SOUTH QUALITY

PROFICIENCY TESTING PROVIDER

REPORT No 11536

Date of issue: *February 4, 2026*

Status: FINAL REPORT

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EN 14846

BUILDING HARDWARE
LOCKS AND LATCHES ELECTROMECHANICALLY OPERATED LOCKS AND STRIKING PLATES

Program: SQO-6034.V1 - Round 1

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Prepared by:	Reviewed by:	Approved by:
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1. FOREWORD

This report summarizes the results of the **SQO-6034.V1 (Round 1)** proficiency testing program on the verification of compliance with requirements for mechanically operated locks. This program is carried out under a simultaneous participation format, according to the A.3.1 classification of the ISO 17043 standard ("Model 2 - Figure A.1").

South Quality conducted the testing program from August to November 2025 with the aim of assessing the laboratory's ability to competently perform the designated tests.

2. ORGANIZATION

Program Coordinator:	Lic. Esther Casas
Assistant Technician:	Berenice Ferrel
Statistic:	Lic. Manuel Tozaki
Supervision:	Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to verify compliance with the requirements for mechanically operated locks using the following standard:

Standard
EN 14846: 2008

To verify this, batches of digital door locks have been selected.

Participants in this program have not been previously informed about the expected results of the samples they receive.

4. PARTICIPANTS

In the present round, 5 laboratories participated, as detailed below:

CODE	Country	ISO 17025 Accredited	Results delivered
01	Malaysia	Yes	Yes
02	Germany	Yes	Yes
03	France	Yes	Yes
04	Germany	Yes	Yes
05	Spain	Yes	Yes

5. HOMOGENEITY

Several batches were prepared by South Quality personnel in an identical way.

Subsequently, a homogeneity study was conducted with an ISO 17025 accredited laboratory.

The control process followed ISO 33405: 2024, clauses 7.4.1.1 / 7.4.1.2. Stratified random sampling was employed, and samples were chosen using random number generation software.

The results of this test appear below:

Size of each batch: **30 samples** Tested samples from each batch: **6 samples**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES		
	BATCH: LMI3164	BATCH: LMI3165	BATCH: LMI3166
Verification of sample classification	YES	YES	YES

Samples for this program are taken from the selected batch identified as LMI3165.

Analysis of this testing data indicated that samples were sufficiently homogeneous for the program and, therefore, any participant results identified as outliers cannot be attributed to sample variability.

6. SAMPLE INFORMATION

The following samples were sent for testing (Participant **Code 01**):

Batch:	LMI3165
Sample ID:	01
Characteristics:	Digital door lock - 2 units Trademark: GADNIC Model: DJKH37 Classification under verification: **2 B 4 0 - 0 1 0 0**

7. IMAGES

SAMPLES

SAMPLES


8. ASSIGNED VALUES

The assigned values are obtained from the results reported by all participants (**Consensus values**).

Clauses and subclauses that are not listed in the table correspond to cases where both the assigned values and the laboratories' results agreed on the N/A verdict.

9. STATISTICS

The results must be treated as qualitative.

For qualitative results, the comparison will be made directly against the assigned values, so any difference will be evaluated as **Unsatisfactory**.

10. PARTICIPANT RESULTS

Clause / Subclause	LABORATORY CODE					CONSENSUS VALUE
	01	02	03	04	05	
5.1.1	PASS	PASS	PASS	PASS	PASS	**PASS**
5.1.2	PASS	PASS	PASS	PASS	PASS	**PASS**
5.1.3	PASS	PASS	PASS	PASS	PASS	**PASS**
5.2.1	PASS	PASS	PASS	PASS	PASS	**PASS**
5.2.3	PASS	PASS	PASS	PASS	PASS	**PASS**
5.3.2.2	PASS	PASS	PASS	PASS	PASS	**PASS**
5.4	PASS	PASS	PASS	PASS	FAIL	**PASS**
5.8.9.2	PASS	PASS	PASS	PASS	PASS	**PASS**

11. EVALUATION OF PERFORMANCE

Laboratory **Code 01**: The laboratory has obtained **SATISFACTORY** results in the evaluation of all results arising from the conducted tests.

