Dear Reader,

we invite you to accompany us through changing architectural dimensions. In Spain, an enormous structure is being developed: the „Ciudad de la Cultura“, the city of culture in Santiago de Compostela. In addition to the already opened archive for Galician literature and the library, a Galician museum, an international House of Art, a Centre for Music and Theatre, and a general cultural centre are already being planned. Some are already being built. The entire area covers almost 690,000 square metres. However, numerous changes in Galicia’s government have led to serious delays in construction. This is why one of the architects compared himself to a „homebuilder between a divorce and a wedding“. It will take some time before the Ciudad is finished, but when it is, it’s likely to become a new shrine for people interested in culture worldwide. Next we switch from monumental structures to a smaller architectural scale in private rooms. Here we discuss the topic of BEGA LED technology for the house and the garden. We have developed new LED luminaires with warm white light especially designed for private use. Then, we will visit a partnership in Denmark and the public prosecutor in Frankfurt upon Oder. In both cases, luminaires by GLASHÜTTE LIMBURG solve the lighting tasks.

Heiner Gantenbrink
The city of culture in Santiago de Compostela

Santiago de Compostela and the pilgrimage route ("The Way of St James") leading to it have recently enjoyed increased publicity and greater media exposure. Books have been published by well-known authors, and in particular by celebrities, about the meditative experience they discovered on the pilgrimage route. Their efforts are documented in talk shows with photos and film recordings. In the Middle Ages, however, proof that one had covered the entire distance was a scallop ("St. James' mussel") hung round one's neck. This was supposed to protect the returning pilgrim from evil, and thus became the symbol of the pilgrims. This symbol has now acquired a special meaning for architecture. In 1999, the Galician government decided to develop a further landmark for Santiago de Compostela, one that was to become a cultural destination for pilgrims – Ciudad de la Cultura. To this end, a two-stage architectural competition was initiated. After the first public tender, eleven architects' offices proven able to fulfill the requirements of a project of this scope and magnitude were invited to participate in the second stage of the competition. Peter Eisenman won this competition with his draft, which was originally based on the form of a scallop.
The city of culture in Santiago de Compostela
The immense building project on the Monte Gaiás hill outside Santiago integrates itself into the undulating Galician landscape by virtue of its deconstructivist structure. Light quartz is used as the dominating building material. The planned gross floor space was 150,000 square metres. The concept provides for six building parts: a Galician museum, an internationally oriented house of art, a general cultural centre, a library and an archive, as well as a centre for music and theatre. Narrow incisions subdivide the amorphous ensemble of buildings into these six areas.

So far, the archive and the library have been completed. From the car park, the visitor is accompanied by numerous BEGA bollards showing the way directly to the main entrance. There one enters a gorge lined by arcades and projecting edges that reflect the architecture of the historic centre of Santiago. Just after this gorge, a spacious square opens up. Rooftops in the city of culture spiral upwards at different angles.

The apparently random shapes of the amorphous buildings are subject to a strict hierarchical principle. A grid of 16 x 20 metres with 1.2 metre wide square columns at the intersections bears the load of the entire construction. In addition, a further grid of 8 x 8 metres rotated by 7° is placed over the first system. This square grid has been designed in 60 cm wide strips at the roof levels of the mass of buildings.
The city of culture in Santiago de Compostela
The spectacular structures follow the direction of motion of the surrounding hilly landscape, with curved façade edges facing towards the roof surfaces. Here too, the volumes are based on a strict principle of vertical and horizontal lines, which connects with the surface grid. Imaginary cubes appear and are made clearly visible on all façades, whether of glass or quartzite. Without the help of computers, such a consistent implementation of this three-dimensional grid, down to the last structural detail, would not have been possible. After all, the entire grounds have an area of 690,000 square metres. After sunset, numerous BEGA products are responsible for the lighting. The effect of the in-ground floodlights is particularly imposing. The architecture, with its projections and its many different surface structures, seems to be remodelled and intensified by light emanating from the ground.
The city of culture in Santiago de Compostela

When it is completed, the Ciudad de la Cultura will have five generously dimensioned pedestrian zones, all of which lead into a spacious square. Shopping areas and galleries, as well as restaurants and cinemas, will line these boulevards. Here and there you can find areas with stairs that are illuminated by BEGA recessed luminaires. A park also invites visitors to go for a walk.

Provision is made for about 250,000 square metres for these areas. The dimensions of this City of Culture are comparable with those of the historic centre of Santiago.

