



## PERLUCE II

As versatile as architecture itself.

Canopy areas  
Entrance areas  
Corridors  
Classrooms  
Workshops  
Changing rooms  
Locker rooms  
Bathrooms  
Car parks  
Storage rooms  
Staff rooms  
**ONE FAMILY**  
**PERLUCE II**  
**MANY SOLUTIONS**  
Cafeterias  
Kitchens  
Laboratories  
Auditoriums  
Lecture halls  
Meeting rooms  
Offices  
Staircases  
Reception areas  
Waiting rooms  
Plant rooms  
Server rooms  
Cycle storage areas  
Rooftop access areas  
Internal courtyards  
Training rooms  
Exhibition spaces  
Breakout zones  
Copy rooms  
Archive rooms  
Canteens  
Bunker facilities  
Command posts  
Staff quarters  
Food storage areas



HEALTHCARE



EDUCATION



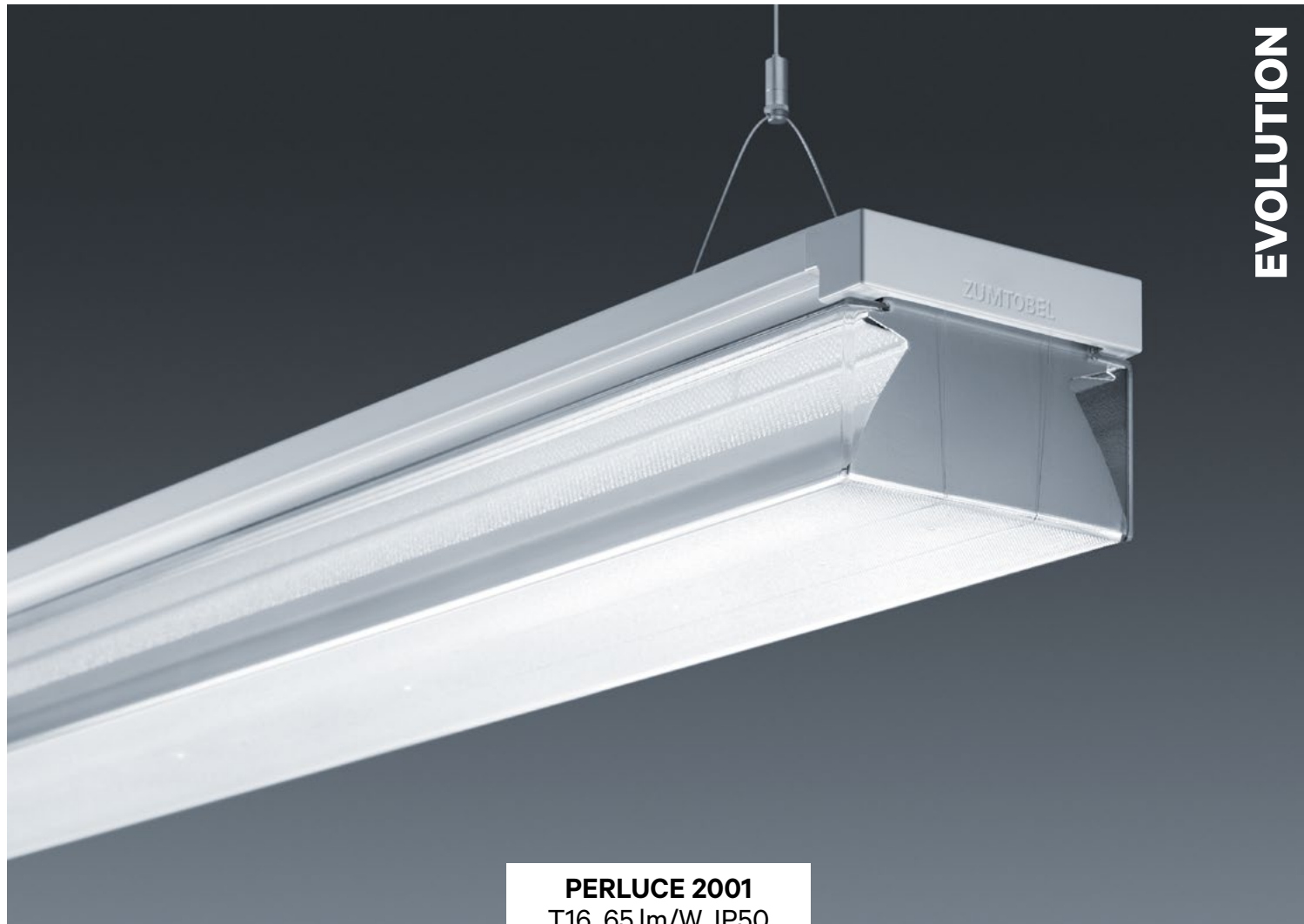
INDUSTRY



***“Keep what’s great,  
modernize what’s old.”***

Stefan Ambrozus developed the first-generation PERLUCE luminaires more than 25 years ago – characterised by reduced form, functional clarity and a sense for innovative materials. For PERLUCE II, the award-winning designer has brought the successful product design to the present day: The timeless product language remains – the application options are growing: modular, versatile, for even more creative freedom. The result is a family of luminaires that preserves the spirit of the original – and interprets it for tomorrow.

