

Report Number: J250819001-1R1

Supersede Report No. J250819001-1 dated Sep 22, 2025.

BS EN 14846:2008



Testing Of Electromechanically Operated Locks And Striking Plates

A report to:

Guangdong LOCKWELL Technology Co., Ltd

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2. SUMMARY

Product: SMART LOCK
Manufacturer by: Guangdong LOCKWELL Technology Co., Ltd
Model: 6585EH-1, 6585EH-2

Had been tested in accordance with:

BS EN 14846:2008 Building Hardware-Electromechanically operated locks and striking plates.

By KAS Quality Service (Guangzhou) Co., Ltd. which is an IAS accredited Testing Laboratory (NO. TL-827).

At Chenziwei, Xinsha Village Committee, Muzhou Town, Xinhui District, Jiangmen, Guangdong 529143, China.

Summary of Test Result:

Clause	Description	Compliance
5.1	General	Pass
5.1.1	<i>Compatibility between cooperating parts</i>	<i>Pass</i>
5.1.2	<i>Dangerous substances</i>	—
5.1.3	<i>Operation time for locking and unlocking</i>	<i>Pass</i>
5.2	Category of use	Pass
5.2.1	Resistance to side load on latch	<i>Pass</i>
5.2.2	<i>Torque to operate deadbolt</i>	<i>Pass</i>
5.2.3	<i>Strength of normal latch action and stops</i>	<i>Pass</i>
5.2.4	<i>Torque resistance of lockable follower</i>	NA
5.3	Durability	Pass
5.3.1	<i>General</i>	<i>Pass</i>
5.3.2	<i>Durability of latch action</i>	<i>Pass</i>
5.3.3	<i>Durability of deadbolt mechanism</i>	<i>Pass</i>
5.4	Door mass and closing force	Pass
5.5	Suitability for use on fire doors	NA
5.6	Safety	NA
5.7	Corrosion resistance, temperature and humidity requirements	Pass
5.7.1	<i>Corrosion resistance</i>	<i>Pass</i>
5.7.2	<i>Resistance to a range of temperatures</i>	<i>Pass</i>
5.7.3	<i>Resistance to cyclic humidity</i>	<i>Pass</i>
5.8	Security requirements	Pass
5.9	Security – Electrical function – Status indication	NA
5.10	Security – Electrical manipulation	NA
5.10.2	<i>Voltage drop protection</i>	NA
5.10.3	<i>Protection against the effects of cutting cables</i>	NA
5.10.4	<i>Protection against the effects of wire manipulation</i>	NA
5.10.5	<i>Resistance to electromagnetic manipulation *</i>	NA

5.10.6	Resistance to electrostatic discharge *	NA
5.10.7	Resistance to electrostatic manipulation *	NA
5.11	Requirements for product information	NA

No inferences can be made regarding performance against other requirements of this standard.

NOTES.

These test items without mark "*" are covered by the Laboratory IAS accreditation schedule.

Tests marked "NA" were not applicable to the type of device under test.

Tests marked "NT" were not applied to the device under test.

Tests marked "NPD" mean No performance determined.

Classification achieved

Category of use	Durability	Door mass and closing force	Suitability for use on fire/smoke doors	Safety	Corrosion resistance and temperature	Security	Security - electrical function	Security - electrical manipulation
2	G	4	0	0	G	2	0	0

Detail "Classification" information listed as following:

First digit (Category of use): Grade 2 – For use by people with some incentive to exercise care but where there is some chance of misuse;

Second digit (Durability): Grade G – 100 000 latchbolt & deadbolt cycles; 10 N load on latchbolt;

Third digit (Test door mass): Grade 4 – Up to 100 kg door mass; 25 N maximum closing force;

Fourth digit (Suitability for use on fire-resistance doors): Grade 0 – No evidence shows suitable use on fire-resistant door or smoke-control doors;

Fifth digit (Safety): No safety requirement;

Sixth digit (Corrosion resistance and temperature): Grade G – With moderate corrosion resistance in temperature ranging from -10 °C to +55 °C and humidity resistance level 1;

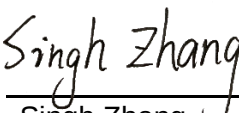
Seventh digit (Security): Grade 2 – Low security and no drill resistance;

Eighth digit (Security - electrical function): Grade 0 – No requirement;

Ninth digit (Security - electrical manipulation): Grade 0 – No requirement.

