

## Test Verification of Conformity

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the requirements of the referenced specifications at the time the tests were carried out.

Applicant Name & Address	: GUANGDONG BE-TECH SECURITY SYSTEMS LIMITED No. 17, Keyuan 3 Road, Ronggui, Shunde High-Tech Zone, Foshan, Guangdong, P.R.China									
Product(s) Tested	: Electronic lock									
Ratings and principal characteristics	: <table border="1"><tr><td>3</td><td>S</td><td>5</td><td>-</td><td>0</td><td>J</td><td>3</td><td>1</td><td>2</td></tr></table>	3	S	5	-	0	J	3	1	2
3	S	5	-	0	J	3	1	2		
Model(s)	: Guardian RFID Elegant (G2) Guardian RFID Elegant Li (G3)									
Brand name	:  BE-TECH EN14846:2008									
Relevant Standard(s)/Specification(s)	: EN14846:2008									
Verification Issuing Office Name & Address	: Same as Legal Entity									
Date of Test(s)	: October 14, 2013 to November 18, 2013									
Verification/Report Number(s)	: 131014059GZU-001 / 131014059GZU-001									

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

This Verification is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to copy or distribute this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this Verification are relevant only to the sample tested. This Verification by itself does not certify that the material, product, or service is or has ever been under an Intertek certification program.

  
Signature

Name: Baud Qiu  
Position: Senior Manager

Date: January 21, 2014

## TEST REPORT

EN 14846

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



Report No .....	131014059GZU-001								
Tested by (name and signature) .....	Alan Lai <i>Alan Lai</i>								
Approved by (name and signature) .....	Blusea Dong <i>Blusea Dong</i>								
Date of issue .....	January 21, 2014								
Contents .....	Total test report 23 pages including: Report text: 11 pages Appendix A for product photos: 1 page Appendix B for product drawing and bill of material: 10 pages Revision page: 1 page								
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 LIMITED								
Address .....	No. 17, Keyuan 3 Road, Ronggui, Shunde High-Tech Zone, Foshan, Guangdong, P.R.China								
<b>Test specification:</b>									
Standard .....	EN 14846:2008								
Non-standard test method .....	N/A								
Test Report Form No .....	TTRF EN 14846:2008 (E) B								
TTRF Originator .....	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch								
Master TTRF .....	Dated 2013-07								
Test item description .....	Electronic lock								
Trade Mark .....									
Model and/or type reference .....	Guardian RFID Elegant (G2) Guardian RFID Elegant Li (G3)								
Manufacturer .....	GUANGDONG BE-TECH SECURITY SYSTEMS LIMITED								
Rating(s) .....	3	S	5	-	0	J	3	1	2

**Summary of testing**

The submitted samples were tested and found to **COMPLY WITH** performance requirements of EN 14846:2008 for the ratings.

TTRF EN 14846:2008 (E) B

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

**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..... : October 14, 2013
- Date (s) of performance of tests..... : October 14, 2013 to November 18, 2013

**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:**

This electromechanical lock was described as 'Electronic lock' by applicant, model 'Guardian RFID Elegant (G2)' and 'Guardian RFID Elegant Li (G3)'.

Power Supply: four 5# alkali batteries, 6V rated voltage;

Door Opening Time: open the door after pressing the handle, automatically lock within 3 seconds;

Card type: Non-contact IC card;

Electronic lock Guardian RFID Elegant (G2) and Guardian RFID Elegant Li (G3) are all the same except the size of handle cover plate, refer to the cover plate drawing in Appendix B for detailed difference. All the test data was based on model Guardian RFID Elegant (G2).

**Schedule of Components:**

See Appendix B – Product Drawing and Bill of Material for component list.

**Detail "Ratings" information listed as following:**

First digit (Category of use): Grade 3 – For use by the public where there is little incentive to exercise care and where there is a high chance of misuse, e.g. doors in public buildings.

Second digit (Durability and load on latch bolt): Grade S – 200 000 test cycles; 50N load on latch bolt.

Third digit (Door mass and closing force): Grade 5 – Up to 200kg door mass, 25 N maximum closing force.

Fourth digit (Suitability for use on fire/smoke doors): – Not included in this performance test report.

Fifth digit (Safety): Grade 0 – no safety requirement.

Sixth digit (Corrosion resistance, temperature and humidity) Grade J – Very high corrosion resistance, -10°C to +55°C temperature resistance, Level 1 Humidity resistance.

Seventh digit (Security resistance): Grade 3 – Medium security and no drill resistance.

Eighth digit (Security–electrical function): Grade 1 – status indication according to 5.9

Ninth digit (Security–electrical manipulation): Grade 2 – See Table 7

\*\*\*\*\*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	3	—			
4.4	Durability and load on latchbolt	S				
4.5	Door mass and closing force	5				
4.6	Suitability for use on fire/smoke doors	—				
4.7	Safety	0				
4.8	Corrosion resistance, temperature and humidity	J				
4.9	Security	3				
4.10	Security-electrical function	1				
4.11	Security-electrical manipulation	2				
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 provided and function correctly in combination after assembly/installation according to instruction.	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.....	Informative	—			
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 3 s	P			
5.2	Category of use		—			
Table 5 - Category of use						
	Requirement	Parameter	Grade 1	Grade 2	Grade 3	Unit
	Resistance to side load on latch	F1	2	3	3	kN
	Torque to operate deadbolt	M3	1,5	1	0,8	Nm
	Strength of normal latch action and stops	M5	40	40	60	Nm
	Torque resistance of lockable follower	M10	60	60	80	Nm



EN 14846				
Clause	Requirement - Test	Result - Remark		Verdict
5.2.1	Resistance to side load on latch The lock shall resist a side load F1 specified in Table 5 .....	Grade 3 3 kN		P
5.2.2	Torque to operate deadbolt The torque on the key to operate the deadbolt shall not exceed M3 specified in Table 5 .....	Grade 3 0,56 Nm		P
5.2.3	Strength of normal latch action and stops The latch components and travel limit stops shall resist a torque M5 specified in Table 5 .....	Grade 3 60 Nm.		P
5.2.4	Torque resistance of lockable follower The lockable follower shall resist a torque M10 specified in Table 5 .....	Grade 3 80 Nm.		P
5.3	Durability  Table 6 – Durability requirements			—
	Grade	Latch action	Deadbolt manually operated	Deadbolt automatically operated
	A, F	50 000	10 000	50 000
	B, G, L, R, W	100 000	25 000	100 000
	C, H, M, S, X, Y	200 000	50 000	200 000
5.3.2	Durability of latch action			—
5.3.2.1	Durability of latch action mechanically operated The latch action shall function correctly fulfilling the requirements after the minimum number of cycles specified in Table 6 according to the grade selected:	Grade S Tested with electrical operation		P
5.3.2.2	Durability of latch action electrically operated The latch action shall complete the minimum number of cycles specified in Table 6 according to the grade selected. The latch action shall function correctly after this test fulfilling the requirements in EN 12209:2003 5.4.2 (closing force) and 5.11.1 (torque to withdraw the latch bolt(s)).....	Grade S The latch action function correctly after 200 000 cycles. The torque to withdraw the latch bolt on handle: 2,1 Nm (meet Grade 2 requirement of spindle operation according to EN 12209:2003); The closing force: 19,6 N		P
5.3.3	Durability of deadbolt mechanism			—



EN 14846																											
Clause	Requirement - Test	Result - Remark	Verdict																								
5.3.3.1	<p>Durability of deadbolt mechanism mechanically operated</p> <p>The deadbolt mechanism shall complete the minimum number of cycles according to the grade given in Table 6. The deadbolt mechanism shall function correctly after this test fulfilling the requirements in EN 12209:2003, 5.2.2.</p>	<p>Grade 5, manually operated</p> <p>The deadbolt mechanism functions correctly after 50 000 cycles.</p> <p>The torque on key: 0,54 Nm (&lt; 1,5 Nm)</p> <p>The torque on handle: 2,8 Nm (&lt; 3 Nm)</p>	P																								
5.3.3.2	Durability of deadbolt mechanism electrically operated	Operated deadbolt manually only	N/A																								
5.3.3.3	Durability of deadbolt mechanism automatically operated	Operated deadbolt manually only	N/A																								
5.4	<p>Door mass and closing force</p> <table border="1"> <thead> <tr> <th>Grade</th> <th>Door mass</th> <th>Closing force</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>up to 100 kg</td> <td rowspan="3">50 N</td> </tr> <tr> <td>2</td> <td>up to 200 kg</td> </tr> <tr> <td>3</td> <td>above 200 kg or specified by the manufacturer</td> </tr> <tr> <td>4</td> <td>up to 100 kg</td> <td rowspan="3">25 N</td> </tr> <tr> <td>5</td> <td><b>up to 200 kg</b></td> </tr> <tr> <td>6</td> <td>above 200 kg or specified by the manufacturer</td> </tr> <tr> <td>7</td> <td>up to 100 kg</td> <td rowspan="3">15 N</td> </tr> <tr> <td>8</td> <td>up to 200 kg</td> </tr> <tr> <td>9</td> <td>above 200 kg or specified by the manufacturer</td> </tr> </tbody> </table>	Grade	Door mass	Closing force	1	up to 100 kg	50 N	2	up to 200 kg	3	above 200 kg or specified by the manufacturer	4	up to 100 kg	25 N	5	<b>up to 200 kg</b>	6	above 200 kg or specified by the manufacturer	7	up to 100 kg	15 N	8	up to 200 kg	9	above 200 kg or specified by the manufacturer	<p>Grade 5</p> <p>Door mass: 200 kg</p> <p>Measured closing force: 19,6 N</p>	P
Grade	Door mass	Closing force																									
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5.5	Suitability for use on fire/ smoke doors	Not included in this performance test report.	—																								
5.6	Safety	No safety requirement	N/A																								