Stefan Ambrozus  
[studioambrozus.de](http://studioambrozus.de)





Kindergarten: Play area

**Stimulating light for young explorers.**

Children explore the world with all their senses – light supports them in this endeavor: PERLUCE II illuminates play areas with soft, uniform light without any dazzling points. Colored acoustic elements have a stimulating and inviting effect while reducing the noise of lively groups. Impact-resistant up to IK08, PERLUCE II ensures a high level of safety in the dynamic daily life of a kindergarten. The optional diffuser lock system protects the luminaires from accidental access by curious children's hands. The emergency lighting variant prevents panic in the dark: it ensures that there is a basic light in the room even in the event of a power failure and marks the emergency exits for caregivers and children.



School: Crafting room

**Precise design – despite dust and noise.**

Saw, file, grind, and observe: In the workshop, success stories are created – regardless of age, from elementary schools to universities. PERLUCE II ensures that nothing remains in the dark while working – uniform, pleasantly bright, and optionally with UGR<19 for focused, glare-free work. Designed to be easy to clean, dustproof, and splash-proof with IP64\*, shockproof with IK06 – and therefore permanently reliable even for woodworking and sanding tasks. With an Anti-Grab design and diffuser lock system, which prevent easy access to the luminaire. A lighting solution as ambitious as the craftspeople beneath it.

*\*IP protection for TECTON available on request.*



Health: Dentist Treatment Room  
**Create trust and enable precision.**

Well-being begins with the right light, and good dental treatment with PERLUCE II: The versatile luminaire family creates a calm, friendly atmosphere for patients with simultaneous wall and gentle ceiling lighting. Also ideal for doctors and practitioners who need to recognize small-scale details. Ideal for concentrated screen work thanks to homogeneous, glare-free light up to  $UGR < 19$  and  $< 3000 \text{ cd/m}^2 @ 65^\circ$ . Dustproof and splash-proof, without overhangs or deposits: PERLUCE II is easy to clean and remains hygienic over the long term. In combination with IP64, it is shockproof up to IK06. Light that creates trust – even before a word is spoken.



Industry: Food Processing

**Not just hygienic. But also efficient.**

Cleanliness, precision, reliability – HACCP-certified mounting variants are easy to clean, designed without overhangs or deposit areas, and feature an integrated drainage system to prevent moisture. Dust-tight and splash-proof with IP64, impact-resistant with IK06 – reliable in demanding environments. PERLUCE II saves electricity in energy-intensive industries with up to 165 lm/W and smart sensor technology that only activates light when it is truly needed. Less effort, more reliability – precisely where both matter.



Defense: Bunkers and Barracks

**Light ensures safety, without compromise.**

It also holds up in critical moments: PERLUCE II is qualified for military infrastructure and civilian shelters – proven in so-called vibration tests, resistant to seismic impacts. Shockproof and robust thanks to the combination of IP64 and IK06 protection classes. Even shock-resistant up to IK08 without IP protection – for intact diffusers and protected electronics even in extreme situations. The Anti-Grab design and diffuser lock system prevent any easy removal of the cover. As an escape sign luminaire, PERLUCE II reliably indicates the way, while simultaneously gently illuminating rooms and emergency exits – ensuring a safe experience inside rooms. No compromises. No vulnerabilities. A family of luminaires that demonstrates true strength under extreme conditions.



Traffic: Parking garage

**Orientation and safety, even without daylight.**

Anyone entering a parking garage wants one thing: to feel safe. PERLUCE II changes the feeling of room with homogeneous light and smart microwave sensor technology, which is present during movement and saves during rest phases. The combination of IP64 and IK06 enables operation in harsh conditions. The diffuser lock system and Anti-Grab design with smooth surfaces make it harder to steal or vandalize. An integrated drainage system provides long-lasting light, also in humid environments. PERLUCE II provides safety and orientation – even where daylight cannot reach.

