

CERTIFICATE

Issued to:
Applicant:
VEKO Lightsystems International BV
Witte Paal 38
1742 NL Schagen, The Netherlands

Manufacturer/Licensee:
VEKO Lightsystems International BV
Witte Paal 38
1742 NL Schagen, The Netherlands

Products : Fixed luminaire with LED light source
Trade name : VEKO
Types : UNN xxx xx xxx xxx xx x, UNH xxx xx xxx xxx xx x

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standards EN 60598-1:2008, EN 60598-2-1:1989
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 961855

DEKRA hereby grants the right to use the ENEC KEMA-KEUR certification mark.

The ENEC KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the ENEC KEMA-KEUR certification agreement and under the conditions of the ENEC KEMA-KEUR certification agreement.

This certificate is issued on: 27 May 2014 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2167495.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



A.P. van der Veen
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

product	:	Fixed luminaire with LED light source
trade name	:	VEKO
types	:	UNN xxx xx xxx xxx xx x UNH xxx xx xxx xxx xx x
rated voltage	:	230 V
nature of supply	:	ac
rated frequency	:	50/60 Hz
class	:	I
degree of protection	:	IP20 for UNN types IP54 for UNH types
description	:	fixed luminaire with LED light source for use in VEKO P-profile, with additional degree of protection against external mechanical impacts (see "Remarks" below)

Additional information

- Lighting units only for use with carrying tracks, type P..., manufactured by VEKO.
- LED module complies with EN 62471 with regard to photobiological safety.

D-marking:

An additional temperature rise test was carried out in accordance with EN 60598-2-24:2013. This test proved that the luminaire can be provided with the D-marking symbol

Protection against external mechanical impact:

With regard to the additional testing concerning "protection against external mechanical impacts", the following applies:

This impact has been tested in accordance with EN 50102:1995+A1:1998 and VDE 0710 Teil 13/5.81.

Verification 1:

EN 50102:1995+A1:1995 is for verification which degree of protection with regard to IK classification is applicable. Product was tested in accordance with IK10.

IK10

Verification 2:

VDE 0710 Teil 13/5.81 is for verification
If the luminaire is suitable for
"safety through ball throwing"



For the first verification the luminaire is tested in horizontal position directly on the cover.
For the second verification the luminaire is tested in vertical position mounted on the wall with additional protection rack for protection against external impact of a ball.

Type reference key

UNx xxx xx xxx xxx xx
 1 2 3 4 5 6

1	general luminaire identification	UNN IP20 UNH IP54
2	number of LEDs	140 240
3	color	NW 4000K
4	optics	BH wide distribution, clear cover BD wide diffuus SBH semi-wide clear DH deep distribution, clear cover DD deep diffuus
5	driver	T (Tridonic) TDd (Tridonic+Dali) O (Osram) ODd (Osram Dali) ODd-C (Osram Dali + CLO) ODd/10-100 (Osram Corridor) ODd-C/10-100 (Osram Corridor +CLO) P (Philips) PD (Philips dim 1-10V) PDd (Philips Dali)
6	emergency lighting	NP (Philips Nood) NV (Veko Nood)

TESTS

Test requirements

Main test requirements:
 EN 60598-1:2008 +A11:2009
 EN 60598-2-1:1989

Additional test requirements:

EN 62031:2008	LED module
EN 62471:2008	Photobiological safety
EN 50102:1995 + A1:1998	Protection against external mechanical impacts
VDE 0710 Teil 13/5.81	Ball Wurf Test

Test results

The test results are laid down in DEKRA test file 2167495.00.

Remarks

The test results with list of components are laid down in DEKRA test file 2156767.00.
This Certificate replaces the previous certificate 21566767.02, because of adding of type number.

Conclusion

The examination proved that all test requirements were met.

Tested by : J. Gelink

A blue ink signature of J. Gelink, written in a cursive style.

Checked by : H.J. Brouwer

A blue ink signature of H.J. Brouwer, written in a cursive style.**Factory location**

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Witte Paal 38, 1742 NL Schagen
The Netherlands