INDUSTRY COMMITTEE FOR EMERGENCY LIGHTING

ICEL Product Certification Scheme

Requirements for the ICEL Certification of Emergency Lighting products

The ICEL Product Certification Scheme (the Scheme) is non-mandatory and participation is entirely at the discretion of ICEL members. Certification under the Scheme and use of the ICEL Certification mark indicates that the members' product has been assessed as appropriate for Certification under the Scheme.

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Contents

1. Introduction

This Certification Scheme has been developed to support UK lighting companies who manufacture and/or supply products for emergency lighting applications. The Scheme has been developed by the LIA and ICEL to recognise products developed in conformity with the Low Voltage Directive/UK EE(S) Regulation.

The Scheme is owned by ICEL and administered by the LIA Laboratory Ltd. The scheme is managed by the LIA Laboratory.

Applicants using Principle 1 & 2are expected to have successfully completed an ICEL (LIAQA EL Module 6) Audit before they can apply for product Certification under this Scheme. Successful product Certifications will be listed on the LIA/ICEL website and be subject to an annual audit to reconfirm the Certification. An ICEL certification logo will be provided to the successful member to use on the product, catalogue or website.

The purpose of this Scheme is to assess and certify products used in emergency lighting applications, where a safety standard exists, such as emergency lighting luminaires, emergency lighting controlgears, batteries (including CPS) for emergency luminaires, etc. Batteries shall be additionally assessed to the relevant performance standards.

2.1 Aims of the scheme

- Maintain the core values of safety and conformity for emergency lighting products.
- Certification based on safety/performance standards.
- To provide an encompassing emergency lighting product Certification where safety/performance standards exist.
- Annual registration renewal requirement to keep information up to date.
- Online product portal for end-users, specifiers and installers to verify Certifications.

2. Submission Process

There are three routes for applicants to successfully achieve the product Certification listing known as Principle 1, Principle 2 & Principle 3. The submission involves a paper-based application against the product type as listed in the application form (Section 11) with the submission of documentary evidence in support of the application. Documentary evidence under Principle 1,Principle 2 & Principle 3 shall be no more than 5 years old at the time of the document review (at initial and renewal stages) and with respect to current editions of the relevant standard(s) given Annex A with the appropriate national differences.

2.1 Principle 1

Applicants shall submit their LVD/UK EE(S)R technical files as documentary evidence to the LIA Laboratory certification body for review. The technical file shall contain technical information of the product(s), the aim of which is to demonstrate conformity of the product with the essential requirements of the Low Voltage Directive/UK EE(S)R. Additionally, the technical file shall contain evidence of performance for batteries used in self-contained luminaires. The technical file shall include a detailed test report equivalent to a TRF format showing full compliance against the relevant standard(s) listed in Annex A. A sample may be requested to help with the file review.

When ICEL certification of an emergency luminaire is requested, photometric data (files) of all family variants (as per scope of certification) for which certification is requested (agreed with certification body during application process) shall be provided. The photometric data provided will be listed on certification database and used for preparation of spacing tables, and also listed on the certification database.

Suitable evidence for the purpose of a successful Principle 1 application will be reports or certificates from 3rd party accredited laboratories or equivalent approved laboratory. The 3rd party laboratories shall have the test standard listed within their accredited scope.

Applicants under Principle 1 shall comply with the LIAQA ICEL audit requirements.

2.2 Principle 2

This is a “fast-track” route through the submission of documentary evidence to the LIA Laboratory certification body. Applicants whose product have an accredited third-party certification such as BSI Kitemark, ENEC, UL, etc. can submit the product certificates as evidence.

When ICEL Product Certification of emergency luminaire is requested, photometric data (files) of all family variants (as per scope of certification) for which certification is requested (agreed with certification body during application process) shall be provided. The photometric data provided will be listed on certification database and used for preparation of spacing tables, and also listed on the certification database.
Applicants under Principle 2 shall comply with the LIAQA ICEL (LIAQA EL Module 6) audit requirements.

