

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 :

3	S	5	-	0	J	3	1	2
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Model(s) : Guardian RFID Elegant (G2)
Guardian RFID Elegant Li (G3)

Brand name : 
BE-TECH 思达

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.

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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 									
Approved by (name and signature)	Blusea Dong 									
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									
Test specification:										
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)	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">3</td> <td style="width: 20px; text-align: center;">S</td> <td style="width: 20px; text-align: center;">5</td> <td style="width: 20px; text-align: center;">–</td> <td style="width: 20px; text-align: center;">0</td> <td style="width: 20px; text-align: center;">J</td> <td style="width: 20px; text-align: center;">3</td> <td style="width: 20px; text-align: center;">1</td> <td style="width: 20px; text-align: center;">2</td> </tr> </table>	3	S	5	–	0	J	3	1	2
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:

This report 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 report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. 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 in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

"(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			Verdict
5.2.1	Resistance to side load on latch The lock shall resist a side load F1 specified in Table 5			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			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			P
5.2.4	Torque resistance of lockable follower The lockable follower shall resist a torque M10 specified in Table 5			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:			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)).....			P
5.3.3	Durability of deadbolt mechanism			—

EN 14846																												
Clause	Requirement - Test		Result - Remark	Verdict																								
5.3.3.1	Durability of deadbolt mechanism mechanically operated 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.:		Grade S, manually operated. The deadbolt mechanism functions correctly after 50 000 cycles. The torque on key: 0,54 Nm (< 1,5 Nm) The torque on handle: 2,8 Nm (< 3 Nm)	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	Door mass and closing force <table><tr><th>Grade</th><th>Door mass</th><th>Closing force</th></tr><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>up to 200 kg</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></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	up to 200 kg	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	Grade 5 Door mass: 200 kg Measured closing force: 19,6 N	P
Grade	Door mass	Closing force																										
1	up to 100 kg	50 N																										
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3	above 200 kg or specified by the manufacturer																											
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7	up to 100 kg	15 N																										
8	up to 200 kg																											
9	above 200 kg or specified by the manufacturer																											
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				
Clause	Requirement - Test		Result - Remark	Verdict
5.7	Corrosion resistance, temperature and humidity requirements			
	Table 4 — Corrosion resistance, temperature and humidity			
	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	Very high resistance		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
5.7.1	Corrosion resistance		Grade J	P
	The grade of corrosion resistance achieved shall be included in the classification coding as specified in Table 4		EN 1670:2007 Grade 4: 240 hours	
	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	
	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 %.		The batteries were on service during thr test.	
			Torque to operate deadbolt on key: 0,52 Nm	
			Torque to operate deadbolt on follower: 3,0 Nm	
			Torque to withdraw latch bolt with handle: 2,2 Nm	



EN 14846												
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 that 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><tr><th>Level</th><th>Temperature</th><th>Humidity</th></tr><tr><td>1</td><td>+ 40 °C</td><td>95%</td></tr><tr><td>2</td><td>+ 55 °C</td><td>95%</td></tr></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><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><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 nighthatches</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></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 nighthatches	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
Requirement	Test param.	Grade of security							Unit																																																																																																																																																																																																				
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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																																																																																																																																																																																																				
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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																																																																																																																																																																																																				
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Resistance to lifting force on locking plate	F8	1	3	4	5	5	6	6	kN																																																																																																																																																																																																				

TTRF EN 14846:2008 (E) B

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch



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

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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