EN 14846				Verdict																																																						
Clause	Requirement - Test	Result - Remark																																																								
5.7	<p>Corrosion resistance, temperature and humidity requirements</p> <p>Table 4 — Corrosion resistance, temperature and humidity</p> <table border="1"> <thead> <tr> <th>Grade</th> <th>Corrosion resistance</th> <th>Temperature</th> <th>Humidity</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No defined resistance</td> <td>No defined resistance</td> <td>No defined resistance</td> </tr> <tr> <td>A</td> <td>No defined resistance</td> <td>No defined resistance</td> <td>Level 1</td> </tr> <tr> <td>B</td> <td>No defined resistance</td> <td rowspan="5">+5 °C to +55 °C</td> <td>Level 2</td> </tr> <tr> <td>C</td> <td>Low resistance</td> <td>Level 1</td> </tr> <tr> <td>D</td> <td>Moderate resistance</td> <td>Level 1</td> </tr> <tr> <td>E</td> <td>High resistance</td> <td>Level 1</td> </tr> <tr> <td>F</td> <td>Very high resistance</td> <td>Level 1</td> </tr> <tr> <td>G</td> <td>Moderate resistance</td> <td rowspan="3">-10 °C to +55 °C</td> <td>Level 1</td> </tr> <tr> <td>H</td> <td>High resistance</td> <td>Level 1</td> </tr> <tr> <td>J</td> <td><b>Very high resistance</b></td> <td>Level 1</td> </tr> <tr> <td>K</td> <td>Moderate resistance</td> <td rowspan="5">-25 °C to +70 °C</td> <td>Level 2</td> </tr> <tr> <td>L</td> <td>High resistance</td> <td>Level 2</td> </tr> <tr> <td>M</td> <td>Very high resistance</td> <td>Level 2</td> </tr> <tr> <td>N</td> <td>No defined resistance</td> <td>Level 1</td> </tr> <tr> <td>P</td> <td>No defined resistance</td> <td>Level 2</td> </tr> </tbody> </table>	Grade	Corrosion resistance	Temperature	Humidity	0	No defined resistance	No defined resistance	No defined resistance	A	No defined resistance	No defined resistance	Level 1	B	No defined resistance	+5 °C to +55 °C	Level 2	C	Low resistance	Level 1	D	Moderate resistance	Level 1	E	High resistance	Level 1	F	Very high resistance	Level 1	G	Moderate resistance	-10 °C to +55 °C	Level 1	H	High resistance	Level 1	J	<b>Very high resistance</b>	Level 1	K	Moderate resistance	-25 °C to +70 °C	Level 2	L	High resistance	Level 2	M	Very high resistance	Level 2	N	No defined resistance	Level 1	P	No defined resistance	Level 2			
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5.7.1	<p>Corrosion resistance</p> <p>The grade of corrosion resistance achieved shall be included in the classification coding as specified in Table 4</p> <table border="1"> <thead> <tr> <th>Corrosion resistance</th> <th>Exposure</th> <th>Grade per EN 1670</th> </tr> </thead> <tbody> <tr> <td>Low resistance</td> <td>24 h ± 1 h</td> <td>Grade 1</td> </tr> <tr> <td>Moderate resistance</td> <td>48 h ± 1 h</td> <td>Grade 2</td> </tr> <tr> <td>High resistance</td> <td>96 h ± 1 h</td> <td>Grade 3</td> </tr> <tr> <td>Very high resistance</td> <td>240 h ± 1 h</td> <td>Grade 4</td> </tr> </tbody> </table> <p>The energy required to operate the deadbolt or latch bolt for the last three shall not exceed the operation energy for normal operations by more than 20 %.</p>	Corrosion resistance	Exposure	Grade per EN 1670	Low resistance	24 h ± 1 h	Grade 1	Moderate resistance	48 h ± 1 h	Grade 2	High resistance	96 h ± 1 h	Grade 3	Very high resistance	240 h ± 1 h	Grade 4	<p>Grade J</p> <p>EN 1670:2007 Grade 4: 240 hours</p> <p>The batteries were on service during thr test.</p> <p>Torque to operate deadbolt on key: 0,52 Nm</p> <p>Torque to operate deadbolt on follower: 3,0 Nm</p> <p>Torque to withdraw latch bolt with handle: 2,2 Nm</p>	P																																								
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Clause	Requirement - Test	Result - Remark	Verdict									
5.7.2	<p>Resistance to a range of temperatures</p> <p>The product shall operate at the temperatures specified in Table 4.</p> <p>The product shall continue to operate as declared during and after the test. During any individual test, performance shall not drop by more than 25 % below the level achievable at the start of the test. After the test the product shall operate as declared .....</p>	<p>Grade J</p> <p>Initial test at normal temperature:</p> <p>Torque to operate deadbolt on key: 0,56 Nm</p> <p>Torque to operate deadbolt on follower: 2,8 Nm</p> <p>Torque to withdraw latch bolt with handle: 2,2 Nm</p> <p>At -10°C:</p> <p>Torque to operate deadbolt on key: 0,60 Nm</p> <p>Torque to operate deadbolt on follower: 2,9 Nm</p> <p>Torque to withdraw latch bolt with handle: 2,2 Nm</p> <p>At +55°C:</p> <p>Torque to operate deadbolt on key: 0,54 Nm</p> <p>Torque to operate deadbolt on follower: 2,8 Nm</p> <p>Torque to withdraw latch bolt with handle: 2,0 Nm</p> <p>After temperature test, the product functions correctly.</p>	P									
5.7.3	<p>Resistance to cyclic humidity</p> <p>The product shall endure humidity at elevated temperatures with requirement specified in Table 4:</p> <table border="1" data-bbox="295 1161 719 1237"> <thead> <tr> <th>Level</th> <th>Temperature</th> <th>Humidity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+ 40 °C</td> <td>95%</td> </tr> <tr> <td>2</td> <td>+ 55 °C</td> <td>95%</td> </tr> </tbody> </table>	Level	Temperature	Humidity	1	+ 40 °C	95%	2	+ 55 °C	95%	<p>Grade J</p> <p>Level 1: +40°C with initial relative humidity of 95%.</p> <p>The product functions correctly during and after the test.</p>	P
Level	Temperature	Humidity										
1	+ 40 °C	95%										
2	+ 55 °C	95%										





