

REPORT No 11943

Date of issue: July 10, 2026

Status: FINAL REPORT

IEC 60068-2-75 ENVIRONMENTAL TESTING - TEST Eh: HAMMER TESTS - Program: SQ-6072.V4

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

This report summarizes the results of the **SQ-6072.V4** proficiency testing program on the determination of the resistance of samples to impact. This program is conducted in a bilateral format, following the “split-sample” design described in clause A.4.2 of ISO/IEC 17043: 2023 (Alternative interlaboratory comparisons).

South Quality conducted the testing program in June 2026 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
Statistics:	Lic. Manuel Tozaki
Supervision:	Eng. Emiliano Medina

3. OBJECTIVE

The objective of this proficiency testing program is to assess the participant's performance in determining the resistance of samples to impact, in accordance with the following standard:

Standard
IEC 60068-2-75: 2014

For verification, batches of plastic electric box samples have been selected.

As a usual practice of this program, three different combinations of samples can be sent to participants:

- i. Sample A (PASS) + Sample B (PASS).
- ii. Sample A (PASS) + Sample B (FAIL).
- iii. Sample A (FAIL) + Sample B (FAIL).

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

4. PARTICIPANT

Company: **SGS Fimko Ltd.**

Country: Finland

Client ID: E543

Contact person: Jens Köchel
 Technical Manager (Safety)
jens.kochel@sgs.com

5. HOMOGENEITY

Several batches were prepared identically by the staff at South Quality.

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 applied, and samples were selected using random number generation software.

The results of this test are presented below:

Size of each batch: **200 units**

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

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (Eha - 5J)		
	BATCH: LMI2839	BATCH: LMI2840	BATCH: LMI2841
RESISTANCE TO IMPACT	YES	YES	YES

Size of each batch: **200 units**

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

DETERMINATION	HOMOGENEITY OF RESULTS IN THE ANALYZED SAMPLES (Eha - 10J)		
	BATCH: LMI3035	BATCH: LMI3036	BATCH: LMI3037
RESISTANCE TO IMPACT	YES	YES	NO

Samples for this program are taken from selected batches identified as **LMI2841** and **LMI3036**.

For the batches indicated, the values determined in the homogeneity study are used as assigned values.

Analysis of this test data indicated that the selected samples were sufficiently homogeneous for the program and therefore the results of participants identified as outliers cannot be attributed to sample variability.

6. SAMPLE INFORMATION

The following samples were sent for testing:

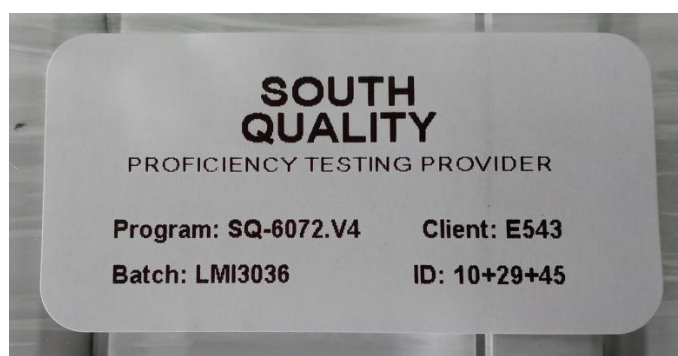
Batch:	LMI2841
Sample ID:	15 + 32 + 48
Characteristics:	Plastic electric box - 75x75x55 mm - 3 units Trademark: TAAD

Batch:	LMI3036
Sample ID:	10 + 29 + 45
Characteristics:	Plastic electric box - 90x90x55 mm - 3 units Trademark: GENROD

7. IMAGES



SAMPLES



8. ASSIGNED VALUES

BATCH	METHOD	IMPACT LOCATION	RESULT
LMI2841	Eha - 5J	FRONT COVER	CRACKED
		LATERAL SIDES	NO CRACKS
LMI3036	Eha - 10J	FRONT COVER	CRACKED
		LATERAL SIDES	CRACKED

9. PARTICIPANT RESULTS (SEE APPENDICES B AND C)

BATCH	METHOD	IMPACT LOCATION	RESULT
LMI2841	Eha - 5J	FRONT COVER	CRACKED
		LATERAL SIDES	NO CRACKS
LMI3036	Eha - 10J	FRONT COVER	CRACKED
		LATERAL SIDES	CRACKED

10. 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**.

