

**Orderer / Customer:** GRASS-HOPPER(HONGKONG) LIMITED  
7TH FLOOR, ALLIED KAJIMA BUILDING, 138  
GLOUCESTER ROAD, WANCHAI, HONG KONG

**Object / Test specimen:** Drawer box-Full extension with self closing and soft closing

**Model no.:** CRD-12A

**Order:** Test requirements for partial Mechanical safety test

**Statement:**

**The overall test result:** **Passed**

The Drawer box-Full extension with self closing and soft closing was tested according to clause 6.3.8 following the parameter "column 3" for contract use according to Table C.2 of EN 15338: 2007. The tests were carried out between September 03, 2009 and October 30, 2009. 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.

The test report consists of 4 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.

**This test report supersedes test report 1133004855/GZF/02-01 dated on 05/11/2009.**

Guangzhou, 13/11/2009 (dd/MM/yyyy)

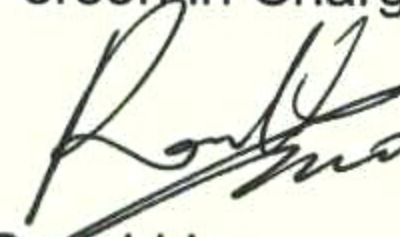
**LGA Furniture Testing Laboratory**  
**TÜV Rheinland (Guangdong) Ltd.**  
Furniture Department



Stephan Pesch  
Head of Furniture Department



Person in Charge



Ronald Luo  
Project Engineer







**Item:**

Article: Drawer box-Full extension with self closing and soft closing  
Article no: CRD-12A  
Number of samples: 1 set + 1 set  
Supplier: GRASS-HOPPER(HONGKONG) LIMITED  
Received on: 03<sup>rd</sup> September, 2009 + 21<sup>st</sup> October, 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 test

