

# High protection factor luminaires



EXCELLENT LIGHTING, SAVING ENERGY





## OVER 60 YEARS' EXPERIENCE

*In damp and/or highly soiled spaces you will require enclosed luminaires. ETAP has more than 60 years experience in this field. The result: a wide and high quality range of impact, dust and waterproof luminaires, with both LED and fluorescent lamps. We have an extensive knowledge which we offer to enable you to choose the best solutions.*



Reduced energy consumption



Long lifetime



Easy maintenance

### Energy-efficient

Enclosed ETAP luminaires are particularly energy-efficient thanks to the high luminaire efficiency, the sophisticated light distribution with aluminium reflectors or the LED+LENS™ technology and the application of energy-efficient components, which in turn translates into minimising the number of luminaires used.

### Built to last

With their robust construction and superior finish, our luminaires retain the specified protection level for many, many years to come. Housing, optics and cover each have an independent strength.



### Installation and maintenance-friendly

ETAP luminaires are easily and efficiently installed. Each sealed luminaire comes with specific mounting brackets to save you valuable time. Lamps and ballasts in fluorescent luminaires are always easy to reach for maintenance purposes. The long life span of LED luminaires means that virtually no maintenance is required.

### Adapted to your specific situation

With each enclosed ETAP luminaire you can choose from a wide range of electrical options: dimming, built-in emergency unit (in fluorescent luminaires only), electrical connection with Wieland, mounted fluorescent lamps, etc. For specific lighting requirements we can work out a customised solution that fits your needs.

## THE MOST SUITABLE SOLUTION FOR ANY SCENARIO

*Enclosed luminaires find applications in many different situations. That is why ETAP offers a wide range, so you can choose the most suitable solution for any situation.*



E1 LED



E1 fluorescent lamp



E6

protection level	IP65	IP65	IP65
impact resistance	IK03 <sup>1</sup> /IK08 <sup>2</sup>	IK03 <sup>1</sup> /IK08 <sup>2</sup>	IK08 <sup>2</sup>
application – features	hard-wearing in aggressive environments, LED+LENS™ technology	hard-wearing in chemically aggressive environments	
application – examples	general industry, deep-freeze warehouses, etc.	chemical industry, steel industry, agricultural and food industry, ...	work stations, sheds, garages, warehouses, cellars, ...
installation and maintenance	quick installation, no maintenance required	quick installation, hinged cover, interchangeable mounting plate	quick installation, hinged cover

<sup>1</sup> polymethylmetacrylate (PMMA) <sup>2</sup> polycarbonate (PC) <sup>3</sup> clear hardened glass





E2

IP65

economic, glare-free lighting

work stations, as in textiles,  
furniture making, ...

easy-to-reach lamps



E4

IP54

IK10<sup>3</sup>

high, glare-free lighting levels

work stations, food industry,  
inspection tasks, ...

also inclined installation,  
quick and efficient cleaning


E9

IP40/IP44

IK04<sup>1</sup>/IK10<sup>3</sup>

work stations with high lighting  
requirements

individual workstations, quality control,  
precision work, ...

also inclined installation



# E1

## HARD-WEARING SOLUTION, ALSO FOR AGGRESSIVE ENVIRONMENTS

*E1 is especially designed for applications where you require additional protection against (chemically) aggressive substances or environments.*

*The housing is made up of a sturdy polyester base reinforced with glass fibre and a protective cover made from clear PMMA or impact-proof polycarbonate. The polyurethane sealer, poured in one piece, and the stainless steel fasteners provide an IP65 protection level (dust and jet proof).*

*E1 proves itself every day in heavy industry and in chemically aggressive environments: steel industry, chemical, agriculture and food industry.*

6 | E1  
ETAP

## E1 LED

### Light distribution

E1 LED is equipped with the LED+LENS™ technology. With the patented lenses, we perfectly control the light distribution, enabling us to offer the optimal light distribution for every application. The result is LED lighting that combines energy efficiency with high visual comfort.