3. SIGNATURES

Test performed by:


Name: Singh Zhang
Date: Sep 30, 2025
Title: Project Engineer
KAS Quality Service

Report authorised by:

Name: Credy Chen
Date: Sep 30, 2025
Title: Technical Manager
KAS Quality Service

4. TEST DETAILS

Applicant Information

Applicant Name: Guangdong LOCKWELL Technology Co., Ltd

Applicant Address: Room 503, Floor 5, Building B1, No.108 Dongxin Avenue, Dongxing District, Dongjiang High-tech Zone, Huizhou City, Guangdong Province, China

Sample Information

Product: SMART LOCK

Trade Mark: /

Model and/or type reference: 6585EH-1, 6585EH-2

Manufacturer: Guangdong LOCKWELL Technology Co., Ltd

Manufacturer Address: Room 503, Floor 5, Building B1, No.108 Dongxin Avenue, Dongxing District, Dongjiang High-tech Zone, Huizhou City, Guangdong Province, China

Sample ID: S250819001-01~07

Date of receipt of test samples: Aug 19, 2025

Situation of receipt samples: Received in good condition

Testing Information

Standard: BS EN 14846:2008

Non-standard method or requirement: /

Rating(s):

2	G	4	0	0	G	2	0	0
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Testing Laboratory name: KAS Quality Service (Guangzhou) Co., Ltd.

Address: Chenziwei, Xinsha Village Committee, Muzhou Town, Xinhui District, Jiangmen, Guangdong 529143, China.

Date (s) of performance of tests: Aug 20, 2025 ~ Sep 12, 2025

Other reports to be used in conjunction with this report: /

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5. TEST SAMPLE DESCRIPTION AND ASSESSMENT

General product information:

Electronic lock, power supply: four AA alkali batteries, 6.0 V rated voltage.

Model No. are shown as below table:

Model No.	Follower	Cylinder	Latch action	Deadbolt action	Battery box	Test Plan
6585EH-1	No	Yes	Electrically and mechanically operated	Electrically and mechanically operated	integrated, inside the door leaf	Full test
6585EH-2	No	Yes			Split-type, on the indoor side	Assessment

Assessment:

These products have the similar construction and the same materials, except that their battery compartments feature an integrated or split-type design. These products have undergone the same manufacturing process. Designs of these products are analogous. So model 6585EH-1 was chosen as representative test model for all models.

6. TEST RESULTS

Test procedure: Sample A

Test sample No.: S250819001-01

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL
5.3.3.2	6.3.3.2	Durability of deadbolt mechanism electrically operated When tested in accordance with 6.3.3.2, the deadbolt mechanism shall complete the minimum number of cycles specified in Table 6. Electric strikes (deadbolt function) shall be tested in accordance with 6.3.3.2 (i.e. treated as deadbolt). The deadbolt mechanism shall function correctly after this test fulfilling the requirements in EN 12209:2003, 5.2.2.	Grade G, Door mass: 100 kg Total 100 000 cycles for latch bolt and deadbolt, with 10 N load on latch bolt. After test, the latch bolt and deadbolt function correctly. Closing force: 21.3 N Torque to operate the deadbolt via key: 0.28 Nm Torque to operate the deadbolt via handle: 0.28 Nm Torque to withdraw the latch bolt via key: 0.16 Nm Torque to withdraw the latch bolt via handle: 0.16 Nm	P
5.3.2.2	6.3.2.2.1 or 6.3.2.2.2	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)).	See Clause 5.3.3.2	P

Test procedure: Sample B

Test sample No.: S250819001-02

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL									
5.7.2	6.7.2	Resistance to a range of temperatures The product shall operate at the temperatures specified in Table 4. 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:	Grade G, Initial test at normal temperature: Torque to operate deadbolt on key: 0.16 Nm Torque to operate deadbolt on handle: 0.16 Nm Torque to withdraw the latch bolt via handle: 0.08 Nm At -10°C for 2 hours: Torque to operate deadbolt on key: 0.16 Nm Torque to operate deadbolt on follower: 0.16 Nm Torque to withdraw latch bolt with handle: 0.08 Nm At +55°C for 2 hours: Torque to operate deadbolt on key: 0.16 Nm Torque to operate deadbolt on follower: 0.16 Nm Torque to withdraw latch bolt with handle: 0.08 Nm After temperature test, the sample functions correctly.	P									
5.7.3	6.7.3	Resistance to cyclic humidity The product shall continue to operate as declared after the test. A temporary loss of functions shall be permitted, providing it is self-recoverable within 3 s after the test. During the test the product shall be in locked and deadlocked state and that state shall be maintained during the test. <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%	Grade G, Level 1: +40°C with initial relative humidity of 95%. The product functions correctly during and after the test.	P
Level	Temperature	Humidity											
1	+ 40 °C	95%											
2	+ 55 °C	95%											

