

K2







Safe in public rooms



Safe in environments with high levels of humidity and high dust concentrations



Safe in outdoor applications

Robust and waterproof

K2 is a dust and waterproof (IP65) luminaire that can take a punch (IK10). An excellent solution for emergency lighting in public spaces and in industrial indoor and outdoor applications. With its robust and easy to clean construction, it is also eminently suitable in environments with high dust concentrations and high levels of humidity.

Family concept

K2 is designed along the same lines as the ETAP K1 range. Just as K1, K2 uses environment friendly techniques, and is standard equipped with EST, the automatic self-test, in compliance with European standard EN 50172 and IEC62034. Together, K1 and K2 provide a consistent family concept, allowing you to meet all of your building's specific emergency lighting requirements.

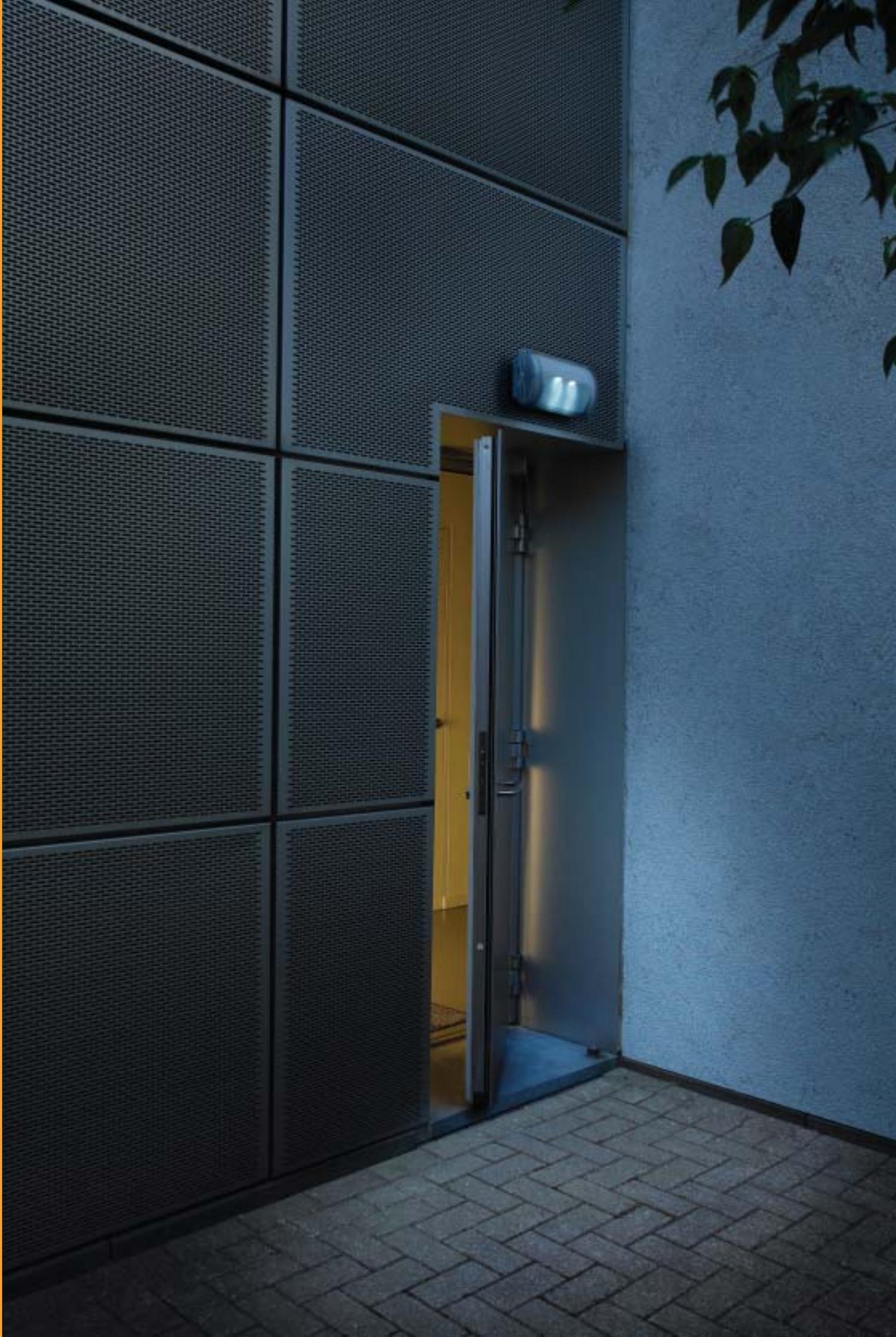


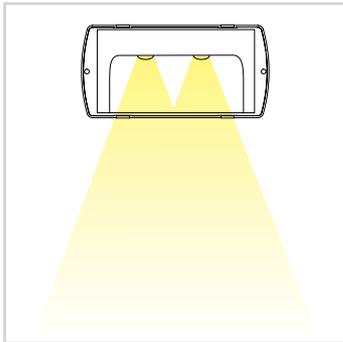
K1



K2

Consistent family concept in your building





Lenses guarantee 1 lux on the floor at a suspension height of up to 5 m



Reliable operation down to -15°C because of LED's

Fully suited to outdoor use

For outdoor applications, your emergency lighting not only needs to be waterproof, it must also be able to withstand high temperature variations. The "outdoor luminaires" from the K2 range provide a solution that is fully suited to this purpose. A special heating element guarantees a reliable operation down to an ambient temperature of -15°C . Additional advantages are a longer battery life and lower maintenance costs.

LED's are used for signage and final emergency exit lighting to make the light source insensitive to low temperatures (in contrast to fluorescent lamps).

For final emergency exit lighting the led's are fitted with a specially developed lens, which bundles the light and guarantees a lumen output of 1 lux on the ground, as specified by the European standard EN 1838, at a mounting height of up to 6 m. Moreover these luminaires for maintained operation are equipped with a light sensor. This sensor deactivates the light source during the day but keeps it lit throughout the night as protection against vandalism and intrusion. This allows you to reduce energy usage to a strict minimum.

