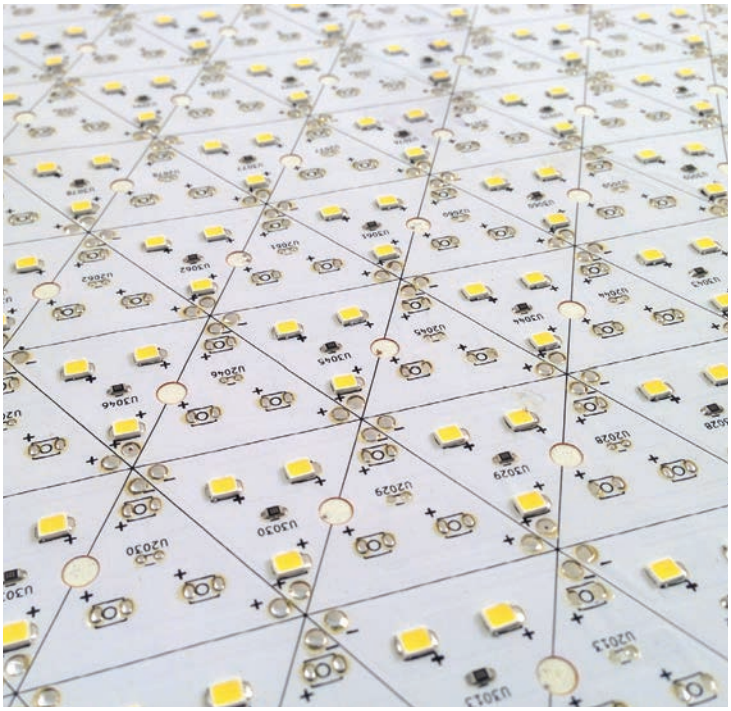
PAPER LED PPL 48



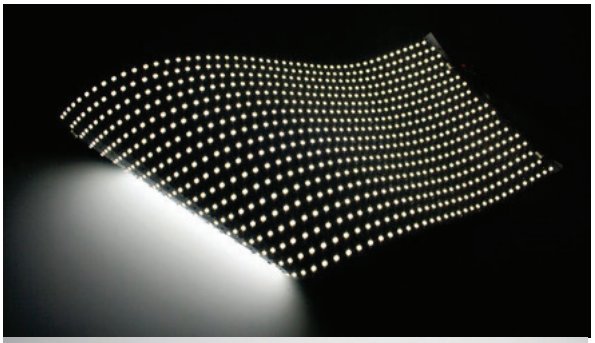
LED module to incorporate

30.000 h

IP 33

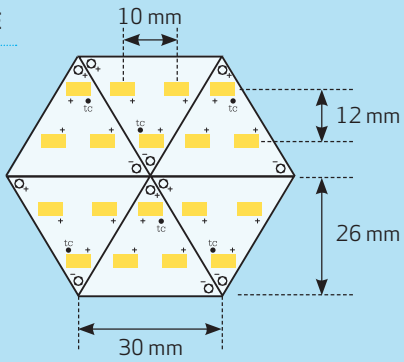
Ref. **546101000430**	3000ºK	3350 lm
Ref. **546101000431**	4000ºK	3500 lm

- 41W
- 48 PCB
- Input: 12 VDC. 4 located inputs.
- Voltage insulation: 500V
- Electrical class: class III
- Dimming: 0 - 10V, PUSH
- Colour: 3000ºK o 4000ºK
- Maximum ta value: ta 40ºC
- Maximum tc value: tc 85ºC
- CRI > 80
- LED aperture: 120º
- Temperature dissipation: Always install the Paper LED on a heat dissipating surface. Recommended on metal surfaces.
- Storage temperature: - 10ºC - 50ºC
- Risk group: IEC 62471 RG1
- Store in a dry, covered place.
- No mercury, UV or IR.
- Use power supply / driver by MBTS 12VDC output.
- Power supplies should be compliant with all applicable European directives
- Size: 234 mm x 495 mm



EACH TRIANGLE

0,30W



INSTRUCTIONS FOR USE

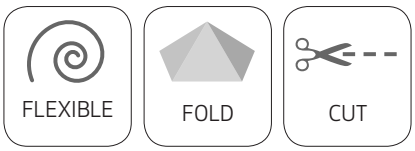
• *The Paper LED must be cut or fold always by the black line.* (Fig.1)