Test procedure: Sample B

Test sample No.: S250819001-02

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL															
5.7.1	6.7.1	Corrosion resistance The grade of corrosion resistance achieved shall be included in the classification coding as specified in Table 4.	Grade G, EN 1670 Grade 2: 48 hours Torque to operate deadbolt on key: 0.16 Nm Torque to operate deadbolt on handle: 0.16 Nm Torque to withdraw latch bolt with handle: 0.08 Nm	P															
		<table><tr><td>Corrosion resistance</td><td>Exposure</td><td>Grade per EN 1670</td></tr><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></table>			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
		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 %.																			

Test procedure: Sample C

Test sample No.: S250819001-NA

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL
5.9	6.9	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 0, No requirement	NA
4.2.1	Security – Electrical manipulation Table 7 — Security – Electrical manipulation requirements			
	Requirement		Test Method	Grade of security
				0123
	5.10.2	Voltage drop protection	6.10.1	- - Yes Yes
	5.10.3	Protection against the effects of cutting cables	6.10.2	- - Yes Yes
	5.10.4	Protection against the effects of wire manipulation	6.10.3	- - - Yes
	5.10.5	Resistance to electromagnetic manipulation	6.10.4	- - Yes Yes
	5.10.6	Resistance to electrostatic discharge EN 61000-4-2	6.10.5	- Level 2 Level 4 Level 4
	5.10.7	Resistance to electrostatic manipulation EN 61000-4-2	6.10.6	- - Level 4 Level 4
5.10.1	General			
5.10.2	6.10.1	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.	Not applicable for the test sample	NA
5.10.4	6.10.3	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 :	Grade 0, No requirement	NA
5.10.5	6.10.4	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 0, No requirement	NA

Test procedure: Sample C

Test sample No.: S250819001-NA

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL
5.10.3	6.10.2	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.	Without wire linking the electromechanical lock to other units. Not applicable for this product.	NA

Test procedure: Sample D

Test sample No.: S250819001-NA

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL
5.10.6	6.10.5	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 0, No requirement	NA
5.10.7	6.10.6	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 0, No requirement	NA

Test procedure: Sample E

Test sample No.: S250819001-NA

Model: 6585EH-1

Req. Clause	Requirement Details	Result	P =PASS F = FAIL
5.5 & Annex A	Suitability for use on fire resistance and / or smoke control doorset.	Grade 0, Not suitable for use on fire door assemblies.	NA

Test procedure: Sample F

Test sample No.: S250819001-01

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL												
5.3.3.1	6.3.3.1	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 G: 100 000 cycles Throwing the deadbolt by operating the lever handle upward, combined test with electrical operation 5.3.3.2.	P												
5.3.3.3	6.3.3.2	Durability of deadbolt mechanism automatically operated When tested in accordance with the principle in 6.3.3.2, the deadbolt mechanism shall complete the minimum number of cycles specified in Table 6.	No deadbolt mechanism automatically operation function	NA												
5.8.2	Requirements for side load															
5.8.2.1	EN1220 9:2003 6.8.2.1	Resistance to side load on deadbolt The dead bolt shall resist a side load F4 (see Table 5 of EN 12209): <table border="1"><tr><td>Grade</td><td>1</td><td>2</td><td>3</td><td>4</td><td>6</td></tr><tr><td>F4 , kN</td><td>1</td><td>3</td><td>5</td><td>7</td><td>10</td></tr></table>	Grade	1	2	3	4	6	F4 , kN	1	3	5	7	10	Grade 2, Side load: 3 kN The dead bolt could resist the side load during the test.	P
Grade	1	2	3	4	6											
F4 , kN	1	3	5	7	10											
5.8.2.2	EN1220 9:2003 6.8.2.2	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) : <table border="1"><tr><td>Grade</td><td>5</td><td>7</td></tr><tr><td>Net drilling time, t1 (s).</td><td>180</td><td>300</td></tr><tr><td>Total drilling time, t2 (s).</td><td>300</td><td>600</td></tr><tr><td>F4 , kN</td><td>7</td><td>10</td></tr></table>	Grade	5	7	Net drilling time, t1 (s).	180	300	Total drilling time, t2 (s).	300	600	F4 , kN	7	10	Grade 2, No requirement	NA
Grade	5	7														
Net drilling time, t1 (s).	180	300														
Total drilling time, t2 (s).	300	600														
F4 , kN	7	10														