Laboratory **Code 02**: The laboratory has obtained **SATISFACTORY** results in the evaluation of all results arising from the conducted tests.

Laboratory **Code 03**: The laboratory has obtained **SATISFACTORY** results in the evaluation of all results arising from the conducted tests.

Laboratory **Code 04**: The laboratory has obtained **SATISFACTORY** results in the evaluation of all results arising from the conducted tests.

Laboratory **Code 05**: The laboratory has obtained **UNSATISFACTORY** results in the testing of clause 5.4.

12. CONCLUSIONS

The overall performance on this **SQ-6034.V1 (Round 1)** program from the participating laboratories, based on expected results, are the following:

- Participants Codes **01, 02, 03,** and **04** have obtained a **SUFFICIENT** performance in accordance with the expected results and do not require any action;

- Participant Code **05** has obtained an **INSUFFICIENT** performance in accordance with the expected results and must take action on the tests where results differed from those expected (See annex B).

The criteria used for the evaluation of the overall performance are as follows:

- **SUFFICIENT** performance: No unsatisfactory results were obtained.

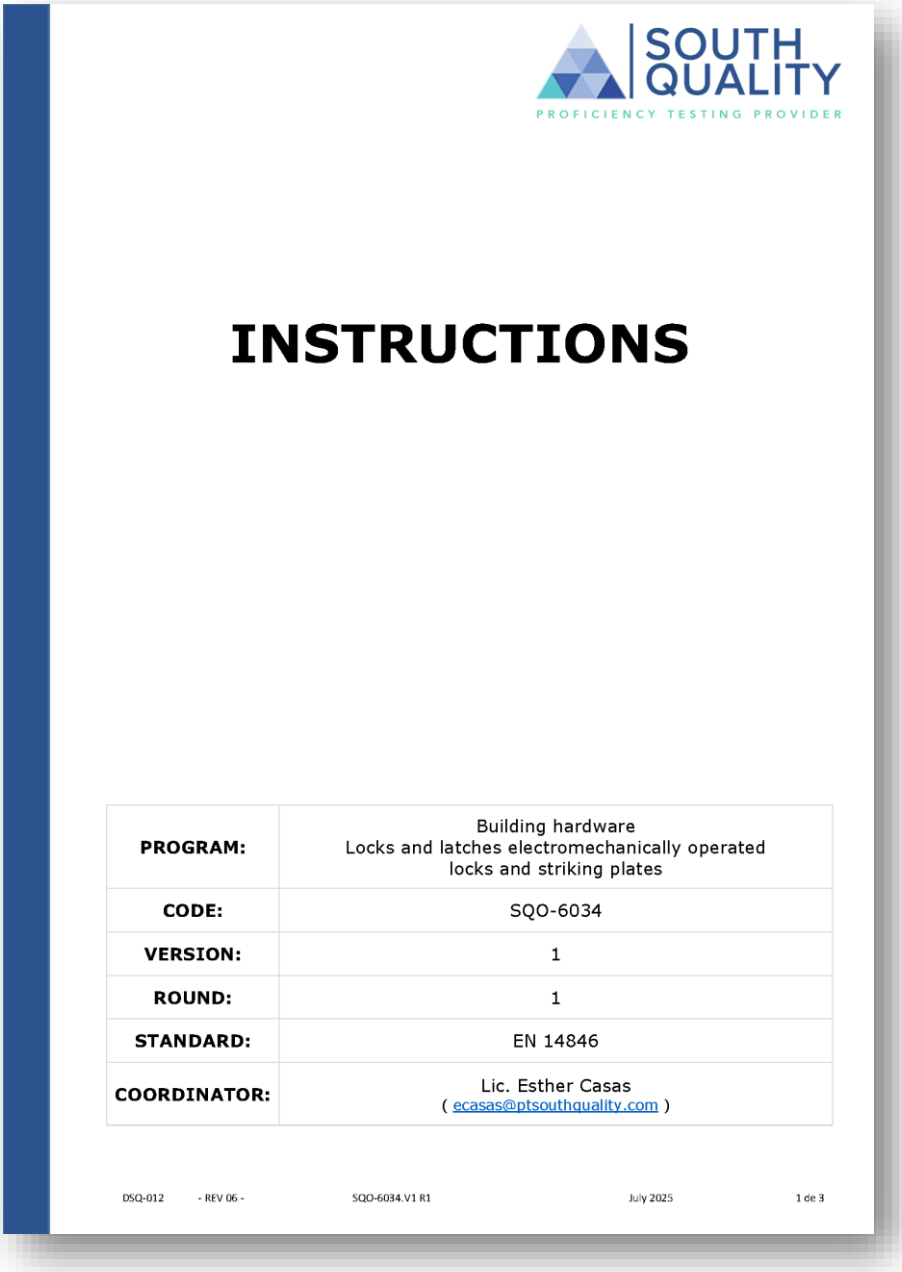
- **INSUFFICIENT** performance: One or more unsatisfactory result were obtained.

