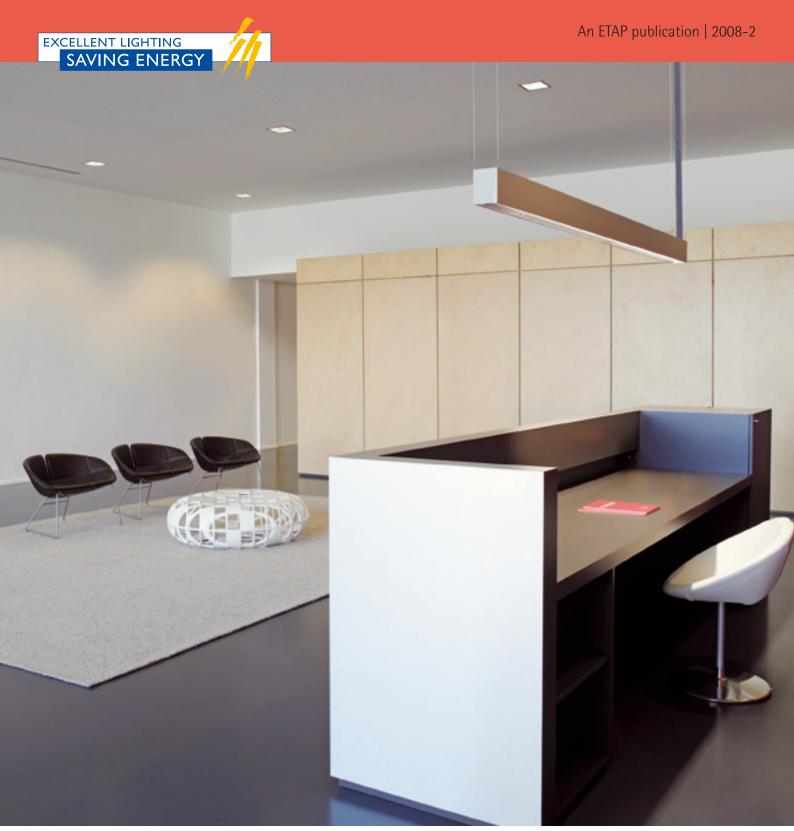
LIGHTPOINT.



G.E.T., Malle - Belgium

Kardó: endless light combinations Excellent renovation of Amsterdam town hall

K5: less is more

LEDs and outdoor lighting: the perfect symbiosis



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New products

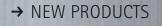
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90mm



Kardó:

Design: architectural design office EER

With the modular light system Kardó, you consistently use one and the same profile for your lighting throughout the building. Suspended or recessed, as a wall or ceiling luminaire, individually, in-line or angled. For the Kardó system, too, ETAP offers you a wide selection of high quality light modules as you have come to expect from us.



One profile for everything

The heart of Kardó is an anodised aluminium profile, which gives Kardó its nice rigid shape. This profile offers you unprecedented flexibility. It can be custom-made, the through wiring can contain up to 14 wires, and the light modules can be installed in any part of the profile.



endless light combinations



Comfortable, energy efficient and flexible

The offer of light modules for use within the profile out of anodised aluminium is wide:

- EQUILUM® reflectors, with their high comfort and efficiency
- asymmetric reflectors for the uniform illumination of vertical surfaces
- High quality HaloOptics® diffusors; overlapping lamps ensure uniform brightness
- Fixed and directional spots, with LEDs or HIT lamps as an energy efficient light source

We also effortlessly add all sorts of technical modules to your system, such as:

- emergency units or K9 emergency lighting
- project-bound modules such as speakers, smoke detectors,...

Simple yet versatile

For recess mounting of the Kardó profiles, we supply the necessary brackets for easy installation in any type of ceiling, both in-line and angled. If you prefer surface mounting, you can do so in any number of ways: horizontally or vertically, individually, with or without uplight, in-line or angled... But also the suspended version has a rigid appearance thanks to the minimalistic suspension and the flat power cable.