# Harmonious. Glare-free. Versatile. The diffuser family.

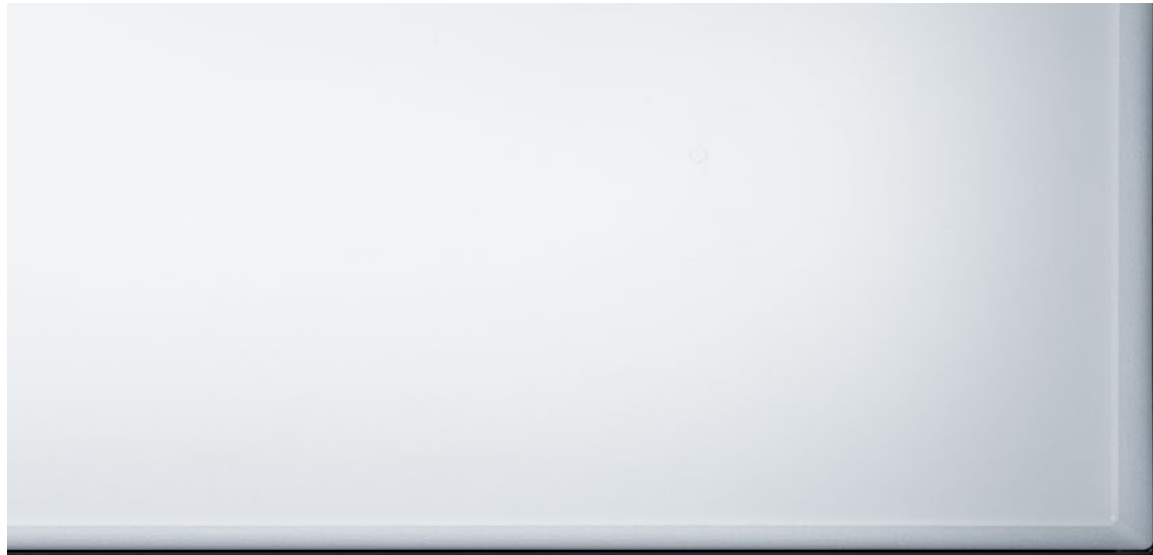
From the foyer to the car park: PERLUCE II is the luminaire family for soft light in all rooms. Whether as a round luminaire, line or light field. Whether with opal optics for corridors, washrooms or wall lighting. With transparent optics for storage rooms. As well as glare-free task lighting (UGR<19) with microprismatic optics: the consistent design concept creates visual calm and architectural clarity.

Gentle light, friendly atmosphere: PERLUCE II with **opal optics** provides evenly soft light. Includes 360° light distribution for effective illumination of ceilings and walls. Ideal for corridors, stairwells, auxiliary rooms, and protective spaces. Easy to clean – despite high-quality, matt surface texture. Particularly hygienic, as it is designed without overhangs or deposit areas.

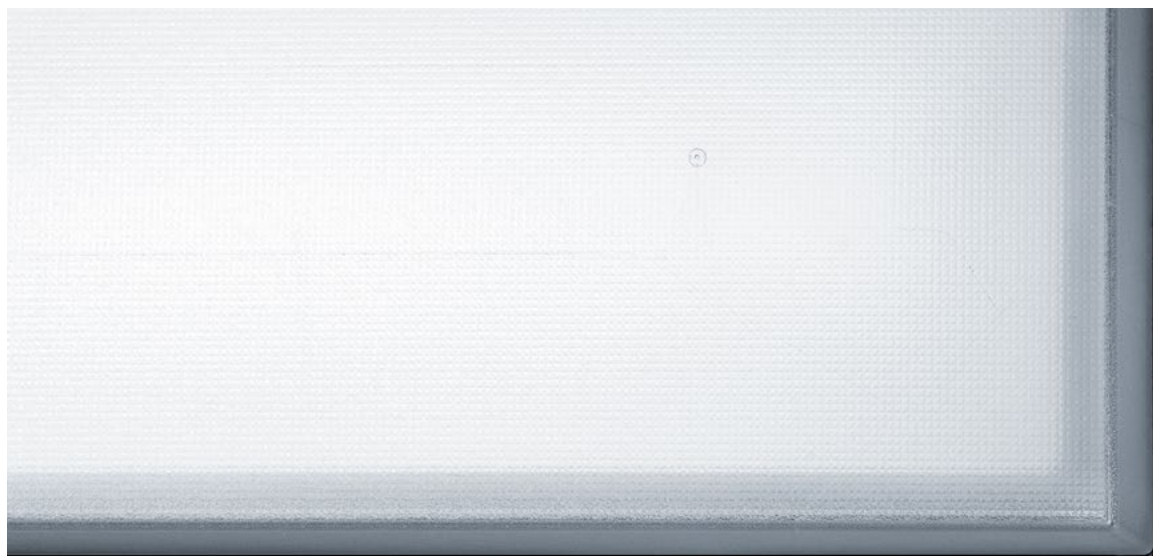
Glare-free optics – focused design: PERLUCE II in the **MPO variant** features high glare control (UGR<19) and a pleasant luminance ( $L < 3000 \text{ cd/m}^2$ ) – exceptional for a diffuser luminaire. This means it meets the requirements for screen workstations according to DIN EN 12464-1. For relaxed eyes, visual calm and maximum productivity.