11. EVALUATION OF PERFORMANCE

IMPACT LOCATION	BATCH: LMI2841 (Eha - 5J)		PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE	
FRONT COVER	CRACKED	CRACKED	SATISFACTORY
LATERAL SIDES	NO CRACKS	NO CRACKS	SATISFACTORY

IMPACT LOCATION	BATCH: LMI3036 (Eha - 10J)		PERFORMANCE RESULT
	PARTICIPANT RESULT	ASSIGNED VALUE	
FRONT COVER	CRACKED	CRACKED	SATISFACTORY
LATERAL SIDES	CRACKED	CRACKED	SATISFACTORY

12. CONCLUSIONS

The overall performance on this **SQ-6072.V4** program from the participant laboratory **SGS Fimko Ltd.**, is **SUFFICIENT** based on expected results.

The criteria used for the evaluation of the overall performance are the following:

- **SUFFICIENT** performance: No unsatisfactory results were obtained.
- **INSUFFICIENT** performance: An unsatisfactory result was obtained.

APPENDIX A

INSTRUCTIONS



INSTRUCTIONS

PROGRAM:	Environmental testing - Test Eh: Hammer tests -
CODE:	SQ-6072
VERSION:	4
STANDARD:	IEC 60068-2-75
COORDINATOR:	Lic. Esther Casas (ecasas@ptsouthquality.com)

1 - General

This document serves as a guide for managing the results of the **SQ-6072.V4** program.

2 - Standard

IEC 60068-2-75: 2014

3 - Tests involved

TEST
Determination of the resistance of samples to impact

4 - Samples

CODE	SAMPLE	QUANTITY
LMI2841-XX	Plastic electric box - 75x75x55 mm Trademark: TAAD	3
LMI3036-XX	Plastic electric box - 90x90x55 mm Trademark: GENROD	3

5 - Notes

- Being a bilateral program, there is no deadline for submitting results.
- The participant must submit the results using the usual report employed by their laboratory.
- The samples are to be handled as routine lab samples, with all testing, documentation, and reporting adhering to IEC 60068-2-75.
- Samples must be retained until the end of the program, which concludes with the submission of the final report.
- To review the results, test images would be appreciated. Images can be attached at the end of this document or sent by email.

6 - Test conditions

CODE	METHOD	TEST SEVERITIES	PRECONDITIONING	IMPACT LOCATIONS
LMI2841-XX	Eha	Impact energy: 5J	NO	- Lateral sides - Front cover
LMI3036-XX	Eha	Impact energy: 10J	NO	- Lateral sides - Front cover

PHOTOGRAPHS

APPENDIX B

PARTICIPANT RESULTS (TR # PTP 2026: IK SQ-6072a)

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2025-06-26

Test Report issued under the responsibility of:

SGS Fimko Ltd

TEST REPORT Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests	
Report Number.	PTP 2026: IK SQ-6072a
Date of issue	2026-06-08
Total number of pages	15
Name of Testing Laboratory preparing the Report.....	SGS Fimko Ltd
Applicant's name.....	PT SOUTH QUALITY S.A.S
Address	San Miguel De Garicoits 679 – Villa Bosch BUENOS AIRES, ARGENTINA
Test specification: Standard : IEC 60068-2-75:2014 + AMD1:2025 Test procedure..... : N/A Specific program, if applicable : ☐ CCP ☐ ACP Non-standard test method : N/A	
TRF template used : IECEE OD-2020-F1:2024, Ed.1.8 Test Report Form No. : N/A Test Report Form(s) Originator..... : SGS Fimko Ltd Master TRF : IEC60068-2-75_2014+A1_2025	
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 Report No.
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Test item description.....	Enclosure (Plastic electric box)	
Trademark(s).....	TAAD	
Manufacturer.....	-	
Model/Type reference.....	Not informed	
Ratings.....	IP65	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☐ Testing Laboratory:		
Testing location/ address.....	SGS Fimko Ltd Takomitie 8 FI-00380 Helsinki	
Tested by (name, function, signature).....	Olli Laitvala Senior Testing Engineer	
Approved by (name, function, signature).....	Vesa Haapajärvi Testing Engineer	
☐ Testing procedure: CTF Stage 1:		
Testing location/ address.....		
Tested by (name, function, signature).....		
Approved by (name, function, signature).....		
☐ Testing procedure: CTF Stage 2:		
Testing location/ address.....		
Tested by (name + signature).....		
Witnessed by (name, function, signature).....		
Approved by (name, function, signature).....		
☐ Testing procedure: CTF Stage 3:		
☐ Testing procedure: CTF Stage 4:		
Testing location/ address.....		
Tested by (name, function, signature).....		
Witnessed by (name, function, signature).....		
Approved by (name, function, signature).....		
Supervised by (name, function, signature).....		

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 Report No.
PTP 2026: IK SQ-6072a

List of Attachments (including a total number of pages in each attachment):	
-	
Summary of testing:	
Tests performed (name of test, test clause and date test performed):	Testing location: (CBTL, SPTL, CTF, Subcontractor)
Cl. 5. Test Ene: Pendulum hammer	Test laboratory: SGS Fimko Ltd
Summary of compliance with National Differences	
N/A	
Use of uncertainty of measurement for decisions on conformity (decision rule):	
☒ No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ('simple acceptance' decision rule, previously known as 'accuracy method').	
☐ Other: ... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)	
Information on uncertainty of measurement:	
The uncertainties of measurement are calculated by the laboratory based on application of criteria given by ISO 5014 for test equipment and application of test methods, decision sheets and operational procedures of IEC60068-2-75. IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IEC60068-2-75 scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer. Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.	

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 Report No.
PTP 2026: IK SQ-6072a

Test item particulars
Classification of installation and use
Supply Connection.....
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.....: 2026-02-23
Date (s) of performance of tests.....: 2026-05-08
General remarks:
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.
Throughout this report a ☒ comma / ☐ point is used as the decimal separator.
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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60068-2-75:
The application for obtaining an IEC60068-2-75 Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.
☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.

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IEC 60068-2-75			
Clause	Requirement + Test	Result - Remark	Verdict
	86 kPa to 106 kPa		N/A
4.3	Standard atmospheric conditions for measurements and tests		P
	25 °C ± 5 °C		P
	50 %RH ± 25 %RH		P
	86 kPa to 106 kPa		P
Measured temperature (°C)	Measured relative humidity (%RH)	Measured barometric pressure (kPa)	Comments
20 - 21	26 - 30	102	-
Supplementary information			

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Photographic documentation.



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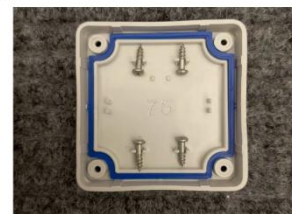
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PTP 2026: IK SQ-6072a



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APPENDIX C

PARTICIPANT RESULTS (TR # PTP 2026: IK SQ-6072b)

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2025-06-26

Test Report issued under the responsibility of:

SGS Fimko Ltd

TEST REPORT Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests	
Report Number. :	PTP 2026: IK SQ-6072b
Date of issue :	2026-06-09
Total number of pages :	17
Name of Testing Laboratory preparing the Report..... :	SGS Fimko Ltd
Applicant's name..... :	PT SOUTH QUALITY S.A.S
Address :	San Miguel De Garicoits 679 – Villa Bosch BUENOS AIRES, ARGENTINA
Test specification: Standard : IEC 60068-2-75:2014 + AMD1:2025 Test procedure..... : N/A Specific program, if applicable : ☐ CCP ☐ ACP Non-standard test method : N/A	
TRF template used : IECEE OD-2020-F1:2024, Ed.1.8 Test Report Form No. : N/A Test Report Form(s) Originator..... : SGS Fimko Ltd Master TRF : IEC60068-2-75_2014+A1_2025	
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 Report No.
PTP 2026: IK SQ-6072b