The Kardó base unit is made from anodised aluminium.
Kardó is also available in white, or any other
RAL colour on request

HaloOptics®-diffusor

fixed LED directional spot LED spot

asymmetric reflector

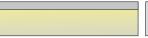
directional fixed spot spot

EQUILUM® reflector

K9 emergency lighting















New softlight luminaires



ETAP expands its successful softlight range with three new HR versions. These luminaires have high efficiencies (HR) due to the HaloOptics® diffusers. Another addition to the range is OPTART: a recess mounted luminaire with a striking design.

HR: High efficiency softlight

ELITE

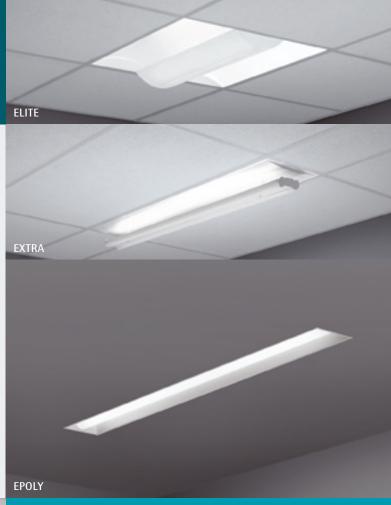
The square ELITE provided with perforated steel sheet lamp shielding has a mounting depth of just 40mm, making it ideal for installation in shallow false ceilings. From this moment, this luminaire is available in HR shielding with high efficiency (up to 84%)

EXTRA

Also the EXTRA luminaires are now available with HaloOptics® shielding. The result is a luminaire with a modern design, a dual tubular diffuser, and efficiencies of up to 70%.

EPOLY

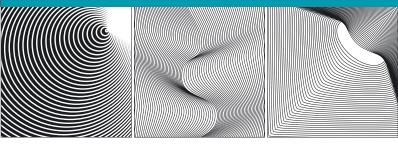
With its single tubular diffuser, EPOLY stands for simplicity. When mounting several luminaires in-line, it seems as if the luminous tube extends into the ceiling.



OPTART

OPTART: an eye-catcher in your ceiling

OPTART occupies a special place in the softlight range. This square recess mounting luminaire has in fact quite a remarkable design. The use of screen printing allows optics with decorative black or white drawings to be generated, which provide a distinctive accent to your ceiling. A real eye-catcher in the room. Three drawings are available: Manta, Dual and Dune. In addition, ETAP can create custom drawings.



R5: slender shape, maximum performance



With R5, ETAP is again expanding its range of surface mounted and suspended luminaires. With its timeless design, R5 blends unobtrusively into any architecture. This luminaire is available with high quality reflectors or diffusers, as an in-line version or as an individual luminaire. The integration of light control systems and/or emergency lighting is possible.

R5 with reflector

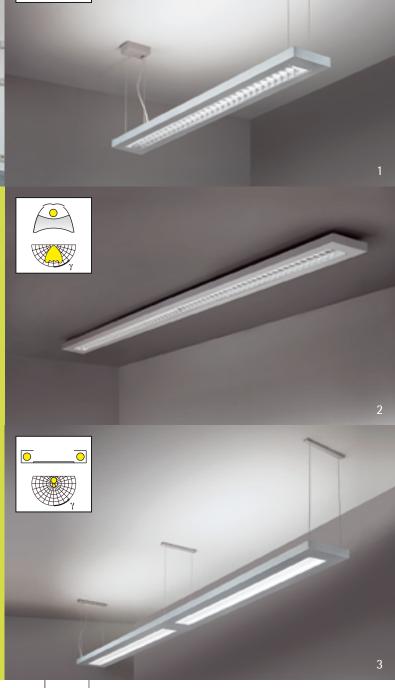
The R5 reflector luminaires come in various lengths. R5 is available as an in-line version or as an individual luminaire; it can be suspended or mounted directly to the ceiling.

The EQUILUM® reflectors prevent disturbing peak luminances and provide uniform shielding in all directions. EQUILUM® also reduces your energy use, thanks to its high efficiency (up to 84%) and the specific light distribution, which means you need fewer luminaires to obtain the required illumination level. The hinged optics allow for easy lamp replacement.

