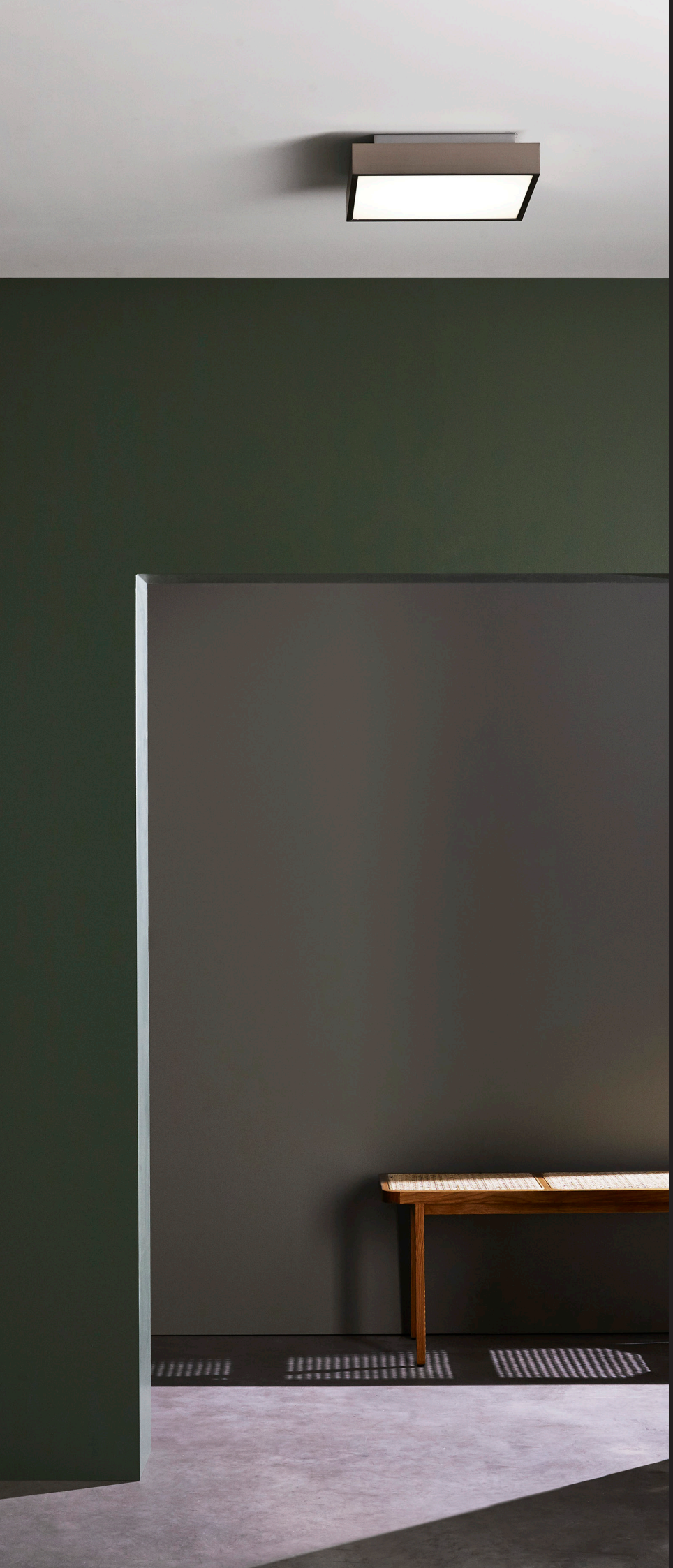

GUIDE TO ASTRO

EMERGENCY CEILING LIGHTS

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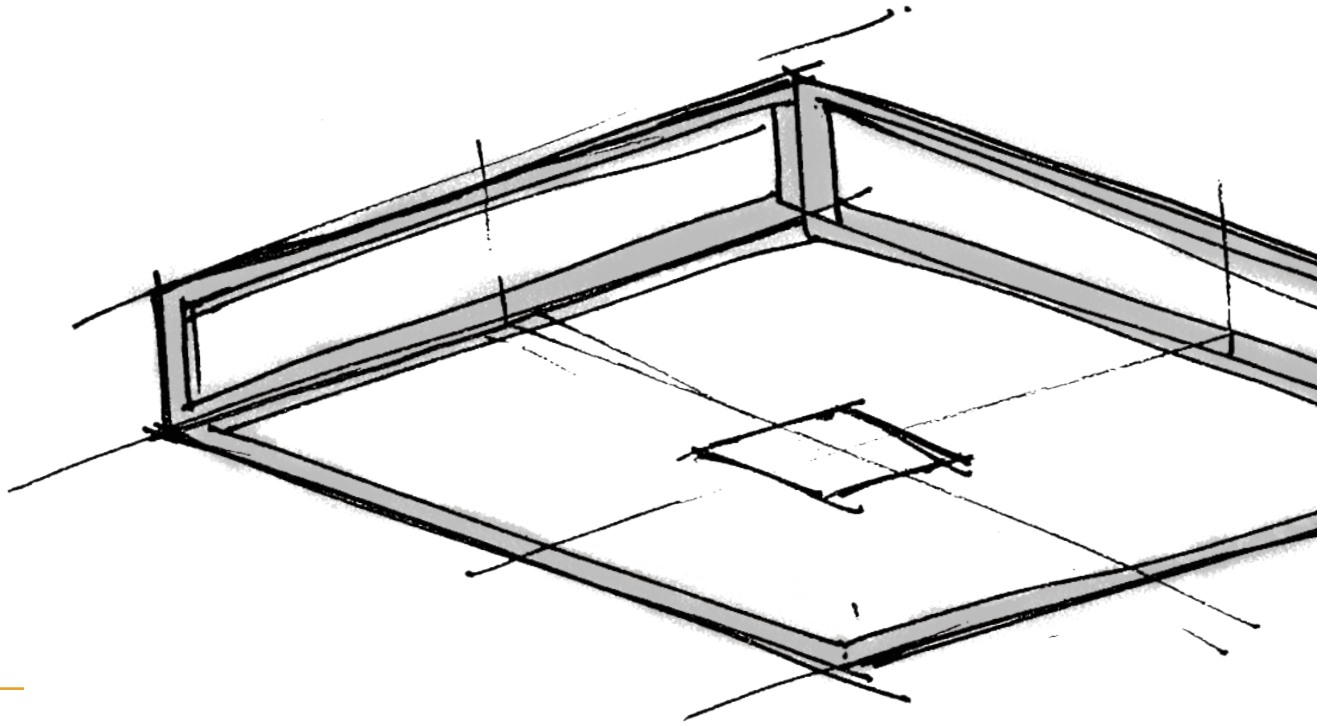

"In the event of a power failure, the light switches to Emergency mode and powers the light source from the battery"

Emergency lighting is an essential and compulsory element for public buildings, so that in the event of a complete or partial power failure people can find their way around the building safely and locate escape routes quickly.

HOW IT WORKS

In the event of a power failure, the luminaire switches to Emergency mode and powers the light source from the battery. By detecting the forward voltage of the integral LED module and setting the correct current, the control gear ensures maximum light output in emergency mode for the rated duration. An example is shown below:

Product	Normal Operation	Emergency Mode
Mashiko	2438lm	297lm (12%)
Taketa	2161lm	336lm (15%)

Emergency lighting designs are:

- **Maintained** – Operating from the mains supply during normal use or from the emergency supply upon failure of the mains supply.

  and

- **Self-Contained** – All components are located within the body of the luminaire.

LIGHT OUTPUT

According to BS 5266-1 and EN1838, an Emergency luminaire must give a **minimum of 1 LUX** on the centre of an escape route. Astro's luminaires comply providing the light is no more than 8 metres from the floor.

KEY FEATURES

RATED DURATION

The rated Emergency mode duration for all Astro Emergency designs is 3 hours.

BASIC OR SELFTEST OPTIONS

Astro offers two variants of Emergency lighting with different built-in test methods:

- **Basic:** requires daily, weekly and annual tests to be carried out and logged **manually**.
- **Selftest:** daily, weekly and annual tests to be carried out **automatically**, however, the monthly and annual tests must be logged.

With both systems, any fault will be displayed by the **Charge Indicator LED.**

TRIDONIC BATTERY

A 3 Cell Nickel-Cadmium battery suitable for high temperature operation has been used. This has an intelligent multilevel charging system that minimises charging times while maximising battery life. Additional information on battery features can be found in the Commissioning guides.