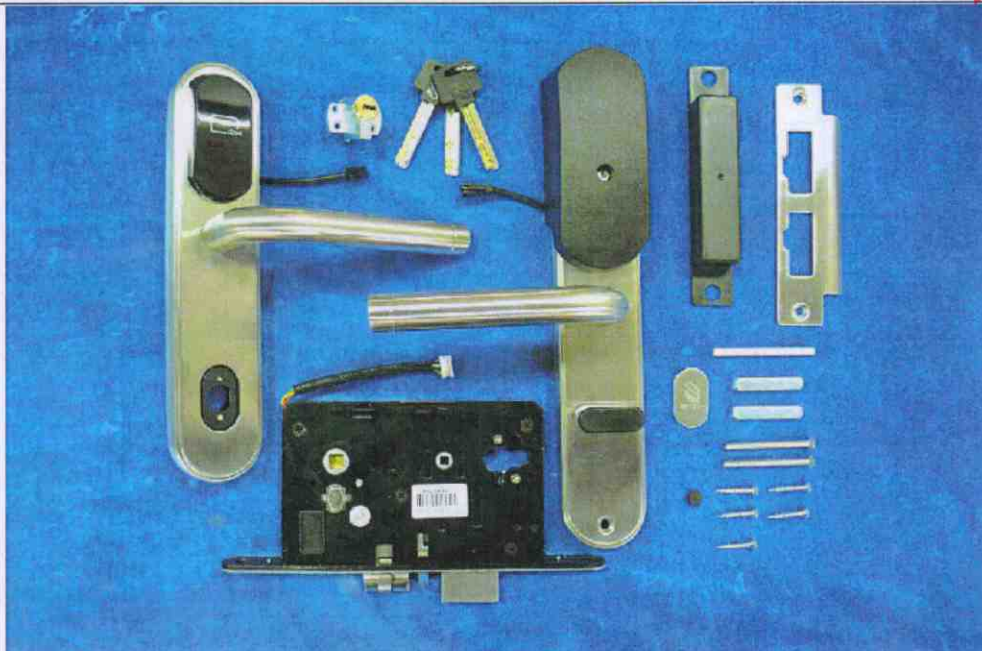


EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
5.10.6	Resistance to electrostatic discharge When tested in accordance with 6.10.5, with electrostatic discharges the locking mechanism and its operational parts shall maintain its status.....:	Grade 2 After test, the lock was operable and 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 ± 8 kV voltage 200 times of Direct Contact Discharge, ± 15 kV voltage 200 times of Direct Air Discharge, ± 8 kV voltage 200 times of Indirect discharge (HCP), ± 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)



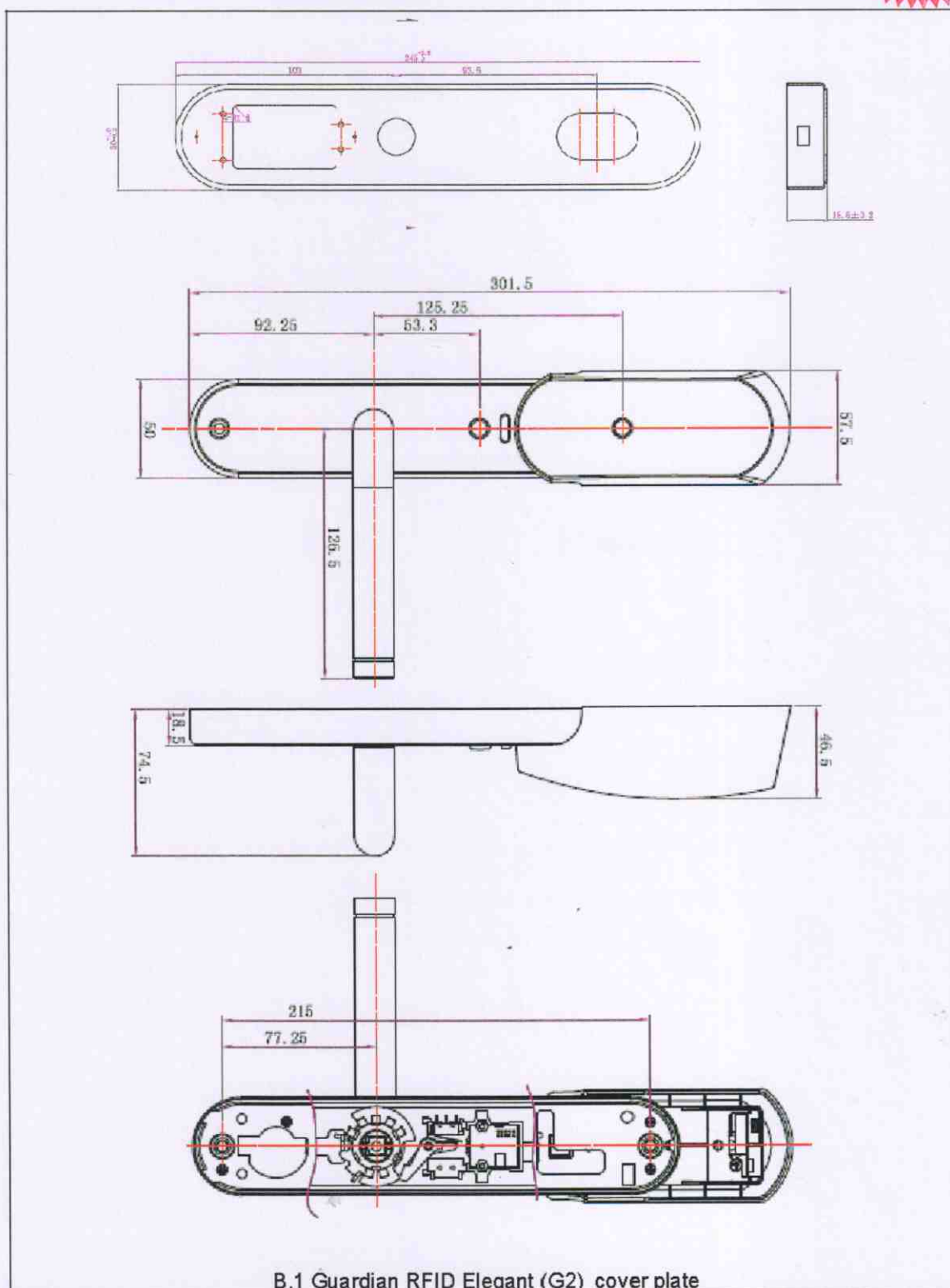
A.2 Guardian RFID Elegant Li (G3)