R5 with diffuser

The R5-diffusers utilise MesoOptics® technology, an innovative process whereby tiny microstructures are applied to a transparent material, to obtain a wide-angle distribution. This results in a high efficiency of up to 84%. The large amount of indirect light, some 70%, allows the creation of pleasantly lit spaces.

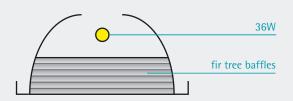
All components are accessible from the top, thereby facilitating maintenance, including replacement of the lamp.



5 | LIGHT**POINT**.

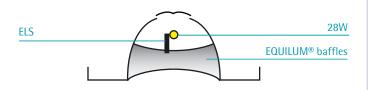
Excellent renovation of Amsterdam town hall

old situation



illumination level: 450 lux

new situation



illumination level: 550 lux

ELS: daylight control





The facility company of the municipality of Amsterdam was nominated one of the GreenLight partners of the Year.

The 'Stadhuis – Muziektheater complex' is located in Amsterdam's inner city, on the Vlooienburg peninsula. Dating from 1986, this building complex accommodates both the town house and the opera. Recently the facility company of the municipality decided to reduce its lighting energy consumption. In office buildings, some 25 per cent of energy use goes into lighting. At the same time, they wanted to improve the lighting quality.

Together with "Koreman Lichtonderhoud", ETAP developed a recessed luminaire which the customer can exchange on a one-to-one basis for the old luminaires. All of the Stadhuis – Muziektheater complex' 4650 luminaires were thus replaced. The installed power of the new lighting system is 25% less than before. Each luminaire is moreover equipped with ELS, the ETAP light control system. ELS uses a sensor for automatically dimming artificial light as a function of the available daylight.

In the end, the municipality of Amsterdam was able to save 45% on its lighting energy bill, while at the same time raising the lighting level from 450 to 550 lux! The municipality also submitted the project to GreenLight, a programme of the European Commission (see also page 14 of this newsletter). It did so with success, for at the international Light+Building lighting trade show in April the municipality was nominated one of the GreenLight partners of the Year.

Director W.J. Toele of the facility company of the municipality of Amsterdam: 'We are very proud of this project and the recognition it receives from the European Commission. Amsterdam has many hundreds of buildings that are several decades old. Thanks to our renovated lighting, we now emit 110 tonnes less CO_2 per year. We hope that many other companies and authorities will follow our example and thus contribute to a cleaner environment.





Data

Old situation:

- > 4650 luminaires of 36W with conventional ballast
- > Lighting level 450 lux
- > Installed power 195 kW
- > LENI* 30,7 KWh/m²/year

The 'Stadhuis - Muziektheater complex' in Amsterdam

New situation:

- > 4650 luminaires of 28W with dimmable electronic ballast equipped with ELS, the ETAP light control system
- > Lighting level 550 lux
- > Installed power 148 kW
- > LENI* 19.2 KWh/m²/year
- > CO₂ emission reduction 110 T

^{*} Lighting Energy Numeric Indicator according to EN 15193

K5: less is more





K5: seamless, fully integrated, rigid and perfectly finished

The totally renewed K5 has an even more minimalist design than its predecessor: seamless, fully integrated, rigid and perfectly finished. Besides that, it offers a lot of other advantages:

Ease of installation

The integrated mounting system of K5 facilitates mounting in hard-to-access ceilings.

Once mounted, the luminaire can be opened with one hand for quick and effortless lamp replacement.

Ingenious photometrics

The photometrics of K5 are well thought out, allowing the number of luminaires on the escape route to be reduced to a minimum. Fewer luminaires are needed because of the ingenious reflector design. For high mounting heights, ETAP has developed a version with high light output.

Environment friendly

K5 in the non-maintained version is available with environment friendly NiMH batteries. These are 50% smaller than NiCd batteries and can easily be recycled. The efficient charging process also extends their lifetime.

Full range

K5 can be used for all applications: signage, escape route and anti-panic lighting. This allows you to use a single recessed design for your entire project. K5 is standard available in white (RAL9003) or aluminium grey (RAL9006).

