Dear Readers,

The latest work by Zaha Hadid, the Heydar Aliyev Center in Baku, is impressive architecture, and at the same time sculpture. Nothing was to disrupt the view of the structure. Nevertheless, the façade was to be impressively illuminated. To our great delight, they decided in favour of BEGA in-ground floodlights. To make these even less conspicuous, their surface was finished in the colour of the structure.

In Germany, BEGA also illuminates very special sleeping quarters: in the Hotel Franz in Essen, people with and without handicaps work together. Here, inclusion is not just an empty phrase; it is implemented in this hotel. You can find impressive proof of this in visitors’ ratings on the internet.

Now follow us to France. The cultural centre Les Quinconces plays host to two types of art: film and theatre. Not only the architecture, but also cylindrical pendant luminaires by GLASHÜTTE LIMBURG, guarantee a festive atmosphere in the theatre foyer.

We also have new products for you. We would particularly like to draw your attention to a new, economically interesting product with the name of PRIMA.

Heiner Gantenbrink
Heydar Aliyev Center, Azerbaijan

Sculptural architectural gesture in Baku on the Caspian Sea

The current President of Azerbaijan, Ilham Aliyev, has created a monument to his late father and former head of state – the Heydar Aliyev Center in Baku. Zaha Hadid won the architecture competition for this monument in 2007 with her extravagant design. On a floor area of 101,801 square metres, she has housed a museum, a library, a conference centre, an auditorium as well as cafés and restaurants in this cultural centre. The entire project required a land area of 111,292 square metres. This structure is intended to symbolise the social change and the economic success of the state. Azerbaijan has large oil and gas reserves. By signing the so-called „contract of the century” in 1994 – an agreement about production interests – the former head of state was able to tie globally operating oil companies to his country. Economic success was not long in coming.
The Heydar Aliyev Center is a monumental architectural sculpture in the capital of Baku on the Caspian Sea. Here, Zaha Hadid has succeeded in making an impressive architectural gesture: an enormously dynamic structure rises up from the ground surface like towering waves, without breaking through it. It provides an exciting alternation of upward and downward movements. Floor, wall and roof surfaces flow into each other and radiate in a uniform white colour in the strong sunlight. The sculpture contrasts strongly with the surrounding building structures. A symbol of change, of the new. The use of visually identical top materials for the architecture makes this possible. Depending on requirements, glass fibre reinforced concrete slabs or suitably reinforced synthetic elements are used. The 39,000 square metre roof and façade construction is borne by a space frame that rests on concrete elements. This design principle allows the creation of organic shapes with large unsupported spans. For the exterior lighting when it is dark, BEGA in-ground floodlights were used. They draw the façade out of the ground. Of the floodlights, only the bronze cover, finished in the colours of the building, protrudes above the ground. During the day, these luminaires are integrated almost invisibly into the architecture.
Our new LED pole-top luminaires were crowd-pullers at the Light + Building in Frankfurt. These luminaires are available with three light outputs. Their asymmetrical flat-beam light distribution is thus especially suitable for illuminating streets in accordance with DIN EN 13 201.

The lighting technology used here, with
an optimised efficiency level, is a further development of our patent-pending precision reflector technology. For this highly efficient lighting technology, we use only system components in reliable materials. These include Miro® reflectors made of reflection-intensive pure aluminium, anti-glare safety glass, as well as BEGA LED modules.

Combined with excellent heat management, they create the basis for age-resistant lighting technology. The luminaires have protection class IP 66 and safety class II. As well as use for new installations, they are highly suitable for modernising existing streets, as there is a choice of three light outputs. An ideal solution is the integration of these lighting tools in BEGA light control systems. We can supply you with suitable replacement modules for up to 20 years after the purchase of an LED luminaire. You can find further technical data, e.g. connected loads and luminous flux, at www.bega.com in the instructions for use for these luminaires.
LED recessed luminaires

for walls or stairs
for flush-mounted or surface-mounted installation

These luminaires are ideal for illuminating corridors, paths and staircases, both indoors and out. Thanks to their compact design, they can not only be used in walls, but can also be integrated in staircase risers. We have adapted the form and the design of the luminaires to match our LED technology exactly.

The slim luminaire frames, whose attachment screws are invisible, are highly distinctive. The unshielded luminaires 3096 - 3097 can be mounted horizontally as well as vertically.

There are three options for installing these recessed luminaires:

1. Installation with an installation housing. Here the front of the luminaire is located on the installation surface, e.g. with concrete walls.

2. A layer of plaster is applied to the brickwork. The luminaire is installed with the help of an additional plaster frame. Here too, the front of the luminaire is located on the installation surface.

3. The same principle as in Point 2. This plaster frame, however, allows the luminaire to be installed absolutely flush with the installation surface.

The long service life of the LED makes these luminaires highly cost-effective devices with very long maintenance intervals. We can supply you with suitable replacement modules for up to 20 years after the purchase of an LED luminaire.
Installation of the luminaire in a BEGA installation housing. The front of the luminaire is located on the installation surface.

