

# REPORT No 11537

*Date of issue: February 4, 2026*

**Status: FINAL REPORT**

\*\*\*\*\*

## EN 1906

### BUILDING HARDWARE

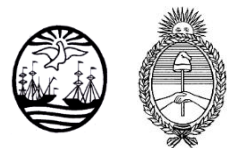
# LEVER HANDLES AND KNOB FURNITURE

## Program: SQO-6042.V1 - Round 1

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<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Approved by:</b>
<b>Berenice Ferrel</b> Assistant Technician	<b>Lic. Esther Casas</b> Physics expert	<b>Eng. Emiliano Medina</b> Quality Assurance Lead

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## 1. FOREWORD

This report summarizes the results of the **SQO-6042.V1 (Round 1)** proficiency testing program on the verification of compliance with requirements for door handles, knobs, and latches. 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 door handles, knobs, and latches using the following standard:

<b>Standard</b>
EN 1906: 2012

To verify this, batches of lever handles 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	Türkiye	Yes	Yes
04	Portugal	Yes	Yes
05	Netherlands	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: **50 samples**

Tested samples from each batch: **15 samples**

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES			
	BATCH: LMI2522	BATCH: LMI2523	BATCH: LMI2524	BATCH: LMI2525
Verification of sample classification	NO	YES	NO	YES

Samples for this program are taken from the selected batch identified as LMI2525.

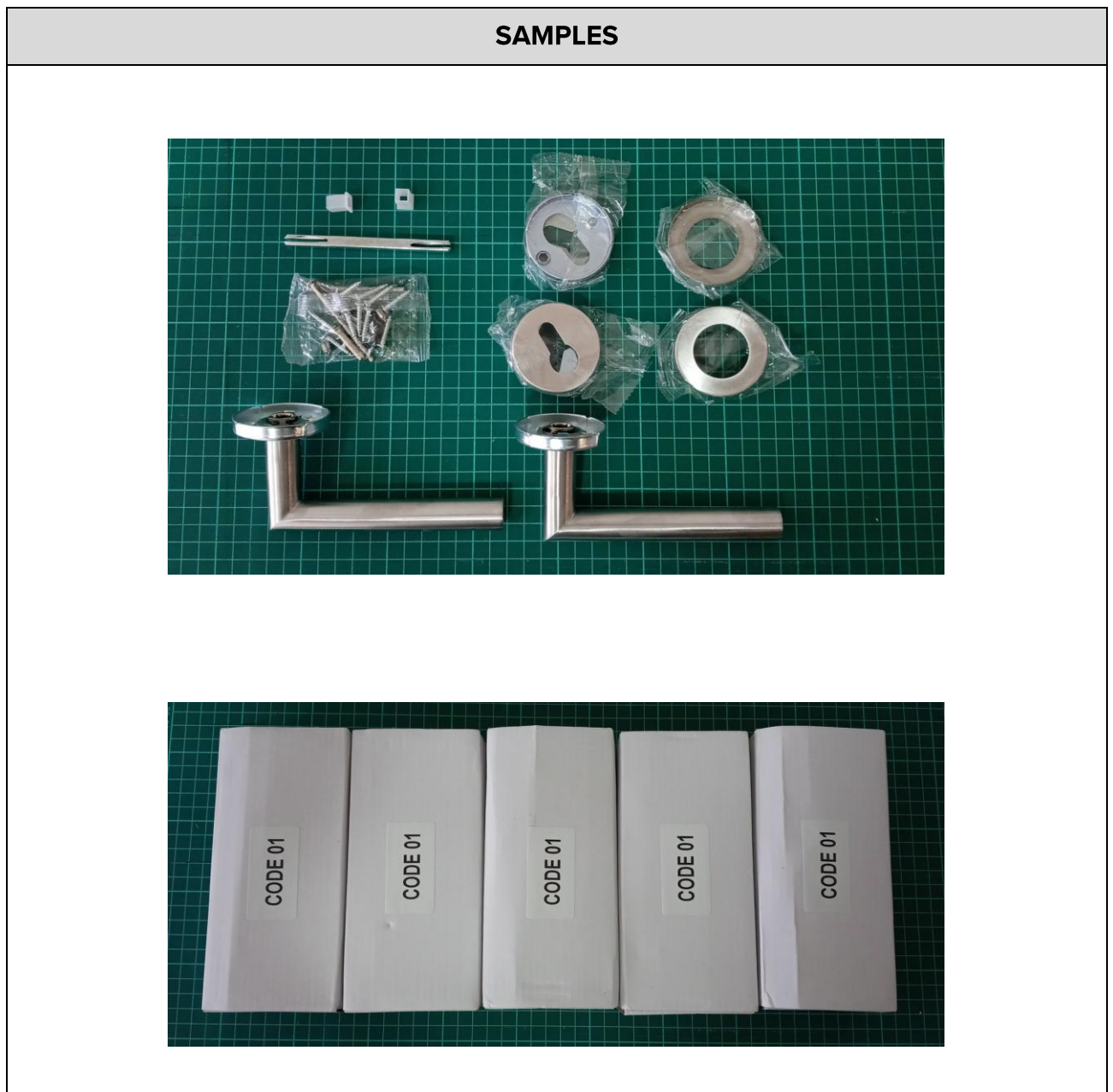
Analysis of this testing data indicated that samples were sufficiently homogeneous for the program and, therefore, any participant results identified as outliers cannot be attributed to sample variability.