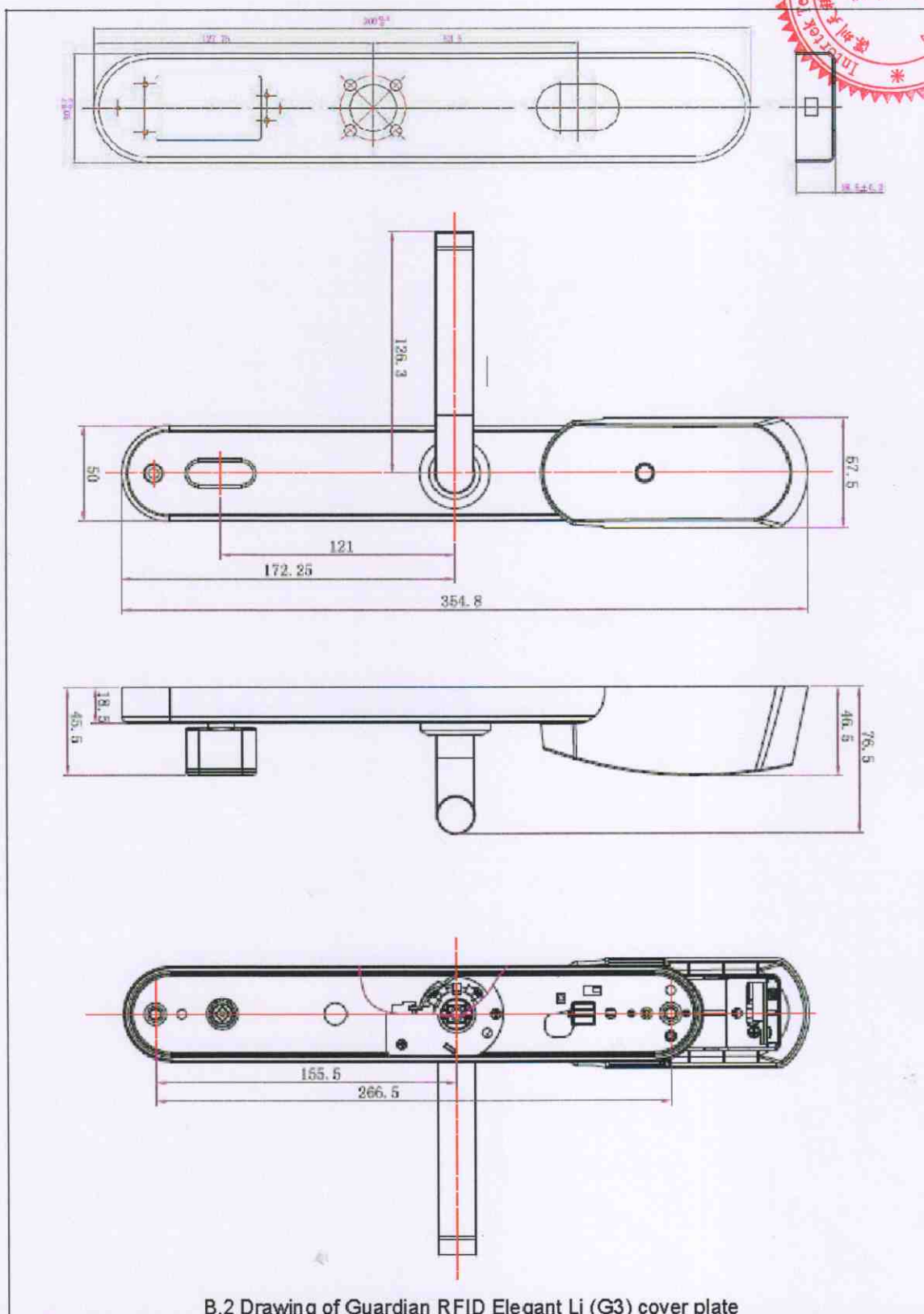
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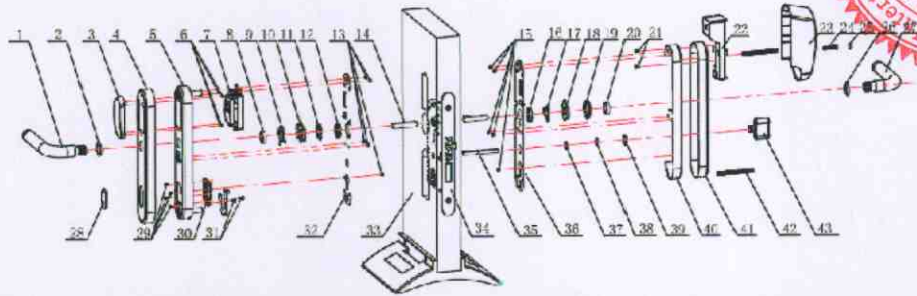
Appendix B