APPENDIX A

A1 - PARTICIPANT DATA

Company:	**SIRIM QAS INTERNATIONAL SDN. BHD.**
Laboratory:	**MECHANICAL INDUSTRIAL PRODUCT LAB**
Country:	Malaysia
Client ID:	S326
Contact person:	SHAIRAZI BIN ABDUL WAHAB (Senior Testing Engineer)
	shairazi@sirim.my

A2 - INSTRUCTIONS



INSTRUCTIONS

PROGRAM:	Building hardware Locks and latches electromechanically operated locks and striking plates
CODE:	SQO-6034
VERSION:	1
ROUND:	1
STANDARD:	EN 14846
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

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1 - General

This document serves as a guide for managing the results of the **SQO-6034.V1 (Round 1)** program.

2 - Standard

EN 14846: 2008

3 - Participant

SIRIM QAS INTERNATIONAL SDN. BHD. MECHANICAL INDUSTRIAL PRODUCT LAB	**CODE 01**

4 - Tests involved

TEST
Verification of the classification based on analysis and test results

5 - Samples

CODE	SAMPLE	QUANTITY
LMI3165-01	Digital door lock Trademark: GADNIC Model: DJKH37	2 units

6 - Notes

a) The deadline for submitting the results is **October 31, 2025.**

b) The participants must submit the results using the usual report employed by their laboratory.

c) The samples must be verified to determine whether they comply with the following classification:

2	B	4	0	-	0	1	0	0

d) Samples must be retained until the end of the program, which concludes with the submission of the final report.

e) To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

PHOTOGRAPHS

A3 - PARTICIPANT RESULTS

SIRIM QAS International Sdn. Bhd. (410334-X)
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TEST REPORT

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Applicant	:	**PT SOUTH QUALITY SAS** CUIT 30-71707517-6 Pareja 3981 - Villa Devoto (C1419VG) Ciudad Autonoma de Buenos Aires - ARGENTINA
Manufacturer	:	Not Applicable
Product		IRON MONGERIES – DIGITAL DOOR LOCK
Reference Standard/ Method of test	:	BS EN 14846: 2008 Building hardware - Lock and latches - Electromechanically operated locks and striking plates - Requirements and test methods
Description of sample/ Description of Test Specimen	:	Program Code : SQO-6034.V1 Sample Code : LMI3165-01 Trademark / Model : GADNIC / DJKH37 Classification : 2B40-0100 No. of Sample : 2 units
Date Received of Complete Application	:	Not Applicable
Job No.	:	SQO-6034.V1
Description of Test Results/ Overall Test Result	:	The test results for the submitted test samples as described in this test report complied with the requirements of the above reference standard
Issued date	:	**24 November 2025**

Approved Signatory

SIRIM QAS INTERNATIONAL SDN. BHD. Mechanical & Automotive Section

(SHAIRAZI BIN ABDUL WAHAB)
Senior Testing Engineer

(Ir. KAMARULZAMAN BIN MAT ZIN)
Head
Mechanical & Automotive Section (MAST)
Testing Services Department

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SUMMARY OF RESULTS

Product Description	Type	Classification	Results
Digital Door Lock Trademark: GADNIC Model: DJKH37	LMI3165-01	2B40-0100	The submitted test sample has **Complied With** all applicable mechanical performance requirements of BS EN 14846: 2008

Remarks:

