Certificates

Luz Negra's led profile "easy-ON" system has been certified by Applus for its jagged cover which guarantees water-tightness of IP65 thanks to its double-siphon shape once inserted into the aluminium profile.

This certification is extended to the 29 profiles within our "easy-ON" product group.

IP65

4 YEAR GUARANTEE
for "easy-ON" covers

10 YEAR GUARANTEE
for "easy-ON" profiles

Led profiles with "easy-ON" system:

Frankfurt	Paris
Berlín	Paris XL
Berlín XL	Moscú
Sophia	Moscú Mini
Sophia XL	Moscú Slim
Sophia Asymmetric	Moscú Magnum
Milano	Moscú Magnum Slim
Milano Slim	Madeira
Roma	Múnich
Roma XL	Múnich Mini
Versalles	Múnich Slim
Inferno	Múnich Magnum
Florencia	Múnich Magnum Slim
Dublín	Sicilia
Dublín XL	

LGAI

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Applus⊕

INFORME DE ENSAYOS

Expediente Nº: 14/31700424	Fecha	19/02/2014
	Página	1 de 6

Referencia del peticionario

LUZ NEGRA, S.L.
P.I. Can Castells, C/ Carles Buhigas, 13
08420 Canovelles (Barcelona)

El material recibido

Perfil de aluminio marca "Led Profile" de la firma Luz Negra con sistema de difusor patentado "EasyON",

Identificación interna 1799/1 (ver fotografías en el Anexo 1).

Ha sido ensayado y es conforme con el grado de protección (código IP):

IP 65

Siguiendo las especificaciones aplicadas de la/s norma/s

UNE-EN 60598-1:2009+A11:2009 (apartado 9.2, 1ª cifra grado IP)

Características nominales

Tensión de alimentación (V) ....:	100-240 V_{AC} (fuente) /24 V_{DC} (luminaria)
Potencia declarada (W) ....:	36
Frecuencia (Hz) ....:	50/60 (fuente) / DC (luminaria)
Lámpara ....:	Módulo LED
Grado de protección contra la humedad ..:	IP 65

Albert Marginet Morales
Responsable Técnico
Electrical & Electronics
LGAI Technological Center, S.A.

Los resultados que se indican se refieren, exclusivamente, a la muestra, producto o material entregado al Laboratorio, tal como se indica en el apartado de material recibido, y ensayada en las condiciones indicadas en la/s norma/s citadas en el presente documento.

LGAI Technological Center,S.A. Inscrita en el Registro Mercantil de Barcelona, Tomo 35.803, Folio 1, Hoja Nº B-266.627 Inscripción 1ª.C.I.F. A-63207492

European patent

Our profile system with "easy-ON" has been designed and manufactured by Luz Negra in Spain and is protected under patent, hence being granted via Europe an exclusive use.

Innovation
made in Spain
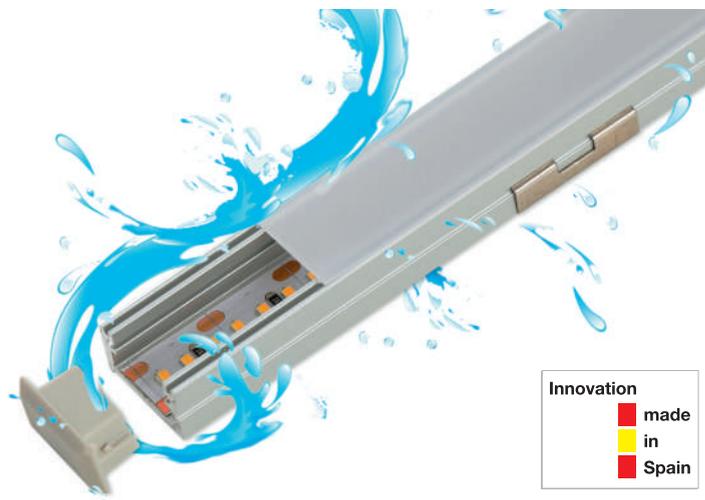
The "easy-ON" system is the result of continued research, development and innovation which we enforce at Luz Negra.

This system permits you to quickly click the cover on to the front of the profile in a fast and easy manner.

The two jagged edges allow the cover to snap on to the profile in a firm and safe way, achieving a water-tightness of IP65.
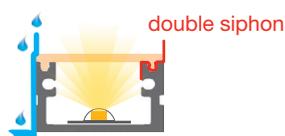
The "double siphon" prevents water and humidity from entering the profile and therefore protects the led from possible condensation and humidity deriving from bathrooms, kitchens, spas, gyms, etc and so extends the working lifespan of the product.

With other systems

As we don't have a double siphon, the water can easily filter inside.

With our "easy-ON" system

double siphon

The double siphon prevents humidity or water from filtering inside.

