



**ZUMTOBEL**



## **Technogym**

Peak sporting performance: this TECTON continuous-row system with daylight and presence based control will pay for itself within two years.

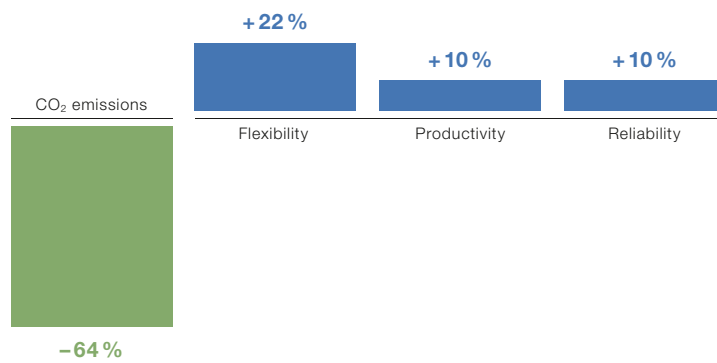
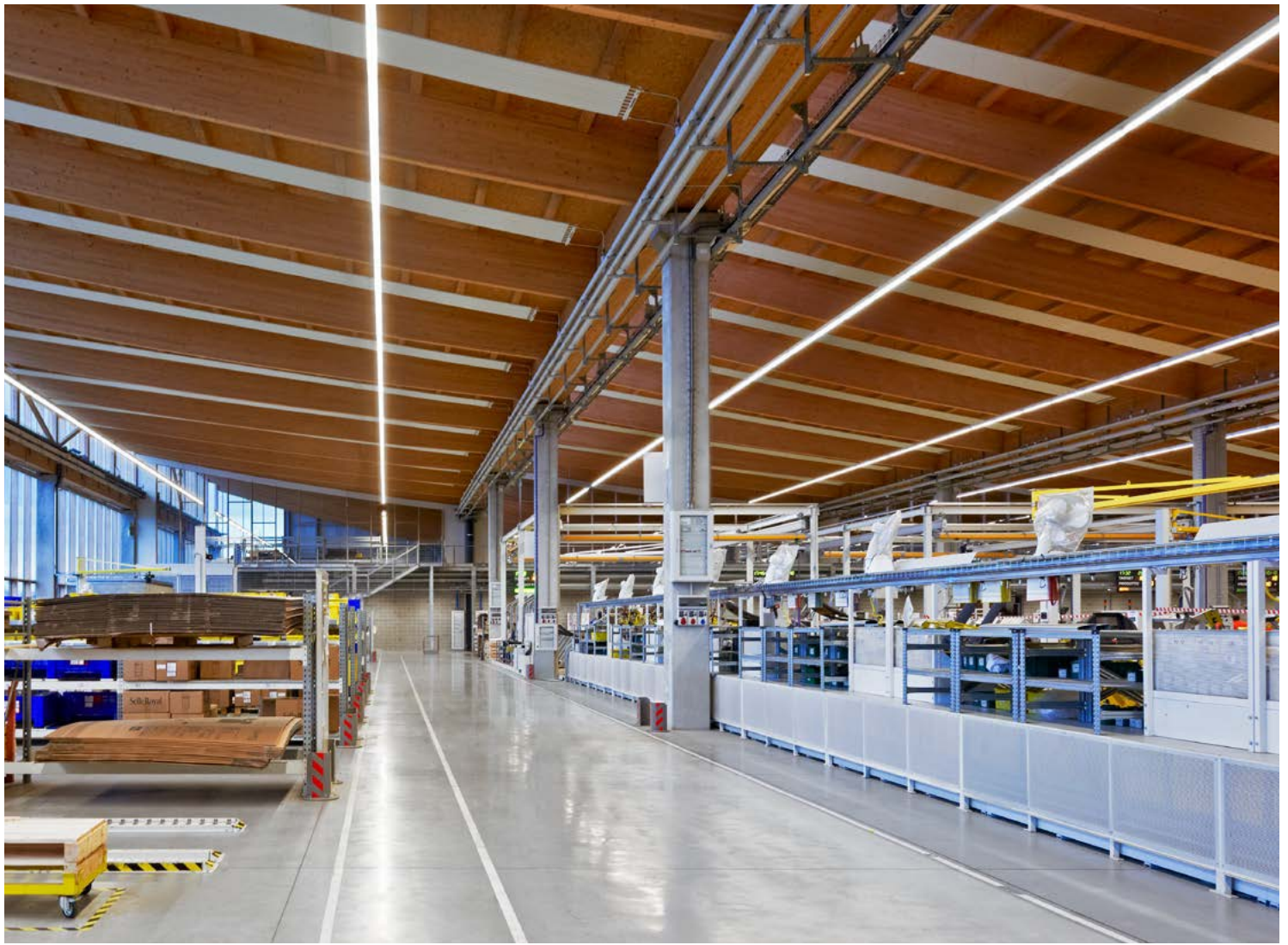