1. Two (2) units of the Electromechanically Operated Lock, identified as 'GADNIC DJKH37 Digital Door Lock,' were submitted and received in good condition for testing. The submitted sample(s) provided by the applicant in this test report only apply to the samples as received.
2. The purpose was to verify the durability, strength, security, and functionality of electrical and electronic components, as well as their striking plates used in doors, window doors, and entrance doors in buildings. This testing was conducted in accordance with BS EN 14846: 2008 – Electromechanically Operated Locks and Striking Plates.
3. The tests were conducted at the testing lab of SIRIM QAS INTERNATIONAL SDN. BHD., located at Building 25, 1 Persiaran Dato' Menteri, Section 2, P.O. Box 7035, 40700 Shah Alam, MALAYSIA. The testing duration spanned from September 1st, 2025, to October 30th, 2025.
4. All types of tests were carried out by personnel from the Mechanical & Automotive Section (MAST), Testing Service Department, SIRIM QAS International Sdn. Bhd.
5. A Simple Acceptance Rule was employed for the conformity statement. The level of risk regarding the Probability of False Acceptance is up to 50%, according to ILAC G8:09.
6. The abbreviations used in this test report are denoted as follows:

Pass: Complied with the requirement
Fail: Did not comply with the requirement
N/A: Not applicable with the requirement
N/C: Not conducted

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CLASSIFICATION OF PRODUCT

Clause	BS EN 14846: 2008	Remarks
4. 4.1 4.2	Classification General Electromechanically operated locks and striking plates	
4.3	Category of use For use by people with some incentive to exercise care but where there is some chance of misuse, e.g. office doors.	Grade 2
4.4	Durability 100,000 test cycles; no load on latch bolt;	Grade B
4.5	Door mass and closing force up to 100 kg mass; 25 N maximum closing force	Grade 4
4.6	Suitability for use on fire/smoke doors	Grade 0 (Not intended for use on smoke/fire door assemblies)
4.7	Safety	Grade 0 (No safety requirement)
4.8	Corrosion resistance, temperature and humidity	Grade 0 (No define resistance)
4.9	Security Minimum security and no drill resistance	Grade 1
4.10	Security-electrical function	Grade 0 (No requirement)
4.11	Security-electrical manipulation	Grade 0 (No requirement)

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TEST RESULT

Product: GADNIC DJKH37 Digital Door Lock

Clause	Requirement - BS EN 14846: 2008	Results	Remarks
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	Pass
5.1.2	Dangerous substances 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.	No dangerous substances had been used.	Pass
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 is less than 3s	Pass
5.2	**Category of use (first digit) – Grade 2**		
5.2.1	Resistance to side load on latch The lock or latch shall resist a side load, F1 Grade 2: 3 kN	The latch can function correctly after resist a side load F1	Pass
5.2.2	Torque to operate deadbolt Torque on the key to operate the deadbolt shall not exceed M3 Grade 2: 1.0 Nm	The test sample exhibited no deadbolt function	N/A
5.2.3	Strength of normal latch action and stops The latch components and travel limit stops shall resist a torque M5 Grade 2: 40 Nm	The latch can function correctly after resist a torque of M5	Pass

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Clause	Requirement - BS EN 14846: 2008	Results	Remarks
5.2.4	Torque resistance of lockable follower The locked follower shall resist a torque of M10 Grade 2: 60 Nm	The follower was not lockable	N/A
5.3	**Durability – Grade B**		
5.3.1	General Table 6 - Durability requirements		

Grade	Latch action	Deadbolt manually operated	Deadbolt automatically operated	Deadbolt electrically operated
A, F	50 000	10 000	50 000	50 000
B, G, L, R, W	**100 000**	25 000	100 000	**100 000**
C, H, M, S, C	200 000	50 000	200 000	200 000

5.3.2	Durability of latch action		
5.3.2.1	Durability of latch action mechanically operated	Tested with electrical operation	N/A
5.3.2.2	Durability of latch action electrically operated and electric strike. The latch action shall complete the minimum of number of cycles specified in Table 6 Grade B: 100,000 cycles, no load on latch bolt The latch action shall function correctly fulfilling the requirements in EN 12209: 2003, Clause 5.4.2 (closing force) and 5.11.1 (torque to withdraw the latch bolt(s))	The latch action function correctly after this 100,000 cycles test. Closing force, F10 = 17 N Torque to withdraw the latch bolt on handle, M2 = 2.7 Nm. (Meet Grade 2 requirement of spindle operation according to EN 12209: 2003)	Pass