Led profiles covered within the IP65 certification and European patent 13156605.1

(19) Europäisches Patentamt / European Patent Office / Office européen des brevets

(11) **EP 2 620 700 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention of the grant of the patent:
22.04.2015 Bulletin 2015/17

(51) Int Cl.:
F21V 17/10 (2006.01)   F21V 31/00 (2006.01)
F21V 15/01 (2006.01)   F21S 8/00 (2006.01)
F21Y 103/00 (2006.01)

(21) Application number: 13156605.1

(22) Date of filing: 25.02.2013

(54) **Linear lighting device**
Lineare Beleuchtungsvorrichtung
Dispositif d'éclairage linéaire

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

(30) Priority: 26.01.2012 ES 201230089 U

(43) Date of publication of application:
31.07.2013 Bulletin 2013/31

(73) Proprietor: Tellez Lopez, Ricardo
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(56) References cited:
DE-U1-202011 104 303   US-A- 5 222 799
US-A1- 2009 219 713   US-B1- 7 490 955
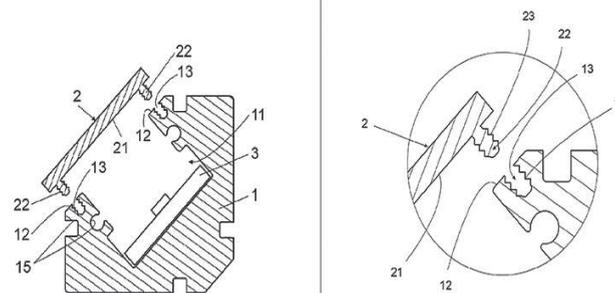
Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

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EP 2 620 700 B1

Certificates and patents

Flexible led strip: Infinity series 230V

Screw-on connectors

Ghost profile Sophia 230V

One of our most important new products which we have launched in this catalogue is a set of led strips (Infinity series and Ghost Profile) which work directly at 230V.They are supplied in rolls of 100m (which can be cut every 10cm). This is an extremely high quality product which can function 24 hours in continuous mode.With a very oversized led (it only uses 17% of its capacity) it doesn't get hot even when we use it without an aluminum profile. Its bridge rectifier in each section of 10cm, its IP67 waterproofing (silicone tube filled for greater safety), its large number of leds for better diffusion of the led point (140 leds per metre), its simple connection system (includes screw-on connectors without welding) and its excellent brightness (1500 lumens per metre) all make it the best 230V direct strip on the market. The latter is endorsed with certificates in accordance with the current regulations set forth below:

Certificate CE EMC

Certificate CE LVD

Certificate RoHS

Innovation
made
in
Spain

Waterproof DUO for our flexible led "PRO" series

Conventional water-tight systems are composed of one layer of protection and on many occasions humidity can penetrate via capillarisation between the IPC and the silicone layer, hence provoking a short circuit and disabling the led.

The double layer of the waterproof DUO system (designed by Luz Negra) guarantees an optimum water-tightness for all installations, both indoor and outdoor.

There are also other systems which involve completely covering the led strip with glue or silicone at 360°, but these systems increase the width of the IPC from 10 to 12mm (preventing you from inserting in standard led profiles), making them stiffer and decreasing their flexibility.
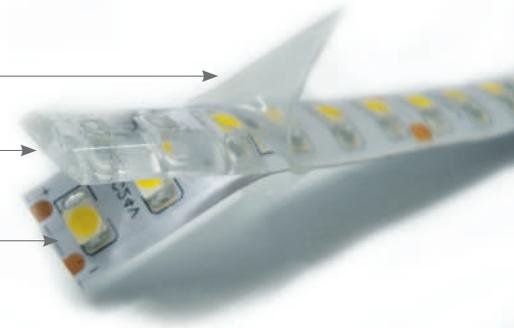

led strip without waterproof DUO.
The humidity enters between the IPC and the silicone.

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"DUO" System which surrounds the led strip 360°

Silicone 180°

PCB with assembled ledS

Our flexible led strips, Waterproof DUO system, designed by Luz Negra, offer a water-tightness of IP67 yet without having to increase the width of the flexible strip (which is what usually happens with other IP67 strips on the market).

Thanks to this, we can install them in most of the led profiles on the market, whereas the strips with conventional covers increase the width of the strip by 2mm therefore preventing its use in many models of led profiles.

Luz Negra's waterproof DUO is the only water-tight system with IP67 which maintains a width of 10mm and its original flexibility

12mm
other systems

10mm
waterproof DUO
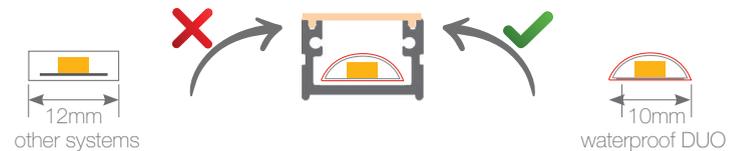
Flexible led strip with silicone base (without waterproof DUO) IP65

Flexible led strip with "waterproof DUO" IP67

DUO

Increased light reflection on strip surface giving out a more consistent light

The double cover offered in the Waterproof DUO system means that the light projected by the led collides with two layers (the first one, the silicone and the second, the plastic casing).

This way we achieve greater refraction meaning greater expansion of the light spot, therefore giving out a more homogeneous, diffused light.