## 6. SAMPLE INFORMATION

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

Batch:	LMI2525
Sample ID:	01
Characteristics:	Lever handle - 5 units Classification under verification: <b>26-0020B</b>

## 7. IMAGES





## 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	
5.2	PASS	PASS	PASS	PASS	PASS	PASS
5.3	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
5.4	PASS	PASS	PASS	PASS	PASS	PASS
5.5.1	PASS	PASS	PASS	PASS	PASS	PASS
5.5.2	PASS	PASS	PASS	PASS	PASS	PASS
5.6	PASS	PASS	PASS	PASS	PASS	PASS
5.7.4	FAIL	FAIL	PASS	FAIL	FAIL	FAIL
5.8	PASS	PASS	PASS	PASS	PASS	PASS
5.9	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
5.10	PASS	PASS	PASS	PASS	PASS	PASS
5.11	PASS	PASS	PASS	PASS	PASS	PASS
5.12	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
5.14	FAIL	FAIL	PASS	- <sup>(1)</sup>	FAIL	FAIL

**NOTE:**

<sup>(1)</sup> The participant experienced an issue with their testing equipment and was unable to perform the test.

## 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 **UNSATISFACTORY** results in the testing of clauses 5.7.4 and 5.14.

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 **SATISFACTORY** results in the evaluation of all results arising from the conducted tests.

## 12. CONCLUSIONS

The overall performance on this **SQ-6042.V1 (Round 1)** program from the participating laboratories, based on expected results, are the following:

- Participants Codes **01, 02, 04, and 05** have obtained a **SUFFICIENT** performance in accordance with the expected results and do not require any action;
- Participant Code **03** 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:

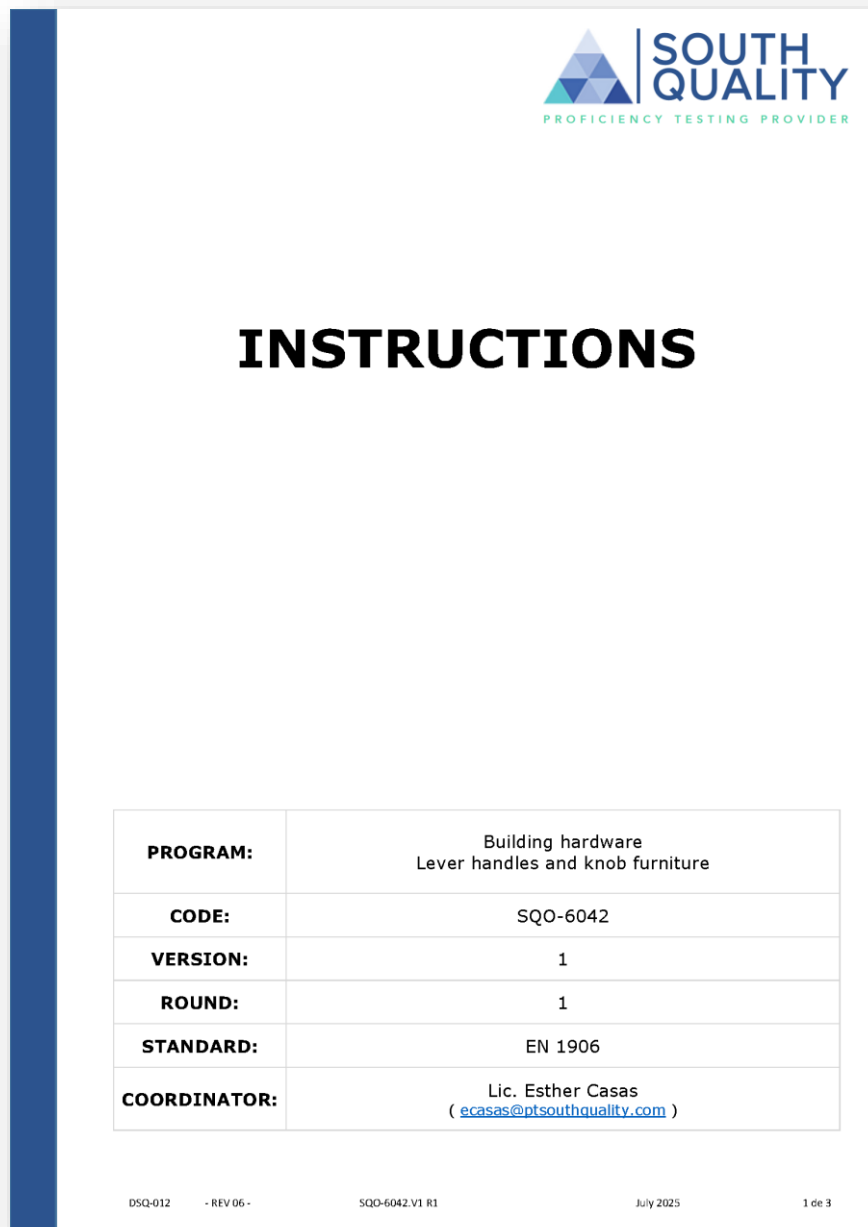
- **SUFFICIENT** performance: No unsatisfactory results were obtained.
- **INSUFFICIENT** performance: One or more unsatisfactory result were obtained.

# APPENDIX A

## A1 - PARTICIPANT DATA

Company: **SIRIM GAS 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](mailto:shairazi@sirim.my)

## A2 - INSTRUCTIONS



The cover page features the South Quality logo at the top right, consisting of a stylized triangle made of smaller triangles. The word "SOUTH" is above "QUALITY", and "PROFICIENCY TESTING PROVIDER" is written in smaller letters below. The word "INSTRUCTIONS" is centered in a large, bold, black font. At the bottom, there is a table with technical details and a footer with document identifiers.

<b>PROGRAM:</b>	Building hardware Lever handles and knob furniture
<b>CODE:</b>	SQO-6042
<b>VERSION:</b>	1
<b>ROUND:</b>	1
<b>STANDARD:</b>	EN 1906
<b>COORDINATOR:</b>	Lic. Esther Casas ( <a href="mailto:ecasas@ptsouthquality.com">ecasas@ptsouthquality.com</a> )

DSQ-012 - REV 06 - SQO-6042.V1 R1 July 2025 1 de 3

**1 - General**

This document serves as a guide for managing the results of the **SQO-6042.V1 (Round 1)** program.