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Clause	Requirement - Test	Result - Remark	Verdict																																																																																																																																																																																																										
5.8	Security requirements Table 5 of EN 12209 — Security requirements																																																																																																																																																																																																												
	<table border="1"> <thead> <tr> <th rowspan="2">Requirement</th> <th rowspan="2">Test param</th> <th colspan="7">Grade of security</th> <th rowspan="2">Unit</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>Torque resistance of knob on bored lock and latch sets</td> <td rowspan="2">M9</td> <td>10</td> <td>15</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Nm</td> </tr> <tr> <td>Torque resistance of lever handle on bored lock and latch sets</td> <td>20</td> <td>30</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Nm</td> </tr> <tr> <td>Torque resistance of knob or lever handle on Rim nighth latches</td> <td>M10</td> <td>-</td> <td>-</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>kN</td> </tr> <tr> <td>- side load on deadbolt</td> <td>F4</td> <td>1</td> <td>3</td> <td>5</td> <td>7</td> <td>7</td> <td>10</td> <td>10</td> <td>kN</td> </tr> <tr> <td>- net drilling time for sideload test</td> <td rowspan="2">t</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>3</td> <td>-</td> <td>5</td> <td rowspan="2">min</td> </tr> <tr> <td>- total drilling time for sideload test</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>5</td> <td>-</td> <td>10</td> </tr> <tr> <td>Deadbolt projection</td> <td>L1</td> <td>10</td> <td>12</td> <td>14</td> <td>20</td> <td>20</td> <td>20</td> <td>20</td> <td>mm</td> </tr> <tr> <td>- end load</td> <td>F5</td> <td>1</td> <td>2</td> <td>4</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> <td>kN</td> </tr> <tr> <td>- resulting projection</td> <td>L2</td> <td>8</td> <td>10</td> <td>11</td> <td>17</td> <td>17</td> <td>17</td> <td>17</td> <td>mm</td> </tr> <tr> <td>- net drilling time for endload test</td> <td rowspan="2">t</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>3</td> <td>-</td> <td>5</td> <td rowspan="2">min</td> </tr> <tr> <td>- total drilling time for endload test</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>5</td> <td>-</td> <td>10</td> </tr> <tr> <td>Resistance to pulling of hook/claw bolt</td> <td>F6</td> <td>1</td> <td>3</td> <td>5</td> <td>7</td> <td>7</td> <td>10</td> <td>10</td> <td>kN</td> </tr> <tr> <td>Resistance to disengaging of hook/claw bolt</td> <td>F7</td> <td>1</td> <td>2</td> <td>4</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> <td>kN</td> </tr> <tr> <td>Resistance to forcing of locating devices in sliding door lock</td> <td>F8</td> <td>1</td> <td>3</td> <td>4</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> <td>kN</td> </tr> <tr> <td>Resistance to pulling off of knob on bored lock and latch sets</td> <td>F9</td> <td>1</td> <td>1,5</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>kN</td> </tr> <tr> <td>Resistance to end load on box protected locking plates</td> <td>F5 L3</td> <td>-</td> <td>-</td> <td>4 13</td> <td>5 19</td> <td>5 19</td> <td>6 19</td> <td>6 19</td> <td>kN mm</td> </tr> <tr> <td>Resistance to side load on locking plate</td> <td>F4</td> <td>1</td> <td>3</td> <td>5</td> <td>7</td> <td>7</td> <td>10</td> <td>10</td> <td>kN</td> </tr> <tr> <td>Resistance to pulling on locking plate</td> <td>F6</td> <td>1</td> <td>3</td> <td>5</td> <td>7</td> <td>7</td> <td>10</td> <td>10</td> <td>kN</td> </tr> <tr> <td>Resistance to lifting force on locking plate</td> <td>F8</td> <td>1</td> <td>3</td> <td>4</td> <td>5</td> <td>5</td> <td>6</td> <td>6</td> <td>kN</td> </tr> </tbody> </table>	Requirement	Test param	Grade of security							Unit	1	2	3	4	5	6	7	Torque resistance of knob on bored lock and latch sets	M9	10	15	-	-	-	-	-	Nm	Torque resistance of lever handle on bored lock and latch sets	20	30	-	-	-	-	-	Nm	Torque resistance of knob or lever handle on Rim nighth latches	M10	-	-	1	1	1	1	1	kN	- side load on deadbolt	F4	1	3	5	7	7	10	10	kN	- net drilling time for sideload test	t	-	-	-	-	3	-	5	min	- total drilling time for sideload test	-	-	-	-	5	-	10	Deadbolt projection	L1	10	12	14	20	20	20	20	mm	- end load	F5	1	2	4	5	5	6	6	kN	- resulting projection	L2	8	10	11	17	17	17	17	mm	- net drilling time for endload test	t	-	-	-	-	3	-	5	min	- total drilling time for endload test	-	-	-	-	5	-	10	Resistance to pulling of hook/claw bolt	F6	1	3	5	7	7	10	10	kN	Resistance to disengaging of hook/claw bolt	F7	1	2	4	5	5	6	6	kN	Resistance to forcing of locating devices in sliding door lock	F8	1	3	4	5	5	6	6	kN	Resistance to pulling off of knob on bored lock and latch sets	F9	1	1,5	-	-	-	-	-	kN	Resistance to end load on box protected locking plates	F5 L3	-	-	4 13	5 19	5 19	6 19	6 19	kN mm	Resistance to side load on locking plate	F4	1	3	5	7	7	10	10	kN	Resistance to pulling on locking plate	F6	1	3	5	7	7	10	10	kN	Resistance to lifting force on locking plate	F8	1	3	4	5	5	6	6	kN		
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Deadbolt projection	L1	10	12	14	20	20	20	20	mm																																																																																																																																																																																																				
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- resulting projection	L2	8	10	11	17	17	17	17	mm																																																																																																																																																																																																				
- net drilling time for endload test	t	-	-	-	-	3	-	5	min																																																																																																																																																																																																				
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## EN 14846

Clause	Requirement - Test	Result - Remark	Verdict
5.8.1	Torque resistance of knob		
5.8.1.1	Torque resistance of knob or lever handle on bored lock and latch sets	Not applicable for mortice lock	N/A
5.8.1.2	Torque resistance of knob or lever handle on rim night latch	Not applicable for mortice lock	N/A
5.8.2	Requirements for side load		—
5.8.2.1	Resistance to side load on deadbolt The dead bolt shall resist a side load F4 (see Table 5 of EN 12209)	Grade 3 F4: 5 kN	P
5.8.2.2	Resistance to drilling and side load on deadbolt The deadbolt shall resist a drilling for time 'T' and side load F4 (see Table 5 of EN 12209)	Grade 3 For Grade 5 and 7 only	N/A
5.8.3	Deadbolt projection The deadbolt when fully thrown in the locking direction and detained, shall have a minimum projection L1 (see Table 5 of EN 12209)	Grade 3 L1: 19,2 mm	P
5.8.4	Requirements for end load on deadbolt		—
5.8.4.1	Resistance to end load The product shall resist an end load of F5. At no time during or after the test shall the bolt projection be less than L2 (see Table 5 of EN 12209)	Grade 3 F5: 4 kN L2: 19,2 mm	P
5.8.4.2	Resistance to endload with drilling The product shall be subjected to drilling for a time 'T', and afterwards resist an end load of F5. At no time during or after the test shall the bolt projection be less than L2 (see Table 5 of EN 12209)	Grade 3 For Grade 5 and 7 only	N/A
5.8.5	Resistance to pulling of hook/claw bolt The bolt shall resist a direct pull of F6 (requirement see Table 5 of EN 12209)	No hook/claw bolt	N/A
5.8.6	Resistance to disengaging of hook/claw bolt The bolt shall not force the lock open with a disengaging force of F7 (see Table 5 of EN 12209)	No hook/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	Applicable for bored knob door lock only	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 F4 (see Table 5 of EN 12209)	Grade 3 F4: 5 kN	P



## EN 14846

Clause	Requirement - Test	Result - Remark	Verdict
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.	Grade 1 A visual signal with different color and beep voice were used to indicate the status. Before and after the test 200 000 cycles, the electrical function was still correct.	P
5.10	Security – Electrical manipulation		—
5.10.1	General		—
5.10.2	Voltage drop protection When tested in accordance with 6.10.1 with supply voltage dips and short interruptions, the locking mechanism and its operational parts shall maintain its status .....	Grade 2 The test levels and durations were 70% 10ms, 40% 100ms and 0% 5s The lock deadlocked correctly during the test.	P
5.10.3	Protection against the effects of cutting cables When tested in accordance with 6.10.2 by cutting or short-circuiting of all the wires of one cable linking the electromechanical lock or strike to other units, the locking mechanism and its operational parts shall maintain its status. This requirement applies to any cable linking the electromechanical lock or strike to other units .....	Grade 2 After cutting power and short-circuiting, the lock deadlocked correctly during the test.	P
5.10.4	Protection against the effects of wire manipulation When tested in accordance with 6.10.3 by manipulating in the form of an electrical or magnetic pulse (or sequence of pulses) applied to any wires linking the electromechanical lock or strike to other units, the locking mechanism and its operational parts shall maintain its status .....	Not applicable for this product	N/A
5.10.5	Resistance to electromagnetic manipulation When tested in accordance with 6.10.4, by strong electromagnetic fields, the locking mechanism and its operational parts shall maintain its status .....	Grade 2 Level 3 and Level 4 Frequency range 80 to 1000 MHz Exposed side: Front, Rear, Left and Right Field strength: 10V/m; 30V/m The lock deadlocked correctly during the test.	P