2.3 Principle 3

Existing ICEL Product(s) Certification holder(s) may sublicense their certified products to a third party. For the certification process, the third party shall submit an application form, there shall be an agreement in writing between the original ICEL product certificate holder(s) and the third party. The agreement shall outline any changes in the certified product (e.g. marking, construction, etc.) and evidence of conformity (equivalent to that required under Principle 1 or Principle 2) shall be provided to demonstrate conformity of the changes.

Certification fees are applicable for sublicensing (refer to section 7, Principle 2).

Sublicensing shall only remain valid as long as the original ICEL product certificate is valid.

3. Evaluation

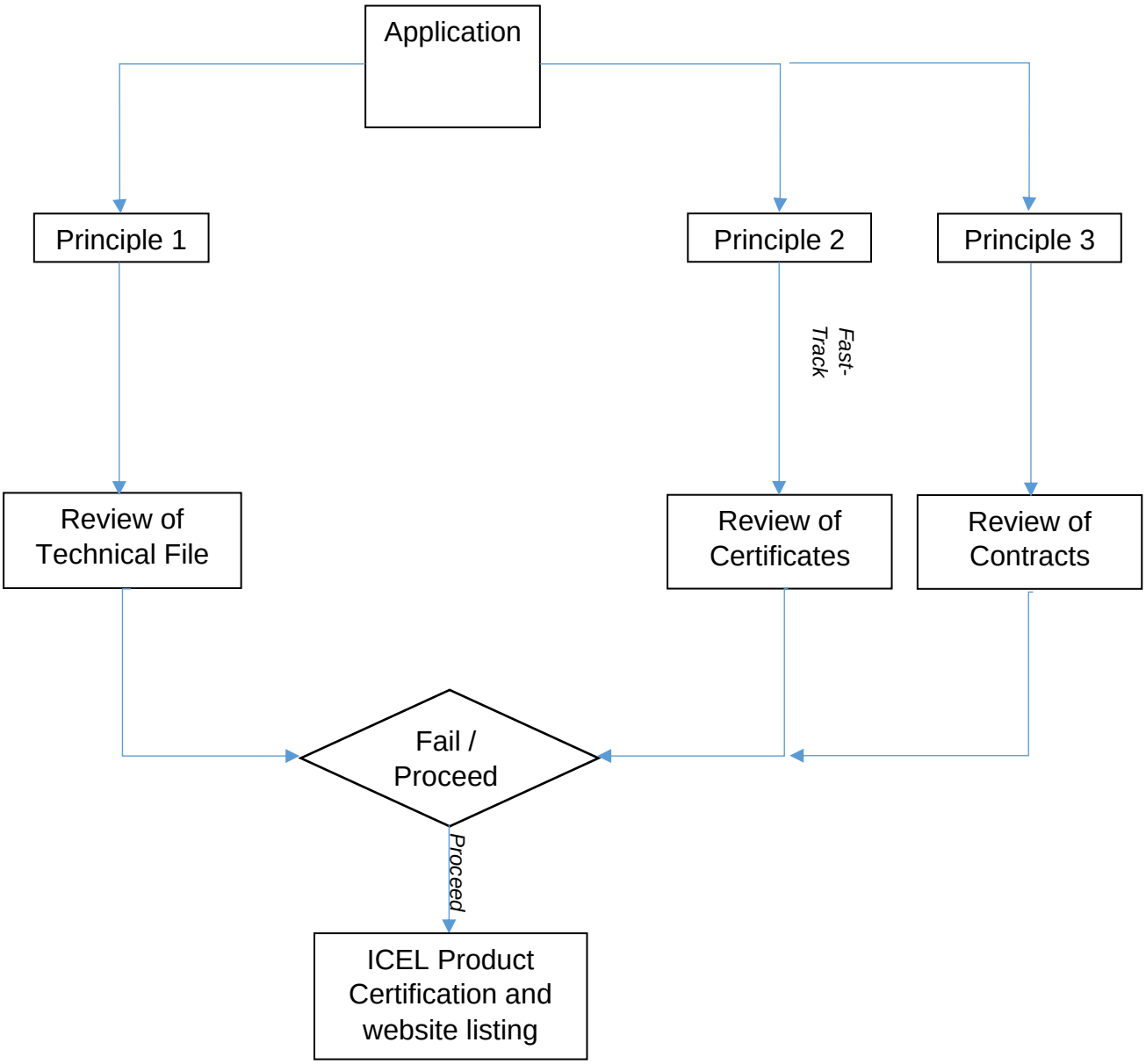
The LIA Laboratory certification body will be responsible for the evaluation of the application form and documentary evidence under Principle 1, Principle 2 & Principle 3. The evaluators may request additional information or a sample to assist with the document review.