**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



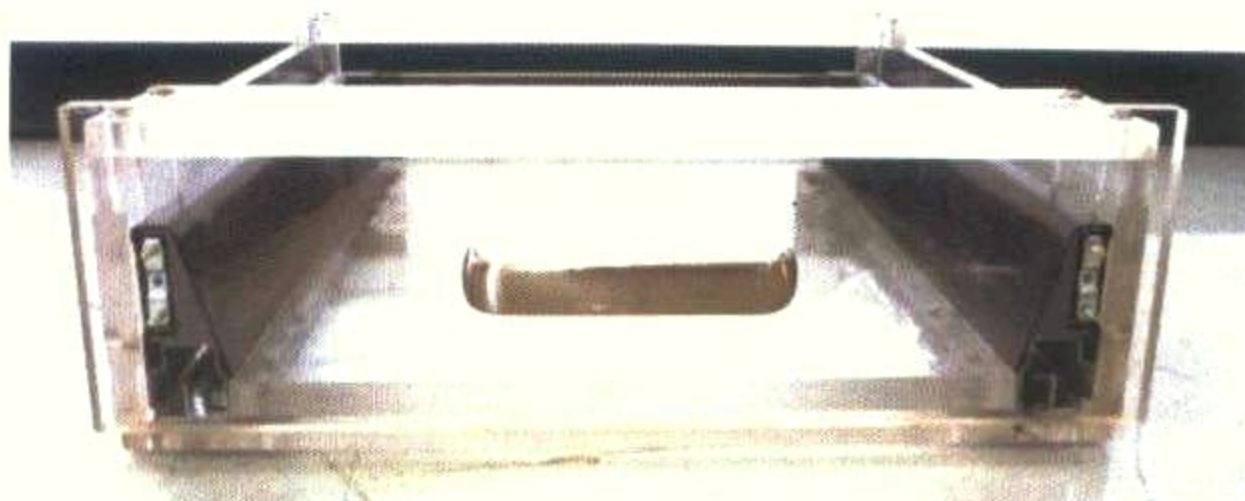


**Dimensions:**

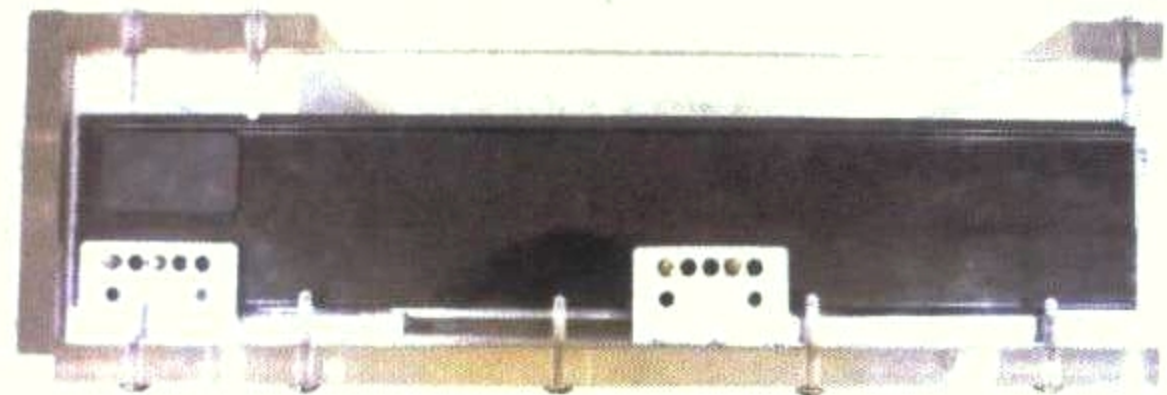
**Drawer box-Full extension with self closing and soft closing:**

Height:	139 mm	Depth:	488 mm
Width:	450 mm	Front height:	120 mm
Inner dimension:			
Height: 95 mm	Width: 325 mm	Depth: 428 mm	
Extension length (nx):	438 mm		
Weight of drawer:	5.9 kg	Weight of the slide:	1.8 kg
Loading capacity (M):	30.0 kg	<input checked="" type="checkbox"/> with catch device	