For outdoor anti-panic and escape route lighting applications the K2 is equipped with a fluorescent lamp with high luminous flux. The battery heating guarantees in this case in addition a trouble free start up, even at very low temperature conditions.

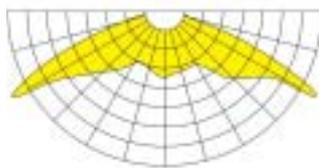
Environment friendly

Non-maintained K2 luminaires are optionally available with nickel metal hydride batteries (NiMH). They are standard in K2 LED luminaires for outdoor applications. NiMH batteries are more compact, do not contain cadmium and are therefore less environmentally harmful. The life of these batteries has been optimised by using an ingenious charging process: maximum one hour per day is all that is needed to recharge the batteries.

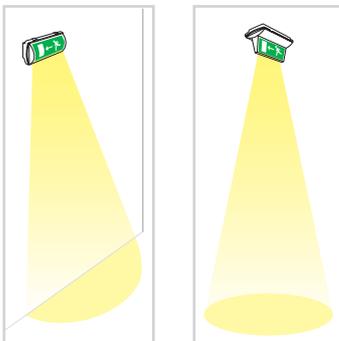


Nickel metal hydride, less environmentally harmful

Judicious use of light



Wide-angle distribution



A light window gives 1 or 5 lux on the floor at a normal suspension height



Uniform illumination with LED's

Fewer luminaires on escape routes and in anti-panic areas

Anti-panic and escape route lighting calls for wide-angle distribution. This is ensured by the specially designed Fresnel lens of K2. In addition, the reflecting properties of the internal polycarbonate structure result in maximum light efficiency.

This means you need fewer luminaires to illuminate the same distance.

To obtain 1 lux on an escape route, you only need one luminaire every 14 m at a suspension height of 2.8 m, or one luminaire every 19 m at a suspension height of 5 m.

For an anti-panic light level of 0.5 lux, you only need one luminaire at 2.8 m height for a 200 m² area, or one luminaire at 5 m height for a 320 m² area.

Light window for higher light levels

K2 for signage is available in either single or double sided version with a fluorescent light source. In both cases, a light window under the pictogram ensures that enough light is present under the luminaire.

The single sided version produces 1 lux on the floor at a suspension height of 2.25 m. The light window makes emergency exits better visible and contributes to escape route illumination.

In the double sided version, a light window is mounted to the bottom of the cover. This guarantees 5 lux on the floor at a suspension height of 3 m and thus meets the standard which prescribes 5 lux above crossings, fire extinguishers and at other crucial places.