Installation with additional BEGA plaster frame. Here too, the front of the luminaire is located on the installation surface.

With this BEGA plaster frame, the luminaire is installed completely flush with the installation surface.

The electrical connection is established before installation in the structure. The installed luminaire is then mounted securely in the structure or in the installation housing with our patented mounting system—Patent EP 0 388 180 C1.
In the last few decades, the Ruhr district has undergone an enormous structural change. Once strongholds of the steel and coal industries, many former industrial complexes have meanwhile been converted and opened up as cultural centres. The Ruhr district is increasingly developing into a tourist region.

The Hotel Franz, in Essen-Huttrop, is also following this trend. Built on the park-like grounds of the Franz Sales House, it still follows the charitable ideas of the institution, established in 1884, which originally evolved from a school for children with hearing impairments.
It has meanwhile become a many-faceted group that champions the equal participation of handicapped persons in social life. Members of the group include numerous companies which, with about 1400 employees, take care of the promotion, support, and care of about 2100 people with mental and psychological disabilities. This covers the fields of living, learning, working, as well as accompanying recreational activities. Help is given in accordance with the principle „As much independence as possible, as much support as necessary“.

The Hotel Franz is a subsidiary of the Franz Sales House. In the hotel, integration is a genuine experience. Half of the 48 employees are handicapped, and their abilities are integrated accordingly in the everyday running of the hotel. Since many guests book the hotel via portals on the Internet, they are often unaware of this inclusion concept. When, at the end of their stay, the guests are asked by the employees if everything was in order, the guests are regularly impressed by the cordial atmosphere in the hotel. They are even more enthusiastic when they find out about the particular concept of the hotel. This rightly fills all of the workers with pride.

It is a precondition in such a service-oriented environment that all of the technical equipment should work properly. This is why BEGA 8619 LED bollards are used to illuminate the paths and the entrance area of the hotel.
In the design and furnishings of the hotel, importance was paid to absolute accessibility and freedom from barriers. For example, there are corridors specially made wider for wheelchair users, and generously dimensioned rooms with specially adapted interiors. The high-contrast colour designs of floors and walls are of particular benefit to persons with visual impairments. Symbols and guiding lines help the mentally handicapped, „Light bells“ and visual alarm systems have been installed for the deaf. Furthermore, the reception area and the function hall have been equipped with hearing induction loop systems. Mobile devices can also be borrowed. Attention zones on stairs and railings give blind people valuable orientation. Relevant information is either announced or communicated in braille. The list of everyday aids goes a good deal further. Many of these are also appreciated by non-handicapped guests: in this hotel, bulky items of luggage or prams do not represent a problem. Especially older
people feel safe and comfortable in such an environment. The exterior lighting also makes a significant contribution, since larger outdoor surfaces are illuminated uniformly and without glare by using our BEGA 7172 LED pole-top luminaires.

A large proportion of the energy used in the hotel comes from the solar plant on the roof. It can produce up to 60,000 kWh of electricity a year, replacing the emission of about 33 tonnes of CO₂. This means that it covers the basic energy requirements of all installations on the grounds of the Franz Sales House. A comparison: with one hour of direct sunlight, the plant produces as much electricity as a single-family house requires on 22 days.
Les Quinconces Cultural Centre in Le Mans

A structure in the centre of the city between the Palais des Comtes du Maine, event areas and the Cathédrale Saint-Julien
The cultural centre in Le Mans combines two types of art – film and theatre. The architecture symbolises this at one glance. Two volumes located beside each other are connected by a horizontally aligned roof. One volume is covered in white stone and houses the cinema. The other structure has a glass façade on which vertical strips are mounted at irregular intervals. In this part of the structure, cylindrical pendant luminaires by GLASHÜTTE LIMBURG are installed at different heights. This gives the high room of the foyer an imposing and festive appearance – just right for an evening at the theatre. The semi-transparent glass façade transports this atmosphere outwards and attracts the visitors from afar.
STR Downlights

LED recessed ceiling luminaires in three designs for remote power supply units

Our new series of LED recessed ceiling downlights is available in three designs. With their different light outputs, these downlights contribute to the solution of planning problems. The light distribution ranges from narrow beam to broad spread, or is adjustable. Our luminaires are always fitted with LED modules that we produce ourselves. Their minimum service life is 50,000 operating hours. We provide a 20-year availability guarantee for LED modules in order to give you planning security. The use of high-quality and ageing-resistant materials, good thermomangement of the luminaires, and a high level of workmanship, make these luminaires lasting investments.
The luminaires can be connected comfortably and quickly to the matching power supply units with colour-coded connectors. This advantage is particularly noticeable in the installation of large-scale lighting systems. Power is supplied through standardised plug-in connectors. Malfunctions can thus be practically ruled out.
Dual light distribution
A photometric system for three luminaire types