Product Drawings and Bill of Material





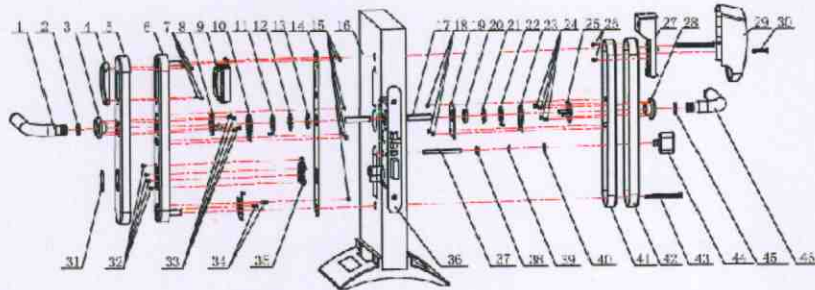
B.2 Drawing of Guardian RFID Elegant Li (G3) cover plate



序号	组件名称	产品图号或编号	数量	备注
1	56#手柄组件	SB-56F	1	
2	手柄衬套	23-2386-16-PL00-00	1	
3	感应管	23-82-1-01-W0009-PL6E-00	1	
4	前罩壳	82-1-02	1	
5	前壳组件	20-73-1-10-FE56-00	1	
6	十字槽沉头自攻螺钉	2800-022045-FE45-07	4	
7	电路板	2700-82M-Z02A-00	1	
8	扭簧隔套	23-2083-6-PL00-00	1	
9	手柄扭簧 (左)	23-2083-5/12-FE56-00	1	
10	扭簧定位卡	20-2083-43-FE46-00	1	
11	止动垫圈	20-2083-37-FE66-00	1	
12	圆螺母	20-2083-38-FE66-00	1	
13	十字槽沉头螺钉	2800-030040-FE56-01	5	
14	方轴	24-2083-12F-FE46-00	2	
15	十字槽沉头螺钉	2800-030040-FE56-01	5	
16	圆螺母	20-2083-38-FE66-00	1	
17	止动垫圈	20-2083-37-FE66-00	1	
18	扭簧定位卡	20-2083-43-FE46-00	1	
19	手柄扭簧 (左)	23-2083-5/12-FE56-00	1	
20	扭簧隔套	23-2083-6-PL00-00	1	
21	十字槽沉头自攻螺钉	2800-022045-FE45-07	2	
22	电池盒组件	10-73-2-2-56-00	1	

序号	组件名称	产品图号或编号	数量	备注
23	电池盒盖	23-82-2-01-PL56-00	1	
24	内六角花形螺钉	2800-040250-ST00-08	1	
25	橡胶套	23-83-2-04-PL56-00	1	
26	手柄衬套	23-2386-16-PL00-00	1	
27	56#手柄组件	SB-56F	1	
28	锁芯罩	20-5222B-01-02A-ST01-00	1	
29	十字槽沉头自攻螺钉	2800-022045-FE45-04	4	
30	锁芯支架组件	10-73-1-24-56-00	1	
31	十字槽沉头螺钉	2800-030040-FE56-05	2	
32	前盖板	20-73-1-05A-FE56-00	1	
33	样板架组件	10-YB-40E-W0000-00	1	
34	锁舌总成	102-S65-1A-1A-56-02	1	
35	旋转方轴	24-2083-19-FE46-00	1	
36	前盖板	20-73-1-05A-FE56-00	1	
37	弹性弹性挡圈	2806-110-FE56-36	1	
38	弹性弹性挡圈	20-2083-132-FE56-00	1	
39	垫片	20-2083-14/1-PL57-00	1	
40	后壳组件	20-73-2-14-FE56-00	1	
41	后罩壳	20-73-2-01-ST01-00	1	
42	内六角沉头螺钉	2083-26	2	
43	旋扭组件	LSA-2033-17C-00	1	