You can choose between self-contained and central luminaires. Both can be used with the ESM control system, allowing you to save on maintenance costs.

One control-system for self-contained and centralised emergency lighting

ESM in a nutshell

ETAP offers you two types of emergency lighting solutions. On the one hand, self-contained emergency luminaires (with built-in batteries), and on the other, the ETAP Battery System (EBS), central battery systems for the power supply of the emergency luminaires in an emergency situation.

ETAP Safety Manager, or ESM, is a convenient control-system for managing, controlling and monitoring large systems. ESM allows you to view on a single pc screen all relevant information for each luminaire of the emergency lighting system.

ESM was initially developed for self-contained emergency luminaires. With the new version, however, you can now also manage a central battery system (EBS) and monitor the connected luminaires on the screen.

All information at a glance

ESM now also displays online detailed information about the central battery system. If the luminaires are equipped with address modules, you can also request detailed information about each luminaire.

Tests and reporting

ESM lets you easily set or modify the automatic test schedule of the EBS system. If the tests reveal a problem, ESM will indicate this. ESM also automatically updates reports, as required by standard EN 50172, and provides specific problem-solving instructions, allowing you to save valuable intervention time and costs.

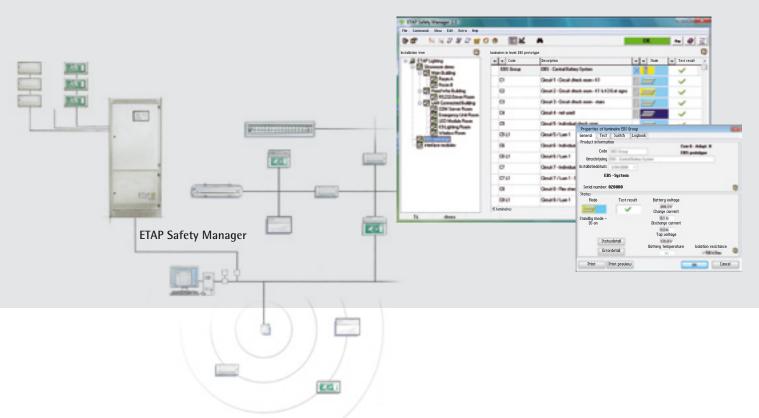
Commands

ESM provides easy control of both self-contained emergency luminaires and centrally supplied luminaires. ESM can at any time initiate function or duration tests via a single mouse click.

In addition, ESM allows you to preset up to four independent, automatic switching schedules for any end circuit of an EBS system. This enables you to reduce lamp usage to a strict minimum, and to significantly extend the time between lamp replacements.

Integrated technology

In the case of mixed systems with both self-contained and centrally supplied emergency luminaires, both types of luminaires are displayed simultaneously on one pc. When multiple EBS systems are connected to one ESM-pc, they can be managed simultaneously by the ESM program.



A fine mix



SCHÜCO international is the worldwide market leader in windows, doors, façades. With its innovative design products, SCHÜCO offers efficient energy use, safety and maximum comfort. Clearly, the company the same stringent requirements on its own buildings.

Renovating efficiently

End 2005 SCHÜCO renovated its head office in Bielefeld. The company set out to look for an energy-efficient, maintenance friendly emergency lighting system that could easily be integrated into an existing building. Since the object was to replace an existing emergency lighting system with self-contained luminaires, and rewiring to a central battery was not considered an option, SCHÜCO opted for self-contained

Schüco's choice fell on ETAP's K9 LED luminaires because of the extremely large interdistance – up to 14m at 1 lux – and the long expected lifetime of the light source – up to 10 years.

In addition, they chose the ESM (ETAP Safety Manager) monitoring system, which allows for individual management and automatic monitoring of all emergency lighting luminaires from a PC. Where installation of a bus network was either unacceptable from an aesthetic point of view or practically impossible, the wireless communication capabilities of the luminaires were used.