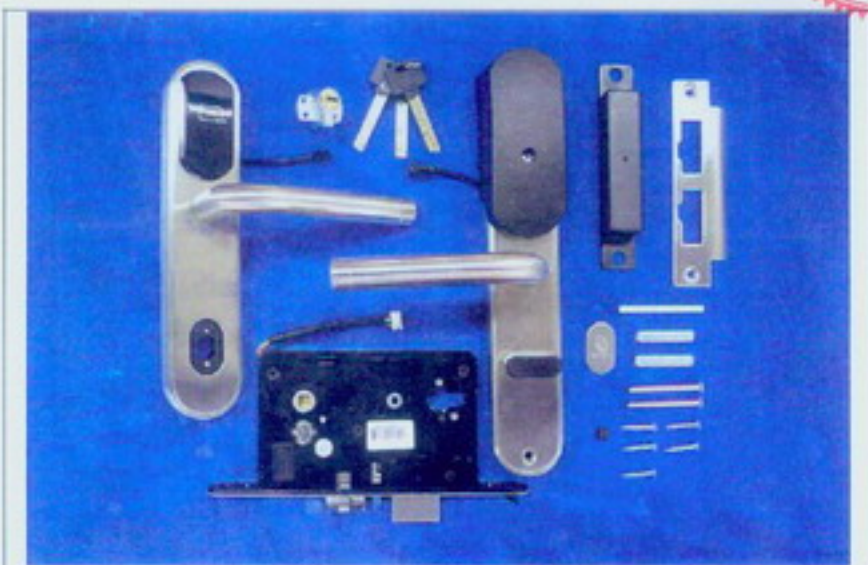


EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
5.10.6	Resistance to electrostatic discharge When tested in accordance with 6.10.5, with electrostatic discharges the locking mechanism and its operational parts shall maintain its status.....	Grade 2 After test, the lock was operable and the operational parts were maintained in its initial status.	P
5.10.7	Resistance to electrostatic manipulation When tested in accordance with 6.10.6, with a minimum of 200 electrostatic discharges at the energy levels specified in EN 61000-4-2:1995, level 4, except that the discharge frequency shall not exceed 10 Hz, the locking mechanics and its operational parts shall maintain its status.....	Grade 2 Applied $\pm 8$ kV voltage 200 times of Direct Contact Discharge, $\pm 15$ kV voltage 200 times of Direct Air Discharge, $\pm 8$ kV voltage 200 times of indirect discharge (HCP), $\pm 8$ kV voltage 200 times of indirect discharge (VCP). The lock deadlocked correctly during the test.	P
6	Test methods		—
7	Marking		—
	The following information shall be quoted in the labeling, packaging or literature. a) manufacturer's name or trademark or other means of positive identification; b) clear product identification c) classification according to clause 4 of this European Standard; d) number and date of this European Standard.	Not intended included in this report	—
8	Evaluation of conformity		—
8.1	Initial type test 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, .....	Not intended included in this report	—
8.2	Factory production control 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.....	Not intended included in this report	—
8.3	Further testing of samples 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 .....	Not intended included in this report	—

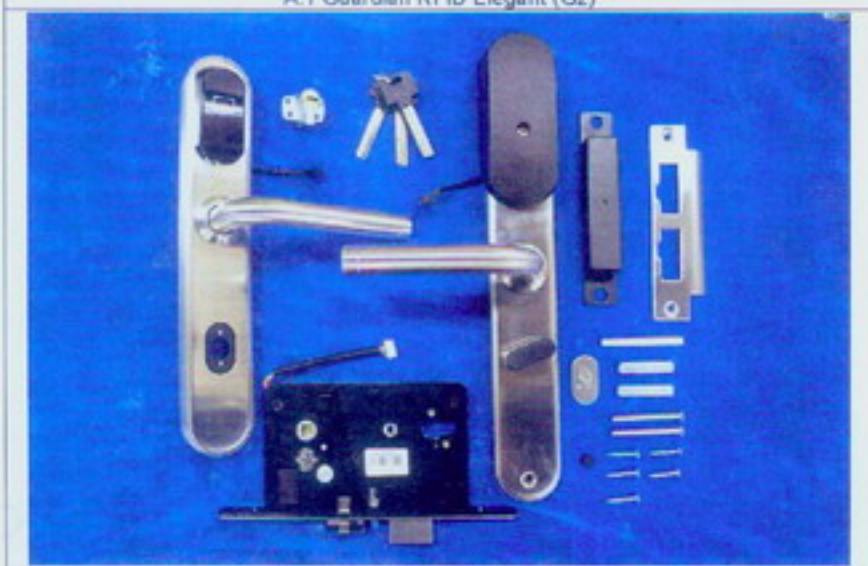
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Appendix A  
Product Photos



A.1 Guardian RFID Elegant (G2)



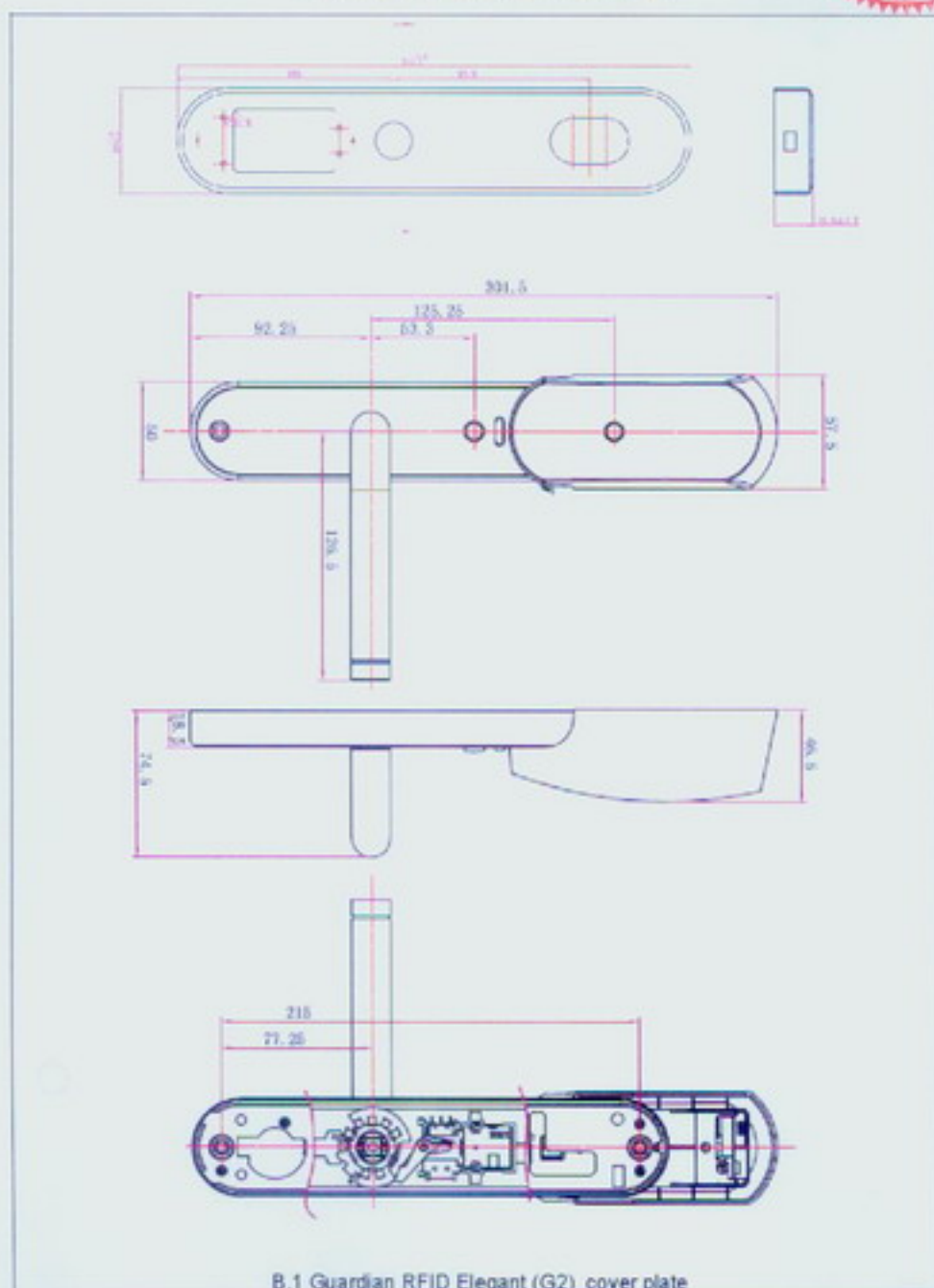
A.2 Guardian RFID Elegant Li (G3)

