

## **TECHNICAL TILES WITH DECORATIVE, STEP-INDICATOR, COURTESY LIGHTS OR EMERGENCY FUNCTIONS FED BY OPTIC FIBRES.**

This high-technology tile is predominantly functional, and partly decorative.

The lighting does not have the function or the capacity to illuminate an area, but that of decorating, marking or highlighting a specific area with an adjustable luminous beam.

The advantages of this technology also consist in the opportunity to use the decorated tile in extreme conditions, such as outdoors, under water, to cover pool and sauna areas subject to foot-tread or other traffic, without risk of accidental electric discharges as the light is not generated by a flow of electricity but it is a non-direct light, whose lighting source is far away and protected.

It is cold light with a very low consumption, approximately 3 W for 20 lights.

### **INSTALLATION**

When planning the system, we tried to make the assembly of the product as easy as possible, without the need of a qualified technician.

The first step is the positioning and placing of the corrugated pipes to transport the optic fibres. It is necessary to place one O13 corrugated pipe for every illuminated tile, calculating the centre of the tile, these pipes should converge in a junction box containing the optic fibre device.

The margin of error for the positioning of the corrugated is 12 cm.

The junction box containing the optic fibre device must not be more than 10 meters away from the light because the tile is only fitted with an optic fibre of that length.

Once the concrete slab with the corrugated pipes has been installed, then we can install the tiles.

The tile comes equipped with optic fibres already installed and gathered in a protective case with a 5mm diameter, it is sufficient to insert the case in the corrugated pipe until reaching the junction box.

Alternatively, and perhaps more functionally, it is possible to install the optic fibre during the installation of the tiles by cutting, using a flexible hose, a 5mm thickness along the path which goes from the tile to the junction box and place the optic fibre which will then be embedded under the tiles.

Please note that, once the tile with optic fibre has been embedded, the fibre cannot be removed.

### **– CAUTION –**

Check that the path and the length of the corrugated pipe to transport the optic fibre to the junction box is not longer than the optic fibre installed on the tile.

The optic fibre must protrude from the junction box by at least 20 cm .

### **- Control of optic fibre functionality.**

Before starting and immediately after tile installation, it is recommended to check that the optic fibre is not damaged by moving a source of light (ELECTRIC TORCH/LIGHTER) close to the optic fibre and make sure the light is transmitted onto the tile.

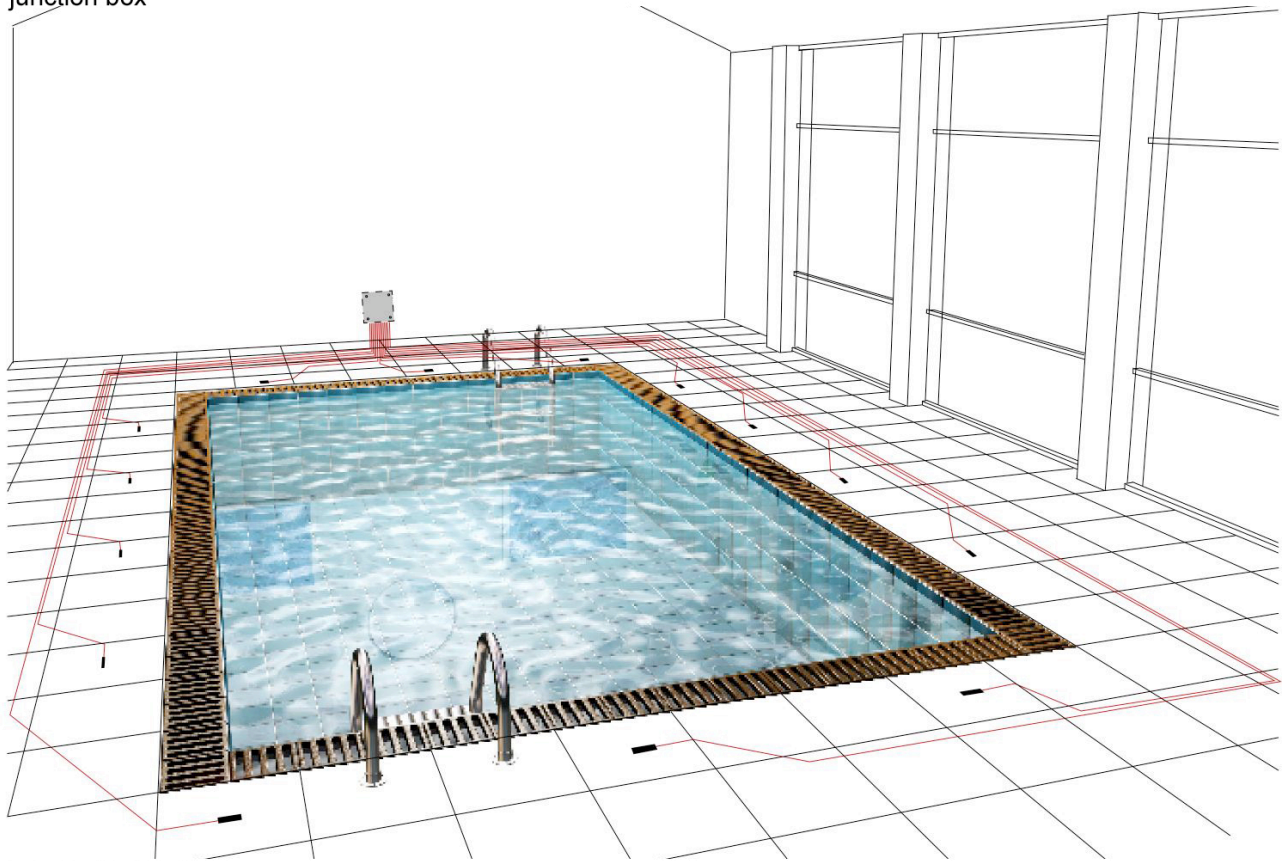
This safety check is highly recommended because, once the glue has hardened, it will be impossible to replace the optic fibre without breaking the tile.




The connection of the optic fibre to the device must be carried out by a technician (ELECTRICIAN) and he must follow the technical instructions specific to the assembly procedures included in the system.

System feed-unit with certification



Indicative scheme for the placement of the corrugated pipe and the optic fibre from the tile until reaching the junction box



-  Light diffuser
-  Corrugated pipe/optic fibre
-  Junction box (20x20cm) containing the optic fibre device