### Quick assembly

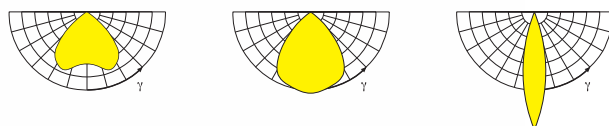
The E1 LED is completely pre-assembled and the luminaire is fitted with a Wieland plug as standard. Just click the luminaires into the supplied mounting brackets. These luminaires are hermetically sealed in the factory. The protective cover need not be opened afterwards.

### Easy maintenance

ETAP not only uses efficient but also durable LEDs with a low depreciation rate. The average lifetime of LEDs is 50,000 burning hours at 84% of the luminous flux, which makes E1 LEDs virtually maintenance-free.



wide angle distribution    medium wide angle distribution    narrow-angle distribution



The LED+LENS™ technology lets you choose from three light distribution types

**LED+LENS**  
TECHNOLOGY

	PMMA	PC	PMMA	PC
<b>LED</b>	<b>IP</b>	<b>IK</b>	<b>IK</b>	<b>IK</b>
	65	03	08	08
			650 °C	850 °C

- Glass fibre reinforced polyester housing
- Polymethylmetacrylate (PMMA) or polycarbonate (PC) protective cap
- Polyurethane seal
- Stainless steel fasteners

E1 LED in the food industry (up to -30°C)







Mounting brackets



Snapped in



Connected (Wieland plug standard in E1 LED)

## Light distribution

In the E1 series with fluorescent lamps, the cycloid reflector is selected if you require a luminaire for general lighting with very wide light distribution. If you aim to prevent transversal glare and direct the light to your work surface, opt for the parabolic reflector. Both reflectors deliver high output.

## Quick assembly

E1 fluorescent luminaires can optionally be fitted with a pre-assembled Wieland plug. The lamps are then also pre-installed. For installation directly onto support we will provide additional rubber washers on the inside and outside of the mounting points. This guarantees a hermetic seal.

## Easy maintenance

In E1 luminaires with fluorescent lamps, the mounting plate with lamps and ballasts can be easily disconnected and replaced as soon as the protective cover is opened, enabling you not to have to carry out maintenance on site.



E1 with fluorescent lamps  
in a version for swimming pools



E1 with fluorescent lamps  
in the agricultural industry



		PMMA	PC	PMMA	PC		
		IP 65	IK 03	IK 08	650 °C	850 °C	

- Glass fibre reinforced polyester housing
- Polymethylmetacrylate (PMMA) or polycarbonate (PC) protective cap
- Polyurethane seal
- Stainless steel fasteners
- Detachable mounting plate
- Emergency unit possible
- ATEX E12/...V280 (gas-zone 2): II 3 G: Ex nA IIC T4 Gc IP65
- ATEX E12/...V281 (gas-zone 1): II 2 G: Ex e mb IIC T4 Gb IP65
- ATEX E12/...V200 (dust-zone 21): II 2 D: Ex tD A21 IP6X T125°C

# E6

## SIMPLE AND RELIABLE ALL-ROUND SOLUTION

*You are looking for a dust and jet proof luminaire that does not have to meet particular requirements in terms of chemical resistance and light treatment? Then E6 is the solution for you.*

*The housing and the protective cover of E6 are made from polycarbonate. A silicone seal is applied between the base and the protective cover. In combination with the stainless steel fasteners, this provides an IP65 protection level (dust and jet proof).*

*E6 finds application in cellars, warehouses, plant rooms, open and closed parking areas, sheds ...*

8 | E6  
ETAP



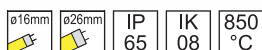
### Savings thanks to aluminium reflector

E6 is energy-efficient. The aluminium reflector gives the luminaire a high efficiency, so that fewer luminaires have to be installed.

### Ease of installation and maintenance thanks to specific mounting brackets

You install E6 with separate mounting brackets. You simply snap the luminaires into the brackets.

Maintenance is simple too: stainless steel clamps provide for easy opening and closing of the housing. The cover remains suspended from the housing so you have both hands free for the maintenance work.