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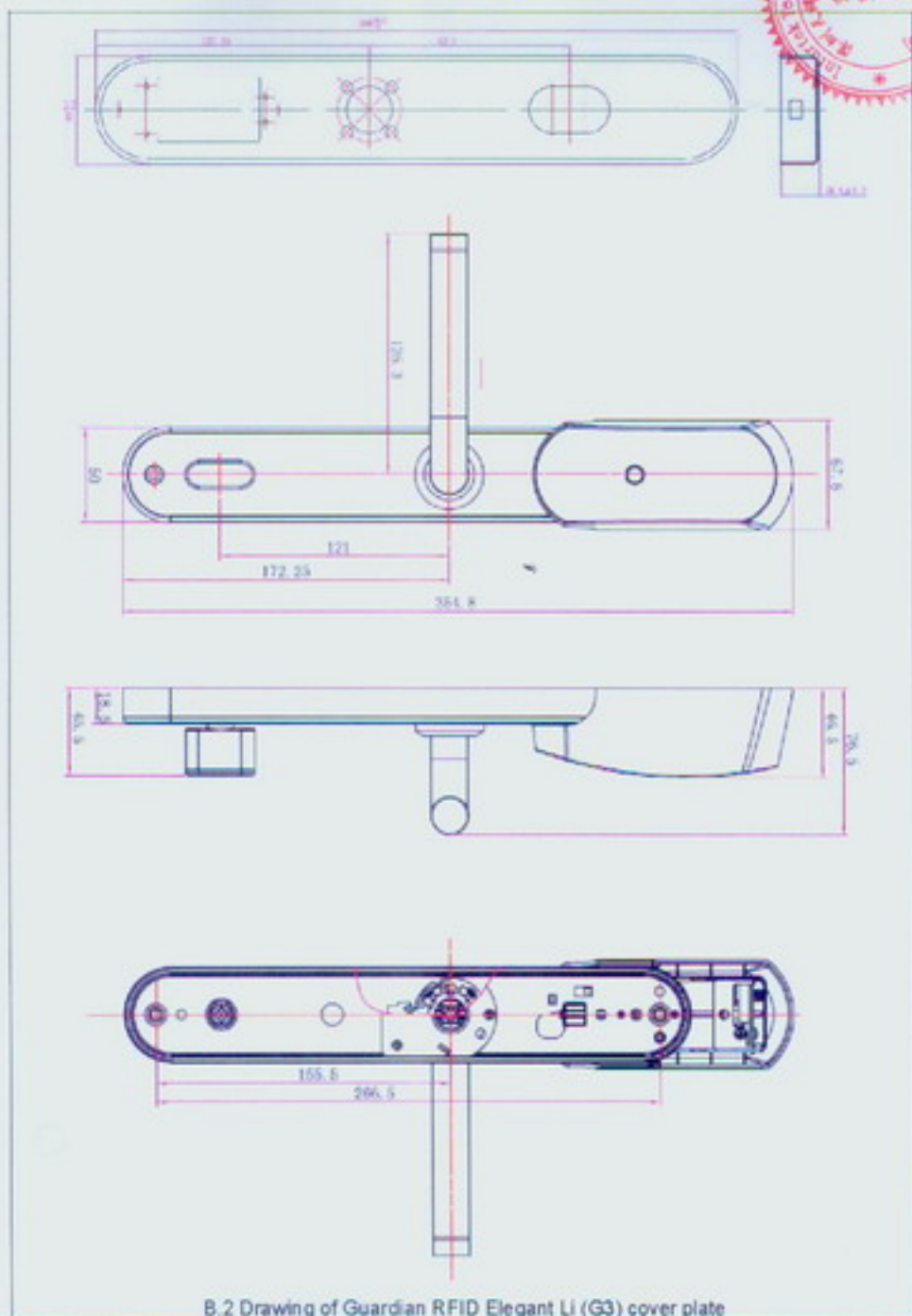


## Appendix B

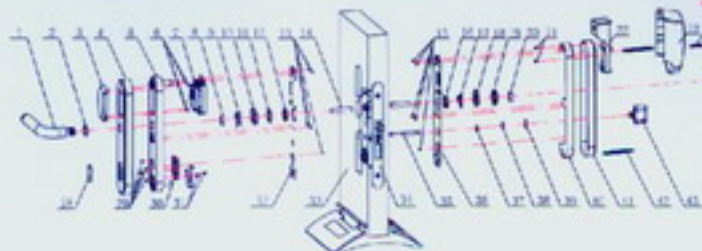
## Product Drawings and Bill of Material



B.1 Guardian RFID Elegant (G2) cover plate

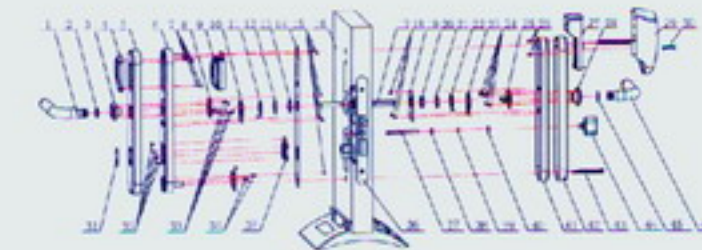


B.2 Drawing of Guardian RFID Elegant Li (G3) cover plate

序号	物料名称	产品型号/规格号	数量	备注	序号	物料名称	产品型号/规格号	数量	备注
1	500K电阻	SR-500	1		27	电源插座	ZP-92-2-20-91.50-01	1	
2	射频线圈	ZP-2080-2-11-010-00	1		28	开关电源	ZP-92-2-20-91.50-01	1	
3	电容	33-52-1-01-M-000-9148-00	1		29	磁芯板	ZP-92-2-20-91.50-01	1	
4	磁芯板	SR-1-1-1	1		30	射频线圈	ZP-2080-2-11-010-00	1	
5	电容	33-52-1-01-M-000-9148-00	1		31	射频线圈	ZP-2080-2-11-010-00	1	
6	十字槽螺丝	20-2080-2-11-010-00	4		32	射频线圈	ZP-2080-2-11-010-00	1	
7	磁芯板	ZP-2080-2-11-010-00	1		33	磁芯板	ZP-2080-2-11-010-00	1	
8	磁芯板	ZP-2080-2-11-010-00	1		34	十字槽螺丝	20-2080-2-11-010-00	1	
9	十字槽螺丝	20-2080-2-11-010-00	1		35	十字槽螺丝	20-2080-2-11-010-00	1	
10	磁芯板	ZP-2080-2-11-010-00	1		36	磁芯板	ZP-2080-2-11-010-00	1	
11	磁芯板	ZP-2080-2-11-010-00	1		37	十字槽螺丝	20-2080-2-11-010-00	1	
12	磁芯板	ZP-2080-2-11-010-00	1		38	磁芯板	ZP-2080-2-11-010-00	1	
13	十字槽螺丝	20-2080-2-11-010-00	1		39	磁芯板	ZP-2080-2-11-010-00	1	
14	磁芯板	ZP-2080-2-11-010-00	1		40	磁芯板	ZP-2080-2-11-010-00	1	
15	十字槽螺丝	20-2080-2-11-010-00	1		41	十字槽螺丝	20-2080-2-11-010-00	1	
16	磁芯板	ZP-2080-2-11-010-00	1		42	十字槽螺丝	20-2080-2-11-010-00	1	
17	十字槽螺丝	20-2080-2-11-010-00	1		43	磁芯板	ZP-2080-2-11-010-00	1	
18	十字槽螺丝	20-2080-2-11-010-00	1						
19	十字槽螺丝	20-2080-2-11-010-00	1						
20	磁芯板	ZP-2080-2-11-010-00	1						
21	十字槽螺丝	20-2080-2-11-010-00	1						
22	磁芯板	ZP-2080-2-11-010-00	1						
23	十字槽螺丝	20-2080-2-11-010-00	1						
24	磁芯板	ZP-2080-2-11-010-00	1						

B.3 Guardian RFID Elegant (G2) Drawing



序号	物料名称	产品型号/规格号	数量	备注	序号	物料名称	产品型号/规格号	数量	备注
1	500K电阻	SR-500	1		21	十字槽螺丝	20-2080-2-11-010-00	1	
2	射频线圈	ZP-2080-2-11-010-00	1		22	磁芯板	ZP-2080-2-11-010-00	1	
3	电容	33-52-1-01-M-000-9148-00	1		23	十字槽螺丝	20-2080-2-11-010-00	1	
4	磁芯板	ZP-2080-2-11-010-00	1		24	十字槽螺丝	20-2080-2-11-010-00	1	
5	电容	33-52-1-01-M-000-9148-00	1		25	十字槽螺丝	20-2080-2-11-010-00	1	
6	十字槽螺丝	20-2080-2-11-010-00	1		26	十字槽螺丝	20-2080-2-11-010-00	1	
7	十字槽螺丝	20-2080-2-11-010-00	1		27	十字槽螺丝	20-2080-2-11-010-00	1	
8	十字槽螺丝	20-2080-2-11-010-00	1		28	十字槽螺丝	20-2080-2-11-010-00	1	
9	十字槽螺丝	20-2080-2-11-010-00	1		29	十字槽螺丝	20-2080-2-11-010-00	1	
10	十字槽螺丝	20-2080-2-11-010-00	1		30	十字槽螺丝	20-2080-2-11-010-00	1	
11	十字槽螺丝	20-2080-2-11-010-00	1		31	十字槽螺丝	20-2080-2-11-010-00	1	
12	十字槽螺丝	20-2080-2-11-010-00	1		32	十字槽螺丝	20-2080-2-11-010-00	1	
13	十字槽螺丝	20-2080-2-11-010-00	1		33	十字槽螺丝	20-2080-2-11-010-00	1	
14	十字槽螺丝	20-2080-2-11-010-00	1		34	十字槽螺丝	20-2080-2-11-010-00	1	
15	十字槽螺丝	20-2080-2-11-010-00	1		35	十字槽螺丝	20-2080-2-11-010-00	1	
16	十字槽螺丝	20-2080-2-11-010-00	1		36	十字槽螺丝	20-2080-2-11-010-00	1	
17	十字槽螺丝	20-2080-2-11-010-00	1		37	十字槽螺丝	20-2080-2-11-010-00	1	
18	十字槽螺丝	20-2080-2-11-010-00	1		38	十字槽螺丝	20-2080-2-11-010-00	1	
19	十字槽螺丝	20-2080-2-11-010-00	1		39	十字槽螺丝	20-2080-2-11-010-00	1	
20	十字槽螺丝	20-2080-2-11-010-00	1		40	十字槽螺丝	20-2080-2-11-010-00	1	
21	十字槽螺丝	20-2080-2-11-010-00	1		41	十字槽螺丝	20-2080-2-11-010-00	1	
22	十字槽螺丝	20-2080-2-11-010-00	1		42	十字槽螺丝	20-2080-2-11-010-00	1	
23	十字槽螺丝	20-2080-2-11-010-00	1		43	十字槽螺丝	20-2080-2-11-010-00	1	
24	十字槽螺丝	20-2080-2-11-010-00	1		44	十字槽螺丝	20-2080-2-11-010-00	1	
25	十字槽螺丝	20-2080-2-11-010-00	1		45	十字槽螺丝	20-2080-2-11-010-00	1	
26	十字槽螺丝	20-2080-2-11-010-00	1		46	十字槽螺丝	20-2080-2-11-010-00	1	