**2 - Standard**

**EN 1906: 2012**

**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
LMI2525-01	Lever handle	5 units

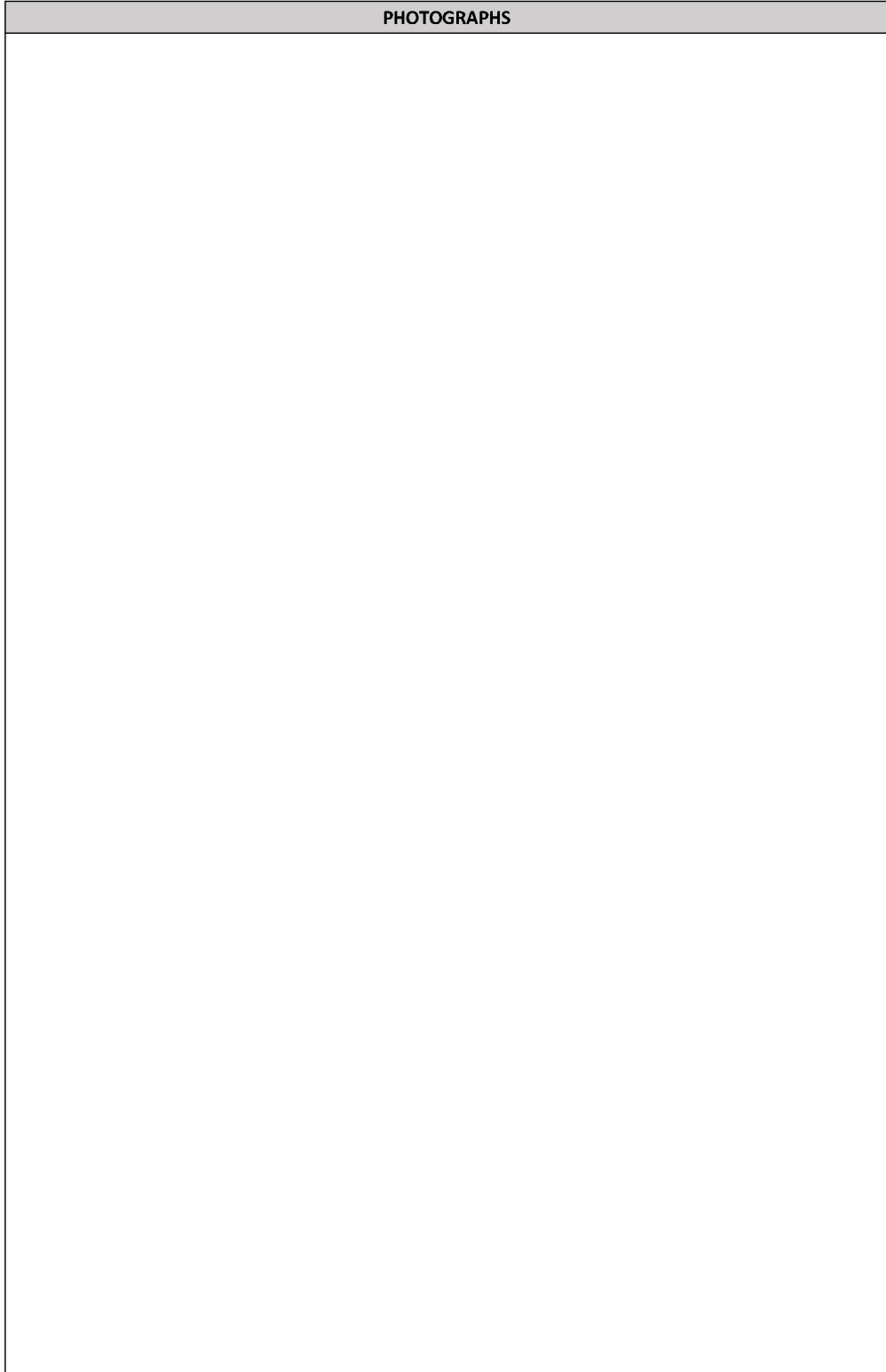
**6 - Notes**

- 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	6	-	0	0	2	0	B
---	---	---	---	---	---	---	---

- 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)  
 No.1, Persiaran Dato' Menteri, Section 2, P.O. Box 7035,  
 40700 Shah Alam, Selangor Darul Ehsan, Malaysia.  
 Tel: +603-5544 6382 / 6383  
 Fax: +603-5544 6381  
 www.sirim-qas.com.my

### TEST REPORT

REPORT NO. : PT-ILC-MIPL-003-2025	PAGE: 1 OF 8
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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 - LEVER HANDLE

Reference Standard/ Method of test : BS EN 1906: 2016 Building hardware - Lever handles and knob furniture - Requirements and test methods

Description of sample/ Description of Test Specimen : Program Code : SQO-6042.V1  
 Sample Code : LMI2525-01  
 Classification : 26-0020B  
 No. of Sample : 5 units

Date Received of Complete Application : Not Applicable

Job No. : SQO-6042.V1

Description of Test Results/ Overall Test Result : The test results for the submitted test samples as described in this test report did not comply with the requirements of the above reference standard

Issued date : **24 November 2025**

Approved Signatory



(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	Sample Code	Classification	Results
Lever Handle	LMI2525-01	2 6 - 0 0 2 0 B	The submitted test sample <b>Not Complied With</b> all applicable mechanical performance requirements of BS EN 1906: 2012

