

Test Verification of Conformity

On the basis of the referenced test report(s), the sample(s) of the below product has been found to comply with the relevant EN standard(s) to the directive(s) listed on this verification at the time the tests were carried out.

The manufacturer may indicate compliance to said directive(s) by signing a DoC himself and applying the CE-marking to products identical to the tested sample(s). In addition, the manufacturer shall file and keep the documentation according to the rules of the applicable directive(s) and shall consider changes of the standard(s) if relevant. Additional requirements may be applicable such as additional directives or local laws.

Applicant Name & Address : GUANGDONG BE-TECH SECURITY SYSTEMS LIMITED
No. 1,Tianhe Rd., Rongbian, Ronggui, Shunde, Foshan,
Guangdong, P.R. China

Product(s) Tested : Electronic Hotel Lock

Ratings and principal characteristics :

2	A	4	0	0	A	1	1	0
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Model(s) : 2036M-55A

Brand name : 

Relevant Standard(s) / Specification(s) / Directive(s) : EN 14846:2008 (E)
89/106/EEC

Verification Issuing Office Name & Address : Same as Legal Entity

Verification/Report Number(s) : GZ09020665-1

NOTE 1: This verification is part of the full test report(s) and should be read in conjunction with it.

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Signature

Name: Baud Qiu

Position: Manager

Date: March 31, 2009

TEST REPORT
EN 14846

Building hardware – Locks and latches –
Electromechanically operated locks and striking plates –
Requirements and test methods

Report No.....: GZ09020665-1R1
Supersede Report No. GZ09020665-1 dated March 31, 2009

Tested by (name and signature).....: Happy Chen *Happy Chen*

Approved by (name and signature)....: Clark Liu *Clark Liu*

Date of issue: April 2, 2010

Contents.....: Total test report 9 pages including:
Report text: 7 pages
Appendix A for product photos and drawings: 2 pages

Testing Laboratory name: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address: Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

Applicant's name: GUANGDONG BE-TECH SECURITY SYSTEMS CO., LTD.
Address: No. 17, Keyuan 3 Road, Ronggui, Shunde High-Tech Zone, Foshan, Guangdong, P.R.China

Test specification:

Standard.....: EN 14846:2008 (E)
Non-standard test method: N/A

Test Report Form No: TTRF EN 14846:2008 (E) A
TTRF Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Master TTRF: Dated 2009-03

Test item description: Electronic Lock
Trade Mark.....:  **BE-TECH** 必达

Model and/or type reference: 2036M-55A
Manufacturer: GUANGDONG BE-TECH SECURITY SYSTEMS CO., LTD.

Rating(s).....:

2	A	4	0	0	A	1	1	0
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Copy of marking plate (information/comments):

Marking on the package



Summary of testing

The submitted samples were tested and compared with previous tested samples and deemed to **COMPLY WITH** applicable requirements of EN 14846: 2008 (E).

Possible test case verdicts:

- test case does not apply to the test object.....: N/A
- test object does meet the requirement.....: P(Pass)
- test object does not meet the requirement.....: F(Fail)

Testing

- Date of receipt of test item.....: August 4, 2008
- Date (s) of performance of tests.....: August 4, 2008 to September 10, 2008
February 25,2008 to March 23, 2009

General remarks:

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"(see remark #)" refers to a remark appended to the report.
 "(see Appendix #)" refers to an appendix appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

When determining the test result, measurement uncertainty has been considered.

General product information:

Per manufacturer information, new model 2036M-55A was the same in mechanical part with previous model 2036C-55A, but different in electrical part. Clause 5.2.1, 5.2.4, 5.3.2.1, 5.3.3, 5.7.3 and clause 5.8 data were based on report GZ09090708-5R1, dated on March 26, 2010, and others were based on new test result.

Function description:

Normal operation: Unlock by correctly card, and then, turn handle to retract latch bolt or both latch bolt and deadbolt. Lock out side handle automatically. Deadbolt of the lock was projected by inside turn only. In the emergency operation, it can be unlocked by key.