B.4 Guardian RFID Elegant Li (G3) Drawing





子件编码	子件名称	子件规格
102-S65-1A-1A-S6-03	右侧总成(标准)	右 非空转结构 必达商标 玻璃芯组件 橡胶密封芯组件
20-S65-1-03-W0013-ST01-01	右侧面板	01.5 201 不锈钢拉丝 必达商标带“CE”标志 3.0mm厚 正
20-S65-1-02-FE56-00	右侧支架	65Mn钢板 03.0
2000-040060-ST00-01	十字槽沉头螺钉	M4*6 不锈钢 GB619-1997
20-S65-1-13-FE46-00	开关压板	镀锌钢板 01.0
2000-040060-FE56-01	十字槽沉头螺钉	M4*6 发黑 GB619-1997
20-S65-1-27-FE56-00	开关压板扣管	镀锌铁丝φ0.5 黑色
20-S65-1-5-46-00	快拆按钮件	镀锌件
20-S65-1-1-00-00	方锁舌组件	304不锈钢粉末冶金方锁舌, 无商标
21-S65-1-1-01/1-ST00-00	方锁舌	304不锈钢粉末冶金 材料
21-S65-1-09-ST01-00	保险舌	304不锈钢粉末冶金 不锈钢的丝
21-S65-1-09-ST00-00	保险舌	304不锈钢粉末冶金, 材料
20-S65-1-10-FE46-00	上推板	Q235-A 钢板02.0 镀锌件
20-S65-1-07-FE46-00	下推板	Q235-A 钢板02.0 镀锌件
25-S61-01-11A-FE56-00	保险舌扣簧	φ1.0 70-C 弹簧黄铜丝 发黑
20-S65-1-08-FE46-00	驱动板	Q235-A 钢板02.0 镀锌件
20-S65-1-6-46-00	保险限位组件	镀锌件
20-S65-1-16A-FE46-00	保险板	Q235-A 钢板02.0 镀锌件 用20-S65-1-16-FE46-00补加工
20-S65-1-16-FE46-00	保险板	Q235-A 钢板02.0 镀锌件
24-S65-1-12-FE46-00	隔套	西钢φ11 镀锌件
2000-030060-FE56-01	十字槽沉头螺钉	M3*6 发黑 GB619-1997
102-S65-1-7A-1-03	橡胶组件	非空转正使用 使用S65-1-7A-1-03橡胶
23-S65-1-7-01-PL56-00	离合瓣盖	ABS塑料 黑色
23-S65-1-7-02A-PL56-00	离合瓣壳	ABS塑料 黑色
23-S61-14-08A-PL00-00	尖塞	聚甲醛 本色 优先用完 23-S61-14-08-PL00-00
25-S61-14-09-ST00-00	尖塞弹簧	φ0.3 0Cr17Ni8Al 不锈钢镀锌铁丝
23-S61-14-07-PL00-00	管叉支架	聚甲醛 本色
25-S61-14-05-ST00-00	管叉	φ0.4 0Cr17Ni8Al 不锈钢镀锌铁丝
20-S65-1-7-04A-FE46-00	弹板	65Mn钢板03.0 镀锌件
103-S65-1-7A-3-02	电机牵引组件	非空转正使用 螺母去水口
102-MFF-1527PA-170B-00-00	电机螺杆组件	铝壳电机配AN2-DJZ-04 螺杆,
23-AN2-DJZ-04-PL00-01	螺杆	POM塑料 本色 螺杆去水口
2701-MFF-1527PA-170L B2-00	电机	铝壳电机
2702-S65-X-02/1-00	正极引线	红色
2702-S65-X-02/2-00	负极引线	黑色
25-S65-1-26-FE56-00	簧丝	镀锌铁丝φ0.5 黑色
20-S61-01-17-ST00-00	防尘罩	60.3.201 不锈钢板

B.5 Bill of Material



24-S65-1-23-FE46-00	定位销	碳钢Φ6 镀锌
20-S61-01-20-CU54-00	拨叉垫片	60.2 H62 Φ15
21-S65-1-18-SN46-00	外拨叉	锌基合金ZnAl4-1 镀锌
21-S65-1-19-SN46-00	内拨叉	锌基合金ZnAl4-1 镀锌
23-S65-1-26-PL56-00	拨槽板	ABS塑料 黑色
25-S65-1-17-FE56-00	拨叉扭簧	Φ1.0 70-C碳素弹簧钢丝 黑色
20-S65-1-4A-00-00	拨臂组件	采用下摆臂盖新边结构
23-S65-1-20A-PL56-00	开关架B	ABS塑料 黑色
103-S65-1-3E-00-00	拨舌簧扣组件	使用不锈钢铆钉, 拨舌板加厚及去除中间沉孔, 增加浇口工艺
20-S65-1-3E-00-00	拨舌组件	使用不锈钢铆钉, 拨舌板加厚及去除中间沉孔.
21-S65-1-3-01-ST00-00	拨舌壳	304不锈钢粉末冶金 材料
21-S65-1-3-02/1-ST00-00	拨块	304不锈钢粉末冶金 材料
20-S65-1-22-ST00-00	开关簧片	1Cr17Ni7 弹簧用不锈钢冷轧钢带 60.2
21-S65-1-05-SN46-00	拨叉	ZnAl4-1 锌基合金 镀锌
23-S65-1-11-PL56-00	开关架A	ABS塑料 黑色
25-S65-1-25-FE56-00	拨簧	弹簧钢带65Mn 黑色
20-S65-1-2A-56-00	锁舌壳组件	黑色电泳
20-S65-1-24-FE46-00	扇形板	Q235-A 钢板02.0 镀锌
20-S65-1-14B-FE56-00	盖板	钢板02.0 黑色电泳 无磨标
28-B-QC-1A-00	QC图标签	易碎纸
2609-030080-FE45-01	十字槽沉头螺钉	M3*6 镀锌 GB819-1997
10-S65-X-01/1-00-00	微动开关引线组件	S65锁舌用 安装于正装带开关锁舌
2702-S65-X-03-00	引线	
2708-M6-1382-02	微动开关	有直线路, 奥立科
23-050900-56-00	PVC套管	Φ5, 黑色, PVC套管 L=90.
2702-S65-X-01/1-00	连接引线	
100-G2-1-00-01-09	前组件总成	G256M 65A 不锈钢拉丝 (右) 82M-202A 带USB接口 脚踏手柄芯 前置手柄为304不锈钢
20-82-1-02-ST01-00	前罩壳	60.8 304不锈钢板, 不锈钢拉丝, 用于82M系列酒店门锁
10-79-1-2A-56-00	机芯支架组件	塑料 ABS 带磁块
23-79-1-03A-PL56-00	机芯罩支架	塑料 ABS 黑色
21-55-16-FE45-00	磁块	铁磁块 磁体
20-79-1-1B-FE56-00	前壳组件	01.5 黑色电泳, 新边六角连接支柱
20-79-1-05A-FE56-00	前底板	01.8 Q235-A 黑色电泳
25-2083-01Y-FE56-00	手柄扭簧(右)	Φ1.6 70-C碳素弹簧钢丝 黑色
23-2083-6-PL00-00	扭簧端盖	聚甲醛 POM 本色
20-2083-4B-FE46-00	扭簧定位卡	02.0 Q235-A 槽宽3mm 防手柄上翻
20-2083-37-FE66-00	止动垫圈	00.6 电解板
20-2083-39-FE46-00	滚珠粉	04.0 Q235-A