LED light guide for even illumination

K2 for single and double sided signage can, apart from using 6 W fluorescent lamps, also be equipped with 2 LED's. For the LED version, ETAP has developed a light guide that ensures homogeneous illumination and optimal recognition.



The right light source

7
K2 ETAP

Small and efficient

For most applications, the 6 W fluorescent lamp is the best choice: it ensures energy efficiency and good colour rendering. This lamp is suitable for both maintained and non-maintained applications, for lighting and signage.

Increased luminous flux

The 11 W TC-S lamp is ideal for a higher luminous flux in non-maintained applications. This compact lamp guarantees an extra high luminous flux and represents the ideal solution for high ceilings.

Long life

For single and double sided signage LED's can be used. Because of their long life, LED's are particularly suitable for maintained signage. The light output of LEDs decreases gradually, that is why a built-in control system warns you when the illumination of the pictogram drops below the minimum established level.

In outdoor applications LED's easily start at very low temperature conditions. K2 LED's have an expected life of over 10 years, and therefore require significantly less maintenance.



Energy efficient 6 W fluorescent lamp with good colour rendering



11W TC-S lamp for increased luminous flux



LED-lighting guarantees long life



Simple, IP65 proof mounting

K2 comes standard with quick mounting brackets. Drilling the back housing is no longer required. Once you have installed the brackets, you only need to connect the wiring and snap the luminaire into the brackets.

ETAP has developed specific power and bus cable glands for the K2 series. This makes K2 IP65 compatible for surface mounted cabling.

Additional wiring for surface mounting is simply connected via 6 extra IP65 compatible cable inlets. To enable the looping of multiple luminaires, you choose the optional internal wiring solution (5 x 2.5 mm²) for the power supply and for bus communication. The K2 luminaire has insulation class II, so earthing is not necessary.

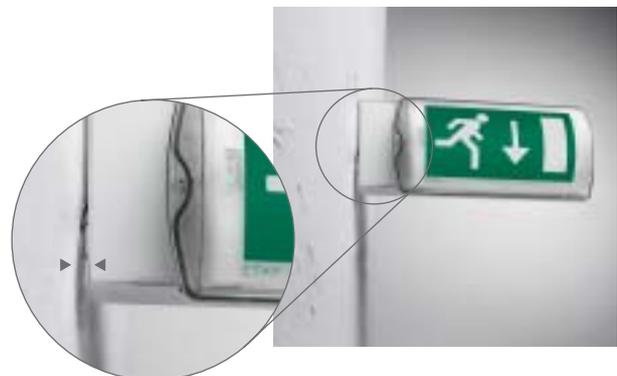
Installation of the signage pictogram is just as simple and user-friendly. The pictogram is mounted to a rigid film, so it can be easily installed behind the cover or replaced. This gives you the necessary flexibility during installation. As the film tightens itself up in the cover, it sits firmly in place and the pictogram remains bright and sharp.

Mounting accessories for all applications

Special mounting accessories (recessed, square and suspended) let you install your emergency lighting wherever you like. Irregularities on the wall surface can easily be eliminated using the adjustment system specially designed for this purpose.



Special brackets for quick mounting



Irregularities on the wall can easily be eliminated

Lighting



Single sided signage



Double sided signage



All K2 versions are available either as a decentralised luminaire (with built-in battery set) or for a central emergency power supply. Each decentralised K2 incorporates an automatic self-test function. You can choose between 1 or 3-hour duration.

K2 can be connected to the ETAP Safety Manager (ESM), the ETAP system for decentralised monitoring, using a hard wire connection or wireless technology. The central luminaires can be monitored individually with the ETAP central battery system (EBS).

A complete in- and outdoor range





K2

- IP65 dust and waterproof
- IK10 impact-resistant
- Safe and environment friendly
- Ingenious photometry
- Suitable for outdoor use
- Simple, IP65-proof mounting
- A complete in- and outdoor range

ETAP Lighting, U.K. Branch ■ Unit 6 ■ Windsor Business Centre ■ Vansittart Estate ■ Windsor ■ Berkshire SL4 1SE ■ Tel. +44 (0)1753 829970 ■ Fax +44 (0)1753 859208
e-mail: enquiries@etaplighting.com ■ www.etaplighting.com