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Clause	Requirement - BS EN 14846: 2008	Results	Remarks
5.3.3	Durability of deadbolt mechanism		
5.3.3.1	Durability of deadbolt mechanically operated.	The test sample exhibited no deadbolt function	N/A
5.3.3.2	Durability of deadbolt electrically operated.	The test sample exhibited no deadbolt function	N/A
5.3.3.3	Durability of deadbolt mechanism automatically operated.	The test sample exhibited no deadbolt function	N/A
5.4	**Door mass and closing force - Grade 4**		
	Up to 100kg door mass; 25N maximum closing force	1st closing force, F10 = 19.0 N 2nd closing force, F10 = 15.0 N 3rd closing force, F10 = 18.0 N	Pass
5.5	**Suitability for use on fire/smoke door - Grade 0**		
	Not intended for use on smoke/fire door assemblies	Not intended included in this report	N/C
5.6	**Safety - Grade 0**		
	No safety requirement	Not applicable	N/A
5.7	**Corrosion resistance, temperature and humidity requirements - Grade 0**		
	No defined resistance	Not applicable	N/A
5.8	**Security requirements - Grade 1**		
5.8.1	Torque resistance of knob		
5.8.1.1	Torque resistance of knob or lever handle on bored lock and latch set The locked knob or lever shall not force the lock open with a torque M9 Grade 1: 10 Nm	The lever remained free to move even when the latch set was in the locked position.	N/A

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Clause	Requirement - BS EN 14846: 2008	Results	Remarks
5.8.2	Requirement for side load		
5.8.2.1	Resistance to side load on deadbolt The deadbolt shall resist a side load of F4 Grade 1: 1 kN	The test sample exhibited no deadbolt function	N/A
5.8.2.2	Resistance to drilling and side load on deadbolt	Applicable to grades 5 and 7 only	N/A
5.8.3	Deadbolt projection The deadbolt when fully thrown in locking and detained shall have minimum projection measure from the forend of L1; Grade 1: 10mm	The test sample exhibited no deadbolt function	N/A
5.8.4	Requirements for end load on deadbolt		
5.8.4.1	Resistance to end load The product shall resist the end load of F5. At no time during or after the test shall the bolt projection be less than L2. Grade 1: F5 = 1 kN; L2 = 8mm	The test sample exhibited no deadbolt function	N/A
5.8.4.2	Resistance to end load with drilling	Applicable to grades 5 and 7 only	N/A
5.8.5	Resistance to pulling of hook/claw bolt	No hook/claw bolt	N/A
5.8.6	Resistance to disengaging of hook/claw bolt	No hook/claw bolt	N/A
5.8.7	Resistance to forcing location in sliding door lock	Applicable for sliding door lock only	N/A
5.8.8	Resistance to pulling off knob on bored lock and latch set	Applicable for sliding door lock only	N/A

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Clause	Requirement - BS EN 14846: 2008	Results	Remarks
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	The locking plate shall resist a side load of F4; Grade 1: 1kN	The test sample was able to reach F4 without any breakage or damage.	Pass
5.8.9.3	The locking plate shall resist a side load of F6	Applicable for lock with hook bolt only	N/A
5.8.9.4	The locking plate shall resist a side load of F8	Applicable for sliding lock only	N/A
5.9	**Security – Electrical function – Status indication - Grade 0**		
	No requirement	Not applicable	N/A
5.10	**Security – Electrical manipulation - Grade 0**		
	No requirement	Not applicable	N/A
5.11	**Requirements for product information**		Info
6.0	**Test methods**		Info
7.0	**Marking** a) Manufacturer's name or trademark b) Clear product identification c) Classification d) Number and year of this standard e) The date of Manufacturer	 a) Provided b) Provided c) Not provided d) Not provided e) Provided	Info
8.0	**Evaluation of conformity**	Not intended included in this report	Info

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APPENDIX

Figure 1: Test sample of GADNIC DJKH37 Digital Door Lock for SQO-6034.V1 program

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APPENDIX B

VOID

----- END OF REPORT -----