• *Avoid cutting, scraping, boring or bending out of the black line, as it can damage the circuit of both leds. Therefore they will lose their connections and will not work.* (Fig.2)

• *As with all electronics, the Paper Led sheet is susceptible to damage from shock.*

•*If possible, avoid situations that leads to the creation of static electricity.*

• *Do not apply Paper LED on a curved surface with a diameter less than 50 mm.*



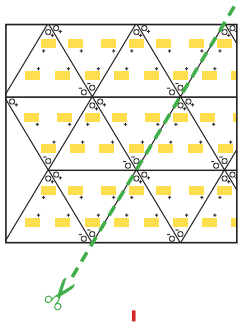
INSTALLATION INSTRUCTIONS

• *As mentioned before, the Paper LED has an adhesive backside for easy fixing. Therefore the surface has to be clean and smooth.*

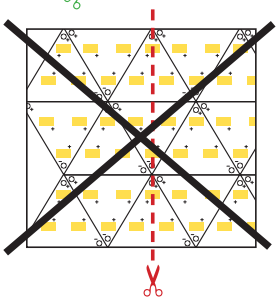
• *If the surface is irregular you can use mechanical fasteners and secure their fixation. You must use the punched holes.* (Fig 3) *(Already fitted on the Paper Led) . The Paper LED will be damaged If making the holes on a different location, then the connections will stop working.*

• *We recommend to apply nylon washers.*

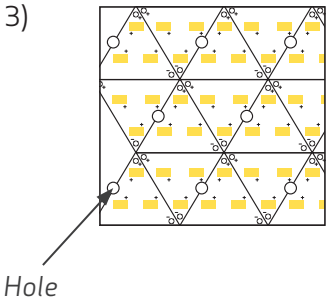
(Fig 1)

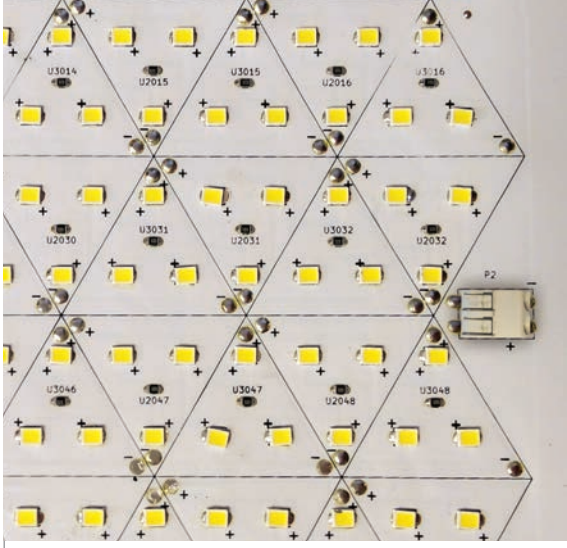


(Fig 2)



(Fig 3)





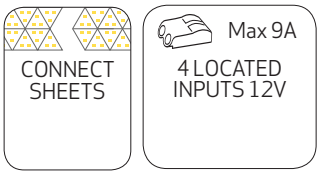
CONNECTION INSTRUCTIONS

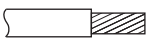
• *Connect the Paper LED by one of the four connectors 12VDC to a driver. The Driver must be disconnected from the network.*

• *If you cut the Paper Led and it has no connector, you must solder the power cord on the connection points. The positive wire must be soldered at the positive point, and the negative wire at the negative point.* (Fig 4)

• *The drivers must be approved and accepted by the EEC regulations for electrical voltage. If a driver has not these features, then the warranty is automatically voided.*

• *Before installing be sure that the electricity is switched off.*

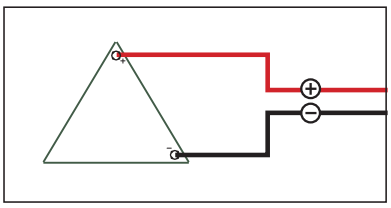




0.2 - 0.75 mm2
6 - 7 mm / 0.26 in

You must place the appropriate section according to consumption.

