

Our Ref.: 4G2/JYM/JYM

TEST REPORT

Subject: Mechanical tests
performed on an electrical door opener
upon request from DORCAS

Case No.: CET0100459_FINAL_01_a.

Date: 4 November 13

Addressee: Mr Jean-Philippe LEFEBVRE
DORCAS
José Serrano, 6
E-46392 SIETE AGUAS
VALENCIA (Spain).

Request reference: Response to proposal No. CET0100459 dated 19/07/2013
Date: 23 July 2013

Items submitted by the requesting party:

Electrical door opener, 12V.

Ref.: 52NF
12 Volt.

Duplication of this document is only authorised in its entirety.
This report is comprised of 5 pages, with a 2-page appendix.

This test report only concerns the objects submitted for testing.

I – TESTS CARRIED OUT.

Date and place of tests:

The tests were carried out from 02/10/13 to 31/10/13 in CETIM's laboratories at 7 rue de la Presse BP 802, 42952 Saint-Etienne Cedex 9 (France).

Description of the item:

12-Volt electromechanical door opener.

References: 52NF
12 Volt.

Brand: DORCAS Manufacturer: DORCAS.

Date received: 01/10/2013

Order No.: JM 177 Sampling: DORCAS

Requested checks:

Partial tests as per Standard EN 14486 (issue 08/2008).

Tests as per paragraphs 5.3, 5.4, 5.7 and 5.8

Door weight: 100 kg.

Triggering mode: presence of electrical current.

Test category: Grade C, second character.

Grade 1, third character.

Grade L, sixth character.

Grade 2, seventh character.

1	2	3	4	5	6	7	8	9
Category of use	Endurance of the latchbolt	Door weight Closing load	Fire-resistant door	Personal safety	Salt spray and temperature	Drilling safety	Electrical safety	Electrical handling safety

The uncertainty of measurement is less than 2 % for a confidence level of 95.5 %

The requirements of the standard take into account the uncertainty of measurement required for the testing equipment.

Climatic conditions during the tests:

Temperatures $17 < T^{\circ}\text{C} < 27$

Equipment used:

- HBM bridge, type: SCOUT 55, No. 970426.
- Sensors No.: F102, FGP 1151.
- Test benches BE S 12209 door No.3.
- Salt spray enclosure, BIOBLOCK SC 1000.
- Multimeter, ENERTEC 7150 No. 850586.
- Regulated power supply, TTI EX752M
- Metrological pack

II – TEST RESULTS.

TESTS – 12-Volt electromechanical door opener. Ref. - 52NF	C	NC	R								
<p>§ 5.3 Endurance test.</p> <p>§ 5.3.2.2 Endurance test of the mechanism of the electrically-operated latchbolt and of the electric door opener.</p> <p>Test as per Standard EN 12209 (2004).</p> <p>§ 5.3.1/ 6.3.1.1 Endurance test of the latchbolt without load.</p> <p>Samples D L test No. 5</p> <p>Standard: Cycles as per Grade 4.2.2</p> <table><tr><td>2nd digit</td><td>Number of cycles</td><td>Latchbolt load</td></tr><tr><td>Grade C</td><td>200000</td><td>No load</td></tr></table> <p>Remark: <i>After 138,500 cycles, the striking box attachment bolts had to be tightened.</i></p>	2 nd digit	Number of cycles	Latchbolt load	Grade C	200000	No load	X		X		
2 nd digit	Number of cycles	Latchbolt load									
Grade C	200000	No load									
<p>§ 5.4 Weight of the door and closing load (for information).</p> <p>Test as per Standard EN 12209 (2004).</p> <p>Samples D L test No. 4</p> <p>§ 5.4.2 Closing load.</p> <p>Standard:</p> <table><tr><td>3rd digit</td><td>Door weight</td><td>F10, closing</td></tr><tr><td>1</td><td>100 Kg</td><td>50N</td></tr></table> <p>Measurement carried out for information:</p> <table><tr><td>Measurement F10</td></tr><tr><td>20 N</td></tr></table> <p>Remark: <i>For this product, the door opening load test concerns the door opening load. Further to the endurance test, the door opening load was 27 N. It complies with grade 1 of the standard for the third classification character.</i></p>	3 rd digit	Door weight	F10, closing	1	100 Kg	50N	Measurement F10	20 N	X		X
3 rd digit	Door weight	F10, closing									
1	100 Kg	50N									
Measurement F10											
20 N											