Test item description.....	Enclosure (Plastic electric box)	
Trademark(s)	GENROD	
Manufacturer	-	
Model/Type reference	Not informed	
Ratings	IP65	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☐ Testing Laboratory:		
Testing location/ address	SGS Fimko Ltd Täikoniitie 9 FI-00380 Helsinki	
Tested by (name, function, signature)	Olli Lahtela Senior Testing Engineer	
Approved by (name, function, signature)	Vesa Haapajärvi Testing Engineer	
☐ Testing procedure: CTF Stage 1:		
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature)		
☐ Testing procedure: CTF Stage 2:		
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature)		
Approved by (name, function, signature)		
☐ Testing procedure: CTF Stage 3:		
☐ Testing procedure: CTF Stage 4:		
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature)		
Approved by (name, function, signature)		
Supervised by (name, function, signature)		

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 Report No.
PTP 2026: IK SQ-6072b

List of Attachments (including a total number of pages in each attachment): -	
Summary of testing:	
Tests performed (name of test, test clause and date test performed): Cl. 5: Test Eha: Pendulum hammer	Testing location: (CBTL, SPTL, CTF, Subcontractor) Test laboratory: SGS Fimko Ltd
Summary of compliance with National Differences N/A	
Use of uncertainty of measurement for decisions on conformity (decision rule): ☒ No decision rule is specified by the IEC standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method"). ☐ Other: ... (to be specified, for example when required by the standard or client, or if national accreditation requirements apply)	
Information on uncertainty of measurement: The uncertainties of measurement are calculated by the laboratory based on application of criteria given by ISO 5014 for test equipment and application of test methods, decision sheets and operational procedures of IECCE. IEC Guide 115 provides guidance on the application of measurement uncertainty principles and applying the decision rule when reporting test results within IECCE scheme, noting that the reporting of the measurement uncertainty for measurements is not necessary unless required by the test standard or customer. Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.	

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 Report No.
PTP 2026: IK SQ-6072b

Test item particulars
Classification of installation and use
Supply Connection
Possible test case verdicts: - test case does not apply to the test object
- test object does meet the requirement
- test object does not meet the requirement
Testing
Date of receipt of test item
Date (s) of performance of tests
General remarks: "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☒ comma / ☐ point is used as the decimal separator.
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Manufacturer's Declaration per sub-clause 4.2.5 of IEC60068-2: The application for obtaining an IEC60068-2 Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided ☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.

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Name and address of factory (ies).....: -

General product information and other remarks:

Code number according to PTP instructions: LM0306-XX.

The plastic electric box is marked only with 'IP65'.

The PTP instructions require an impact energy of 10 J, which is equal to IK class is IK09.

3 samples have been provided marked '10', '29' and '45' which are used as sample numbers.

The actual fall height has been calculated for a gravity of 9,819 m/s² for the location of Helsinki, Finland.

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PTP 2026: IK SQ-6072b

IEC 60068-2-75			
Clause	Requirement + Test	Result - Remark	Verdict
4	Provisions common to all hammer test methods		P
4.1	Severities		P
4.1.2	Impact energy (J)	10	P
4.1.3	Number of impacts	3 per PTP informed locations: - Front cover - Lateral sides Different places with each one impact on the informed locations have been tested	P
4.2	Test apparatus		P
4.2.1	Description	Pendulum hammer	P
4.2.2	Mounting	Test on front cover: Mounted by its normal means on a rigid plane support Test on lateral side: Placed against a rigid plane support	P
4.3	Preconditioning	No preconditioning	N/A
4.4	Initial measurements	PTP instructions do not require initial measurements. The electrical box was tested with initially no defects and front cover screwed to the bottom.	P
4.5	Testing		P
4.5.2	Attitudes and impact locations	PTP instructions specifies impact locations to be front cover and lateral sides.	P
4.5.3	Preparation of the specimen	Front cover screwed to bottom part. Used force taken from IEC 61439-3, Table 102: 1,2 Nm.	P
4.5.4	Operating mode and functional monitoring	No operational or functional monitoring required	N/A
4.6	Recovery		N/A
4.7	Final measurements	No final visual, dimension or functional measurements required by PTP instructions.	N/A
	Visual	See appended TABLE: Impact test observation	N/A
	Dimensional	-	N/A