(Fig 4)



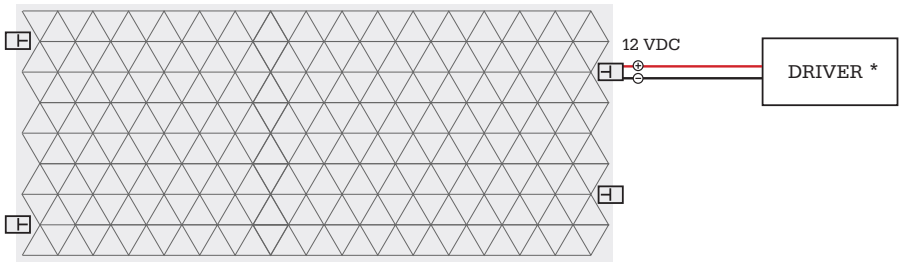
Weld in the point of connection

RECOMMENDED DRIVERS

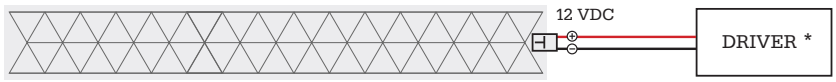
W	ELT	TCI	TRIDONIC
10			0010 K001 12 V
12	9907102 FAV 12/12-B		
15	9907103 FAV 15/12-B		
20	9907104 FAV 20/12-B		
25		EFV 12V20 122,320	
30	9907105 FAV 30/12-B		
36/35	9907106 FAV 36/12-B		LCU 035/12 E020
50	9907107 FAV 50/12-B	VST 12V50 122,756	
60			LCU 060/12 E020
70		VST 12V70 122,758	
75	9907108 FAV 75/12-B		
100	9907149 FAV 100/12-B		LCU 100/12 E020
150			LCU 150/12 E020
200	9907151 FAV 200/12-B		

¿HOW TO CONNECT THE PAPER LED?

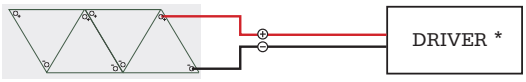
**SIZING THE DRIVER TO REAL CONSUMPTION OF CONNECTION TO PERFORM*



A piece of Paper LED with connector



A piece of Paper LED without connector

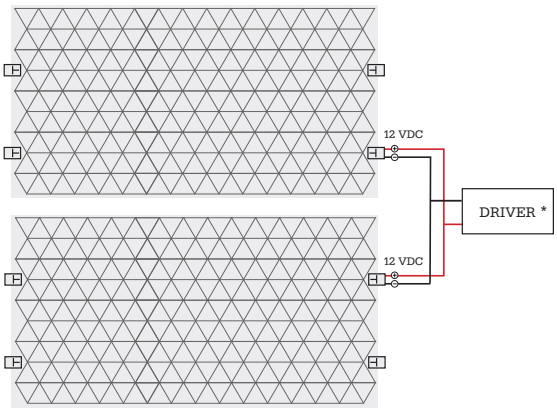


Weld in the point of connection

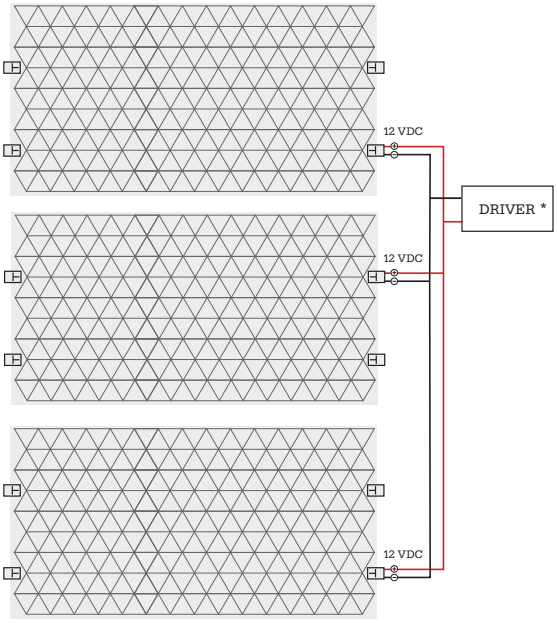
More than one Sheet of Paper LED with connector

• Connect more than one sheet of Paper LED through one of the four 12VDC connectors. Never use more than one connector per sheet. You can choose any of the connectors. Below You will find some examples of connection.