B.3 Guardian RFID Elegant (G2) Drawing



序号	组件名称	产品图号或编号	数量	备注
1	56#手柄组件	SB-56F	1	
2	手柄衬套	23-2386-16-PL00-00	1	
3	感应管	21-83-1-02A-ST01-00	1	
4	感应管	23-82-1-01-W0009-PL6E-00	1	
5	前罩壳	20-83-1-09-ST01-00	1	
6	前壳组件	20-83-1-3-FE56-00	1	
7	十字槽沉头自攻螺钉	2800-022045-FE45-07	4	
8	限位支架	20-83-1-03-FE45-00	1	
9	电路板	2700-83M-Z02A-00	1	
10	手柄扭簧	23-83-1-07-FE56-00	1	
11	定位卡	20-83-1-05A-FE46-00	1	
12	止动垫圈	20-2083-37-FE66-00	1	
13	圆螺母	20-2083-38-FE66-00	1	
14	前盖板	20-83-1-08-FE56-00	1	
15	十字槽沉头螺钉	2800-030040-FE56-01	6	
16	样板架组件	10-YB-10E-W0000-00	1	
17	方轴	24-2083-12F-FE46-00	2	
18	十字槽沉头螺钉	2800-030040-FE56-01	3	
19	后盖板	20-83-2-02A-FE56-00	1	
20	圆螺母	20-2083-38-FE66-00	1	
21	止动垫圈	20-2083-37-FE66-00	1	
22	定位卡	20-83-1-05A-FE46-00	1	
23	手柄扭簧	23-83-1-07-FE56-00	1	

序号	组件名称	产品图号或编号	数量	备注
24	十字槽沉头螺钉	2800-030040-FE56-01	4	
25	限位支架	20-83-1-03-FE45-00	1	
26	十字槽沉头自攻螺钉	2800-022045-FE45-07	2	
27	电池盒组件	10-73-2-2-56-00	1	
28	法兰盖	21-83-1-02A-ST01-00	1	
29	电池盒盖	23-82-2-01-PL56-00	1	
30	内六角花形螺钉	2800-040250-ST00-08	1	
31	锁芯罩	20-5222B-01-02A-ST01-00	1	
32	十字槽沉头自攻螺钉	2800-022045-FE45-04	4	
33	十字槽沉头螺钉	2800-030040-FE56-01	4	
34	十字槽沉头螺钉	2800-030040-FE56-05	2	
35	锁芯支架组件	10-73-1-24-56-00	1	
36	56#锁舌总成	102-S65-1A-1A-56-02	1	
37	旋转方轴	24-2083-19-FE46-00	1	
38	弹性弹性挡圈	2806-110-FE56-36	1	
39	弹性弹性挡圈	20-2083-132-FE56-00	1	
40	垫片	20-2083-14/1-PL57-00	1	
41	后壳组件	20-83-2-14	1	
42	后罩壳	83-2-05	1	
43	内六角沉头螺钉	2800-040250-ST01-00	2	
44	旋扭组件	LSA-2033-17C-00	1	
45	手柄衬套	23-2386-16-PL00-00	1	
46	56#手柄组件	SB-56F	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-56-03	锁舌总成(标准)	右 非空转结构 必达商标 装锁芯组件. 清单中无锁芯组件
20-S65-1-03-W0013-ST01-01	锁舌面板	Ø1.5 201不锈钢拉丝 必达商标带"CE"标志采用冲压 正装锁舌组件用.
20-S65-1-02-FE56-00	锁舌支架	65Mn钢板 Ø3.0
2800-040060-ST00-01	十字槽沉头螺钉	M4*6 不锈钢 GB819-1997
20-S65-1-13-FE46-00	开关压板	镀锌钢板 Ø1.0
2800-040080-FE56-01	十字槽沉头螺钉	M4*8 发黑 GB819-1997
25-S65-1-27-FE56-00	开关压板扭簧	弹簧钢丝 Ø0.5 黑色
20-S65-1-5-46-00	扶位板组件	镀白锌
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 坯料
21-S65-1-09-ST01-00	保险舌	304不锈钢粉末冶金 不锈钢拉丝
21-S65-1-09-ST00-00	保险舌	304不锈钢粉末冶金、坯料
20-S65-1-10-FE46-00	上推板	Q235-A 钢板 Ø2.0 镀白锌
20-S65-1-07-FE46-00	下推板	Q235-A 钢板 Ø2.0 镀白锌
25-S65-1-11A-FE56-00	保险舌扭簧	Ø1.0 70-C 碳素弹簧钢丝 发兰
20-S65-1-08-FE46-00	联动板	Q235-A 钢板 Ø2.0 镀白锌
20-S65-1-6-46-00	保险联板组件	镀白锌
20-S65-1-16A-FE46-00	保险板	Q235-A 钢板 Ø2.0 镀白锌 用20-S65-1-16-FE46-00补加工
20-S65-1-16-FE46-00	保险板	Q235-A 钢板 Ø2.0 镀白锌
24-S65-1-12-FE46-00	隔套	圆钢 Ø11 镀白锌
2800-030060-FE56-01	十字槽沉头螺钉	M3*6 发黑 GB819-1997
102-S65-1-7A-1-03	插板组件	非空转正装用 使用S65-1-7A-1-03插板
23-S65-1-7-01-PL56-00	离合器盖	ABS塑料 黑色
23-S65-1-7-02A-PL56-00	离合器壳	ABS塑料 黑色
23-S65-1-14-08A-PL00-00	夹套	聚甲醛 本色 优先用完 23-S65-1-14-08-PL00-00
25-S65-1-14-09-ST00-00	夹套弹簧	Ø0.3 0Cr17Ni8Al 不锈钢弹簧钢丝
23-S65-1-14-07-PL00-00	簧叉支架	聚甲醛 本色
25-S65-1-14-05-ST00-00	簧叉	Ø0.4 0Cr17Ni8Al 不锈钢弹簧钢丝
20-S65-1-7-04A-FE46-00	插板	65Mn钢板 Ø3.0 镀白锌
103-S65-1-7A-3-02	电机焊引线组件	非空转正装用 螺杆去水口
102-MFF-1527PA-170B-00-00	电机螺杆组件	盟浩电机配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	盟浩电机
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-S65-1-28-FE56-00	簧丝	弹簧钢丝 Ø0.5 黑色
20-S65-1-17-ST00-00	防尘罩	Ø0.3.201 不锈钢板