SCHÜCO's new seminar center

End 2006 the Bielefeld-based design office "Mies + Reichelt" was entrusted with the design of SCHÜCO's new 'Technology and Learning Center', The new centre is a meeting place, hence the German standard prescribes the use of a central battery system. As a result, no self-contained luminaires could be used for this facility.

The design office "Ulrike Brandi Licht" in Hamburg developed the fire protection and safety concept. It selected ETAP's central battery system with matching K9 luminaires, which they had already successfully applied in the Hamburg Maritime Museum. This installation was also connected to the monitoring system ESM.

Mission accomplished

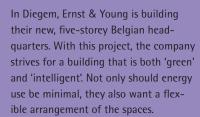
With ETAP, SCHÜCO has purchased a flexible and customised system. One ESM monitoring system is used to monitor the entire system - self-contained luminaires and ETAP Battery System (EBS). The solution covers all aspects of the building with wireless self-contained luminaires, EBS, etc.

The ETAP solution thus meets all of SCHÜCO's requirements, providing an emergency lighting system that is optimally geared to the site.



Ernst & Young: green and intelligent with ELM





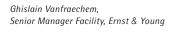
Excellum's ELM (Energy & Light Manager) provides the solution. The ELM system at the new site integrates as many as 2200 luminaires, 700 movement detectors (for both lighting and cooling) and 60 daylight harvesting sensors.

The implementation of ELM enables Ernst & Young to reduce their energy use for lighting by 36%. In addition, the user-friendly ELM software allows the layout of the spaces to be reconfigured without moving a single cable. Each luminaire is in fact individually addressable.

Excellum's ELM thus enables Ernst & Young to effortlessly achieve both objectives.

"As part of our CSR (Corporate Social Responsibility) strategy we have an action plan that is based on three pillars: environment, workplace and community. The new building was an opportunity for us to put this into practice. As one of the market leaders in the service sector, it is our duty to make a positive contribution to society. The erection of a green and intelligent building with solar panels, energy efficient lighting, cooling ceilings, rainwater recovery, ELM light control at the building level, LED lighting for light advertising, HVAC control based on movement detection, and the purchase of 100% green energy, are proof of our commitment."









Small but nifty...









DIPP 3 and DIPP 4

DIPP 3 is a round recess mounted spotlight with 3 power LEDs of 3W each. DIPP 4 is a square recess mounted spotlight with 4 power LEDs. The ingenious thermal design guarantees a high lumen flux and a long life. DIPP 3 and DIPP 4 are therefore perfectly suited to replace existing halogen lighting.

The LEDs are located in a funnel-shaped recess. The difference in colour between the round cover plate and the funnel-shaped recesses impart a special appearance to the luminaire.

DIPP 3 and DIPP 4 are just as easy to install as common halogen spotlights. The power supply – which is also available in a dimmable version – can be installed above the ceiling next to the luminaire.

WA?

New in the LED DESIGN INNOVATION range is the WA?, a small wall luminaire designed by the architectural design office EER.

The name 'WA?' simply stands for 'Wall Luminaire'. And simplicity is what the WA? is all about. Installation, for example, is child's play because the light source is a 4W power LED operating at mains voltage. This means you do not have to connect an additional power supply.

Not only the simplicity of the design but also the relatively high luminous output opens up numerous applications: you can illuminate your floor, wall or ceiling by mounting the WA? at the bottom or top of the wall or to the ceiling. You will discover the versatility of WA? once you have held it in your hands.

Material:

aluminium

Colour combinations:

white, grey or black with alu inserts

Power supply:

power LED drive

(dimmable or non-dimmable)

Material:

aluminium

Colour combinations:

white, grey or black (other RAL colours available upon request)

Connection:

230V

LEDs and outdoor lighting: the perfect symbiosis

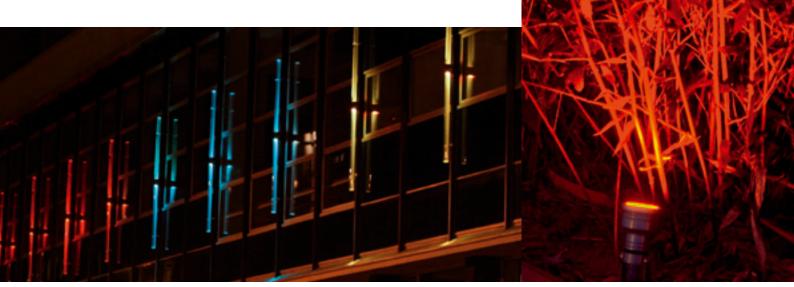
The key assets of LEDs used in outdoor applications are their low consumption and long lifetime.
This lifetime significantly lengthens lamp replacement cycles, giving the designer greater freedom in the design of waterproof outdoor lighting solutions. The LEDs can also be mounted in fully waterproof enclosures.



With its outdoor lighting range, LED DESIGN INNOVATION provides the answer to many questions, be they decorative applications, such as coloured light, or more functional lighting solutions.

Take, for instance, the RIOT, a highly flexible surface mounted device. With its white power LEDs, this device is a cost-effective alternative for the conventional halogen garden spot light, and ideally suited for lighting a sculpture or plants.

Este Light used the RIOT to turn the municipal library of Lille into a real eyecatcher. On the narrow space between the large window sections, Este Light and LDI implemented a special system built around the RIOT RGB (up and down). The light in both directions is captured in a transparent sleeve, one-third of which is coated with a matt reflective film. This produces vertical light strips which with control systems and custom software are made to continuously change colour.



Library of Lille: dynamic vertical light strips

The RIOT can be used as garden lighting when equipped with a mounting bracket.

ETAP engages fully to GreenLight



Communauté Urbaine de Dunkerque

New GreenLight partners in 2007-2008

The GreenLight programme was launched by the European Commission in 2000. The programme aims to reduce emissions of hazardous substances and greenhouse gases with the support of private and public organisations. Participating organisations voluntarily commit to install energy-efficient indoor and outdoor lighting in their buildings, provided it is economically feasible and lighting quality is maintained or improved.

GreenLight partners receive a plague from the European Commission which they can place on or in their building. All partners are mentioned at the GreenLight website http://sunbird.jrc.it/GreenLight, they can participate in competitions, and may use the GreenLight logo in their communication. In short, they are allowed to show that they conduct their business in an environmentally responsible manner.

Lighting professionals who assist their customers in the design of qualitative and energy- efficient solutions, can join GreenLight as endorsers. ETAP has done so from the outset. Moreover, we have always supported the programme by providing advice and guidance. It is therefore no coincidence that we were the first lighting manufacturer to be selected as Main Endorser and GreenLight Endorser.

Today, GreenLight has nearly five hundred partners, tens of which have gone through the programme with ETAP. In 2007 and 2008, the following partners joined GreenLight with the help of ETAP: Assedic Unedic, Association de Logistique Posthospitalière, Biblioteca Municipal de Torroella, BIC CONTE, Communauté Urbaine de Dunkerque, Conseil Régional Nord Pas de Calais, DSM, Eroski, Facilitair bedrijf Amsterdam, Furet du Nord, ING Brussel, Mairie de Lille, Mediacorner, Renault Trucks SAS usine moteurs, Sopic Gaumont, Soprocos (L'Oréal), Valeo transmission, Ville de Bourg les Valence, Ville D'Haubourdin.

Each year a number of organisations are honoured as GreenLight partner of the Year, in recognition of their extraordinary efforts to save energy in their lighting projects. For 2008, three ETAP customers were selected partner of the year: BIC CONTE, DSM and Facilitair bedrijf Amsterdam*.

Should you be interested in joining the GreenLight programme with the help of ETAP, please do not hesitate to contact us.

