

manufacturing consist of?

SILICONE EXTRUSION

similar products, which favours the circulation of heat on the metal profile, increasing the

What does silicone extrusion

Features and advantages of manufacturing using this technology

CHEMICALS SUBMERSIBLE



What are the advantages of the Silicone extrusion is not subject to maximum length limits as it is a process carried out without liquid materials. This makes it possible to manufacture flexible LED strips with larger dimensions than traditional standards. In addition, it allows to reserve an empty space between the plastic manufacturing technology itself? $\hbox{material and the light source, which $\min $is $ s$ the $variations$ in $temperature and $tonality$ of the t and $tonal$

original colours and those obtained after the sealing process of the flexible strip. What are the main characteristics The flash point of the silicone used in these processes is very high and does not generate toxic gases by combustion. This fact greatly increases the safety of the installations where it is used. The thermal conductivity of silicone (0.27 w/MK) is higher than other so- lutions applied with of silicone?

longevity of the product.

The silicone can withstand aggressive conditions, such as saline environ- ments, acids and UV rays. It can be installed in special environments such as areas near the sea, laboratories, heavy industries and mines without yellowing or ageing.

What is the difference between The strips made especially for swimming pools are manufactured with a double extrusion, providing a **higher density** in the protection of the product. This reduces the porosity (already very low) and provides greater resistance to pressure, allowing it to meet the depth standards of the the silicone extrusion of the flex strips and the Strip Water Led? IP68 tests and increasing the physical resistance to a degree of IK08.

> CUSTOM-MADE MANUFACTURING Advantages, manufacturing times and product customisation

and temperature resulting in a final product immediate delivery. The customer can **choose the length of the strip**, up to 10m if feeding from one end, or up to 20m if there is feedback. The length of the cable can also be chosen in order to facilitate the installation and the safety of the connections.

We can also manufacture complex products, i.e., we have the ability to continuous strips can be manufactured with interleaved wiring to facilitate the turns or different types of installation.

Tecsoled's made-to-measure manufacturing process means that the final product is only conditioned by the minimum cut of the inner strip and $% \left(x\right) =\left(x\right) +\left(x\right)$ the size the size of the end sealing. In this way, the customer can adjust

The purchase of machinery for the final sealing of the product gives the customer the possibility of carrying out this customised work with immediate production. We are able to cut to the desired length, the type and length of cable chosen and finalise the sealing of the product thanks to the contribution, through moulds, of a combination of time, pressure

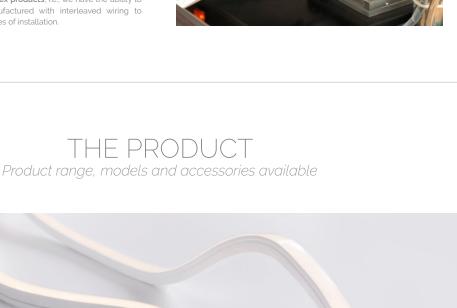
the length of the lighting in their pool.

Cable output variants

This is an all-rounder titan, whose only requirement is taking care during installation and ensuring that its is correctly bent, since forcing it while bending can damage the product.

Normally applied under the side overhang of the pool to facilitate corner turning.