### Remarks:

- Five (5) units of Lever Handle identified as 'LMI2525-01 Lever Handle' were submitted and received in good condition for testing to verify the durability, strength, security, and performance of cylinders and their original keys in accordance with BS EN 1906: 2012.
- The submitted sample(s) provided by the applicant in this test report only apply to the samples as received.
- The test was 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 test took place from September 17<sup>th</sup>, 2025, to October 30<sup>th</sup>, 2025.
- All types of tests were conducted by personnel from the Mechanical & Automotive Section (MAST), Testing Service Department, SIRIM QAS International Sdn. Bhd.
- A Simple Acceptance Rule was used for the conformity statement. The level of risk regarding the Probability of False Acceptance is up to 50%, according to ILAC G8:09
- The abbreviation used in this test report denotes as follows;

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



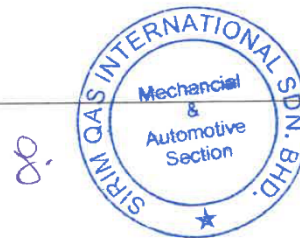
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### TEST RESULT

Model : LMI2525-01 Lever Handle  
 Test Method : BS EN 1906: 2012

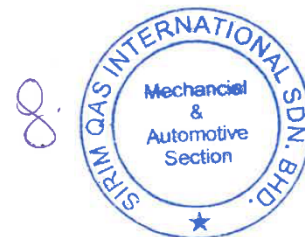
Clause 4. Classification								
Clause	4.1.2	4.1.3	4.1.4	4.1.5	4.1.6	4.1.7	4.1.8	4.1.9
	Category of use	Durability	Door Mass	Fire resistance	Safety	Corrosion Resistance	Security	Type of operation
Grade	2	6	-	0	0	2	0	B

Clause	Requirements	Result/Observation (s)										
1	Scope	Informative										
2	Normative references	Informative										
3	Terms and definitions	Informative										
4	Classification	Table Clause 4. Classification										
5	Requirement											
5.1	General											
5.2	Check of spindle and fastening elements  The spindle and fastening element should be supplied or specified by the manufacturer with lock. The manufacturer shall clearly state the door thickness or range of the door thicknesses for which the furniture is suitable and in the case of spring assisted and spring-loaded furniture, the angle of rotation possible by the design.	<b>Pass</b>  Spindle and fastening elements were supplied by manufacturer.  Door thicknesses: 30 mm to 55 mm The angle of rotation: 0° to 50° Spring-loaded furniture										
5.3	Rotational torque strength  Lock or latch furniture shall show no failure of any component and the lever handle or knobs shall still operate after the test. Lever handles or knobs shall not deform permanently more than 5 mm as measured at 50 mm ± 2mm from the axis of rotation by the dial gauge. Category of use acceptance criteria: <table border="1" data-bbox="459 1624 911 1704"> <thead> <tr> <th>Grade</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Torque (Nm)</td> <td>20</td> <td>30</td> <td>40</td> <td>50</td> </tr> </tbody> </table>	Grade	1	2	3	4	Torque (Nm)	20	30	40	50	<b>Fail</b>  Grade 2  The test sample exhibited component failure and was unable to operate upon completion of the test. The handle failed to return to its original (rest) position, indicating a loss of normal functionality.
Grade	1	2	3	4								
Torque (Nm)	20	30	40	50								