Test procedure: Sample G

Test sample No.: S250819001-03

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL								
5.2.2	EN1220 9:2003 6.2.2	Torque to operate deadbolt The torque on the key to operate the deadbolt without side force shall not exceed M3 in below table: <table><tr><td>Grade of category of use</td><td>1</td><td>2</td><td>3</td></tr><tr><td>Torque by key, M3 (Nm)</td><td>1.5</td><td>1.0</td><td>0.8</td></tr></table>	Grade of category of use	1	2	3	Torque by key, M3 (Nm)	1.5	1.0	0.8	Grade 2, Torque to operate the deadbolt via key: 0.16 Nm Torque to operate the deadbolt via handle: 0.16 Nm	P
Grade of category of use	1	2	3									
Torque by key, M3 (Nm)	1.5	1.0	0.8									
5.2.4	EN1220 9:2003 6.2.4	Torque resistance of lockable follower The lockable follower shall resist a torque shall not exceed M10 in below table: <table><tr><td>Grade of category of use</td><td>1</td><td>2</td><td>3</td></tr><tr><td>M10 (Nm)</td><td>60</td><td>60</td><td>80</td></tr></table>	Grade of category of use	1	2	3	M10 (Nm)	60	60	80	Not rim lock with lockable handle	NA
Grade of category of use	1	2	3									
M10 (Nm)	60	60	80									
5.8.1.2	EN1220 9:2003 6.8.1.2	Torque resistance of knob or lever handle on rim night latch:	Not rim night latch	NA								

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL																								
5.8.3	EN1220 9:2003 6.8.3	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): <table><tr><td>Grade</td><td>1</td><td>2</td><td>3</td><td>4</td><td>6</td></tr><tr><td>L1, mm</td><td>10</td><td>12</td><td>14</td><td>20</td><td>20</td></tr></table>	Grade	1	2	3	4	6	L1, mm	10	12	14	20	20	Grade 2, L1 = 21 mm > 12 mm	P												
Grade	1	2	3	4	6																							
L1, mm	10	12	14	20	20																							
5.2.3	EN1220 9:2003 6.2.3	Strength of normal latch action and stops The latch components and travel limit stops shall resist a torque as below table: <table><tr><td>Grade of category of use</td><td>1</td><td>2</td><td>3</td></tr><tr><td>Resistance torque, M5 (Nm)</td><td>40</td><td>40</td><td>60</td></tr></table>	Grade of category of use	1	2	3	Resistance torque, M5 (Nm)	40	40	60	Grade 2: 40 Nm The latch components and travel limit stops can resist the torque. The latch action function correctly after test.	P																
Grade of category of use	1	2	3																									
Resistance torque, M5 (Nm)	40	40	60																									
5.8.4	Requirements for end load on deadbolt																											
5.8.4.1	EN1220 9:2003 6.8.4.1	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): <table><tr><td>Grade</td><td>1</td><td>2</td><td>3</td><td>4</td><td>6</td></tr><tr><td>F5, kN</td><td>1</td><td>2</td><td>4</td><td>5</td><td>6</td></tr><tr><td>L2, mm</td><td>8</td><td>10</td><td>11</td><td>17</td><td>17</td></tr><tr><td>d, mm</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table>	Grade	1	2	3	4	6	F5, kN	1	2	4	5	6	L2, mm	8	10	11	17	17	d, mm	3	3	3	3	3	Grade 2, End load: 2 kN L2 = 21 mm	P
Grade	1	2	3	4	6																							
F5, kN	1	2	4	5	6																							
L2, mm	8	10	11	17	17																							
d, mm	3	3	3	3	3																							
5.8.4.2	EN1220 9:2003 6.8.4.2	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): <table><tr><td>Grade</td><td>5</td><td>7</td></tr><tr><td>Net drilling time, s. t1</td><td>180</td><td>300</td></tr><tr><td>Total drilling time, s. t2</td><td>300</td><td>600</td></tr><tr><td>F5, kN</td><td>5</td><td>6</td></tr><tr><td>L2, mm</td><td>17</td><td>17</td></tr><tr><td>d, mm</td><td>3</td><td>3</td></tr></table>	Grade	5	7	Net drilling time, s. t1	180	300	Total drilling time, s. t2	300	600	F5, kN	5	6	L2, mm	17	17	d, mm	3	3	Grade 2, No requirement	NA						
Grade	5	7																										
Net drilling time, s. t1	180	300																										
Total drilling time, s. t2	300	600																										
F5, kN	5	6																										
L2, mm	17	17																										
d, mm	3	3																										