2 Paper LED



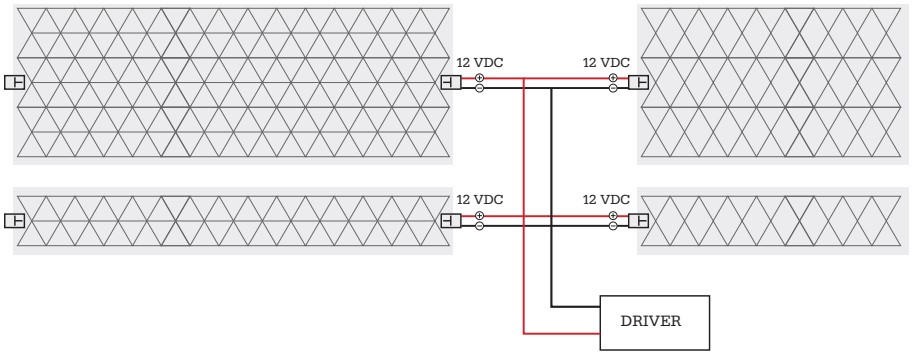
+ 2 Paper LED



Cuts of Paper LED with connector

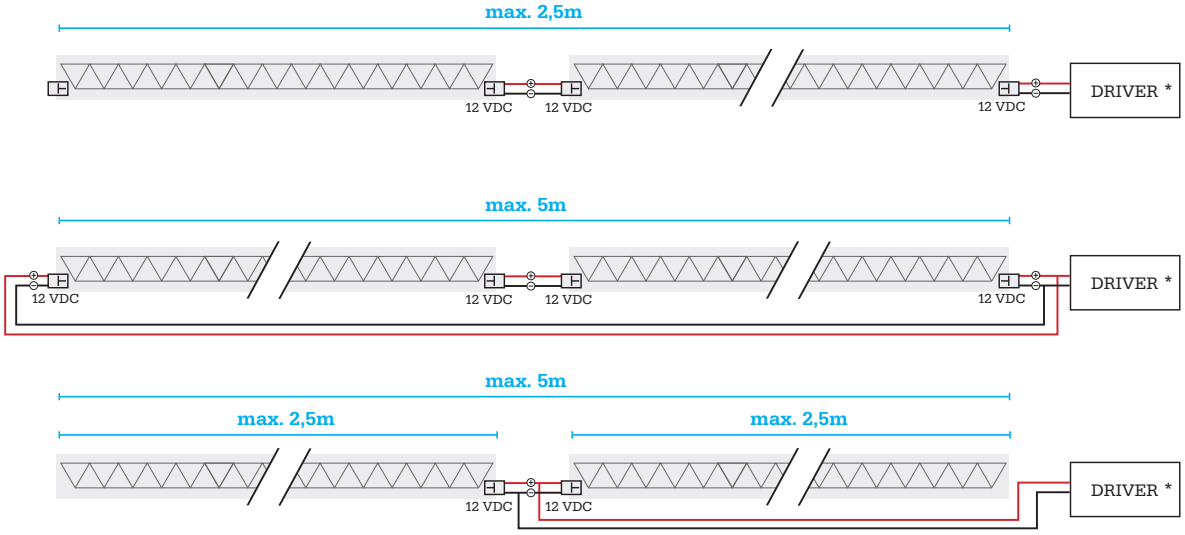
• Connect more than one cutted Paper LED by one of the four 12VDC connectors, never use more than one connector per cut. You can choose any of the connectors. Below you will find some examples of connection.

MEDIUM AND LARGE CUTS OF PAPER LED

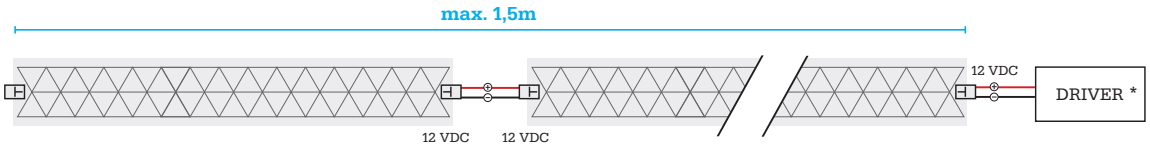


Paper LED longitudinal connections

• Connecting several Strips of Paper LED composed by 1 strip of triangles. You can connect one or more strips between each other until the length of 2,5 m. Over this length the intensity of light will decrease. For longer sizes You need an additional driver. (See the drawing of the two connection options).