B.5 Bill of Material

TTRF EN 14846:2008 (E) B

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch



24-S65-1-23-FE46-00	定位销	圆钢Φ6 镀白锌
20-S61-01-20-CU54-00	拨叉垫片	δ0.2 H62 Φ15
21-S65-1-18-SN46-00	外拨叉	锌基合金ZnAl4-1 镀白锌
21-S65-1-19-SN46-00	内拨叉	锌基合金ZnAl4-1 镀白锌
23-S65-1-26-PL56-00	线槽板	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	摆臂组件	采用下摆臂单翻边结构.
23-S65-1-20A-PL56-00	开关架B	ABS塑料 黑色
103-S65-1-3E-00-00	斜舌滴胶组件	使用不锈钢铆钉.锁舌拉板加宽及去除中间沉孔.增加滴胶工艺.
20-S65-1-3E-00-00	斜舌组件	使用不锈钢铆钉.锁舌拉板加宽及去除中间沉孔.
21-S65-1-3-01-ST00-00	斜锁舌	304不锈钢粉末冶金 坯料
21-S65-1-3-02/1-ST00-00	撞块	304不锈钢粉末冶金 坯料
20-S65-1-22-ST00-00	开关簧片	1Cr17Ni7 弹簧用不锈钢冷轧钢带 δ0.2
21-S65-1-05-SN46-00	拨叉	ZnAl4-1 锌基合金 镀白锌
23-S65-1-11-PL56-00	开关架A	ABS塑料 黑色
25-S65-1-25-FE56-00	板簧	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δ2.0 镀白锌
20-S65-1-14B-FE56-00	盖板	钢板δ2.0 黑色电泳.无商标.
29-B-QC-1A-00	QC圆标签	易碎纸
2800-Q30080-FE45-01	十字槽沉头螺钉	M3*8 镀镍 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-MX-1382-02	微动开关	有直踏板 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	前锁体总成	G256M-65A 不锈钢拉丝 (右) 82M-Z02A 带USB外接.冷锻铁手柄芯.前罩壳手柄为304不锈钢.
20-82-1-02-ST01-00	前罩壳	δ0.8 304不锈钢板 不锈钢拉丝 用于82M系列酒店门锁
10-79-1-2A-56-00	锁芯支架组件	塑料.ABS.带磁铁
23-79-1-03A-PL56-00	锁芯罩支架	塑料.ABS.黑色
21-55-16-FE45-00	磁铁	钕铁硼.镀镍
20-79-1-1B-FE56-00	前壳组件	δ1.5 黑色电泳.铆接六角连接支柱.
20-79-1-05A-FE56-00	前底板	δ0.8 Q235-A 黑色电泳.
25-2083-5/1Y-FE56-00	手柄扭簧(右)	Φ1.6 70-C碳素弹簧钢丝 黑色
23-2083-6-PL00-00	扭簧隔套	聚甲醛.POM 本色
20-2083-4B-FE46-00	扭簧定位卡	δ2.0.Q235-A.槽宽3mm.防手柄上翘
20-2083-37-FE66-00	止动垫圈	δ0.6 电解板
20-2083-38-FE46-00	圆螺母	δ4.0 Q235-A