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL	
5.4	6.4	Door mass and closing force			Grade 4, Door mass: 100 kg Closing force: 16.4 Nm P
		Grade	Door mass	Closing force (F10)	
		0	Locks without a latch bolt		
		1	Up to 100 kg	50 N	
		2	Up to 200 kg	50 N	
		3	Above 200 kg	50 N	
		4	Up to 100 kg	25 N	
		5	Up to 200 kg	25 N	
		6	Above 200 kg	25 N	
		7	Up to 100 kg	15 N	
		8	Up to 200 kg	15 N	
		9	Above 200 kg	15 N	
5.3.2.1	6.3.2.1.1 or 6.3.2.1.2	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 G, Door mass: 100 kg Total 100 000 cycles for latch bolt via handle, with 10 N load on latch bolt. After test, the latch bolt function correctly. Closing force: 20.5 N Torque to withdraw the latch bolt via key: 0.12 Nm Torque to withdraw the latch bolt via handle: 0.12 Nm P
5.2.1	EN1220 9:2003 6.2.1	Resistance to side load on latch The latch shall resist a side load as below:			Grade 2, Side load on latch: 3 kN The latch action was not affected as a result of this test. P

Test procedure: Sample J

Test sample No.: S250819001-NA

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL												
5.8.5	EN1220 9:2003 6.8.5	Resistance to pulling of hook/claw bolt The bolt shall resist a direct pull of F6 (requirement see Table 5 of EN 12209): <table><tr><td>Grade</td><td>1</td><td>2</td><td>3</td><td>4</td><td>6</td></tr><tr><td>F6, kN</td><td>1</td><td>2</td><td>4</td><td>5</td><td>6</td></tr></table>	Grade	1	2	3	4	6	F6, kN	1	2	4	5	6	No hook/claw bolt	NA
Grade	1	2	3	4	6											
F6, kN	1	2	4	5	6											
5.8.6	EN1220 9:2003 6.8.6	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): <table><tr><td>Grade</td><td>1</td><td>2</td><td>3</td><td>4</td><td>6</td></tr><tr><td>F7, kN</td><td>1</td><td>2</td><td>4</td><td>5</td><td>6</td></tr></table>	Grade	1	2	3	4	6	F7, kN	1	2	4	5	6	No hook/claw bolt	NA
Grade	1	2	3	4	6											
F7, kN	1	2	4	5	6											
5.8.7	EN1220 9:2003 6.8.7	Resistance to forcing of locating device in sliding door lock:	Applicable for sliding door lock only.	NA												

Test procedure: Sample K

Test sample No.: S250819001-NA

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL
5.8.1.1	EN1220 9:2003 6.8.1.1	Torque resistance of knob or lever handle on bored lock and latch sets	Not applicable for mortice lock	NA
5.8.8	EN1220 9:2003 6.8.8	Resistance to pulling off of knob on bored lock and latch set :	Applicable for bored knob door lock only	NA

