

	PERMANENT DOCUMENT	ENEC 303
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**Requirements for manufacturers
(as per Article 9 of the Agreement)**

List of the Annexes to PD ENEC 303

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REQUIREMENTS FOR MANUFACTURERS (as per article 9 of the Agreement)

1 The manufacturer shall possess the test equipment and shall carry out the routine tests and the periodic tests on the electrical equipment for which he has obtained the licence for using the ENEC Mark and / or the ENEC+ mark, as specified in the following annex. The test and measuring equipment shall be correctly maintained and periodically calibrated and verified.

2 Routine tests

These tests are carried out by the manufacturer on **100% of** all manufactured products that bear the ENEC Mark and / or the ENEC+ mark. The tests indicated in the following annex are considered as a minimum; the manufacturer ~~shall~~**may** add other checks or tests, if considered necessary for this particular product.

If a standard defines routine tests mandatorily, these requirements must be followed prior to the PD ENEC 303 Annexes.

Note: if the standard describes the routine test requirements as “informative”, the ENEC Certification Scheme may decide to make it mandatory in the scheme or define other options.

~~If the factory has a Quality System in compliance with EN ISO 9001, different tests may be carried out with agreement of the Certification Body(ies).~~

Test results shall be kept at disposal of the inspectors of the Certification Body(ies).

3 Product Verification Tests (PVT) (in some Annexes referred as Periodic tests)

The tests are carried out by the manufacturer or on its behalf with at least the frequency indicated and the test results shall be kept at disposal of the inspectors of the Certification Body(ies).

In selecting samples for periodic tests preference should be given to products whose characteristics are close to the limiting values. ~~and to tests relevant for safety considerations according to the relevant standard.~~

General sampling criteria for PVT testing:

At least one sample per year selected from the annual production.

and

one sample per applicable standard (including each part 2 if applicable)

and

one sample per IP rating

and

one sample per classification (class I, II, III)

Specific sampling criteria, if any - are described in the given PD ENEC 303 Annex

4 Particular cases

~~With the agreement of the Certification Body(ies) the tests and their frequency may be changed with respect to those indicated, if this is justified by the particular design of the product or by the manufacturing process.~~

Note: In case a product bears the ENEC+ mark, both the tests described in the ENEC+ annex and in the ENEC applicable annex must be performed.

Attachment

For the preparation of the Annexes to PD ENEC 303, the template PD ENEC 303 Attachment has to be used.

List of the Annexes to PD ENEC 303

The Annexes are placed on the Document Server in the dedicated folder:
"ENEC PD 303 Annexes - Public Documents" group

Annex applicable to ENEC

- Annex A:** Luminaires covered by the EN 60598 series
- Annex B:** Lighting chains covered by EN 60698-2-20.
Rope lights covered by EN 60598-2-21.
- Annex C:** ~~Luminaires to be tested in a range of Luminaires (general)~~-void
- Annex D:** Ballast for tubular fluorescent lamps covered by EN 61347-2-8 (safety) – EN 60921 (performance).
- Annex E:** DC supplied electronic ballasts for tubular fluorescent lamps covered by EN 61347-2-4, -5, -6, -7(safety) – EN 60925 (performance).
- Annex F:** AC Supplied electronic ballasts for tubular fluorescent lamps covered by EN 61347-2-3 (safety) – EN 60929 (performance).
- Annex G:** Ballasts for discharge lamps covered by EN 61347-2-9 (safety) – EN 60923 (performance).
- Annex H:** Step-down convertors for incandescent lamps covered by EN 61347-2-2 (safety) – EN 61047 (performance).
- Annex I:** Starting devices (other than glow starters) covered by EN 61347-2-1 (safety) – EN 60927 (performance).
- Annex J:** Starters for tubular fluorescent lamps covered by EN 60155.
- Annex L:** Edison, fluorescent, bayonet and miscellaneous lamp holders covered by EN 60238, EN 60400, EN 61184 and 60838-1.
- Annex N:** Capacitors for use in tubular fluorescent and other discharge lamp circuits covered by EN 61048 (safety) – EN 61049 (performance).
- Annex O:** Safety of information technology equipment including electrical business equipment covered by EN 60950-1.
- Annex P:** Safety of power transformers, power supplies, reactors and similar products covered by the EN 61558 series.
- Annex Q:** Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 kV covered by EN 61050.

