



TWIN-C REPORT

ARCHITECTURE | EUROTOURS

CURRENT INFORMATION ON INTELLIGENT LIGHTING SOLUTIONS THAT ARE MADE BY WALDMANN



FULL OF ENERGY FOR THE FUTURE



With its new company headquarters, the tourism flagship Eurotours is architecturally and technologically setting sail: All facilities such as lighting, heat, air conditioning, ventilation, water, sun protection and safety engineering are provided by a KNX integrated solution. Waldmann TYCOON free standing luminaires with a KNX interface and the PULSE lighting management system provide the right ergonomic lighting.

If someone takes a trip, ...

... then the Eurotours company is most likely involved.

During the 29 years of its existence, central Europe's largest incoming agency has been organizing some great vacations for over 8.5 million guests in Austria as well as in other countries for 8.5 million guests. Eurotours has more than 800 tour operators in 59 nations. One of them is Aldi, offering full service in areas such as individual, city and group trips, as well as incentives, events and large group events with thousands of participants. To date, the company has made a total revenue of 1.5 billion euros. Due to the enormous success, the company opened a new headquarter in March 2009, exhibiting very impressive architecture. The building, which is situated in Kitzbühel near the Schwarzsee Lake, is reminiscent of the prow of a windjammer with proudly hoisted sails – a symbol for the self-confidence as a branch flagship that has set sail for an even more successful future.

The future is built-in

The new Eurotours headquarters is characterized, among other things, by bright, large-scale offices that feature state-of-the-art workplace ergonomics. This also

1 Completely geared towards success. The bright, large-scale offices fulfill all requirements of ergonomic workplace design.

2 One of 250 TYCOON free standing luminaires with the PULSE lighting management system and a built-in KNX interface.

3 "The sky is the limit" The new Eurotours headquarters is a symbol for the self-confidence of Europe's largest incoming agency.

4 The right luminaire at all times. The TYCOON free standing luminaires with integrated daylight and presence sensor technology automatically regulate the brightness.

(All photos are photos of the Waldmann plant)



applies to the building and energy engineering. Thus, the building that was erected on 365 posts with built-in heat sensors that are embedded up to 15 m into the ground, is completely geared towards a geothermic energy supply. Heating and air conditioning, windows and ventilation, shade and lighting are all controlled by a building management system (KNX) in accordance with the requirements.

250 Waldmann TYCOON free standing luminaires provide the right lighting at the workplace at all times.

The architectural highlight is air conditioned with a concrete core activation system above the ceilings. This has proven to provide a very pleasant atmosphere.

The only limitation: The concrete core activation does not enable the additional integration of cable channels in the ceilings. And thus, neither ceiling nor hanging lights can be used. So the challenge was to find a lighting solution to evenly provide basic lighting of the room and to light up the working areas in accordance with the official standards, which can also only be supplied with power via floor boxes.

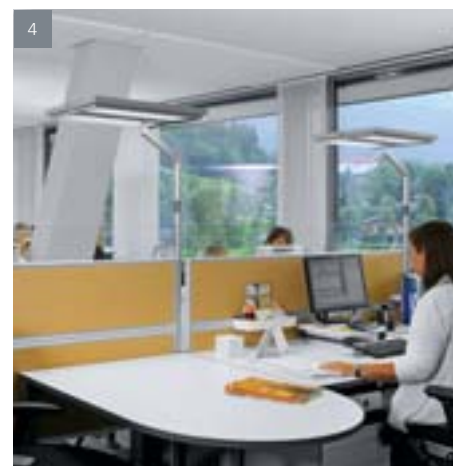
Waldmann's solution: Not two components, but just one.

Thanks to the innovative micro-prism, the TYCOON free standing luminaires reach an efficiency of 74 percent and are absolutely glare-free. The indirect part of the lighting that shines upwards is evenly reflected into the room by Eurotours' white ceilings. The direct part of the lighting ensures a high illuminance on the desk surface – without glaring and causing reflections on monitor surfaces.

Incredible power savings thanks to daylight and presence sensor technology

The TYCOON free standing luminaires at Eurotours are equipped with the fully automated lighting management system Waldmann PULSE. The illuminance is regulated based on the daylight and the presence detection, so that there is only light when someone is at their work station. Thus, power consumption is reduced by up to 50 percent.

Everyone sees differently and has individual lighting needs. Therefore, every employee can set and store his/her individual illumination level.



THE KNX CONNECTION IN DETAIL



250 TYCOON free standing luminaires with the PULSE lighting management system and a built-in KNX interface. The connection to the building engineering is directly provided by the Wieland EST 2i3 BUS-connector. Planning: Hecht Licht- und Elektroplanung, Dornbirn. Installation and programming: Aschaber, Kitzbühel.

The lighting settings are controlled by a Gira home server with a user interface for the building technician. The TYCOON free standing luminaires at the work stations can be switched and dimmed by the employees. To save energy, each luminaire has an integrated daylight and presence sensor that detects brightness and presence.

The luminaire has three settings – two in which the sensors are activated and a bus setting in which they are deactivated.

The luminaire sensor system is switched to stand-by at 7:00 a.m. by a central activation system. If employees are present at the work stations, the luminaire switches itself to the most recently stored setting. The free standing luminaires near the walking zones are switched to a prescribed setting of 30 percent. This ensures sufficient lighting in these areas.

The employees can individually readjust the target brightness setting at any time.

If an employee leaves his/her work place without switching off the TYCOON free standing luminaire, it will be switched off automatically after a few minutes by the presence sensor (automatic switch-off can be set) by the presence sensor. The

daylight sensor also automatically dims the luminaires down, or even turns them off if sufficient daylight exists.

At 8:00 p.m., the lighting is centrally set to the bus level OFF. Daylight and presence sensors are deactivated to avoid the luminaires automatically switching on at night, for example due to the security service.

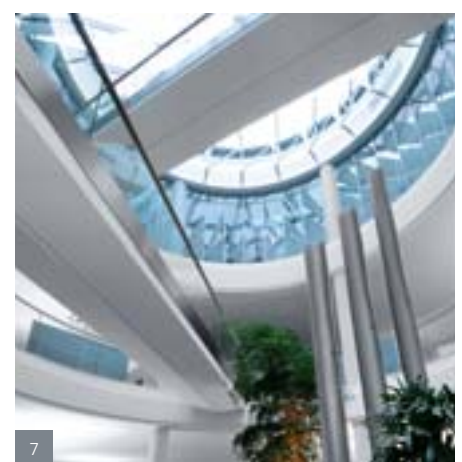
This activation is repeated at 11:00 p.m. Employees who are still working after 8:00 p.m. can activate the lighting with the press of a button.

More about TWIN-C:

Did you know that in terms of a building's lifecycle, 40 percent of all building costs are energy costs and more than two-thirds of these are lighting expenses?

TWIN-C shows you ways to cut energy costs and increase the lighting comfort. To prevent rising energy costs automatically causing higher costs for your company, it is vital to practice energy efficiency. Minimum energy consumption with maximum user comfort is the objective of a forward-looking lighting concept. Request our TWIN-C brochure to find out more. Using various TWIN-C lighting solutions, we will show you how to correctly combine luminaires to increase your company's success.

www.waldmann.com



5 Set sail for success! The building is surrounded by pools on three sides, which increases the impression of a cruise ship.

6 The building engineering is centrally controlled and surveyed by a Gira home server with a user interface.

7 Let the sunshine in: The atrium.

(All photos are photos of the Waldmann plant)