C: ConformingNC: Non-ConformingR: Remarks

C: Conforming

NC: Non-Conforming

R: Remarks

TESTS – 12-Volt electromechanical door opener. Ref. - 52NF	C	NC	R
<p>§ 5.7 Corrosion, temperature and humidity resistance.</p> <p>§ 5.7.1/ 6.7.1 Corrosion resistance.</p> <p>Correct operation, without taking the appearance of the product into account. Inspection after 96 hours of exposure to salt spray. (Grade L).</p> <p>Remark: <i>Operation is similar before and after 96 hours of exposure to salt spray. (High corrosion resistance).</i></p> <p>§ 5.7.2/ 6.7.2 Resistance to a temperature range.</p> <p>The product must continue to operate during and after the test. Grade L: - 25°C for 2 hrs and + 70°C for 2 hrs Operational check.</p> <p>Remark: <i>The operation is similar before, during and after the exposure to the range of temperatures.</i></p> <p>§ 5.7.3/ 6.7.3 Cyclic humidity resistance.</p> <p>The product must continue to operate during and after the test. Level 2: + 55°C with a relative humidity of 95% for 24hrs. Operational check.</p> <p>Remark: <i>Operation is similar before, during and after the exposure to cyclic humidity.</i></p>	X		X
	X		X
	X		X
C: Conforming NC: Non-conforming R: Remarks			

TESTS – 12-Volt electromechanical door opener. Ref. - 52NF	C	NC	R												
<p>5.8 Goods safety requirements.</p> <p>Standard EN 12209:</p> <p>§ 5.8.9.2/6.8.9.2 Resistance to lateral load applied on the load opener. (fig. B 9)</p> <p>Standard:</p> <table><tr><th>7th digit</th><th>F4</th></tr><tr><td>1</td><td>1 kN</td></tr><tr><td>2</td><td>3 kN</td></tr><tr><td>3</td><td>5 kN</td></tr><tr><td>4</td><td>7 kN</td></tr><tr><td>5</td><td>7 kN</td></tr></table> <p>The load is applied 3 mm from the forend.</p> <p>Remark: <i>Failure beyond 3kN. Compliant with grade 2 of the classification.</i></p>	7th digit	F4	1	1 kN	2	3 kN	3	5 kN	4	7 kN	5	7 kN	X		X
7th digit	F4														
1	1 kN														
2	3 kN														
3	5 kN														
4	7 kN														
5	7 kN														
<p>C: Conforming NC: Non-Conforming R: Remarks</p>															

III - CONCLUSION:

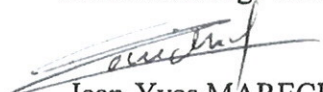
Further to the partial tests as per Standard EN 14846 (2008), the DORCAS electromechanical door opener, reference 52 NF, 12 Volt, triggering mode: presence of electric current, complies with:

- the provisions of paragraph 5.3 of the standard for grade C. (second character).
- the provisions of paragraph 5.4 of the standard for grade 1. (third character).
- the provisions of paragraph 5.7 of the standard for grade L. (sixth character).
- the provisions of paragraph 5.8 of the standard for grade 2. (seventh character).

The classification on this product corresponds to:

3	C	1	F	0	L	2	0	0
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Written by
Person in charge of testing


Jean-Yves MARECHAL

Approved by
Technical representative


Christian FAUVEAU

DORCAS

Compliance aptitude fire



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Test Certificate

COMPANY MONTAJES ELECTRONICOS DORCAS S.L.
ADDRESS José Serrano, nº 6
46392 SIETE AGUAS (Valencia)
CERTIFICATE No. 12682.1

FEATURES OF THE SAMPLE

Box Strike installed in a simple metallic door EI₂-120 with reference of «Abrepuestas Dorcas serie 52».

TEST

Fire resistance test according to UNE-EN 1634-1:2000 (*)₁, being based also on the norm UNE-EN 1363-1:2000 (*)₂.
(Classification according to UNE-EN 13501-2: 2004)

(*)₁ Fire resistance test for door and shutter assemblies. Part 1: Fire doors and shutters.

(*)₂ Fire resistance tests. Part 1: general requirements.

RESULT

CLASIFICACION: EI₂ 120

DATE 07th of February 2006

This document is not valid without the test report in which the results obtained in each test are shown.

The results obtained in these tests only refer to the sample(s) analysed at this centre on the date shown, and do not involve a sample referring to production quality.


Signed: Asier Matzlegi
Construction Dept. Manager

Test Certificate

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Signed: Asier Maiztegi
Construcción Dept. Manager