## B.6 Bill of Material



23-2886-16-PL00-00	手柄衬套	φ20 尼龙 1010 本色 厚度4mm
100-SB-56F-01-01	56#手柄组件	不锈钢拉丝 定位卡槽宽3.0mm (材料为304 不锈钢 取消原56手柄手柄芯旁的环形凹槽) 冷锻铁手柄芯 带凹槽 滚力轴弹簧 双打点结构
21-SB-56F-ST01-01	56#手柄	不锈钢拉丝 定位卡槽宽3.0mm (材料为304 不锈钢 取消原56手柄手柄芯旁的环形凹槽) 冷锻铁手柄芯
21-SB-56-01B-FE46-00	手柄芯	56#手柄用 Q235-A 冷锻铁 表面处理为镀锌白锌
22-L-2083-3H-01H-FE46-00	手柄芯	Q235A冷锻 镀锌白锌
322-050025170-00	珍珠棉袋	50*25*170塑料
25-2083-10D-FE56-00	方轴弹簧	φ0.8 70-C 弹簧 强锰钢丝, 黑色 带装饰
2800-030040-FE56-05	十字槽盘头螺钉	M3*4 黑色 GB818-85
2800-030040-FE56-01	十字槽沉头螺钉	M3*4 黑色 GB819-1997
2800-026065-FE45-04	十字槽沉头自攻螺钉	ST2.6*6.5 镀锌 GB846-85
2800-022045-FE45-07	十字槽盘头自攻螺钉	ST2.2*4.5 镀锌 GB845-85
2700-92M-202A-00	电路板(标准)	功能和原理与92M-201A相同
2709-BL/92M-202A-A-00	电路板	
2709-BF/92M-202A-A-00	电路板	
2711-UCAT0706-00	MCU	型号:ATMEGA88PA-AU(ATMEGA88V-10AU), 厂家:ATMEL, 封装:TOFP32, -40-85℃, 8K FLASH, 1K SRAM, 256B EEPROM, VDD=2.7-5.5V, 23个IO口, 耗电功耗1-3V@0.5uA, 内部RTC, 8Mhz
2711-UR650203-00	读写卡基站	型号:FM1701, 厂家:复旦微, 封装:SOP20, -25-85℃, 耗电功耗1-10uA, VDD=2.9-5.5V, 支持ISO14443 typeA协议
2711-UCRM01C03-00	电机驱动芯片	型号:BA6289F, 厂家:ROHM, 封装:SOP8, -20-75℃, Iout=600mA, Pd=650mW, VCC=3.5-15V, 常功耗<15uA
2711-UE24L64E42-00	存储器	型号:24LC64, 厂家:Microchip, 封装:SOP8, Vcc=2.5-5.5V, -40-85℃, f=400KHZ, SOP8
2711-UTPH0103-00	时钟芯片	型号:PCF8563T, 厂家:NXP, 封装:SOP6, -40-85℃, 400KHz的I2C总线接口, IDD=0.25uA (当VDD=3.0V, Tamb=25℃时), VDD=1.8-5.5V
2711-UVTR0114-00	5V LDO	型号:XC62FP5002, 厂家:TOREX, 封装:SOT-89, -40-85℃, Iout(max)=250mA, Vout=5V±2%, Vin(max)=12V, Pd=500mW
2711-P1PH0709-00	N型三极管	型号:BC817-40, 厂家:NXP, 封装:SOP23, -65-150℃, I0c=500MA, Vbe=1.2V, Vce=45V
2711-PD100314-00	GN1M-T二极管	型号:GN1M或GS1M, 厂家:固得威或ST(普格电子代理), 封装:DO-214AC(SMA), -55-150℃, VF=1.1V, VRM=1000V, Iav=1mA
2711-PD100203-00	4148 二极管	型号:LL4148, 厂家:固得威或ST(普格电子代理), 封装:SOD-80C, -65-175℃, VF=1.0V, VRM=100V, Iav=150mA

## B.7 Bill of Material

2711-PD100103-00	稳压管	型号:ZMM6 8、厂家:国瑞成ST(普格电子代理)、封装:SOD-80C、-65~150℃、Vz=6.4~7.2V、Iz=5mA
2711-PLTD222J11F-00	2.2uH±5%电感	型号:NL322522T-2R2J、厂家:TDK、封装:1210、IR=320mA、Q=30、最大直流电阻1R、最大自感频率75MHz
2711-PRYG104J03-00	贴片电阻(YAGEO 符合ROHS)	100KΩ±5% 1/16W (0603)
2711-PRYG101J03-00	贴片电阻(YAGEO 符合ROHS)	100Ω±5% (0603)
2711-PRYG821J03-00	贴片电阻(YAGEO 符合ROHS)	820Ω±5% (0603)
2711-PRYG102J03-00	贴片电阻(YAGEO 符合ROHS)	1KΩ±5% (0603)
2711-PRYG202J03-00	贴片电阻(YAGEO 符合ROHS)	2KΩ±5% (0603)
2711-PRYG103J03-00	贴片电阻(YAGEO 符合ROHS)	10KΩ±5% (0603)
2711-PRYG0R0J03-00	贴片电阻(YAGEO 符合ROHS)	0Ω±5% (0603)
2711-PRYG201J03-00	贴片电阻(YAGEO 符合ROHS)	200Ω±5% (0603)
2711-PCSG150J03B-00	贴片电容 (Samsung 符合ROHS)	15pF(15pF±5% 50V) (0603)
2711-PCC2470G500401-00	电容	贴片电容、-56℃~125℃、47pF±2%、50V耐压、0603
2711-PCSG330J03B-00	贴片电容 (Samsung 符合ROHS)	33pF(33pF±5% 50V) (0603)
2711-PCSG104K03B-00	贴片电容 (Samsung 符合ROHS)	104pF(0.1uF±10% 50V) (0603)
2711-S/79M-ZD1A(A120410)-00	PCB线路板	一字型桥板, 拼板间距1mm, 板厚: 1.2mm, 尺寸: 57.5mm*41.5mm.
2711-PRYG302J03-00	贴片电阻(YAGEO 符合ROHS)	3KΩ±5% (0603)
2708-PS08106S-00	微动开关	型号:TD-11XAY-A00、封装:SMD、Ls=2.6、TC-0120E (8±0.3 (0.5))
2711-PCTP107M01P-00	电解电容(TEAPO 符合ROHS)	100uF±20% 10V (DIP 5*7)
2711-PCTP109M12B-00	电解电容(TEAPO 符合ROHS)	1uF/50V ±20% (DIP 4*7)
2711-PB6403AS-00	蜂鸣器	KPM-G1205B
2711-PV0913M2D-00	晶振	13.560MHz, 负载电容为16p, PPM<30PPM (DIP)
2711-PVCT32K2D-00	晶振	32.768kHz, 负载电容为15p, PPM<20PPM (DIP) CITIZEN(格利特)或XDS(格合智远)
2711-LLY-0-02A-000-00	0.3W红绿共用发光管	型号:209-GDR3VGW530-AS/S195、厂家:亿光、封装:DIP、红灯λ=650nm,Vf=2.0、绿灯λ=570nm,Vf=2.1、发射角70°

B.B Bill of Material



2711-LIEL01R-00	Φ3红外接收管	型号:PT264-6B, 厂家:亿光, 封装:无焊锡SIP2, -40~85℃, 接收管, 电压Vcc=5V, 功耗75mW, 主波长:980nm
2711-LIEL05E-00	Φ3红外发射管	型号:IR264C, 厂家:亿光, 封装:无焊锡SIP2, -40~85℃, 发射管, 电压:Vr=5V, 功耗:150mW, 主波长:940nm
2702-2311-X-13-00	引线	红色1条, 黑色1条, L=120mm
2702-82M-X-01-00	USB板引线	插座:JC2.0-2P, XPH-2, 端子:JC2.0, SPH-002T, P0.6, UL1061AWG26#, 蓝, 黑, L=220±5mm, Φ2热缩管, L=165±5mm
2702-79M-X-03-00	天线板引线	插座:JC2.0-3P, PHR-3, 端子:JC2.0, SPH-002T, P0.65, 26.51, 灰, L=60mm
2703-CZ33PH005Z-00	PH-6A /2.0	DA=2mm, 6pin 直插
2711-PH0501D-00	自恢复保险丝	型号:GP60-005, 厂家:温派, 无铅无汞, 封装:DIP(图号:PHK-0-01A), -40~+65, 额定工作电压60V, 最大工作电流500mA, 最大承受电流40A
23-79-1-04B-PL56-00	电路板盒	塑料:ABS, 黑色
23-030850-56-00	PVC套管	Φ3, 黑色, PVC套管, L=05
23-030-PL56-00	PVC套管	Φ3, 黑色, PVC套管, 1m
23-L-2083-A-27-PL56-00	灯罩	塑料:ABS, 黑色
23-2083-A-27-PL56-00	灯罩	塑料:ABS, 黑色
2709-BL/82M-Z01A-B-00	电路板	
2709-BF/82M-Z01A-B-00	电路板	
2711-PCC2161G500401-00	电容	瓷片电容, -55℃~125℃, 160pF±2%, 50V耐压, 0603
2711-PCC2330G500401-00	电容	瓷片电容, -55℃~125℃, 33pF±2%, 50V耐压, 0603
2711-S/79M-Z01A(B120410)-00	PCB线路板	一共30块, 板厚:1.2mm, 尺寸43.5mm*26mm,
2711-PCC2200G500401-00	电容	瓷片电容, -55℃~125℃, 20pF±2%, 50V耐压, 0603
2703-CZ33PH008W-00	PH-3WA /2.0	DA=2mm, 3pin 弯插
23-82-1-03-PL56-00	天线支架	塑料:ABS(PC), 黑色
2709-BL/79M-Z01A-C-00	USB板	
2709-BF/25M4-Z01A-B-00	USB转接板(标准)	
2711-S/25M4-Z01A(B080618).PCB	PCB线路板	43.5*50
2703-CZ34USB01Z-00	USB-5P插座	5pin(小) 图号:USB-0-01A, 通用, 使用2703-USB-0-01A-002-00代替, 图号:USB-0-01A
2703-93B-XH-A-00	连接器	三芯弯插座, 白色, 2.5mm
23-82-1-01-W0000-PL6E-00	感应窗	塑料:PC, 透明红色, 可透红外光, 带磁卡丝印图案
101-G2-2-00-01-07	后盖伸芯成	G206M-65A, 不锈钢丝(左), 冷镀锌手柄, 后盖手柄为304不锈钢
20-79-2-01-ST01-00	后罩壳	00.8, 304不锈钢板, 不锈钢丝
23-82-2-01-PL56-00	电池盒盖	塑料:ABS, 黑色, 沙面
10-79-2-2-56-00	电池盒组件	塑料:ABS, 黑色, 用于7936酒渣机
23-79-2-03C-PL56-00	电池盒	塑料:ABS, 黑色