Detail "Ratings" information listed as following:

- First digit (Category of use): Grade 2– for use by people with some incentive to exercise care but where is some chance of misuse, e.g. office doors.
- Second digit (Durability and load on latchbolt): Grade A – 50 000 test cycles; no load on latch bolt.
- Third digit (Door mass and closing force): Grade 4– up to 100kg door mass 25N maximum closing force.
- Fourth digit (Suitability for use on fire/smoke doors): Grade 0– Not approved for use on fire/smoke door.
- Fifth digit (Safety): Grade 0– no safety requirement.
- Sixth digit (Corrosion resistance, temperature and humidity) Grade A – No defined corrosion resistance, no defined temperature resistance, Level 1 Humidity resistance.
- Seventh digit (Security resistance): Grade 1– Minimum security and no drill resistance.
- Eighth digit (Security–electrical function): Grade 1 – status indication according to 5.9
- Ninth digit (Security-electrical manipulation): Grade 0 – No requirement

Amendment:

The original Report No. GZ09020665-1 dated on March 31, 2009 was modified on April 2, 2010 to update applicant name and delete the marking plate.

*****End of page*****

EN 14846				
Clause	Requirement - Test	Result - Remark	Verdict	
4	Classification		—	
4.1	General			
4.2	The product shall be classified according to the following thirteen digit coding system:		—	
4.3	Category of use	2	—	
4.4	Durability and load on latchbolt	A		
4.5	Door mass and closing force	4		
4.6	Suitability for use on fire/smoke doors	0		
4.7	Safety	0		
4.8	Corrosion resistance, temperature and humidity	A		
4.9	Security	1		
4.10	Security—electrical function	1		
4.11	Security-electrical manipulation	0		
5	Requirements			—
5.1	General			—
5.1.1	Compatibility between cooperating parts The manufacturer shall state which cooperating parts have been designed to be used in combination.....:	All cooperating parts were included.	P	
5.1.2	Dangerous substance Materials in products shall not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations in the country of intended use.....:	Per manufacturer information, No dangerous substance used	P	
5.1.3	Operation time for locking and unlocking Operation time in both directions between the end positions shall not exceed 3 s.....:	Locking and unlocking time less than 1 s	P	
5.2	Category of use		—	
5.2.1	Resistance to side load on latch The lock shall resist a side load of 3 KN.....:	3 KN	P	
5.2.2	Torque to operate deadbolt The torque on the key to operate the deadbolt shall not exceed M3 = 1 Nm.....:	The torque on key: 0,5 Nm The torque on turn: 0,5 Nm	P	
5.2.3	Strength of normal latch action and stops The latch components and travel limit stops shall resist a torque of 40 Nm.....:	The latch action function correctly after this test. Torque on the follower: 0,4 Nm	P	
5.2.4	Torque resistance of lockable follower The lockable follower shall resist a torque of 60 Nm:	Torque on the lockable follower: 60Nm Lock functioned normally	P	

EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
5.3	Durability		—
5.3.2.1	Durability of latch action Durability of latch action mechanically operated The latch action shall function correctly fulfilling the requirements after the cycle test of 50 000 cycles.....	The latch action function correctly after this test 50 000 cycles without load on latch bolt. The torque on the follower was less than 3 Nm The closing force was less than 25 N	P
5.3.2.2	Durability of latch action electrically operated The latch action shall complete the cycles of 50 000 cycles.....	The latch action function correctly after 50 000 cycles. The torque on the follower was less than 3 Nm The closing force was less than 25 N	P
5.3.3	Durability of deadbolt mechanism		P
5.3.3.1	Durability of deadbolt mechanism mechanically operated The latch action shall function correctly fulfilling the requirements after the cycle test of 10 000cycles.....	The deadbolt action function correctly after this test. The torque on key: 0,5 Nm The torque on turn: 0,5 Nm	P
5.3.2.2	Durability of deadbolt mechanism electrically operated:	Operated deadbolt by mechanism only	N/A
5.4	Door mass and closing force Up to 100 kg door mass and 25 N maximum closing force	Door mass: 100 kg Closing force: 8 N	P
5.5	Suitability for use on fire/ smoke doors.....	Not approved for use on fire/smoke doors	N/A
5.6	Safety	No safety requirement	N/A
5.7	Corrosion resistance, temperature and humidity requirements		
5.7.1	Corrosion resistance	No defined resistance	N/A
5.7.2	Resistance to a range of temperatures	No defined resistance	N/A
5.7.3	Resistance to cyclic humidity The product shall endure humidity at elevated temperatures with requirement of level 1	No defect was found after this test. Level 1: +40°C with initial relative humidity of 95%.	P
5.8	Security requirements		—
5.8.1	Torque resistance of knob		—
5.8.1.1	Torque resistance of knob or lever handle on bored lock and latch sets	No requirement for mortice lock	N/A
5.8.1.2	Torque resistance of knob or lever handle on rim night latch.....	No requirement for mortice lock	N/A
5.8.2	Requirements for side load		—

EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
5.8.2.1	Resistance to side load on deadbolt..... :	1KN	P
5.8.2.2	Resistance to drilling and side load on deadbolt..... :	No requirement for grade 1	N/A
5.8.3	Deadbolt projection Shall not less than 10 mm	25,0 mm	P
5.8.4	Requirements for end load on deadbolt		—
5.8.4.1	Resistance to end load Shall not less than 8 mm	1KN 24,0 mm	P
5.8.4.2	Resistance to endload with drilling	No requirement for grade 1	N/A
5.8.5	Resistance to pulling of hook/claw bolt..... :	No hook or claw bolt	N/A
5.8.6	Resistance to disengaging of hook/claw bolt..... :	No hook or claw bolt	N/A
5.8.7	Resistance to forcing of locating device in sliding door lock..... :	Applicable for sliding door lock only	N/A
5.8.8	Resistance to pulling off of knob on bored lock and latch set..... :	No requirement for mortice lock	N/A
5.8.9	Security requirements of the component locking plate		—
5.8.9.1	Resistance to end load on box protected locking plate:	No protecting box	N/A
5.8.9.2	Resistance to side load on locking plate The locking plate shall resist a side load of 1000 N.. :	1000 N No security function lost	P
5.8.9.3	Resistance to pulling on locking plate	Applicable for lock with hook bolt only	N/A
5.8.9.4	Resistance to lifting force on locking plate	Applicable for sliding door lock only	N/A
5.9	Security – Electrical function – status indication There shall be an audio or visual signal from the lock that can be used as an indication that the bolt is fully thrown and deadlocked or, in the case of electric strikes, that movement of the electric strike is blocked. The security of the electrical function shall be tested according to 6.9.	A visual signal with different color and beep voice were used to indicate the status. Before and after the test 50 000 cycles, the electrical function was still correct.	P
5.10	Security – Electrical manipulation		—
5.10.1	General		
5.10.2	Voltage drop protection..... :	No requirement for grade 0	N/A
5.10.3	Protection against the effects of cutting cables..... :		
5.10.4	Protection against the effects of wire manipulation.... :		
5.10.5	Resistance to electromagnetic manipulation..... :		
5.10.6	Resistance to electrostatic discharge..... :		
5.10.7	Resistance to electrostatic manipulation..... :		
6	Test methods		—

EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
7	Marking		—
	<p>The following information shall be quoted in the labeling, packaging or literature</p> <p>a) manufacturer's name or trademark or other means of positive identification;</p> <p>b) clear product identification</p> <p>c) classification according to clause 4 of this European Standard;</p> <p>d) number and date of this European Standard.</p>	<p>Complied with this requirements</p> <p>See 'Marking on the package'</p>	P
8	Evaluation of conformity		—
8.1	<p>Initial type test</p> <p>Samples, representative of the series, selected in accordance with annex C, shall be subjected to the full sequence of tests described in clause 6, and where relevant, to annex A.</p>	The samples were tested for applicable item of clause 6.	P
8.2	<p>Factory production control</p> <p>The manufacturer shall document, operate and maintain an adequate factory production control system. The factory production control system shall achieve an appropriate level of confidence in the conformity of the product.</p>	Factory operates in accordance with ISO 9001, and is deemed to satisfy the requirement of FPC.	P
8.3	<p>Further testing of samples</p> <p>At intervals of not more than six months, sample taken from finished product stock, selected in accordance with annex C, and representative of the series, shall be subjected to the full sequence of tests described in clause 6.</p>	Not intended included in this report	—

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Appendix A

Product photos and drawings