- Polycarbonate housing
- Polycarbonate protective cover
- Silicone seal
- Stainless steel fasteners
- Hinged cover for easy maintenance
- Emergency unit possible



## EFFICIENT PHOTOMETRY

*You are looking for a dust and jet proof luminaire without any specific mechanical protection features? Then you choose E2, a luminaire with aluminium reflector and easy-to-reach lamps.*

*The base consists of an extruded aluminium profile with rubber sealers. The polycarbonate lamp holders hermetically seal off the electrical section, resulting in an IP65 protection level (dust and jet proof).*

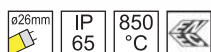
*E2 finds application in a wide variety of workplaces.*

### Energy-efficient and glare-free reflector

The aluminium reflector means that you require fewer luminaires to obtain a given lighting level and also reduces your energy consumption. The reflector limits the cutoff angle to 60°, thereby preventing transversal glare. The hammered aluminium used prevents sudden luminance transition.

### Shatterproof lamps

You can eliminate any risk of flying shards in case of lamp breakage with ETAP fitting E2 luminaires with shatterproof lamps, rendering them ideally suited for use in for example the food industry. These lamps are fitted with a Teflon® (polytetrafluorethylene) protective cover: if a lamp shatters, the protective cover will keep the splinters together. In addition, ETAP provides for additional protection of the lamp ends.



- Extruded aluminium housing
- Polycarbonate lamp holders
- Easy-to-reach lamps

# E4

## ENCLOSED LUMINAIRE WITH HIGH LIGHTING QUALITY

*Where a robust enclosed luminaire with high lighting levels is required E4 provides the solution. Moreover, E4 can be mounted in an inclined position and also the luminaire is easy to clean.*

*The housing consists of a solid base of galvanised and enamelled steel plate, and a cover plate of clear hardened glass. The polyurethane sealer, poured in one piece, together with these highly durable materials provide the luminaire with an IP54 protection level (dust and splash proof).*

E4



### High lighting levels without glare

You can choose from two wide-angle reflectors. Both ensure even light distribution, enabling you to light your space with fewer luminaires.

- The hammered aluminium reflector has a 60° shielding angle in the transverse direction.
- The low-luminance reflector with baffles shields the light lengthwise and transversally, thereby preventing glare in all viewing directions.

### Asymmetric beam distribution mounting without problems

E4 can quickly and efficiently be mounted with asymmetric beam distribution or on inclined surfaces: the luminaire's angled sides are fitted with continuously adjustable mounting brackets.

### Easy to clean

The sophisticated design of E4 allows for quick and efficient cleaning of the luminaire. In addition, the rigid housing minimises dust accumulation on the luminaires.



- Galvanised and enamelled steel plate housing
- Clear hardened glass protective cover
- Polyurethane seal
- Stainless steel fasteners
- Adjustable up to 60°
- Emergency unit possible



## INDUSTRIAL WORKSTATIONS WITH HIGH LIGHTING REQUIREMENTS

*At some workstations you need additional lighting in order to carry out your visual tasks efficiently. E9 provides high horizontal and vertical glare-free lighting levels for the user and the environment. This makes the luminaire ideal for precision work, quality control and lighting of individual workstations.*

*The housing consists of a white-painted steelplate housing, and a clear PMMA or clear hardened glass cover plate. In the clear hardened glass version, a polyurethane seal, poured in one piece, is inserted between the base and the protective cover, making the luminaire splash proof.*

### An exceptional reflector design

The requirements for high illuminance horizontally and vertically with maximum glare-free contrast on the work surface is satisfied by the E9 with its specific reflector. The wide luminaire prevents sharply defined shadows. Large side reflectors concentrate the light and the central longitudinal reflector and transverse baffles prevent direct exposure to the lamp.

### Customised solutions


The specific technique of the E9 reflector allows variants with a different light distribution to be produced. This makes E9 perfectly suited for solving special lighting problems in industrial workplaces.



Workplace lighting



Version suited to your specific situation

	E95	E90	E95	E90	E95
	IP 40	IP 44	IK 04	IK 10	650 °C

- White-painted steel plate housing
- Clear hardened or clear PMMA protective cover
- Optimised reflector design for perfectly illuminated workstation and environment





## High protection factor luminaires

- Many years of experience
- Broad range
- Tailored solutions
- LED and fluorescent lamps
- Energy efficiency
- Visual comfort
- Hard-wearing construction
- Easy installation
- Maintenance-friendly

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