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PTP 2026: IK SQ-6072b

IEC 60068-2-75			
Clause	Requirement + Test	Result - Remark	Verdict
	Functional	-	N/A
5	Test Eha: Pendulum hammer		P
5.2	Height of fall (mm)	205	P
	Mass (kg)	5	P
	Material: Polyamide (≤ 1 J); steel (2 J – 50 J)	Steel	P
6	Test Ehb: Spring hammer		N/A
	Radius of striking element: 10 mm (≤ 1 J); 25 mm (2 J)		N/A
	Material: Polyamide (≤ 1 J); steel (2 J)		N/A
7	Test Ehc: Vertical hammer		N/A
	Height of fall (m)		N/A
	Mass (kg)		N/A
	Material: Polyamide (≤ 1 J); steel (2 J – 50 J)		N/A

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PTP 2026: IK SQ-6072b

IEC 60068-2-75				
Clause	Requirement + Test	Result - Remark		Verdict
TABLE: Impact test observation				
	Surface tested	Impact energy (J)	Impacts per surface	Comments
	Front cover	5	3	Sample #10: Front cover cracked on second impact. Sample #29: Front cover cracked on first impact. Sample #45: Front cover cracked.
	Lateral sides	5	3	Sample #10: Tested lateral surface straight from front cover markings. Side cracked. Sample #29: Tested lateral surface straight from front cover markings. Side cracked on first impact. Sample #45: Tested lateral surface straight from front cover markings. No cracks.
Supplementary information: All impact places marked, see pictures at the end of Test Report.				

TABLE: Ambient conditions during test (reference IEC 60068-1:2013)		P
4.2	Standard atmospheres for referee measurements and tests	N/A
	20 °C ± 1 °C	N/A
	20 °C ± 2 °C	N/A
	27 °C ± 1 °C	N/A
	27 °C ± 2 °C	N/A
	65 %RH ± 2 %RH	N/A
	65 %RH ± 5 %RH	N/A
	23 °C ± 1 °C	N/A
	23 °C ± 2 °C	N/A
	25 °C ± 1 °C	N/A
	25 °C ± 2 °C	N/A
	50 %RH ± 2 %RH	N/A
	50 %RH ± 5 %RH	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
4.3	86 kPa to 106 kPa		N/A
	Standard atmospheric conditions for measurements and tests		P
	25 °C ± 5 °C		P
	50 %RH ± 25 %RH		P
	86 kPa to 106 kPa		P
Measured temperature (°C)	Measured relative humidity (%RH)	Measured barometric pressure (kPa)	Comments
20 - 21	25 - 30	102	-
Supplementary information			

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Photographic documentation:



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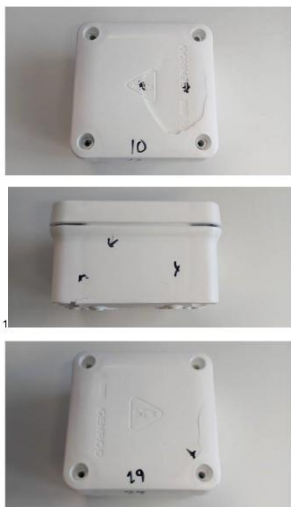
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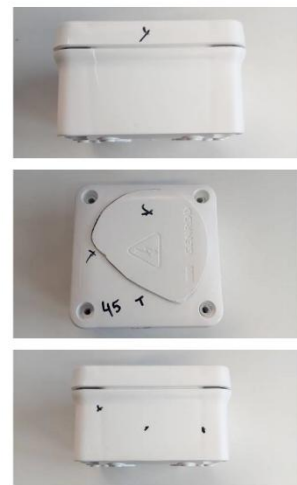
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