B.9 Bill of Material



25-79-2-2-01-ST00-00	电池弹簧	Φ0.7 不锈钢弹簧钢丝
2801-025050-CL45-29	空心铆钉	2.5*5 柄 GB876-86
2801-15-16/2-CL45-00	触点铆钉	T3 柄 铆钉
25-2350-03-65/3-ST00-00	电池弹簧	Φ0.6 0Cr17Ni8Al 不锈钢弹簧钢丝
2702-231-18-1/1-00	电源正极引线	红, L=120±5mm, 有10±5mm的黑色套管
23-040600-56-00	PVC套管	Φ4 黑色 PVC套管 L=60
2703-SMR-02V-B-00	连接器	二位插座, 黑色
2702-231-18-1/2-00	电源负极引线	黑, L=120±5mm, 有10±5mm的黑色套管
20-79-2-1A-FE56-00	外壳组件	Ø1.5 Q235-A, 黑色电泳
101-2083-17C-00-24-00	旋扭组件	2083, 2085, 扭扭螺
2806-110 FE56-36	轴用弹性垫圈	Φ11 黑色 GB894.1-88
20-2083-14/1-PL57-00	垫片	Ø0.6 PVC透明塑料板, Φ11.2
20-2083-102-00	波形弹性垫圈	Φ11 黑色, 用壳后采20-2083-102-FE56-00替换
2800-040250-ST00-58	内六角花形沉头螺钉	M4*25 不锈钢 GB2673-86
2800-022080-FE45-07	十字槽沉头自攻螺钉	ST2.2*8 镀锌 GB845-85
2800-030040-FE56-01	十字槽沉头螺钉	R2*4 黑色 GB819-1997
25-2083-5/12 FE56-00	手柄套管 (法)	Φ1.6 70-C 碳素弹簧钢丝, 黑色
23-2083-6-PL00-00	扭簧衬套	聚甲醛, POM, 本色
20-2083-4B-FE46-00	扭簧定位卡	Ø2.0 Q235-A, 槽宽3mm, 防手柄上板
20-2083-37-FE66-00	止动垫圈	Ø0.6 电镀锌
20-2083-38-FE46-00	滚螺母	Ø4.0 Q235-A
23-2886-16-PL00-00	手柄衬套	Φ20 尼龙 1010, 本色, 高度4mm
100-58-56F-01-01	56#手柄组件	不锈钢拉线, 定位卡槽宽3.0mm (材料为304不锈钢 取消 黑56手柄手柄芯旁的环形凹槽) 冷锻铁手柄芯, 带珍珠棉 袋, 方轴弹簧, 双打点结构
21-58-56F-ST01-01	56#手柄	不锈钢拉线, 定位卡槽宽3.0mm (材料为304不锈钢 取消 黑56手柄手柄芯旁的环形凹槽) 冷锻铁手柄芯
21-58-56-01B-FE46-00	手柄芯	56#手柄用, Q235-A 冷锻铁, 表面处理为镀锌件
224-2083-3+01HFE46-00	手柄芯	Q235A冷锻 镀锌件
322-050025170-00	珍珠棉袋	50*25*170塑料
25-2083-10D-FE56-00	方轴弹簧	Φ0.6 70-C 碳素弹簧钢丝, 黑色, 有股形
20-79-1-05A-FE56-00	射底板	Ø0.8 Q235-A 黑色电泳
300-58-B-3AA-00	包装盒	Ø1.5 层瓦楞白纸板, 345*187*140 (常规出口包装), 侧 面印刷英文表格
301-58-B-4AA-00	包装箱	0-2.3 双瓦楞纸, 735*360*200, 印刷图案, 英文版, 用E 面纸
310-B-79-01B-00	上泡沫	EPS可发性聚苯乙烯
310-B-79-02B-00	下泡沫	EPS可发性聚苯乙烯
29-PS-212009-01	开孔器	适用于门锁79.82XX(E-M)-65, 开孔器(跑道形锁舌面 板)1:1 英文版

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29-PS-212010-01	开孔图及安装说明 (中文版)	适用于门锁79-G200(E.M)-65 开孔图(侧视新漆面版) 开孔图及安装说明 英文版
303-140320-00/1	薄膜胶纸	140*320塑料
29-B-4-3-A-00	包装信封套	英文版
29-B-QC-1A-00	QC图标签	易碎纸
29-B-R-1-00	右图标签	不干胶
29-B-YX-1-00	空白图标签	不干胶
29-FH-2A-00	标签	纸(英文版)
29-HGZ-1-A-00	合格证	英文版
29-TXM-1-00	条形码	
14-PS-BG236M-00-01	钥匙配件包	不锈钢 适用于G2系列酒店锁门厚40-50mm 布线钉橡胶套
24-2083-12F-FE46-00	方轴	□0冷拉方钢 010*44,非硬柱
20-5222B-01-02A-W0001-ST01-00	锁芯盖	00.4 00Cr17不锈钢板 激光雕刻必达商标
20-5222B-01-02A-ST01-00	锁芯盖	00.4 00Cr17不锈钢板
2800-2083-26-ST01-00	内五角沉头螺钉	M5*55不锈钢
321-070050-00	密封袋	70*50塑料
321-120090-00	密封袋	120*90塑料
2800-042250-FE45-11	埋板自攻螺钉	4.2*25 镀锌 GB/T 14210-93
24-2083-A-19-FE46-00	旋臂方轴	□5冷拉方钢
21-SD-S65-2-SN46-00	锁芯组件	自制锁白锌 锌合金锁芯壳 必达商标
24-SD-S65-1-01A-CU00-00	锁芯轴	014黄铜棒 用SD-S65-1-01补加工
24-SD-S65-1-01-CU00-00	锁芯轴	014黄铜棒 材料
21-SD-S65-2-02-SN46-00	锁芯壳	锌基合金ZnAl4-1 用SD-S65-2-02/1补加工后电镀白锌
21-SD-S65-2-02/1-SN00-00	锁芯壳	锌基合金ZnAl4-1 材料
20-5S1-23-08-FE00-00	弹簧垫片	00.3 G235-A 锌板
25-5S1-23-07-ST00-00	锁芯弹簧	00.2 不锈钢弹簧钢丝
24-5S1-23-09-CU00-00	锁芯上弹子	02.8x8铜球
24-5S1-23-03-CU00-00	锁芯弹子	02.8x7.4铜球
24-5S1-23-04-CU00-00	锁芯弹子	02.8x7.0铜球
24-5S1-23-05-CU00-00	锁芯弹子	02.8x6.6铜球
24-5S1-23-06-CU00-00	锁芯弹子	02.8x6.2铜球
24-5S1-23-08A-CU00-00	锁芯弹子	02.8x5.8铜球
24-5S1-23-08B-CU00-00	锁芯弹子	02.8x5.4铜球
2807-026-FE45-21	弹簧拉圈	02.5 镀锌 GB93-87
2800-026050-FE45-05	十字槽盘头螺钉	M2.5*5 镀锌 GB918-85
20-SD-S65-1-03-FE46-00	拨轮	钢板02.0 镀锌
20-SD-S65-1-03-FE00-00	拨轮	钢板02.0 材料
20-SD-ABS-1-04-FE46-00	锁芯卡簧	01.2镀锌钢板
20-SD-ABS-1-06-FE46-00	锁芯拉圈	01.2镀锌钢板
23-K1-41-03C-PL00-00	机械钥匙	必达商标 常图案无英文
23-K1-41-03C/1-00	钥匙毛坯	必达商标 常图案无英文
25-150-FE10-00	铜拉圈	弹簧钢丝内径φ15
23-83-2-04-PL56-00	橡胶塞	丁腈橡胶 黑色砂面
20-S65-1-30-ST01-00	锁扣板	不锈钢板02.0 不锈钢拉线
23-S65-1-31-PL56-00	锁扣盘	ABS塑料 黑色

## B.11 Bill of Material

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## Revision Page

Revision No.	Date	Changes	Author	Reviewer
Original	January 21, 2014	First issue	Alan Lai	Blusea Dong

.....End of report.....