Homogeneous light pattern – without visible LED dots: A special primary optic ensures excellent, homogeneous cover illumination of the PERLUCE II light lines. Round and square luminaires also exhibit no light points – ensuring visual calm and an appealing aesthetic.





OPAL



MPO



CLEAR

# Unity in design. Freedom in design.

Three basic geometric shapes. Countless design possibilities. PERLUCE II enables both: architectural clarity and creative freedom. Round, linear or square luminaires combine to create light surfaces, structures and lines that divide the space and make it possible to experience it. Can be combined with coloured acoustic elements, different coloured base plates and covers – from microprismatic to opal.

PERLUCE II is dustproof, splash-proof, impact-resistant and HACCP-certified – ideal for sensitive environments. Smart sensor technology, colored acoustic elements and matching emergency sign luminaires expand your application options. PERLUCE II – functional aesthetics meet maximum design freedom.

**Colored acoustics** – audibly effective: Acoustic panels in various colours reduce sound, even in low frequency ranges. Whether round, square or linear: acoustic elements set accents – ideal for open-plan offices, learning zones, or collaborative spaces. This creates an environment that combines concentration, communication, and design.

Versatile installation, suitable for the architecture: Whether as a discreet loop-in/loop-out continuous row system on the ceiling, or as a targeted wall accent. Whether suspended for atmosphere or mounted on busbars for maximum flexibility. PERLUCE II can be mounted in a variety of ways. Tailored to your room requirements.



# Modular. Sophisticated. Future-proof.

PERLUCE II consists of a base plate, device carrier and cover – for easy installation and quick access to the electrical system. Maintenance, replacement or modernization are possible without dismantling the entire system. Whether installed on a ceiling or wall, suspended or on power rails – PERLUCE II adapts to your architecture. Variable power feed points and loop-in/loop-out through-wiring offer maximum design freedom.



The **All-in-One Geartray** ensures highly efficient maintenance through the direct accessibility of all system components and minimizes operational downtime. Electricians benefit from reliable installation and simple upgrade options, while building operators receive maximum investment security through flexible interchangeability in the event of repairs or refurbishments. A technically consistent system for a durable and future-proof building operation.

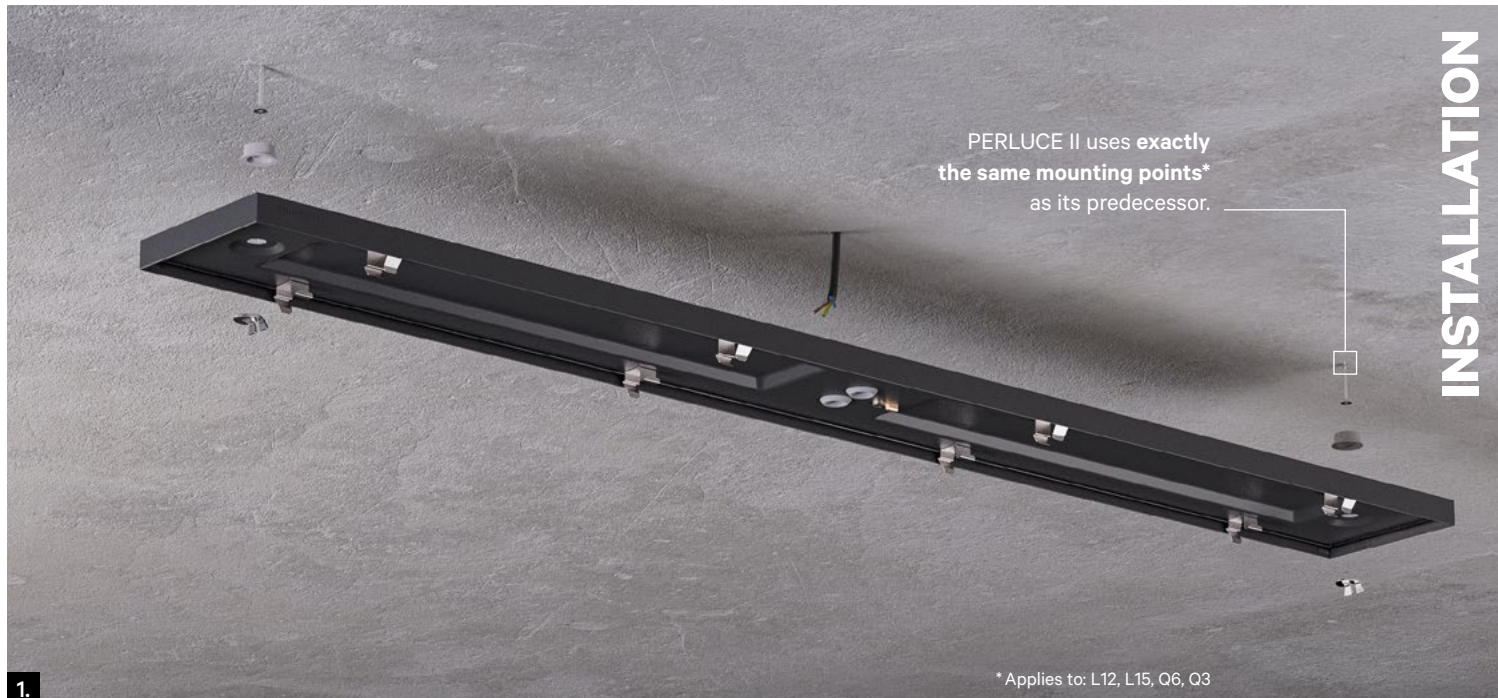
**Intelligent sensor system** with thoughtful features: PERLUCE II reacts to movement: It turns on as soon as someone approaches. If there is no motion in the room, the luminaire turns off or dims down. Optionally available with corridor function. For greater comfort, increased energy efficiency – and sustainably managed buildings.



