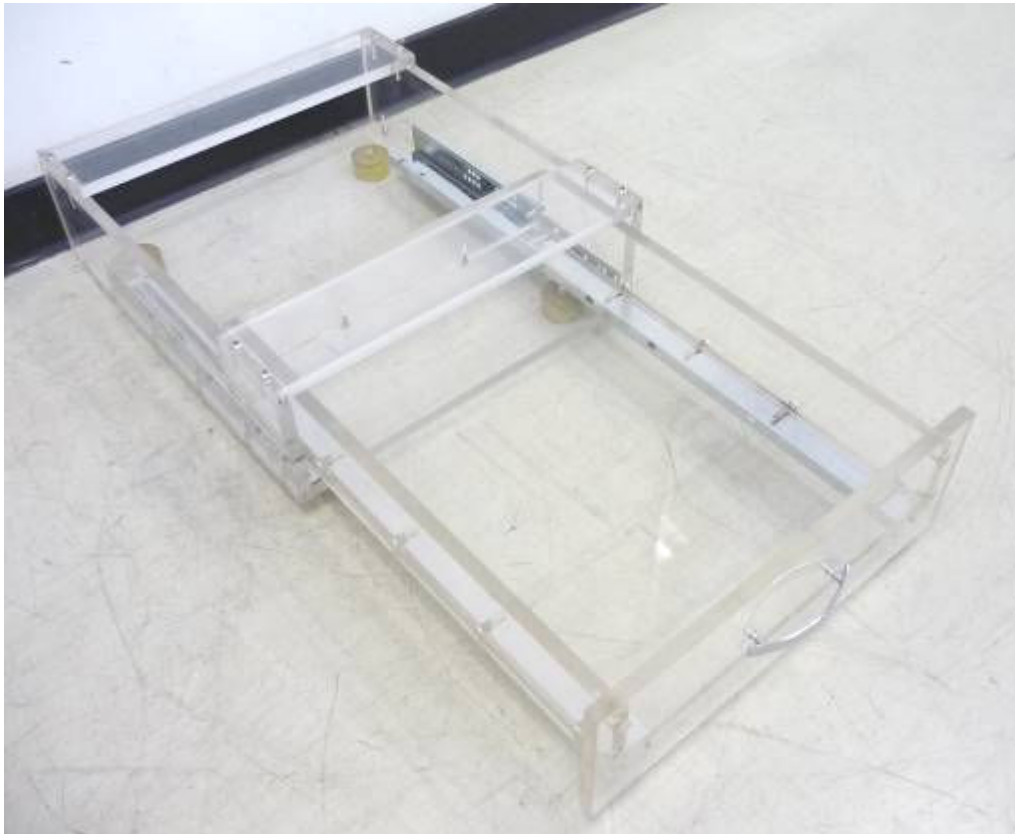
Pictures:



Pic. 1: Retract view



Pic. 2: Extend view



Pic. 3: Tested cabinet

Objections:

None

LGA recommendation:

None

Remark(s):

1. The test frame and the test drawer (cl. 5.6 of EN 15338: 2007) are specified by the manufacturer and made of organic glass.

Technical tests:

Full extension concealed slide with soft closing and self-closing

Functional tests (partially according to Cl. 6.3 of EN 15338: 2007):

Durability (60,000 cycles) Passed

Corrosion resistance (according to Cl. 6.4 of EN 15338: 2007):

Requirement: 3 cycles AHT. Passed

- End of Test Report -