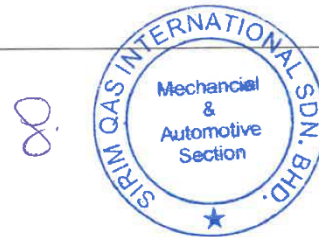
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Clause	Requirements	Result/Observation (s)										
5.4	<p>Axial strength of lock furniture or latch furniture and fixing.</p> <p>There shall be no failure of any component and lever handles or knobs shall still operate after the test.</p> <p>After testing, the permanent deformation for lever handles or knobs measured at the reference points 75 mm ± 2 mm from the axis of rotation shall not increase by more than 2 mm. Category of use acceptance criteria:</p> <table border="1"> <thead> <tr> <th>Grade</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Load (N)</td> <td>300</td> <td>500</td> <td>800</td> <td>1000</td> </tr> </tbody> </table>	Grade	1	2	3	4	Load (N)	300	500	800	1000	<p><b>Pass</b></p> <p>Grade 2</p> <p>Distance from Test Block face at 75mm ±2 mm = 67.82 mm</p> <p>Distance from Test Block face at 75mm ±2 mm (After Axial Strength) = 69.77 mm</p> <p>Deformation 1.95 mm</p>
Grade	1	2	3	4								
Load (N)	300	500	800	1000								
5.5	Free play and safety											
5.5.1	<p>Requirement of free play</p> <p>The maximum total movement measure shall not exceed the limit as below, Category of use acceptance criteria:</p> <table border="1"> <thead> <tr> <th>Grade</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Total movement (mm)</td> <td>≤ 10</td> <td>≤ 10</td> <td>≤ 6</td> <td>≤ 6</td> </tr> </tbody> </table>	Grade	1	2	3	4	Total movement (mm)	≤ 10	≤ 10	≤ 6	≤ 6	<p><b>Pass</b></p> <p>Grade 2</p> <p>Distance from Test Block face at 75mm ±2 mm ("at rest" position).</p> <p>a. Pull force (away) = 68.80 mm b. Push force (towards) = 67.05 mm</p> <p>Distance from Test Block face at 75mm ±2 mm (at maximum rotation).</p> <p>a. Pull force (away) = 66.05 mm b. Push force (towards) = 65.55 mm</p> <p>Total movement "at-rest" = 1.75 mm Total movement at maximum = 0.50 mm</p>
Grade	1	2	3	4								
Total movement (mm)	≤ 10	≤ 10	≤ 6	≤ 6								
5.5.2	<p>Safety requirement</p> <p>When the lock or latch furniture is fitted to the test block there shall be no sharp edges that can cause injury.</p>	<p><b>Pass</b></p> <p>No sharp edge</p>										



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Clause	Requirements	Result/Observation (s)										
5.6	Free angular movement of misalignment The free angular movement or misalignment shall not exceed the limit below, Category of use acceptance criteria: <table border="1" data-bbox="459 689 938 801"> <thead> <tr> <th>Grade</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Total movement (mm)</td> <td>≤ 10</td> <td>≤ 10</td> <td>≤ 5</td> <td>≤ 5</td> </tr> </tbody> </table>	Grade	1	2	3	4	Total movement (mm)	≤ 10	≤ 10	≤ 5	≤ 5	<b>Pass</b> Grade 2 Misalignment measurement = 1.178 mm
Grade	1	2	3	4								
Total movement (mm)	≤ 10	≤ 10	≤ 5	≤ 5								
5.7	Torque of return mechanism.											
5.7.1	General											
5.7.4	Spring-loaded lever handles or knobs The torque required to rotate the lever handles through a maximum of 60° +5° or through the angle of rotation possible by the design shall meet shall not be more than <b>1.5 Nm for grades 1 &amp; 2</b> and 2.4 Nm for grades 3 & 4. After removal of the torque, the lever handle shall return to its recorder "at-rest" position. Limited deviations "at rest" after test: ± 2°	<b>Fail</b> Maximum torque to operate through a maximum rotation = 3.7 Nm Lever "at-rest" position after release from full angle of rotation = 0.25° Return to "at-rest" position. 5° = 0.35° 15° = 1.10° 25° = 0.85° 35° = 1.40° 45° = 1.05° 50° = 0.65°										
5.8	Durability of mechanism There shall be no failure of any component and the lever handle or knob shall still operate after test. Grade 6: 100,000 cycles After the test, the "at-rest" position of spring-loaded door furniture when against its stops shall conform to the "at-rest" position recorded before commencing, the detailed requirement specified as below, Grade 2: Limited deviations "at rest" after test: ± 2°	<b>Pass</b> No failure of any component and still operate after completed 100,000 cycles test. Limited deviations "at rest" after test: 0.30°										