At Principle 1, submissions will either ‘fail’ or ‘proceed’, with possible ‘minor conditions’ accompanying ‘proceed’. These minor conditions will allow the ICEL member the opportunity to make document amendments where necessary and will be subject to verification at subsequent site/factory audits conducted by The LIA.

Once verified, the product(s) will be listed on the LIA Lab certification website with relevant product data, manufacturer/supplier details, etc. The ICEL members will be provided with a product registration number and Scheme logo as per Section 12 which shall be applied to certified products and may be used in datasheets or on the website of the company holding certification.

Once successfully listed, subsequent annual audits will be undertaken. If there are any modifications made to the product during the certification period, the certification body shall be notified. At the point of certification renewal the client shall provide declaration that there haven’t been any changes to the product. Where a product has been modified, additional assessment to confirm compliance to the relevant standards may be required at the cost of the certification holder. For Principle 1 continued compliance the LIAQA ICEL audit (LIAQA EL Module 6) is required.

There are no initial submission deadlines, submissions can be received by the LIA laboratory certification body on an annual rolling basis.


Application
Principle 1
Principle 2
Principle 3
Fast-Track
Review of Technical File
Review of Certificates
Review of Contracts
Fail / Proceed
Proceed
ICEL Product Certification and website listing

4. Certification Period

4.1 Certification duration and reassessment intervals

Following a successful conformity assessment, a certificate will be issued. The certification period will run for one (1) year from the date of issue. Prior to the end of the certification period, a review shall be undertaken to determine whether it is appropriate to reissue the certificate and commence a new certification period. The purpose of the review is to assess whether:

- Any of the conformity standards, supporting standards or scheme requirements have been updated since the initial assessment.
- Regulatory requirements, appropriate to the product and/or systems have changed.
- The product range falling under the scope of certification needs to be increased / decreased.
- The products themselves have undergone any significant changes in design, or composition.
- There have been any significant changes to control methods or processes.
- The applicant has successfully completed the LIAQA EL audit (LIAQA EL Module 6).
- The documentary evidence required in section 2 is within 5 years of the certification period.

The impact of any such changes on the QMS, validity of the initial assessment and certification decision shall be assessed.

Where no significant changes are identified, and on-going conformity is assured, then the certificate will be reissued for a further one year, subject to the ongoing scheme requirements.

Where significant changes which affect the validity and scope of the certification are identified, actions necessary to address these changes will be communicated to the client. The certificate may be suspended or withdrawn until the issues have been addressed satisfactorily. When actions have been completed satisfactorily to bring the certification up to date, then the certification period will recommence for a further one year.

4.2 Changes during Certification

In addition to the certification review, it is the responsibility of the client to inform ICEL of any changes that occur affecting certification as identified in 4.1 within the certification period. The impact of any such changes on the QMS, validity of the initial assessment and hence certification decision shall be assessed.

Where no significant changes are identified, and on-going conformity is assured, then the certificate will remain valid, subject to the on-going scheme requirements.

Where significant changes are identified, which affect the validity and scope of the certification, and then actions necessary to address these changes will be communicated to the client. The certificate may be suspended or withdrawn until the issues have been addressed satisfactorily.

Continued certification takes into account any revisions made to standards. Where a standard has been updated, and certification is based on a previous edition of the standard, that standard shall be valid for the whole duration of the certification period. Certification validation will take into account any date of withdrawal (DoW), as specified in relevant testing standard.