Side bend



Profiles

Surface mounting

Surface high mounting

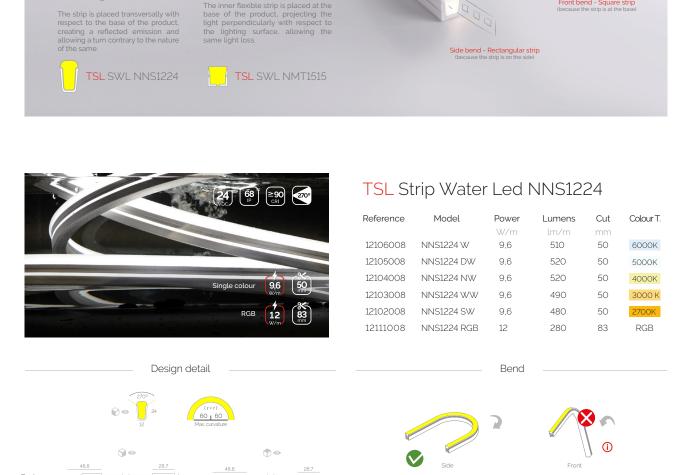
L = 1000 mm

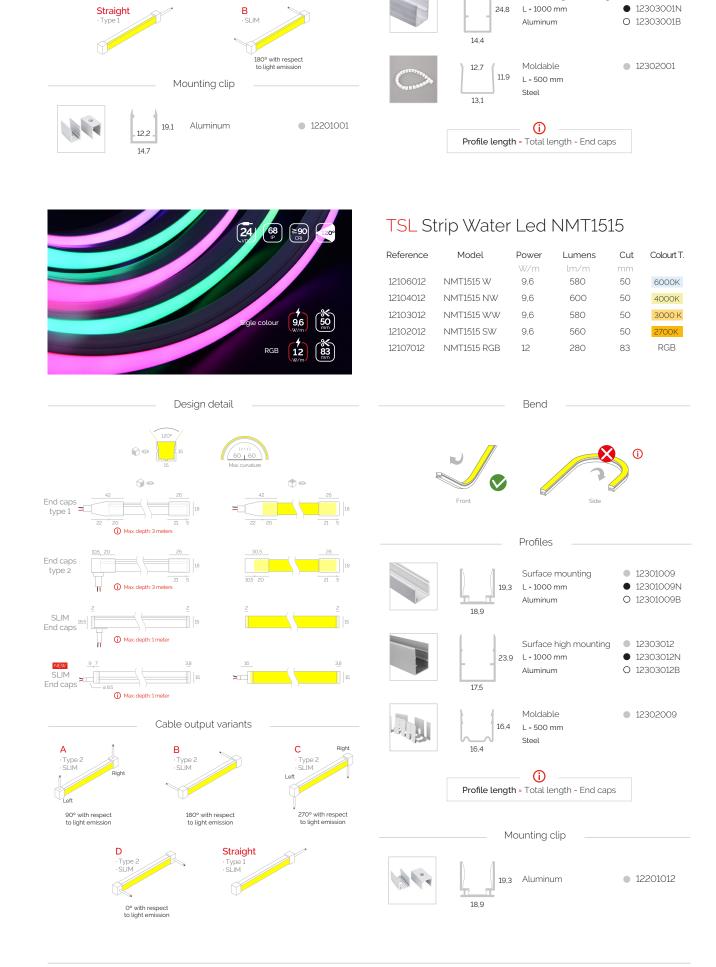
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Front bend t's generally used recessed in the pool wall. The inner flexible strip is placed at the base of the product, projecting the light perpendicularly with respect to the lighting surface, allowing the same light loss.





INSTALLATION

Precautions before installation

Do not rotate

Do not stretch

Strip placement

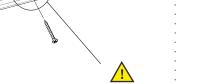
Installation of strips longer than 2m must be carried out by 2 people.

Do not press

TSL SWL NNS1224 Side bend

TSL SWL NMT1515 Front bend

Ø 1/4' (6mm)



Strip installation

 1° Install the strip starting at the ends and working towards the centre

High profile

repowered

powered

powered

Wall installation

integrity of the product.

Recessed

New pool

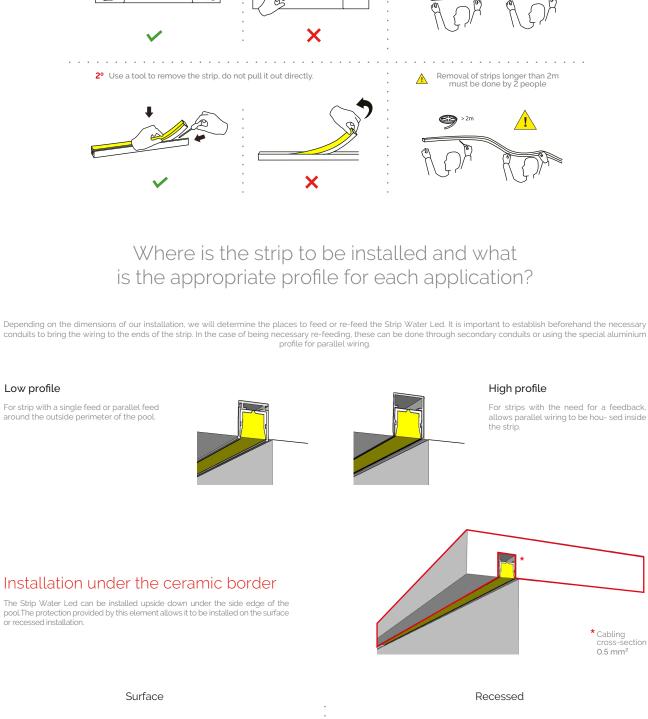
This application is submerged and recessed in the wall, as surface installation would compromise the

Power supply feeds

a strip on one side

(max. 10m)