B.6 Bill of Material



23-2886-16-PL00-00	手柄衬套	Φ20.尼龙.1010.本色高度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.带珍珠棉袋.方轴弹簧.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.
22-L-2083-3H-01H-FE46-00	手柄芯	Q235A冷锻.镀锌.
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.带鼓形.
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
2700-82M-Z02A-00	电路板(标准)	功能和原理与82M-Z01A相同
2709-BL/82M-Z02A-A-00	电路板	
2709-BF/79M-Z02A-A-00	电路板	
2711-UCAT07I06-00	MCU	型号:ATMEGA88PA-AU(ATMEGA88V-10AU)、厂家:ATMEL、封装:TQFP32、-40~85℃、8K FLASH、1K SRAM、256B EEPROM、VDD=2.7~5.5V、23个IO口、掉电功耗1.8V/0.5μA、内部RTC: 8MHz
2711-UR6502I03-00	读写卡基站	型号:FM1701、厂家:复旦微、封装:SOP20、-25~85℃、掉电功耗1~10uA、VDD=2.9~5.5V、支持ISO14443 typeA协议
2711-UQRM01C03-00	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-UE24L64I542-00	存储器	型号:24LC64、厂家:Microchip、封装:SOP8、Vcc=2.5-5.5V、-40~85℃、f=400KHZ,SOP8
2711-UTPH01I03-00	时钟芯片	型号:PCF8563T、厂家:NXP、封装:SOP8、-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-UVTR01I14-00	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-PTPH0709-00	N型三极管	型号:BC817-40、厂家:NXP、封装:SOP23、-65~150℃、Idc=500MA、Vbe=1.2V、Vce=45V
2711-PD100314-00	GN1M-T二极管	型号:GN1M或GS1M、厂家:固得或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:固碣或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、最小自谐振频率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)	15PJ(15pF±5% 50V) (0603)
2711-PCC2470G500401-00	电容	瓷片电容,-55℃~125℃,47pF±2%,50V耐压,0603
2711-PCSG330J03B-00	贴片电容 (Samsung 符合ROHS)	33PJ(33pF±5% 50V) (0603)
2711-PCSG104K03B-00	贴片电容 (Samsung 符合ROHS)	104PK(0.1uF±10% 50V) (0603)
2711-S/79M-Z01A(A120410)-00	PCB线路板	一字型拼板,拼板间留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-PCTP105M12B-00	电解电容(TEAPO 符合ROHS)	1uF/50V ±20% (DIP 4*7)
2711-PB6403AS-00	蜂鸣器	KPM-G1205B
2711-PY0913M2D-00	晶振	13.560MHZ, 负载电容为16P, PPM<30PPM (DIP)
2711-PYCT32K2D-00	晶振	32.768KHZ, 负载电容为15P, PPM<20PPM (DIP) CITIZEN(格利特)或KDS(鸿合智远)
2711-LLY-0-02A-000-00	Φ3红绿共阴发光管	型号:209-SDRSYGW/530-A3/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°

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2711-LIEL01R-00	Φ3红外接收管	型号:PT264-6B、厂家:亿光、封装:无帽沿SIP2、-40~85℃、接收管、电压Vcco=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:无帽沿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、SXH-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-P0.6S,2651灰排,L=50mm
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:固派 芜湖凯龙、封装:DIP(图号:PHK-0-01A)、-40~+85、最高工作电压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=85
23-030-PL56-00	PVC套管	Φ3 黑色.PVC套管.1m
23-L-2083-A-27-PL56-00	灯套	塑料.ABS.黑色
23-2083-A-27-PL56-00	灯套	塑料.ABS.黑色
2709-BL/82M-Z01A-B-00	电路板	
2709-BF/82M-Z01A-B-00	电路板	
2711-PCC2181G500401-00	电容	瓷片电容,-55℃~125℃,180pF±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	一拼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,停用,使用2703-USB-0-01A-002-00代替.图号:USB-0-01A
2703-S3B-XH-A-00	连接器	三位弯插座.白色.2.5mm
23-82-1-01-W0000-PL6E-00	感应窗	塑料.PC.深紫红色.可透红外线.带碰卡丝印图案.
101-G2-2-00-01-07	后锁体总成	G256M-65A.不锈钢拉丝.(左) 冷锻铁手柄芯.后罩壳手柄为304不锈钢.
20-79-2-01-ST01-00	后罩壳	Φ0.8 304不锈钢板.不锈钢拉丝
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酒店锁.
23-79-2-03C-PL56-00	电池盒	塑料.ABS.黑色.