Besides the LED module, the heart of these luminaires is a special crystal glass. Its optical properties make it something special. It combines an outer milky ring with a clear, curved part in the centre, which has been ground with facets. The reflector encompasses this curve. In this way, the main share of light is directed towards the floor. The milky ring of the glass remains above the reflector and directs soft light vertically. This dual light distribution, of directed light and soft dispersed light, creates a harmonious level of illumination, and a high degree of visual comfort. We have fitted this focusing / dispersing lens in three luminaire types whose form languages harmonise with each other: recessed ceiling luminaires, ceiling luminaires, and pendant luminaires. These can deal with a large number of design tasks. The luminaires are each available in different, practical sizes with different outputs for more flexibility in the planning of lighting systems. We offer the
luminaires in three material variants – white, stainless steel, and polished aluminium. With our LED luminaires, you can choose between colour temperatures of 3000 K or 4000 K. Our LED modules are designed for 50,000 operating hours. To provide planning security, we guarantee that even 20 years after buying an LED luminaire, you will still be able to obtain replacement modules from us.
Without trim ring

PRIMA
Cost-effective LED ceiling and wall luminaires

Wherever good light is required in an uncomplicated and tasteful manner, that is where PRIMA feels at home. Long corridors or stairwells are ideal. Whether from the ceiling or the walls: PRIMA illuminates the rooms with soft light. This lighting tool is equipped with cost-effective and durable LED modules that we produce ourselves, thus guaranteeing planning security. We guarantee that you can buy the LED modules through our company for 20 years after you bought the LED luminaire. You can choose from light colours of 3000K and 2700K.
Satin matt hand-blown opal glass ensures soft light and a high level of visual comfort. The luminaire glass is screwed to the fitting with a bayonet closure. For optimum adjustment of the luminaires to the interiors of the rooms, we offer trim rings, made of metal, as accessories, with three different enamel finishes: white, palladium and glossy silver. There are two luminaire sizes in the programme. For each size there are two output levels. The spectrum ranges from 8.7 W with 1160 lm to 27.8 W with 3725 lm. Some models can be dimmed using DALI. As a special feature, all luminaire sizes are optionally available with an invisible, integrated motion sensor. The spectrum of features of the new PRIMA extends their range of applications for the modernisation of existing buildings, as well as for the planning of new buildings.

PRIMA
1132 LED 8.7 W 1160 lm ≥250 mm 5154 5155 5156
1133 LED 12.4 W 1679 lm ≥250 mm 5154 5155 5156
1138 LED 17.4 W 2380 lm ≥350 mm 5157 5158 5159
1139 LED 27.8 W 3725 lm ≥350 mm 5157 5158 5159

PRIMA • with motion sensor
1136 LED 8.7 W 1160 lm ≥250 mm 5154 5155 5156
1137 LED 12.4 W 1679 lm ≥250 mm 5154 5155 5156
1142 LED 17.4 W 2380 lm ≥350 mm 5157 5158 5159
1143 LED 27.8 W 3725 lm ≥350 mm 5157 5158 5159

PRIMA • dimmable with DALI
1140 LED 17.4 W 2380 lm ≥350 mm 5157 5158 5159
1141 LED 27.8 W 3725 lm ≥350 mm 5157 5158 5159

Trim ring • white • palladium • glossy silver
Light for the house and the garden

LED in-ground luminaires resistant to foot traffic with symmetrical or asymmetrical light distribution

Well-illuminated private grounds make a friendly and inviting impression. The beauty of the garden and its architectural details can still be experienced at dusk and when it is dark. At the same time, the light contributes to safety. Light emanating from the ground can set an exciting accent. Depending on the application, symmetrical or asymmetrical light distribution is required. Accordingly, we have developed two types of luminaires. The round LED in-ground floodlight is available for both types of light distribution. These luminaires are ideal for illuminating trees, shrubs or objects in the garden. At the same time, they accentuate architectural details.
To illuminate façades and wall surfaces, or large-area plants such as hedges, rectangular LED in-ground floodlights with asymmetrical light distribution are to be recommended. A material combination of glass fibre reinforced polyamide for the luminaire housing, and stainless steel for the cover frame, has proved successful. These luminaires are resistant to foot traffic and can be installed in the ground without drainage or foundations. The luminaires are fitted with LED modules, which we produce ourselves, and are designed for at least 50,000 operating hours. We guarantee that you can buy the LED modules for 20 years after you bought the LED luminaire. The light colour is warm white, 3000 K.
An information brochure from
BEGA - LIMBURG - BOOM
Editorials + Design: BEGA

BEGA
Postfach 3160 - 58689 Menden
Hennenbusch - 58708 Menden
Germany
Tel. +49 2373 966 - 0
Fax +49 2373 966 - 260
exporte@bega.com · www.bega.com

GLASHÜTTE LIMBURG
Postfach 1463 - 65534 Limburg
Glashüttenweg - 65549 Limburg
Germany
Tel. +49 6431 204 - 0
Fax +49 6431 204 - 104
info@glashuette-limburg.com
www.glashuette-limburg.com

BOOM Buitenverlichting N.V.
Rijksweg 5 - 2870 Puure - Belgium
www.boom-luminaires.com