5. Periodic Assessment

All products covered by this certification scheme are subject to periodic assessment every one year. The assessment shall show that the product has not been modified or altered since the certification was issued. Where modifications or changes are made to the certified product they shall be noted and LIA Laboratory made aware then a new certification decision shall be made on the basis of the alterations applied to the certified product.

5.1 Periodic Assessment – Principle 1

Under Principle 1 products covered by the ICEL Product Certification Scheme are subjected to a physical assessment by LIA Laboratory.

A sample of the certified product shall be submitted to the LIA Laboratory at the LIA Laboratories request or a sample may be selected from the certificate holder's site by representatives selected by LIA Laboratory.

Continued compliance of the LIAQA ICEL audit (LIAQA EL Module 6) shall be reviewed during the assessment period.

5.2 Periodic Assessment – Principle 2

Under Principle 2 products covered by the ICEL Product Certification Scheme shall be subjected to a physical assessment by the initial certification provider used to make the ICEL Product Certification application. (BSI, UL etc).

These assessment results shall be submitted to LIA Laboratory on an annual basis to renew the ICEL Product Certification period.

Continued compliance of the LIAQA ICEL audit (LIAQA EL Module 6) shall be reviewed during the assessment period

5.3 Periodic Assessment – Principle 3

Under Principle 3 the contract between the certification holder and the manufacturer shall be reviewed. Declaration of any product changes for products covered under the certification shall be submitted as evidence and reviewed.

6. Factory Audits

6.1 Factory Assessment – Principle 1

All companies who list products on the ICEL Product Certification Scheme through Principle 1 shall have passed the ICEL audit (LIAQA EL Module 6) within the last 12 months. The audit report shall be submitted to the LIA Laboratory for review of the the ICEL Product Certification period.

6.2 Factory Assessment – Principle 2

Under Principle 2 factories covered by the ICEL Product Certification Scheme shall be subjected to annual audit by the initial certification provider used to make the ICEL Product

Certification application. (BSI, UL etc). And/or the LIAQA ICEL audit (LIAQA EL Module 6) compliance evidence shall be submitted.

These audit results shall be submitted to LIA Laboratory on an annual basis to renew the ICEL Product Certification period.

7. Costs

The submission fee to take part in the Certification scheme is based on the number of products submitted for review. Under Principle 1, the submission fee starts from £500 per product family as defined in the relevant standards and covered under one test report. At Principle 2 & Principle 3, the submission fee starts from £250 per product family.

There may be a fee to review further evidence which may take place during the length of the certification period. Testing may be required if evidence cannot be provided.

There may be additional fee for review photometric files for large family groups.

There may be additional fees to provide audits for companies submitting under Principle 1 who have not passed the ICEL audit in the last 12 months.

There may be additional fees for periodic assessment of products for companies submitting under Principle 1 as part of the periodic assessment.

There may be additional fees for technical amendments to existing certificates.

The certification remains valid for 12 months after which a renewal fee of £250 per product family will apply (Note: in case there has not been any changes to certified product(s)). The maximum of £2500 per annum per company will be charged, after which additional product certification to the ICEL Product Certification Scheme will be renewed at no extra cost subject to verification process. This does not include costs incurred by LIA Laboratory as part of the periodic assessment or factory audit.

8. Types of Emergency Lighting Products

The following are emergency lighting products currently covered by this scheme:

- Emergency Luminaires (including re-engineered luminaires).
- Controlgear for emergency lighting use.
- Monitoring and control equipment for emergency lighting use.
- Batteries for self-contained emergency luminaires. (Additionally, performance will be assessed).
- Battery systems for centrally supplied emergency luminaires.

See Annex A for a list of product standards which is covered by this scheme.7

9. Confidentiality

All information provided by applicants will be treated in strictest confidence in accordance with LIA Laboratory confidentiality policies.

10. Certified Products Published Information

All certified products will be made publicly available on the LIA Laboratory certification database and will detail the product designation(s), the member company / contact details, the standard to which the product is certified (including issue date / version) and the certification number.