## **Installed in three steps.**

The modular design makes it possible.

- 1.** Mount base plate
- 2.** Connect wiring
- 3.** Snap in the cover.  
Done!

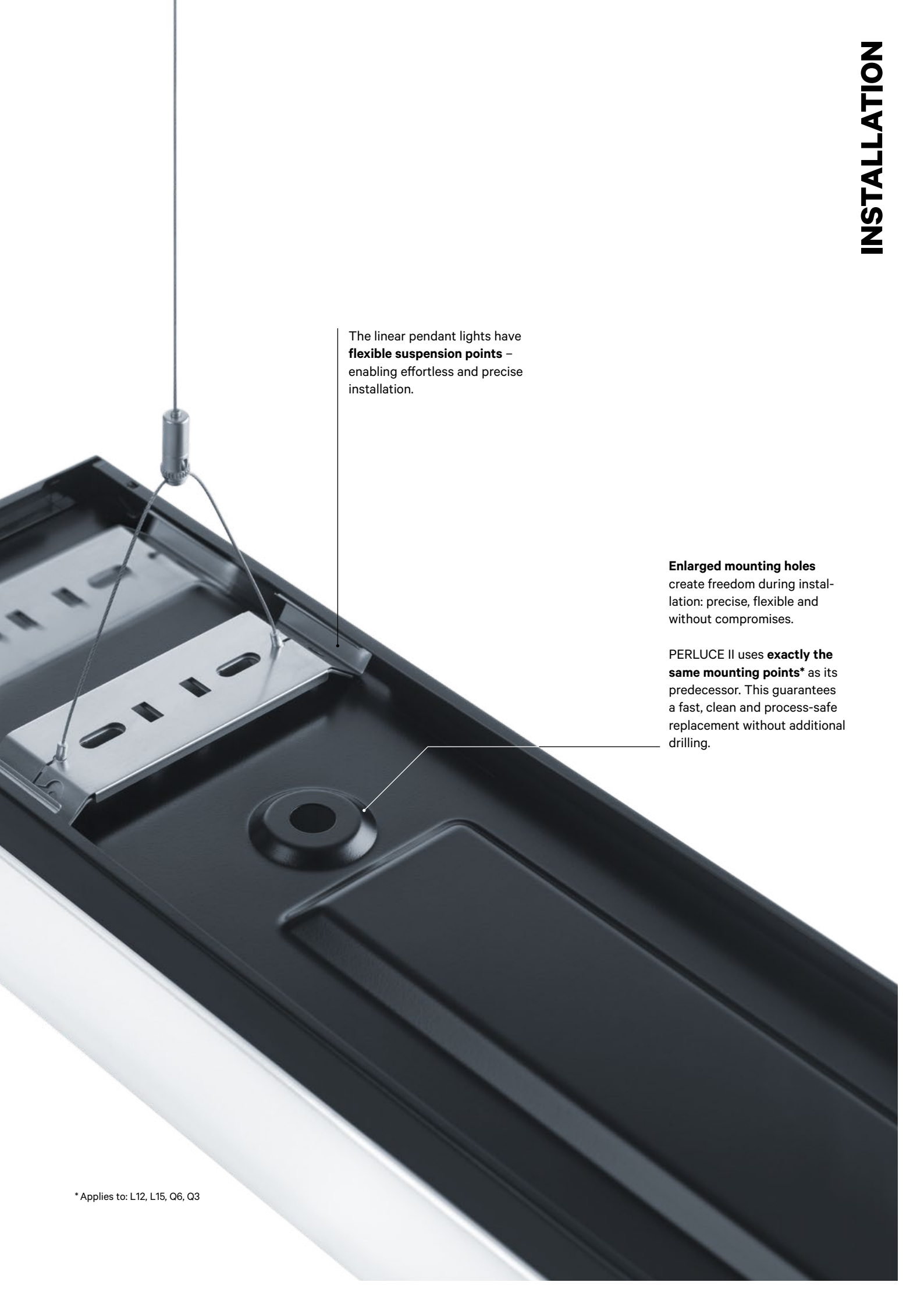


The **concealed cable routing** behind the base plate maintains the IP protection (IP64) and IK protection (IK06). The integrated **loop-in/loop-out function** ensures structured through-wiring and provides precise, time-saving installation with maximum process reliability.