Profile installation

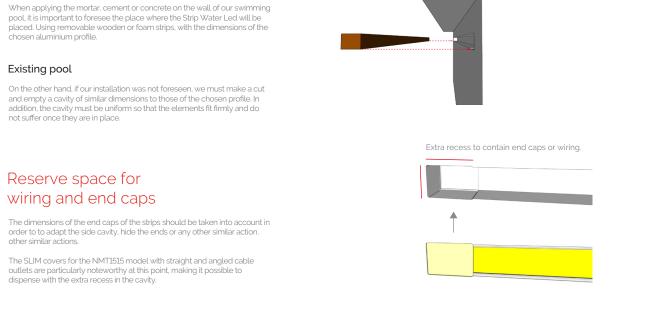


powered

Recessed

repowered

High profile



CONNECTION

Connections inside the pool tank (even if they are out of the water), made with heat-shrinkable sleeves or adhesive tapes or using connectors or boxes without adequate protection will result in the loss of the product's guarantee, as well as all those connected to the same power supply line. The connection of the cables must be carried out in a place away from the pool tank, using connectors or boxes with IP68 protection, ensuring that both the inner cables and the outer sheath are sealed watertight.

Power supply for two

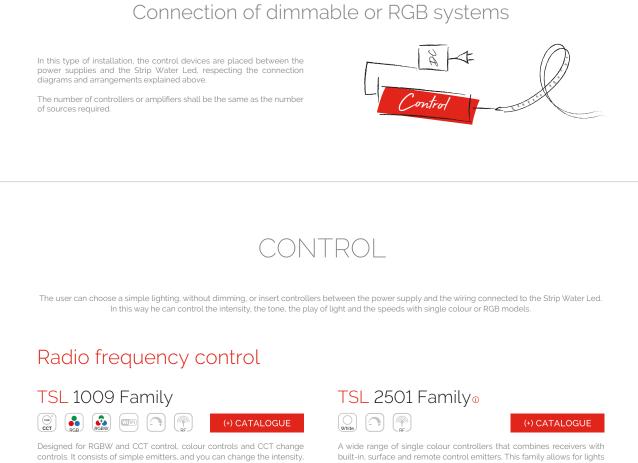
strips on opposite sides.

(max. 10m each strip)

What do I have to consider for recessed installation?



2 power supplies feed and feed back several strips (between 10 and 20m)



several lights

TSL KNX Family

white RGB RGBW Multi white RGB RGBW Multi DAL (+) CATALOGUE DALI is an interface for all types of professional lighting solutions. KNX is a protocol for communication between electronic devices that encompasses all possible areas, from safety, communication, and blind This is an open-protocol standard for adjustable electronic device with

controls. It consists of simple emitters, and you can change the intensity, colour and other more complex aspects with automatic changes and

scene memory. Mechanisms can use touch, a wheel or a remote, and the

TSL 1009FA(WP)

Ref. 09410097 Pow. 240-480 W Dim. 180,5x73,6x38 mm

entire family is compatible with WiFi systems.

Domotic systems

TSL DALI Family

facilitating the installer's work

TSL Casambi

communications

TSL Zigbee

IST TECSOLED

CCT White RGBW

and, at the same time, save energy.

Wireless systems

Casambi is a technology based on Bluetooth low energy (BLE) protocols,

already found in all devices such as smartphones, tablets and

The Bluetooth connection is through a mesh where all points emit and receive data, thus preventing a failure in a device from affecting the other

(i) TSL 2501

control to irrigation control, climate control and lighting. easy communication and individual or joint control of up to 16 groups. Nowadays, this type of installation is mainly undertaken in industrial and $% \left(1\right) =\left(1\right) \left(1\right)$ office buildings, for the purpose of energy management and system The entire installation is undertaken with two-wire electrical cabling, The system allows for scenes to be created that produce atmospheres Tecsoled has begun its KNX system journey with two decoders that allow for single colour and RGBW strips to be integrated into installations.

> TSL Zigbee o CCT White RGRW **ZigBee** (+) CATALOGUE Zigbee LightLink, a low power, safe and reliable technology for light control. This is a personal wireless lighting system, designed for everyday life, which combines the advantages of LED lighting with the most intuitive

New features and improvements are continually being added to the

system to make it even more useful. Software and firmware updates to

Deceivers

lamps can be done directly through the wireless network.

to be controlled from different points or from a single emitter towards

TSL 2501N(WP) Ref. 09410096 Pow. 240-480 W Dim. 180,5x73,6x38 mm

KNX

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