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25-79-2-2-01-ST00-00	电池弹簧	Φ0.7 不锈钢弹簧钢丝
2801-025050-CU45-29	空心铆钉	2.5*5 铜 GB876-86
2801-15-16/2-CU45-00	触点铆钉	T3.铜.镀镍
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	后壳组件	δ1.5 Q235-A.黑色电泳.
101-2083-17C-00-24-00	旋钮组件	2083.2085.拉丝镍
2806-110-FE56-36	轴用弹性挡圈	Φ11 黑色 GB894.1-86
20-2083-14/1-PL57-00	垫片	δ0.6 PVC透明塑料板. Φ11.2
20-2083-102-00	波形弹性垫圈	Φ11 黑色.用完后用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	十字槽盘头自攻螺钉	ST2.2*8 镀镍 GB845-85
2800-030040-FE56-01	十字槽沉头螺钉	M3*4 黑色 GB819-1997
25-2083-5/1Z-FE56-00	手柄扭簧(左)	Φ1.6 70-C 碳素弹簧钢丝.黑色
23-2083-6-PL00-00	扭簧隔套	聚甲醛. POM. 本色
20-2083-4B-FE46-00	扭簧定位卡	δ2.0 Q235-A.槽宽3mm.防手柄上翘
20-2083-37-FE66-00	止动垫圈	δ0.6 电解板
20-2083-38-FE46-00	圆螺母	δ4.0 Q235-A
23-2886-16-PL00-00	手柄衬套	Φ20.尼龙.1010.本色.高度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.带珍珠棉袋.方轴弹簧.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.表面处理为镀白锌.
22-L-2083-3H-01H-FE46-00	手柄芯	Q235A冷锻.镀白锌.
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.带鼓形.
20-79-1-05A-FE56-00	前底板	δ0.8 Q235-A.黑色电泳.
300-58-B-3AA-00	包装盒	δ1.5三层瓦楞白板.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	D-2.3 双瓦楞纸板.735*360*200. 印刷图案.英文版.用K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	开孔图	适用于门锁79.82XX(E.M)-65.开孔图(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 (B版)	适用于门锁79. G2××(E.M)-65. 开孔图(隧道形锁舌面板) 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	包装盒封条	英文版
29-B-QC-1A-00	QC圆标签	易碎纸
29-B-R-1-00	右圆标签	不干胶
29-B-YX-1-00	空白圆标签	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	包装配件包	不锈钢 适用于G2系列酒店锁 门厚40~50mm带螺钉橡胶塞.
24-2083-12F-FE46-00	方轴	□6冷拉方钢.8*8*44.非柳柱.
20-5222B-01-02A-W0001-ST01-00	锁芯罩	δ0.4 00Cr17不锈钢板 激光雕刻必达商标.
20-5222B-01-02A-ST01-00	锁芯罩	δ0.4 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	密实袋	70*50塑料
321-120090-00	密实袋	120*90塑料
2800-042250-FE45-11	墙板自攻螺钉	4.2*25 镀镍 GB/T 14210-93
24-2083-A-19-FE46-00	旋转方轴	□5冷拉方钢
21-SD-S65-2-SN46-00	锁芯组件	自制 镀白锌 锌合金锁芯壳 必达商标
24-SD-S65-1-01A-CU00-00	锁芯轴	Φ14黄铜棒 用SD-S65-1-01补加工
24-SD-S65-1-01-CU00-00	锁芯轴	Φ14黄铜棒 坯料
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 坯料
20-5S1-23-08-FE00-00	弹簧挡片	δ0.3.Q235-A 锌板
25-5S1-23-07-ST00-00	锁芯弹簧	δ0.2 不锈钢弹簧钢丝
24-5S1-23-09-CU00-00	锁芯上弹子	Φ2.8×6铜线.
24-5S1-23-03-CU00-00	锁芯弹子	Φ2.8×7.4铜线.
24-5S1-23-04-CU00-00	锁芯弹子	Φ2.8×7.0铜线.
24-5S1-23-05-CU00-00	锁芯弹子	Φ2.8×6.6铜线.
24-5S1-23-06-CU00-00	锁芯弹子	Φ2.8×6.2铜线.
24-5S1-23-06A-CU00-00	锁芯弹子	Φ2.8×5.8铜线.
24-5S1-23-06B-CU00-00	锁芯弹子	Φ2.8×5.4铜线.
2807-025-FE45-21	弹簧垫圈	Φ2.5 镀镍 GB93-87
2800-025050-FE45-05	十字槽盘头螺钉	M2.5*5 镀镍 GB818-85
20-SD-S65-1-03-FE46-00	拨轮	钢板δ2.0 镀白锌
20-SD-S65-1-03-FE00-00	拨轮	钢板δ2.0 坯料
20-SD-ABS-1-04-FE46-00	锁芯卡簧	δ1.2镀锌钢板
20-SD-ABS-1-06-FE46-00	锁芯挡圈	δ1.2 镀锌钢板
23-K1-41-03C-PL00-00	机械钥匙	必达商标.带图案无英文
23-K1-41-03C/1-00	钥匙毛坯	必达商标.带图案无英文
25-150-FE10-00	钥匙圈	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δ2.0 不锈钢拉丝
23-S65-1-31-PL56-00	锁扣盒	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*****