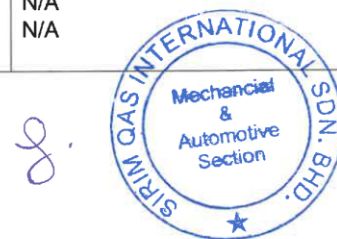
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Clause	Requirements	Result/Observation (s)
5.9	Repeat test of axial strength of lock or latch furniture and method of fixing  The lock or latch furniture shall be repeat tested and shall conform to 5.4	<b>Fail</b>  Grade 2  Distance from Test Block face at 75mm $\pm 2$ mm = 67.48 mm  Distance from Test Block face at 75mm $\pm 2$ mm (After Axial Strength) = 69.74 mm  Deformation = 2.26 mm
5.10	Repeat test of free play measurement  The free play measured on the lever handle or knob not driven during the endurance test shall be repeat tested and shall conform to 5.5.1	<b>Pass</b>  Grade 2  Distance from Test Block face at 75mm $\pm 2$ mm ("at rest" position). c. Pull force (away) = 69.63 mm d. Push force (towards) = 65.83 mm  Distance from Test Block face at 75mm $\pm 2$ mm (at maximum rotation). c. Pull force (away) = 68.00 mm d. Push force (towards) = 67.48 mm  Total movement "at-rest" = 3.80 mm Total movement at maximum = 0.52
5.11	Repeat test of measurement of free angular movement or misalignment  The lock or latch furniture shall be repeat tested and shall conform to 5.6	<b>Pass</b>  Grade 2  Misalignment measurement = 1.298 mm



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Clause	Requirements	Result/Observation (s)
5.12	Repeat test or torque of return mechanism The lock or latch furniture shall be repeat tested and shall conform 5.7	<b>Fail</b> Maximum torque to operate through a maximum rotation = 3.9 Nm Lever "at-rest" position after release from full angle of rotation = 0.25° Return to "at-rest" position. 5° = 0.70° 15° = 0.15° 25° = 0.15° 35° = 0.80° 45° = 0.30° 50° = 0.45°
5.13	Axial strength for safety furniture (Optional) After completion of 7.3.10, furniture classified as safety furniture shall be subjected to the requirements of 7.3.11.	<b>N/A</b> Furniture without special safety requirement
5.14	Corrosion resistance Corrosion resistance shall conform to EN 1670. The grade corrosion resistance achieved shall be included in the classification coding specified in 7.4. All surfaces of lever handle and knob furniture which are visible when fitted in service shall confirm to the acceptance criteria defined in EN 1670	<b>Fail</b> Grade 2 Moderate resistance (48 hours). Surfaces of lever handle showed red rust, visible to unaided normal vision.
6	Tests – Sequence and test	Informative
7	Test methods	Informative
8	Marking <ul style="list-style-type: none"> <li>- manufacturer's name or trademark</li> <li>- product model identification</li> <li>- number of this European Standard and the classification in accordance with Clause 4</li> <li>- door thickness range</li> <li>- year and week of manufacturer</li> </ul>	N/A N/A N/A N/A N/A



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**APPENDIX**

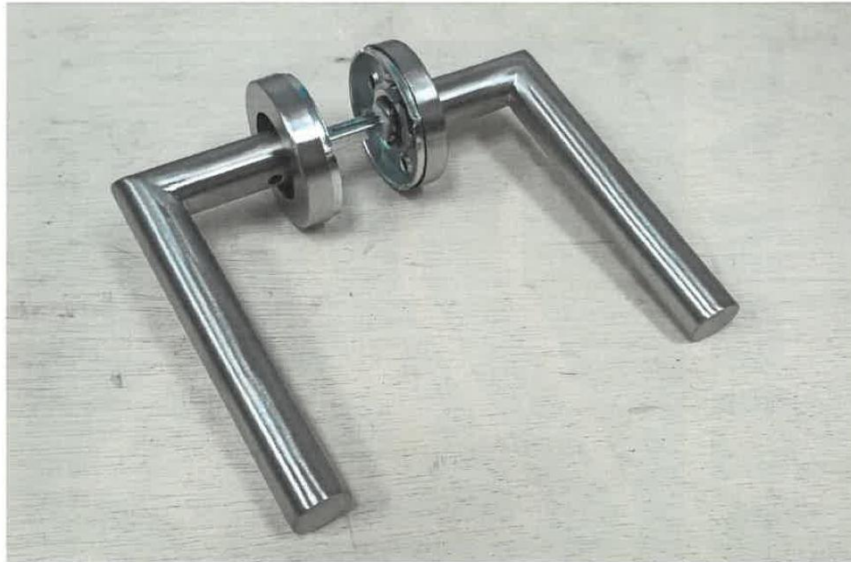


Figure 1: Test sample of LMI2525-01 Lever Handle for SQO-6042.V1 program



# APPENDIX B

**VOID**

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