• Connecting several strips of Paper LED composed by 2 strips of triangles. You can connect multiple strips each up to 1.5m. Longer than this measure the light will lose intensity.



COMPLIES WITH:

EN 62031:2008 + A1:2013
EN 62471:2008
DIRECTIVE (2006/95/EC)—LVD

TECNOCREA ADVANCED TESTS & INTERNATIONAL CERTIFICATION AGREEMENTS

Certif. Ref. No. INGLA140101.00

CERTIFICADO DE ENSAYO PARA EQUIPOS ELÉCTRICOS / TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT

CERTIFICADO DE ENSAYO / **TEST CERTIFICATE**

Producto / Product	Módulo LED para incorporar / Built-in LED module
Nombre y dirección del solicitante / Name and address of the applicant	RGP INGLASS TRADE, S.A. Pasaje Monturiol, 7 08210 Barbera del Vallés – Barcelona (España/Spain)
Nombre y dirección del fabricante / Name and address of the manufacturer	Igual que el solicitante / Same as applicant
Nombre y dirección de la fábrica / Name and address of the factory	Igual que el solicitante / Same as applicant
Valores y características principales / Ratings and principal characteristics	12Vcc. Clase III. 12Vdc. Class III. PPL 48 [41W] PPL 96 [83W]
Marca (si existe) / Trademark (if any)	INGLASS
Modelo / Ref. de fábr. / Model / Type Ref.	PPL 48; PPL 96.
Información adicional (si es necesaria puede ser indicada en la página 2) / Additional information (if necessary may also be reported on page 2)	
Una muestra del producto se ha ensayado y se considera conforme con / A sample of the product was tested and found to be in conformity with	EN 62031:2008 + A1:2013 EN 62471:2008 *Directive (2006/95/EC) – LVD*
Como se muestra en el informe de Ensayo No. el cual forma parte de este certificado / As shown in the Test Report Ref. no. which forms part of this Certificate	SAFEINGLA140101.00.

tecnocert

TECNOCREA ADVANCED TESTS & INTERNATIONAL CERTIFICATION AGREEMENTS
C/ Colón, 41. 46210 Picanya
Valencia – España (Spain)

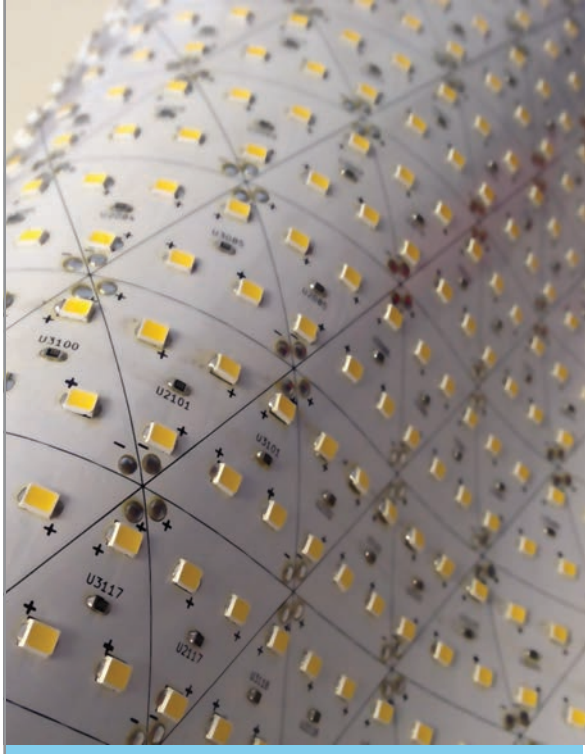
Firma/Signature: Jorge Hernández
(Documento firmado mediante firma electrónica) / (Document signed by means of electronic signature)

Fecha/Date: 03/03/2015

PAPER LED *Is part of the Material center Materfad and has been chosen in several exhibitions as innovative material.*

«What's next?»:
Material that will shape the future.

«Smart Flexibility»:
Melbourne. Advanced Materials and Technologies



SAFETY:

— The LED module should be installed on a clean, flat assembly surface to ensure that acceptable operating temperatures are not exceeded.

— Device sensitive to electrostatic discharges (ESD). Handle with care in order to avoid such discharges.

— The LED module should be installed by a qualified technician.

— This product should only be used for lighting purposes. Incorporate use model in lamps.

— Active parts should not be accessible to consumers.

— Store in a dry, covered place.

ESD

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