Additionally, the ICEL Certificate and product datasheet shall be listed on the database. Where applicable, the photometric data and spacing tables shall also be made available on the certification database.

11. Application Form

Link to application form on the website – *ICEL PRODUCT CERTIFICATION SCHEME*

12. Certification Logo

Certification Labelling

The products certified in accordance with this Scheme shall bear the label below (available in colour or inverted black and white).

Logo usage shall be in accordance with document LUG004, delivered with the ICEL Product Certificate and available on request.

The label shall be placed on the product and may be placed in/on installation leaflet, packaging or literature or all combinations.

Label to be affixed:

ICEL XXX - XXX

ICEL XXX-XXX

13. Complaints procedure

It is the policy of the LIA Laboratory to implement prompt and effective action in response to any form of complaint which may be made in respect to any services provided.
In the event of a complaint, the complainant shall put their complaint in writing through post or email to;

LIA Laboratory
Stafford Park 7
Telford
Shropshire
TF3 3BQ
Email: lab@thelia.org.uk

Upon receipt of a complaint, the complainant will be informed of receipt of the complaint and timescales for investigation and response.

The process for appeals operates in the same way as complaints where any appeals shall be put in writing to LIA Laboratory. In order to ensure impartiality, the appeal investigation will be conducted by personnel who were not involved in the original complaint process.

Any other product complaints shall be forwarded to certification body.

Further details of the complaints and appeals process is available upon request.

14. Annex A

Product standards covered by this scheme to which ICEL Certification can be applied.

Emergency lighting luminaires (including re-engineered emergency lighting luminaires)

BS EN/IEC 60598-2-22	Luminaires for emergency lighting
BS EN/IEC 60598-2-1	Fixed general-purpose luminaires
BS EN/IEC 60598-2-2	Recessed luminaires

Controlgear for emergency lighting luminaires

BS EN/IEC 61347-2-7	DC supplied electronic ballasts for tubular fluorescent lamps for emergency lighting
BS EN/IEC 61347-2-2	DC or AC supplied electronic step-down convertors for filament lamps
BS EN/IEC 61347-2-11	Miscellaneous electronic circuits used with luminaires
BS EN/IEC 61347-2-12	DC or AC supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)
BS EN/IEC 61347-2-13	DC or AC supplied electronic controlgear for LED modules

Emergency lighting monitoring and control equipment

BS EN/IEC 61347-2-11	Miscellaneous electronic circuits used with luminaires
BS EN/IEC 62034	Automatic test systems for battery powered emergency escape lighting

Lead-acid batteries

BS EN/IEC 60896-21	Stationary lead-acid batteries. Valve regulated types.
BS EN/IEC 61056-1	General purpose lead-acid batteries. Valve-regulated types.

Central power supply systems

BS EN 50171	Central power supply systems

Nickel batteries

BS EN/IEC 62133-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes. Safety requirements for Nickel cells and for batteries made from them.
BS EN/IEC 61951-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes. Nickel-Cadmium
BS EN/IEC 61951-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes. Nickel-metal hydride

Lithium batteries

BS EN/IEC 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes. Safety requirements for lithium cells and for batteries made from them.
BS EN/IEC 62620	Secondary cells and batteries containing alkaline or other non-acid electrolytes. Secondary lithium cells and batteries for use in industrial applications

15. Bibliography

Relevant Regulations and Directives

Electrical Equipment (Safety) Regulations 2016 (GB)
Electromagnetic Compatibility Regulations 2016 (GB)
Radio Equipment Regulations 2017 (GB)
Waste Batteries and Accumulators Regulations 2009

Low Voltage Directive (2014/35/EU)
Electro Magnetic Compatibility Directive (2014/30/EU)
Radio Equipment Directive (RED) (2014/53/EU)
Batteries and Accumulators Directive (2013/15/EU)

LIA IS 01 EU Directives and Regulations for lighting products.

List of ICEL Certified Products

A list of ICEL Products currently certified according to this scheme is available **here**.