* read more about their the Amsterdam town hall project on page 6 and 7

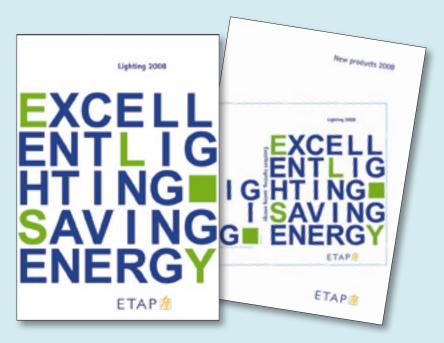


Valeo transmission



The new product catalogues, a source of information

Excellent Lighting, Saving Energy... not just a play of letter characters, but an original presentation of our new slogan on the cover of our new catalogue. These four words in fact sum up what ETAP stands for: excellent lighting that helps you save energy. In this catalogue you will find essential information about our products such as detailed dimensional drawings, polar diagrams, efficiencies, etc.



And, because ETAP never stops renewing, we will have the addition to that catalogue ready in September. In this catalogue all the very latest luminaires are admitted, of which you already had a glimpse in Lightpoint. With these 2 catalogues, you will have a complete and detailed overview of all products and their technical specifications.

If you would like to receive some extra information on the new products that are presented in this Lightpoint, don't hesitate to ask for it via email: info@etaplighting.com

ETAP now also active in Norway



ETAP recently signed a distribution contract with the Norwegian International Lighting Systems. Founded in 1992, ILS is headquartered in Oslo, in a classified industrial building. ILS also has a branch office in Trondheim. The company imports, advises and distributes professional lighting solutions for various projects in Norway. ILS provides lighting solutions to shops, offices, schools and industrial buildings. CEO Inge Schaathun: 'ILS supplies products throughout the country. Given the size of Norway*, it is of vital importance that we supply high quality products. In the first projects we carried out, we found that the ETAP lighting products have extremely high efficiencies, which enables our customers to save on the number of lightpoints. Installation always proceeded smoothly and the end results were most satisfactory. We are quite pleased to be able to include this powerful brand in our product range. Based on the expertise of ILS, ETAP is confident that both companies have many successful lighting projects ahead of them.

* Norway is 1800 km long and has a population of about 5 million people

LEDs provide solution for Belgian lcecream Group

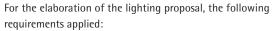
As part of the construction of a new deep freeze warehouse, the Belgian Icecream Group entrusted ETAP with the development of a total solution for the general lighting system.

The Belgian Icecream Group ("BIG") is Belgium's largest producer of branded ice-creams. With its ljsboerke house brand, the group is the market leader in Belgium.

The deep freeze warehouses of the Belgian Icecream Group have an internal temperature between -20° and -30°C, and are made up of movable racks.



The use of LEDs allows selective lighting of the aisles in use. In contrast with fluorescent lamps, LEDs can also be switched on an off without problems at low temperatures, so that lighting luminaires no longer need to burn unnecessarily in unused areas. This results in a substantial energy saving. The longer lifetime of the LEDs also offers significantly reduced maintenance costs. The payback time of the additional investment required by this special LED solution is only 2 years.



- An average illumination of 200 lux was to be obtained on the floor in the aisles.
- An average vertical illumination of 100 lux was specified for the racks.
- In addition, particular attention was to be paid to the ergonomic aspect in order to prevent blinding of the forklift truck operators when stacking products in the racks.
- Finally, ease of maintenance was to ensured at all times.

Since fluorescent lamps in a freezing environment require a long start-up time, ETAP devised a solution built around LEDs that function optimally at all times, also at very low temperatures. To this end, a special E1 (IP65) luminaire equipped with 1.2W LEDs, was developed. The aluminium reflector provides high lighting efficiency and uniform light distribution. The quick mounting brackets in stainless steel ensure simple maintenance.

DOULTRE - DELF TREEZE WARLITOUSE			
PARAMETERS	Fluo proposal 2x58W - E46	LED proposal	
TOTAL number of luminaires	402	318	
Installed power in kiloWatt lighting	53	20	
Absorbed power by lighting in use (16hrs/day) in kW	53	4	
Absorbed power by cooling	53	4	
TOTAL absorbed power	106	8	
Energy cost	33,621	2,514	
Energy savings / year (in €)		31107	

Net cost recovery time (in years)

HSROERKE - DEEP EREEZE WAREHOUSE

Installer: Siegers Technics - Turnhout Architects: Delafontaine bvba - Roeselare



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