**Flexible power feed** with IP protection: In addition to the classic top power feed, PERLUCE II also allows **side** power feed – enabling creative lighting structures without compromising protection and safety. The concealed cable routing behind the base plate maintains the IP protection (IP64) and IK protection (IK06).





The linear pendant lights have **flexible suspension points** – enabling effortless and precise installation.

**Enlarged mounting holes** create freedom during installation: precise, flexible and without compromises.

PERLUCE II uses **exactly the same mounting points\*** as its predecessor. This guarantees a fast, clean and process-safe replacement without additional drilling.

\* Applies to: L12, L15, Q6, Q3

# Developed for tomorrow. Reliable for more than two decades.

PERLUCE II meets numerous specifications:  
Whether UGR<19 for workplace-suitable  
lighting in the office. Or IP64 for washrooms.  
Whether HACCP-certified for environments  
where food is processed. Available on request  
with an Anti-Grab design and diffusor protec-  
tion to prevent easy access to the luminaire.  
Naturally with ENEC certification.

#### **Low-maintenance and**

**hygienic:** The thoughtful design facilitates the cleaning of PERLUCE II. Especially in sensitive applications such as food processing or in the healthcare area. Dust-tight and protected against splash water with IP64.

#### **Clever drainage:**

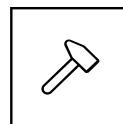
PERLUCE II offers more than IP64: An integrated drainage system prevents moisture from accumulating behind the base plate – for permanently dry and trouble-free operation.

#### **Luminous performance that**

**endures:** PERLUCE II remains bright – even after 100 000 operating hours, the luminous flux decline is a maximum of 20 % (L80). For consistently high light quality over many years.



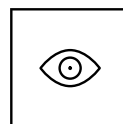
IP 64 (with IK 06)



IK 08 (with IP 20)



HACCP (surface-mounted)



UGR<19  
L<3000 cd/m<sup>2</sup>



Safely installed. Protected against vandalism: The **Anti-Grab** design and diffuser protection safeguard PERLUCE II from theft and tampering. Particularly suitable for wall-mounted luminaires – for example in public buildings, high-traffic areas or covered outdoor spaces.



# Safety in the system

PERLUCE II is also available as an escape sign luminaire – and reliably indicates the escape direction. Identical luminaire optics, safety-relevant printed markings, gentle brightening of rooms and emergency exits. For compelling aesthetics and optimal wayfinding even in critical situations and underground shelters.





# Circular. Energy-efficient. Forward-looking.

Made for circular product cycles, designed in accordance with Circular Design Rules (CDR) – the Zumtobel standard for pioneering and sustainable lighting architecture. The modular design and easy disassembly make it easy to separate all PERLUCE II components. For maintenance, modernisation or reuse – without damage or additional effort. Particularly energy-efficient at up to 165 lm/W, the luminaire family helps to reduce electricity costs.

## **Zumtobel Circular Design Rules (CDR)**

Initiated in collaboration with consultants EPEA Switzerland and the EOOS design studio. The Zumtobel Group's Circular Design Rules (CDR), which have undergone significant further development within the company and have been integrated into the product development process, are setting new standards for the circular economy: from sustainable procurement processes and innovative product design to smart systems for maintenance, remanufacturing and recycling – a well-thought-out concept for a circular future.

## **Effortless maintenance, uncompromising technology:**

The modular design allows for easy disassembly of all components: LED modules, drivers, and sensors are accessible at any time – for easy maintenance, targeted replacement, or technical updates.

## **Fewer luminaires, greater effect:**

Thanks to the lateral light distribution of the MPO and opal covers, PERLUCE II gently illuminates ceilings and walls and creates a spacious feel to the room. This means larger areas can be equipped with fewer luminaires – significantly reducing investment costs and increasing design freedom.

## **Ready for its next life:**

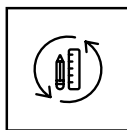
The equipment carrier can be easily removed and modernised – keeping the technology up to date.

**Light when needed:** Microwave sensors for motion detection and – optionally – a corridor function: PERLUCE II reacts to presence.

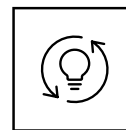
For demand-based lighting and energy-efficient ambient lighting: comfortable, without periods of darkness. Ideal for hallways, stairwells and underground garages.



## CIRCULAR SOURCING\*\*



## CIRCULAR DESIGN



## CIRCULAR SERVICES

## PERLUCE II linear (42190154)\*

**Recycled Material**

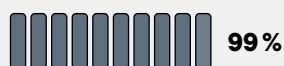
% of recycled material

**25 %**

The product is made with 25% recycled materials, supporting a circular approach.