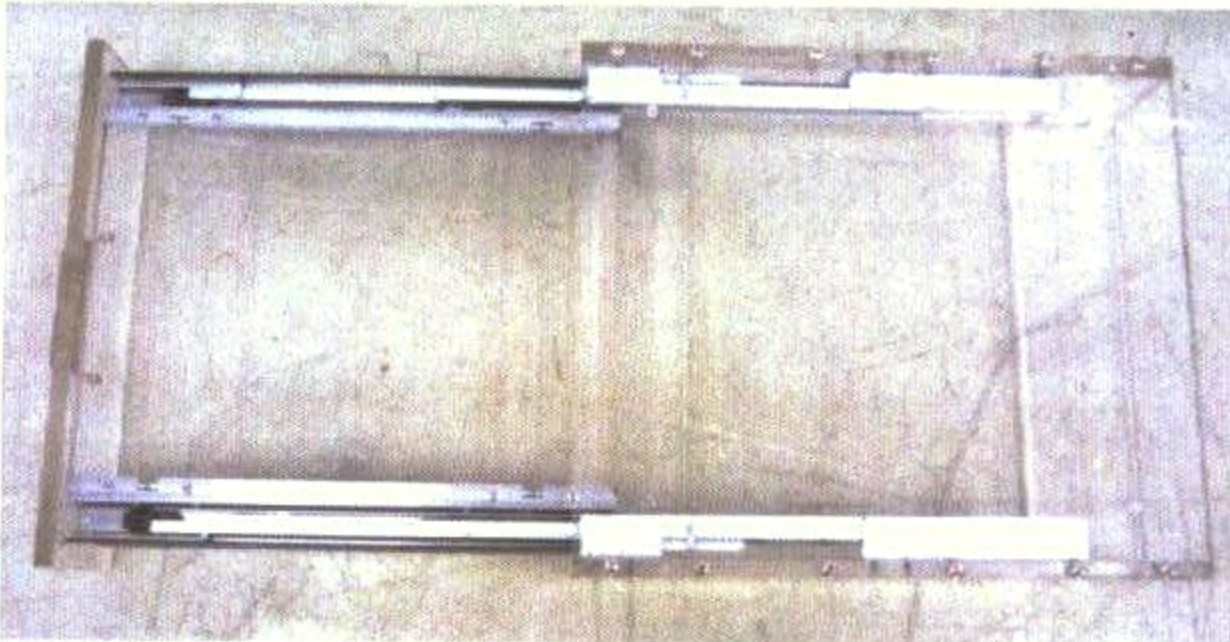
**Pictures:**



Pic. 1: Front view



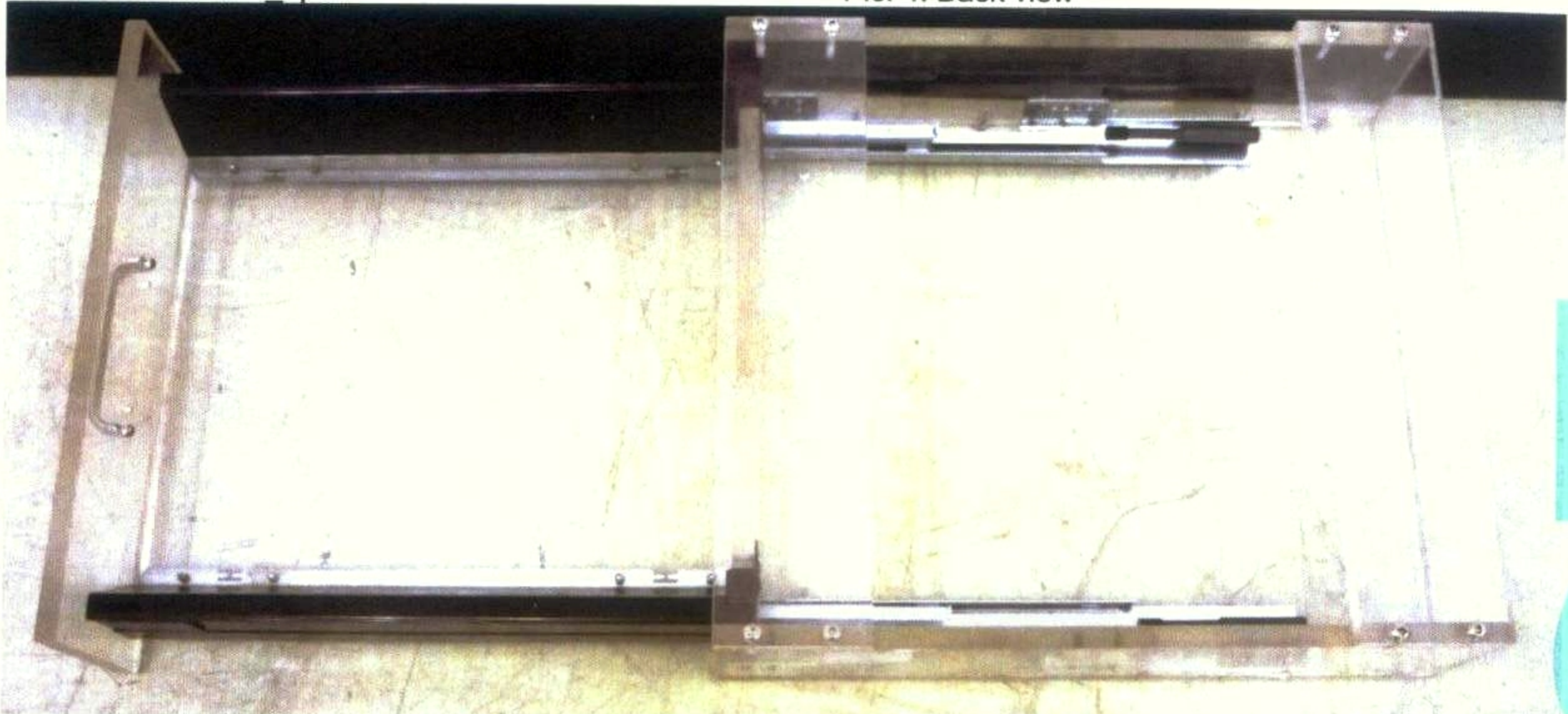
Pic. 2: Side view



Pic. 3: Bottom view open



Pic. 4: Back view



Pic. 5: Top view open



**Objections:**

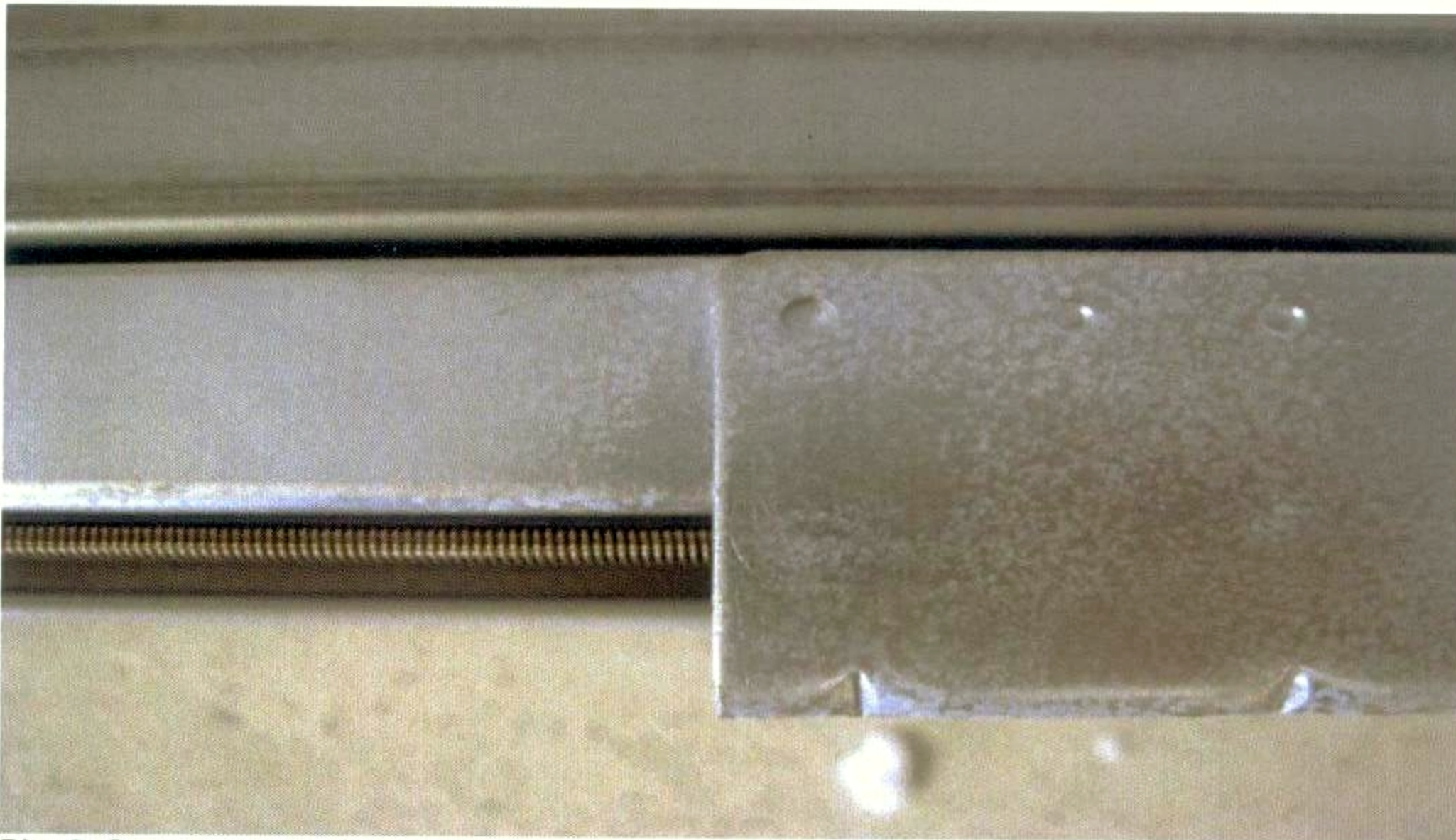
None

**LGA recommendation:**

None

**Remark(s):**

- The test frame and the test drawer (cl. 5.6 of EN 15338: 2007) were provided by the manufacturer.
- Only durability test and corrosion resistance test were conducted per client's request.
- Only the name for supplier, samples and standards information were updated and the corrosion resistance test result was added on this report, all other results or data were taken from previous test report no. 1133004855/GZF/02-01 dated on 05/11/2009.
- After 3 cycles AHT corrosion resistance test, only some small white circles on the metal plate at the rear was found, the total area of it is 22 cm<sup>2</sup>. (See Pic. 6)



Pic. 6: Some small white circles

**Technical tests:**

**Drawer box-Full extension with self closing and soft closing**

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

Durability

Passed

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

Requirement: 3 cycles AHT.

Passed