### **Wellness for customers and employees alike**

Technogym supplies fitness and wellness equipment for wellness centres and private households all over the world. The company built its “Technogym Village” at its HQ in Cesena, where it provides an inspiring setting for living and working – with a university, a wellness centre, a new manufacturing workshop and a warehouse, among other facilities. The village’s glazed sawtooth roof lets plenty of natural daylight enter the building and paves the way for a lighting solution that is both pleasant and economically efficient. The TECTON continuous-row system turned out to be the ideal artificial lighting component, delivering sufficient quantities of high-quality light from a height of eleven metres. The lighting solution is controlled depending on occupancy and the amount of available daylight; this maximises the system’s benefits and efficiency.

[zumtobel.com/Industriallighting](https://zumtobel.com/Industriallighting)





**Technogym SpA, Cesena | IT**

Architects: Studio Antonio Citterio & Partners, Milan | IT  
Lighting solution: TECTON continuous-row system with built-in emergency lighting and presence detectors, LUXMATE LITENET control system

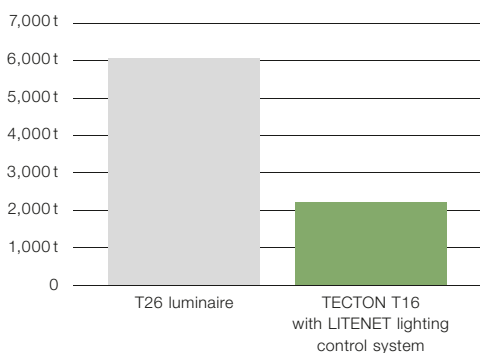
# 1. CO<sub>2</sub> efficiency and cost efficiency

**-64% CO<sub>2</sub>**

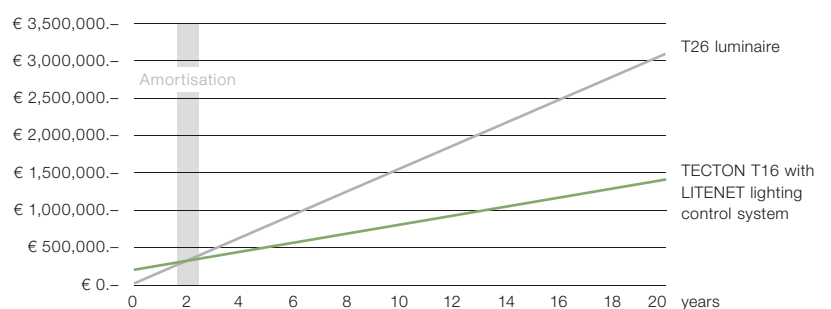
## Modern luminaires and daylight slash energy consumption

The sawtooth roof supplies the eleven metre high manufacturing workshop and warehouse with abundant daylight, so artificial lighting is only switched on when it is actually needed. Lighting analysis reveals that simply using the TECTON T16 continuous-row system rather than T26 fluorescent lamps for this floor space of more than 20,000 m<sup>2</sup> is enough to reduce energy consumption by 28 percent. Combining this system with a LITENET daylight- and presence-based control system makes the lighting even more efficient. The additional investment involved pays off within 2 years, thanks to reduced electricity bills and maintenance costs. Over the next 20 years, the system will save more than 3,800 tonnes of CO<sub>2</sub>.