Test procedure: Locking plate test sample

Test sample No.: S250819001-02

Model: 6585EH-1

Req. Clause	Test Clause	Requirement Details	Result	P =PASS F = FAIL																
5.8.9.1	EN1220 9:2003 6.8.9.1	Resistance to force on the box protected locking plates A locking plate equipped with a box to protect the associated deadbolt shall resist a force F5 specified as below for 60 s on the box in X-, Y-, and Z- direction. <table><tr><td>Grade</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>F5, kN</td><td>1</td><td>3</td><td>4</td><td>5</td><td>5</td><td>6</td><td>7</td></tr></table> The box shall not be deflected more than 3 mm in X- and Y- directions. The box shall remain located on the locking plate after test.	Grade	1	2	3	4	5	6	7	F5, kN	1	3	4	5	5	6	7	No protecting box	NA
Grade	1	2	3	4	5	6	7													
F5, kN	1	3	4	5	5	6	7													
5.8.9.2	EN1220 9:2003 6.8.9.2	Resistance to side force on locking plates The locking plate shall withstand a side force of F4 specified as below for 60 s at those apertures that are intended to operate with the deadbolt. <table><tr><td>Grade</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>F4, kN</td><td>1</td><td>3</td><td>5</td><td>7</td><td>7</td><td>10</td><td>10</td></tr></table>	Grade	1	2	3	4	5	6	7	F4, kN	1	3	5	7	7	10	10	Grade 3, Thickness of locking plate: 1.5 mm Side load on locking plate: 3 kN. No breakage occurred.	P
Grade	1	2	3	4	5	6	7													
F4, kN	1	3	5	7	7	10	10													
5.8.9.3	EN1220 9:2003 6.8.9.3	Resistance to pulling on locking plates The locking plate shall withstand a pull force of F6 specified as below for 60 s at those apertures that are intended to operate with the deadbolt. <table><tr><td>Grade</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>F4, kN</td><td>1</td><td>3</td><td>5</td><td>7</td><td>7</td><td>10</td><td>10</td></tr></table>	Grade	1	2	3	4	5	6	7	F4, kN	1	3	5	7	7	10	10	Applicable for lock with hook bolt only	NA
Grade	1	2	3	4	5	6	7													
F4, kN	1	3	5	7	7	10	10													
5.8.9.4	EN1220 9:2003 6.8.9.4	Resistance to lifting force on locking plates The locking plate shall resist lifting force of F7 specified as below for 60 s at those apertures that are intended to operate with the deadbolt. <table><tr><td>Grade</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>F7, kN</td><td>1</td><td>3</td><td>4</td><td>5</td><td>5</td><td>6</td><td>6</td></tr></table>	Grade	1	2	3	4	5	6	7	F7, kN	1	3	4	5	5	6	6	Applicable for sliding door lock only	NA
Grade	1	2	3	4	5	6	7													
F7, kN	1	3	4	5	5	6	6													

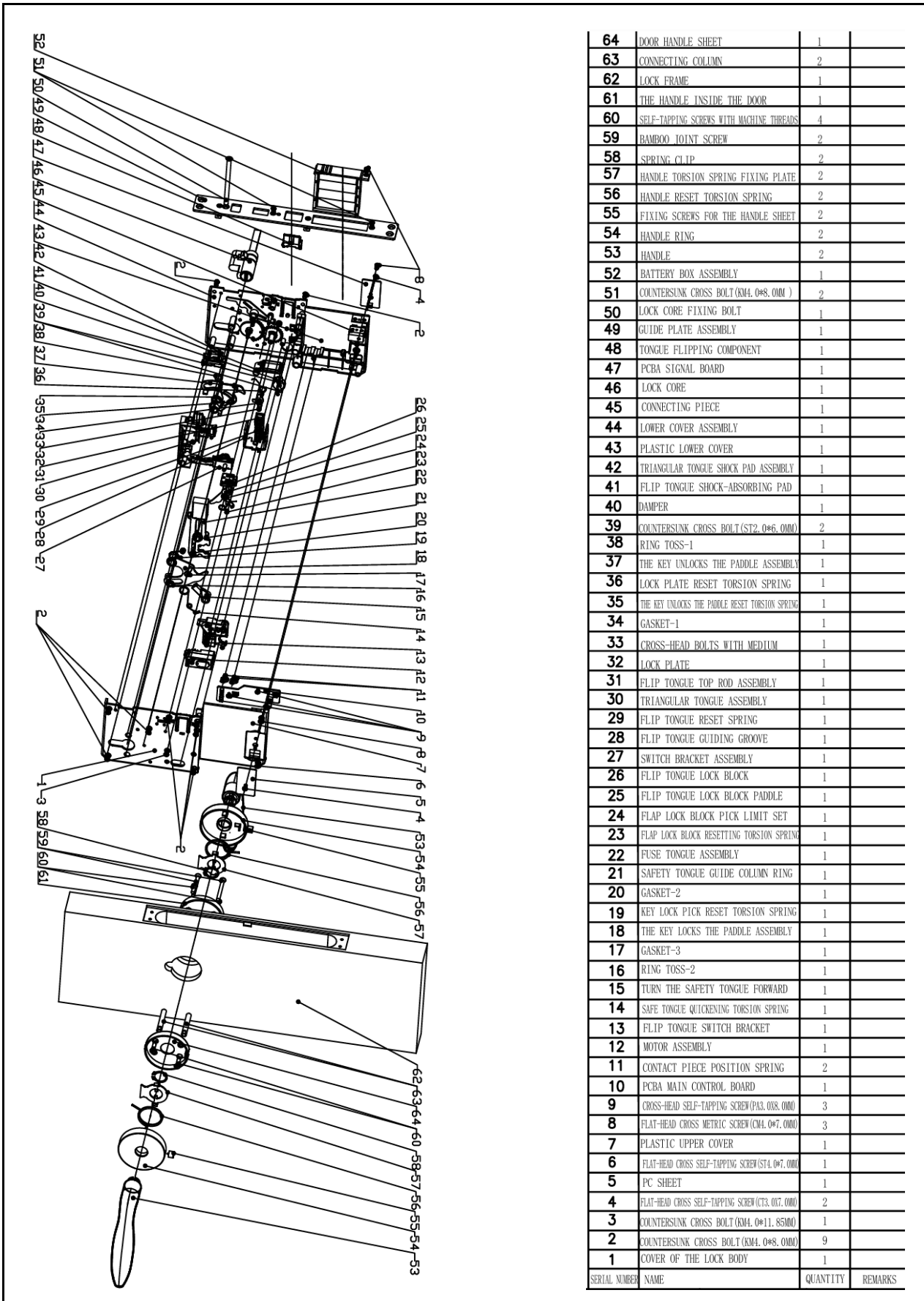
Test procedure: Marking and other requirement