- Annex R:** Self-ballasted lamps for general lighting services covered by EN 60968 (safety) – EN 60969 (performance).
- Annex S:** Electrical supply track systems for luminaires covered by EN 60570.
- Annex T:** Cord switches and switches for appliances covered by EN 61058-1 and parts 2 (EN 61058-2-1 and 2-5).
- Annex U:** For suppression capacitors and filters covered by EN 60384-14 and EN 60939-2 and for suppression inductors covered by EN 60938-2.
- Annex V:** Connecting devices for household and similar purposes covered by the EN 60998 series, EN 60999-1.
- Annex W:** Appliance couplers covered by the EN 60320 series.
- Annex X:** Flat non-rewirable two-pole plugs, 2,5 A 250 V, with cord, for the connection of class II-equipment for household and similar purposes, covered by EN 50075.
- Annex Y:** Plugs, socket-outlets and couplers for industrial purposes covered by EN 60309-1 and EN 60309-2.
- Annex Z:** Audio, video and similar electronic apparatus covered by EN 60065.
- Annex AA:** Safety of laser products – equipment classification and requirements covered by EN 60825-1.
- Annex AB:** Automatic electric controls for electrical household appliances covered by the EN 60730 series.
- Annex AC:** Lamp control gear covered by EN 61347-2-10, -2-11, -2-12, -2-13, EN 62031 (safety) – EN 62384 to be used with part 2-13 (performance).
- Annex AD:** Household and similar electrical appliances covered by the EN 60335 series.
- Annex AE:** Flat quick connect terminations for electrical copper conductors covered by EN 61210.
- Annex AF:** Hand-held motor-operated electrical tools covered by the EN 60745 series.
- Annex AG:** Transportable motor-operated electrical tools covered by the EN 61029 series.
- Annex AH:** Secondary cells and batteries containing alkaline or other non-acid electrolytes, for use in portable applications, covered by EN 62133.
- Annex AI:** Cord sets and interconnection cord sets covered by EN 60799.
- Annex AJ:** LED modules for general lighting, Safety specifications covered by EN 62031.
- Annex AK:** Installation couplers intended for permanent connection in fixed installations covered by EN 61535.

- Annex AL:** Self-ballasted LED Lamps > 50V covered by EN 62560.
- Annex AM:** AC motor capacitors covered by EN 60252-1 and -2.
- Annex AN:** miniature fuses covered by EN 60127-1, -2, -3, -4 -6 and -7.
- Annex AO:** electromechanical elementary relays covered by EN 61810-1.
- Annex AP:** Intrusion and Hold-up Alarm Systems Detectors covered by EN 50131 series and EN 50134-2.
- Annex AQ:** Intrusion and Hold-up Alarm Systems Communicators covered by EN 50131-4, EN 50131-5-3, EN 50134-5 and EN 50136 series.
- Annex AR:** Intrusion and Hold-up Alarm Systems Control and Indicating equipment and power supplies covered by EN 50131-3, EN 50131-6 and EN 50134-3.
- Annex AS:** Access control systems for use in security applications covered by EN 50133 series.
- Annex AT:** Double-capped LED lamps designed to retrofit linear fluorescent lamps covered by EN 62776.
- Annex AU:** Safety requirements of Audio/video, information and communication technology equipment covered by EN 62368-1.
- Annex AV:** PCB terminal blocks for copper conductors covered by covered by EN 60947-1 and EN 60947-7-4.
- Annex AW:** Connectors - Safety requirements and tests covered by EN 61984.
- Annex AX:** Low-voltage surge protective devices – Part 11: Surge protective devices connected to low-voltage power systems – Requirements and test methods covered by EN 61643-11.
- Annex AY:** Low-voltage switchgear and controlgear. Terminal blocks covered by EN 60947 Series.
- Annex BA:** Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements covered by EN 61010-1.
- Annex BB:** Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-201: Particular requirements for control equipment EN 61010-2-201
- Annex BC:** Low-voltage fuses – Part 1: General requirements EN 60269-1 – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor device EN 60269-4 – Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems EN 60269-6.
- Annex BD:** Thermal-links – Requirements and application guide EN 60691.

- Annex BE:** Safety requirements for electrical equipment for measurement, control, and laboratory use EN 61010-2-
- Part 2-010: Particular requirements for laboratory equipment for the heating of Materials
 - Part 2-020: Particular requirements for laboratory centrifuges
 - Part 2-030: Particular requirements for equipment having testing or measuring circuits
 - Part 2-033: Particular requirements for hand-held multimeters and other meters, for domestic and professional use, capable of measuring mains voltage
 - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes
 - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment.
- Annex BF:** Safety requirements for electrical equipment for measurement, control, and laboratory use
- Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement.
- Annex BG:** Central power supply systems for emergency lighting covered by EN 60950, EN 50171-1 and EN 50272-2 (EN 62485-2) or EN 62368-1, EN 50171-1 and EN 50272-2 (EN 62485-2)
- Annex BH:** Component for Low-voltage surge protective devices Performance requirements and test methods for metal oxide varistors (MOV) EN IEC 61643-331
- Annex BI:** Varistors for use in electronic equipment

Annexes applicable to ENEC-Plus

- Annex PA:** LED modules for general lighting covered by EPRS 001.
- Annex PB:** Luminaires - General covered by EPRS 002.
- Annex PC:** LED Luminaires covered by EPRS 003.
- Annex PD:** Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements covered by EPRS 004.
- Annex R:** Self-ballasted lamps for general lighting services covered by EN 60968 (safety) – EN 60969 (performance).
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