CO<sub>2</sub> emissions over service life (20 years)



Payback period: 2 years (total cost)



## 2. Flexibility

+22 %

### Flexible use of space thanks to control and dimming

Fitness equipment is manufactured and stored under one roof. The basic concept of the Technogym Village, improving the quality and reliability of the product by adopting a Total Quality Process approach, is reflected in the way that all machining phases are integrated. The lighting plays a crucial role in this. 300 lx is available over the entire surface area in order to ensure that the eleven metre high workshop can be used to perform all activities. This makes it possible to move areas used for storage and manufacturing as required. Presence-based control ensures that light is only provided in areas that are actually being used.

### Adapting to suit a particular activity and usage



### 3. Productivity

+ 10 %

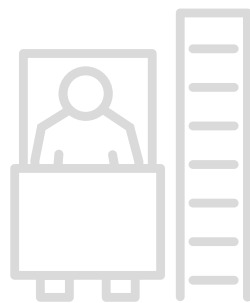
#### More light for better performance

The daylight that streams in through the glazed roof is a great way of boosting employees' working productivity. Higher illuminance levels have a similar effect. Work seems easier and there are fewer signs of fatigue. This also minimises error rates. Technogym uses brightness that is appropriate to the particular visual task in order to make work easier, thus improving productivity.

#### Light that is perfect for particular visual tasks



Manual work 300 lx



Warehouse 150 lx

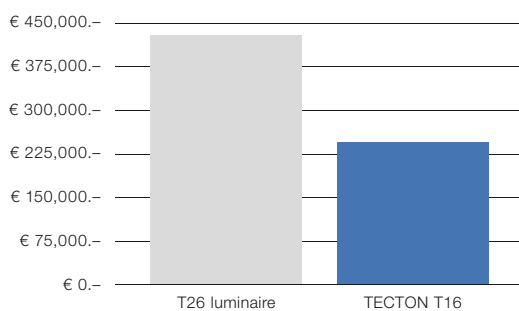
## 4. Reliability

+ 10 %

### It keeps on running. Also is an emergency.

There are two aspects to reliability in manufacturing bays and warehouses. The first priority is to ensure ideal lighting conditions at all times, with as little interruption as possible. At Technogym, TECTON uses T16 fluorescent lamps to produce light. Significantly less effort is spent on maintenance work thanks to the reduced failure rate and hence fewer lamp failures. The second aspect of reliability concerns the emergency lighting. Emergency lighting points the way to safety in an emergency. The reliability of all luminaires, emergency luminaires and the lighting control system is backed up by Zumtobel's five-year guarantee.

Maintenance costs over service life (20 years)





# ZUMTOBEL

## United Kingdom

Zumtobel Lighting Ltd.  
Chiltern Park  
Chiltern Hill, Chalfont St. Peter  
Buckinghamshire SL9 9FG  
T +44/(0)1753 482 650  
F +44/(0)1753 480 350  
uksales@zumtobel.com  
zumtobel.co.uk

## USA and Canada

Zumtobel Lighting Inc.  
17-09 Zink Place, Unit 7  
Fair Lawn, NJ 07410  
3300 Route 9W  
Highland, NY 12528  
T +1/(0)845/691 6262  
F +1/(0)845/691 6289  
zli.us@zumtobel.com  
zumtobel.us

## Australia and New Zealand

Zumtobel Lighting Pty Ltd  
333 Pacific Highway  
North Sydney, NSW 2060  
T +61/(2)89135000  
F +61/(2)89135001  
info@zumtobel.com.au  
zumtobel.com.au

## China

Zumtobel Lighting China  
Shanghai office  
Room 101,  
No 192 YIHONG Technology Park  
Tianlin Road, Xuhui District  
Shanghai City, 200233, P.R. China  
T +86/(21) 6375 6262  
F +86/(21) 6375 6285  
sales.cn@zumtobel.com  
zumtobel.cn

## Hong Kong

Zumtobel Lighting Hong Kong  
Unit 4319-20, Level 43,  
Tower 1, Metroplaza,  
223 Hing Fong Road,  
Kwai Fong, N.T.  
T +852/(0)2503 0466  
F +852/(0)2503 0177  
info.hk@zumtobel.com

## India

Zumtobel Lighting GmbH  
A 274, 1st Floor,  
Defence Colony,  
110024 New Delhi  
T +91/98 102 19 531  
enquiries.india@zumtobel.com