Test sample No.: S250819001-NA

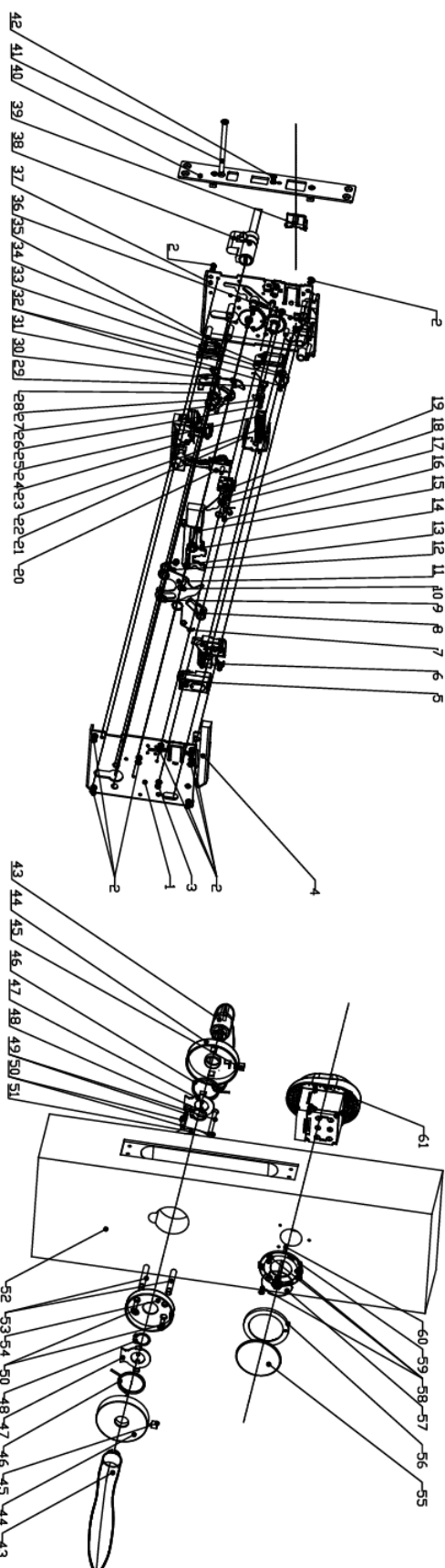
Model: 6585EH-1

Req. Clause	Requirement Details	Result	P =PASS F = FAIL
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	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.	< 1s	P
5.6	Safety	No safety requirement	NA
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.	Refer to marking template provided by the manufacturer.	NA