**Design for Disassembly**

% of disassemblable parts

**99 %**

99% of components can be dismantled non-destructively. Enabler for circular systems.

**Maintenance, Repair, Upgrade**

Availability of the solution

**100 %**

All lifetime-relevant components are replaceable individually or as a unit.

**Recyclability**

% of recyclable materials

**63 %**

At the end of the products lifetime 63% of the materials are recyclable.

**Design for Durability**

% of reusable materials

**68 %**

68% of Components are ready for remanufacturing, supporting a circular systems solution.

**Reuse, Remanufacturing**

Availability of the solution

**10 %**

Pilot projects for remanufacturing could be realized.

## PERLUCE II square (42190438)\*

**Recycled Material**

% of recycled material

**25 %**

The product is made with 25% recycled materials, supporting a circular approach.

**Design for Disassembly**

% of disassemblable parts

**100 %**

100% of components can be dismantled non-destructively. Enabler for circular systems.

**Maintenance, Repair, Upgrade**

Availability of the solution

**100 %**

All lifetime-relevant components are replaceable individually or as a unit.

**Recyclability**

% of recyclable materials

**68 %**

At the end of the products lifetime 68% of the materials are recyclable.

**Design for Durability**

% of reusable materials

**69 %**

69% of Components are ready for remanufacturing, supporting a circular systems solution.

**Reuse, Remanufacturing**

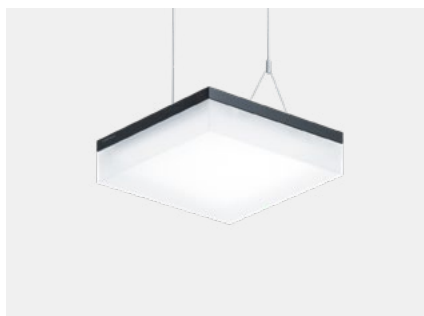
Availability of the solution

**10 %**

Pilot projects for remanufacturing could be realized.

\* Product information based on CDR calculation referenced product

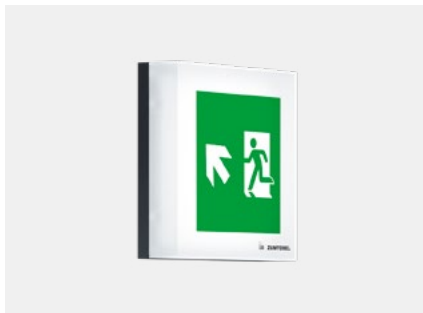
\*\* Disclaimer: Circular sourcing calculation based on product weight. Material data based on available Supplier Information 02/2025.



## PERLUCE II Square

## PERLUCE II Linear

|                                            |                                                                                                                              |                                                                                                       |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Dimensions</b>                          | 310 x 310 x 82 (Q3)<br>620 x 620 x 82 (Q6)                                                                                   | 620 x 140 x 82 (L6)<br>1200 x 140 x 82 (L12)<br>1477 x 140 x 82 (L15)                                 |
| <b>Optics</b>                              | Opal<br>MPO (microprismatic optic, Q6 only)<br>Clear *                                                                       | Opal<br>MPO (microprismatic optic)<br>Clear                                                           |
| <b>Mounting type</b>                       | Ceiling surface-mounted<br>Wall surface-mounted<br>Pendant                                                                   | Ceiling surface-mounted<br>Wall surface-mounted<br>Pendant<br>TECTON<br>TECTON II<br>ZX2 (mechanical) |
| <b>Base plate colours</b>                  | black BK (ca. RAL9005), white WH (ca. RAL9016), silver SR (ca. RAL9006)<br>further colours *                                 |                                                                                                       |
| <b>Lumen packages MPO @ UGR19</b>          | Q6: 6000 lm                                                                                                                  | L12: 4400 lm<br>L15: 5400 lm                                                                          |
| <b>Lumen packages Opal @ UGR22   UGR25</b> | Q3: 2500 lm   3500 lm<br>Q6: 6000 lm   on request                                                                            | L6: 1800 lm   2700 lm<br>L12: 3500 lm   5300 lm<br>L15: 4400 lm   6500 lm                             |
| <b>Lumen packages Clear @ UGR28</b>        | on request                                                                                                                   | L6: 2700 lm<br>L12: 5300 lm<br>L15: 6500 lm                                                           |
| <b>Colour rendering</b>                    | CRI > 80, CRI < 90                                                                                                           |                                                                                                       |
| <b>Colour temperature</b>                  | 3000 K, 4000 K, tunableWhite 2700-6500 K                                                                                     |                                                                                                       |
| <b>Efficiency</b>                          | up to 164 lm/W                                                                                                               | up to 165 lm/W                                                                                        |
| <b>Controls</b>                            | Switchable, DALI, microwave sensor,<br>corridor function (automatic dimming to 10%)<br>basicDIM Wireless (Bluetooth)         |                                                                                                       |
| <b>Monitoring</b>                          | lumDATA (for DALI versions)                                                                                                  |                                                                                                       |
| <b>Emergency power supply</b>              | Central battery<br>3-hour battery with self-test<br>3-hour battery with DALI control<br><br>Compatible with PROset app & NFC |                                                                                                       |
| <b>Protection class</b>                    | IP64 / IK06 or IP20 / IK08                                                                                                   | IP64 / IK06 or IP20 / IK07                                                                            |
| <b>Ambient temperature</b>                 | -20 °C to +45 °C<br>Emergency lighting option: 0 to 35 °C                                                                    |                                                                                                       |
| <b>Optional extras</b>                     | Diffuser-Lock-System (IP64 / IK06)                                                                                           |                                                                                                       |
| <b>Certificates</b>                        | ENEC<br>HACCP (surface-mounted only)<br>BABS (surface-mounted only)                                                          |                                                                                                       |