## Singapore

Zumtobel Lighting Southeast Asia  
5 Kaki Bukit Crescent,  
#04-02 Koyotech Building  
416238 Singapore  
T +65 6844 5800  
F +65 6745 7707  
info.sg@zumtobel.com

## United Arab Emirates

Zumtobel Lighting GmbH (Branch)  
Dubai Airport Free Zone,  
Building 6W, B Block, 233  
PO Box 54302  
Dubai  
T +971/(0)4 299 3530  
F +971/(0)4 299 3531  
info@zumtobeluae.ae

## Romania

Zumtobel Lighting Romania SRL  
Tipografilor 11-15,  
S-Park Office, Wing A1-A2  
013714 Bucharest  
T +40 312253801  
F +40 312253804  
welcome.ro@zumtobel.com  
zumtobel.com

## Hungary

Zumtobel Lighting Kft  
Váci út 49  
1134 Budapest  
T +36/(1) 35 00 828  
F +36/(1) 35 00 829  
welcome@zumtobel.hu  
zumtobel.hu

## Croatia, Bosnia and Herzegovina

Zumtobel Licht d.o.o.  
Radnička cesta 80 – Zagrebtower  
10000 Zagreb  
T +385/(1) 64 04 080  
F +385/(1) 64 04 090  
welcome@zumtobel.hr  
welcome.ba@zumtobel.com

## Serbia

Zumtobel Licht d.o.o.  
Karadjordjeva 2-4  
Beton Hala  
11000 Belgrade  
T +381/(0)11 65 57 657  
F +381/(0)11 65 57 658  
welcome@zumtobel.rs

## Czech Republic

Zumtobel Lighting s.r.o.  
Jankovcova 2  
Praha 7  
170 00 Praha  
T +420/(2) 66 782 200  
F +420/(2) 66 782 201  
welcome@zumtobel.cz  
zumtobel.cz

## Slovak Republic

Zumtobel Lighting s.r.o.  
Vlčie Hrdlo 1,  
824 12 Bratislava  
welcome@zumtobel.sk  
zumtobel.sk

## Poland

Zumtobel Licht GmbH Sp.z.o.o.  
Platinum III  
ul. Woloska 9a  
02-583 Warszawa  
T +48/(22) 856 74 31  
F +48/(22) 856 74 32  
welcome@zumtobel.pl  
zumtobel.pl

## Slovenia

Zumtobel Licht d.o.o.  
Štukljeva cesta 46  
1000 Ljubljana  
T +386/(1) 5609 820  
F +386/(1) 5609 866  
welcome@zumtobel.si  
zumtobel.si

## Russia

Zumtobel Lighting GmbH  
Official Representative Office  
Skakovaya Str. 17  
Bld. No 1, Office 1104  
125040 Moscow  
T +7/(495) 945 36 33  
F +7/(495) 945 16 94  
info-russia@zumtobel.com  
zumtobel.ru

## Norway

Zumtobel Belysning  
Hoffsveien 4  
Postboks 1025 Hoff  
0218 Oslo  
T +47 22 06 50 50  
F +47 22 06 50 52  
firmapost@zumtobel.com  
zumtobel.no

## Sweden

Zumtobel Belysning  
Birger Jarlsgatan 57  
11356 Stockholm  
T +46 8 262650  
F +46 8 265605  
info.se@zumtobel.com  
zumtobel.se

## Denmark

Zumtobel Belysning  
Indiavej 1  
2100 København  
T +45 35 43 7000  
F +45 35 435454  
info.dk@zumtobel.com  
zumtobel.com

## Headquarters

Zumtobel Lighting GmbH  
Schweizer Strasse 30  
Postfach 72  
6851 Dornbirn, AUSTRIA  
T +43/(0)5572/390-0  
F +43/(0)5572/22 826  
info@zumtobel.info

Zumtobel Licht GmbH  
Grevensmarschstrasse 74-78  
32657 Lemgo, GERMANY  
T +49/(0)5261 212-0  
F +49/(0)5261 212-7777  
info@zumtobel.de

## zumtobel.com



### Top quality – with a five-year guarantee.

As a globally leading luminaire manufacturer, Zumtobel provides a five year manufacturer's guarantee on all Zumtobel branded products subject to registration within 90 days from the invoice date and in accordance with the terms of guarantee at [zumtobel.com/guarantee](http://zumtobel.com/guarantee).

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