7. PRODUCT DRAWING(S)



6585EH-1



61	HOST	1	
60	BRUSH THE CARD SHELL CONNECTION WIRE	1	
59	BRUSH THE BOTTOM PLATE OF THE CARTRIDGE	1	
58	BRUSH THE FIXING SCREWS OF THE CARTRIDGE SHELL BASE PLATE	1	
57	CARD-SWIPING PROGRAM BOARD	1	
56	BRUSH THE CARTRIDGE RING	1	
55	BRUSH THE CARTRIDGE COVER	1	
54	DOOR HANDLE SHEET	1	
53	CONNECTING COLUMN	2	
52	LOCK FRAME	1	
51	THE HANDLE INSIDE THE DOOR	1	
50	SELF-TAPPING SCREWS WITH MACHINE THREADS	4	
49	BAMBOO JOINT SCREW	2	
48	SPRING CLIP	2	
47	HANDLE TORSION SPRING FIXING PLATE	2	
46	HANDLE RESET TORSION SPRING	2	
45	FIXING SCREWS FOR THE HANDLE SHEET	2	
44	HANDLE RING	2	
43	HANDLE	2	
42	COUNTERSUNK CROSS BOLT (KM4.0*8.0MM)	1	
41	LOCK CORE FIXING BOLT	1	
40	GUIDE PLATE ASSEMBLY	1	
39	TONGUE FLIPPING COMPONENT	1	
38	LOCK CORE	1	
37	LOWER COVER ASSEMBLY	1	
36	PLASTIC LOWER COVER	1	
35	TRIANGULAR TONGUE SHOCK PAD ASSEMBLY	1	
34	FLIP TONGUE SHOCK-ABSORBING PAD	1	
33	DAMPER	1	
32	COUNTERSUNK CROSS BOLT (ST2.0*6.0MM)	2	
31	RING TOSS-1	1	
30	THE KEY UNLOCKS THE PADDLE ASSEMBLY	1	
29	LOCK PLATE RESET TORSION SPRING	1	
28	THE KEY UNLOCKS THE PADDLE RESET TORSION SPRING	1	
27	GASKET-1	1	
26	CROSS-HEAD BOLTS WITH MEDIUM	1	
25	LOCK PLATE	1	
24	FLIP TONGUE TOP ROD ASSEMBLY	1	
23	TRIANGULAR TONGUE ASSEMBLY	1	
22	FLIP TONGUE RESET SPRING	1	
21	FLIP TONGUE GUIDING GROOVE	1	
20	SWITCH BRACKET ASSEMBLY	1	
19	FLIP TONGUE LOCK BLOCK	1	
18	FLIP TONGUE LOCK BLOCK PADDLE	1	
17	FLAP LOCK BLOCK PICK LIMIT SET	1	
16	FLAP LOCK BLOCK RESETTING TORSION SPRING	1	
15	FUSE TONGUE ASSEMBLY	1	
14	SAFETY TONGUE GUIDE COLUMN RING	1	
13	GASKET-2	1	
12	KEY LOCK PICK RESET TORSION SPRING	1	
11	THE KEY LOCKS THE PADDLE ASSEMBLY	1	
10	GASKET-3	1	
9	RING TOSS-2	1	
8	TURN THE SAFETY TONGUE FORWARD	1	
7	SAFE TONGUE QUICKENING TORSION SPRING	1	
6	FLIP TONGUE SWITCH BRACKET	1	
5	MOTOR ASSEMBLY	1	
4	PLASTIC UPPER COVER	1	
3	COUNTERSUNK CROSS BOLT (KM4.0*11.85MM)	1	
2	COUNTERSUNK CROSS BOLT (KM4.0*8.0MM)	9	
1	COVER OF THE LOCK BODY	1	
SERIAL NUMBER	NAME	QUANTITY	REMARKS

6585EH-2

8. PRODUCT PHOTO(S)



6585EH-1



6585EH-2

REVISION HISTORY

Revision No.	Date	Changes	Author	Reviewer
Original	Sep 22, 2025	First issue	Singh Zhang	Credy Chen
R1	Sep 30, 2025	Revised typo on Model No. from '6085EH-1' to '6585EH-1'	Singh Zhang	Credy Chen

The End of Report