### PERLUCE II Round

### PERLUCE II Sign

### PERLUCE II Acoustic

|                                                                                                                              |                                                                                                                                                                                                                                  |                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 420 x 420 x 82 (D4)<br>580 x 580 x 82 (D6)                                                                                   | 310 x 310 x 82                                                                                                                                                                                                                   | 620 x 140 x 82 (L6), 1200 x 140 x 82 (L12),<br>1477 x 140 x 82 (L15), 310 x 310 x 82 (Q3),<br>620 x 620 x 82 (Q6), 420 x 420 x 82 (D4),<br>580 x 580 x 82 (D6) |
| Opal<br>MPO (microprismatic optic, D6 only)<br>Clear*                                                                        | Opal + printed with emergency signs<br>(detection range: EN 1838: 46 m &<br>BS 5499-4: 21,7 m)<br>Opal + customised printing*                                                                                                    | Fleece in various colours<br>Customised printing*                                                                                                              |
| Ceiling surface-mounted<br>Wall surface-mounted<br>Pendant                                                                   | Wall surface-mounted                                                                                                                                                                                                             | Ceiling surface-mounted<br>Wall surface-mounted<br>Pendant                                                                                                     |
| black BK (ca. RAL9005), white WH (ca. RAL9016), silver SR (ca. RAL9006)<br>further colours*                                  |                                                                                                                                                                                                                                  |                                                                                                                                                                |
| D4: 3500 lm<br>D6: 6000 lm                                                                                                   | -                                                                                                                                                                                                                                | -                                                                                                                                                              |
| D4: 3500 lm   on request<br>D6: 6000 lm   on request                                                                         | 320 lm<br>Emergency mode: 67 lm<br>(more available on request)                                                                                                                                                                   | -                                                                                                                                                              |
| on request                                                                                                                   | -                                                                                                                                                                                                                                | -                                                                                                                                                              |
| CRI > 80, CRI < 90                                                                                                           | CRI < 70                                                                                                                                                                                                                         | -                                                                                                                                                              |
| 3000 K, 4000 K, tunableWhite 2700-6500 K                                                                                     | 6500 K                                                                                                                                                                                                                           | -                                                                                                                                                              |
| up to 153 lm/W                                                                                                               | -                                                                                                                                                                                                                                | -                                                                                                                                                              |
| Switchable, DALI, microwave sensor,<br>corridor function (automatic dimming<br>to 10%), basicDIM Wireless (Bluetooth)        | -                                                                                                                                                                                                                                | -                                                                                                                                                              |
| lumDATA (for DALI versions)                                                                                                  | lumDATA                                                                                                                                                                                                                          | -                                                                                                                                                              |
| Central battery<br>3-hour battery with self-test<br>3-hour battery with DALI control<br><br>Compatible with PROset app & NFC | Central battery (DALI / circuit monitor-<br>ing / Powerline communication nBox)<br>3-hour battery with self-test<br>1-hour battery with DALI control<br>3-hour battery with DALI control<br><br>Compatible with PROset app & NFC | -                                                                                                                                                              |
| IP64 / IK06 or IP20 / IK08                                                                                                   |                                                                                                                                                                                                                                  | Fire resistance class B-s1, d0                                                                                                                                 |
| -20 °C to +45 °C<br>Emergency lighting option: 0 to 35 °C                                                                    |                                                                                                                                                                                                                                  | -                                                                                                                                                              |
| Diffuser-Lock-System (IP64 / IK06)                                                                                           |                                                                                                                                                                                                                                  | -                                                                                                                                                              |
| ENEC<br>HACCP (surface-mounted only)<br>BABS (surface-mounted only)                                                          |                                                                                                                                                                                                                                  | -                                                                                                                                                              |

\*on request

T H E L I G H T



PERLUCE II