2165  LED  5.6 W  450 Lumen  190 mm x 60 mm
2362  LED  6.2 W  700 Lumen  280 mm x 90 mm
2357  LED  9.2 W  880 Lumen  320 mm x 90 mm
2256  1 C025  25 W  190 Lumen  190 mm x 90 mm
2130  1 TS-S  5 W  250 Lumen  190 mm x 90 mm
2131  1 TS-S  9 W  690 Lumen  280 mm x 90 mm
2132  1 TS-S  11 W  900 Lumen  320 mm x 90 mm
One could think that the Ciudad de la Cultura was competing with Santiago – far from it: from the Monte Gaiás one has a wonderful view of Santiago de Compostela, where one is torn between historical and modern sights. So far, most of the visitors to the City have been religious pilgrims. For the future, the region now offers a new attraction.

However, it will take some time until construction is finally completed. When this large-scale project was planned at the end of the nineties, in times of economic prosperity, nobody was thinking of a financial crisis. Today, however, the economic situation has become difficult, making these sorts of expensive large-scale projects subject to more scrutiny and sometimes severe criticism. At the moment, the Ciudad de la Cultura is pure luxury for the government and the taxpayer. Since the government coffers are empty, investment intervals will probably become longer and construction progress will be delayed. In the long term, however, the new cultural centre will be a benefit for the region and will become a platform for the internationalisation of Galician art. As many as 100,000 visitors came in the first three months after the centre was opened. The Ciudad de la Cultura seems to be moving in the right direction, and could in time become another destination for pilgrims.
There is a widespread view that LED light is cold. The automobile industry unintentionally aroused this now commonly held belief with cold white daytime driving lights. In the meantime, however, LED technology has advanced so much that any light colour can be achieved. For our products, three colour temperatures have proved to be practical: daylight white with 5000 K, neutral white with 4000 K and warm white with 3000 K. For the private user who would like to illuminate his house or his garden, we offer luminaires with the light colour 3000 K, specifically for this purpose. Here we need light that creates a pleasant and warm mood. All of the models in this series use the same light colour (3000 K) and are exactly matched to each other.
Our luminaires have set standards for many years in terms of lighting technology, design, material quality and workmanship. This applies to our LED technology as well. Our LED modules are designed for at least 50,000 operating hours. After this period, the module is not destroyed but continues to function, and still shines with at least 70% of its initial brightness. But what happens after the end of the service life of an LED? Who supplies the replacement for this electronic component? Unlike conventional lamps, which have clearly defined connection standards, LEDs are integral components of luminaires. Accordingly, it is difficult to obtain suitable LED replacement modules without specialised knowledge.

As a responsible manufacturer, we have solved this problem for our customers. Even today, an LED designation in each luminaire gives exact information about the modules installed. We guarantee our customers that even 20 years after buying an LED luminaire, they will still be able to obtain replacement modules from our association of companies.
LED - Light for the house and the garden

Good lighting allows one to truly experience the landscape after sundown. When exterior lighting is switched on at dusk, the appearance of a garden can be magically changed. Accents of light surround plants that went quite unnoticed in daylight. The eye perceives what has already been in a fascinating new way. Even in the dark, the entire grounds remain perceptible, making one feel safer.

We have developed a new in-ground floodlight especially for private applications. It is resistant to foot traffic and can be installed directly in the ground without a recessed housing, drainage or foundation. For connection to the underground cable we offer an absolutely waterproof distribution box as an accessory. As with all BEGA in-ground floodlights, the stainless steel sealing ring is flush with the glass. This prevents dirt and water from accumulating.
Successful lighting of the garden of course also includes the lighting on the house. The examples of wall luminares shown here shed a soft light upwards and downwards. The light is glare-free and thus ideal for entrance or terrace and courtyard situations. The timeless design goes with practically all architectural styles. We attach just as much importance to sturdy functionality and attractive design for luminares for private users as we do for our other products.
The new BEGA garden luminaires achieve their impressive effect especially at the edge of a pond or in a flowerbed. We have the right product for every application. Shielded light allows the luminaire to fade into the background, and puts the focus on its surroundings. If you want to place specific points of lights as accents in your garden, unshielded luminaires are the ideal solution. They shed their light into their surroundings, and invigorate the garden at night thanks to their luminescent glass.
During the day, these luminaires blend into their surroundings and let the plants take precedence. It should be emphasised that each garden is unique. Stationary luminaires, in particular, are ideal for defining paths and structuring a garden. Our luminaires can also be used for marking seats and benches, or even as part of a vegetable garden border. Their unobtrusive form allows them to be used in practically any type of garden. For the easy installation of bollards we supply either an anchorage unit which is installed with some concrete, or a base plate for bolting to a foundation.
LED - Light for the house and the garden

A garden is subject to constant seasonal change. Changes in the plants must also be taken into consideration. It is therefore a question of being able to react flexibly with the lighting. Minor adjustments can be carried out quickly. However, when the requirements change, for example in the event of a garden fête, it is also possible to react quickly with portable garden luminaires. They are fitted with a five-metre-long connecting cable. This makes it easy to match the portable luminaires to the lighting requirements in the garden.
The new BEGA compact floodlight makes it even easier to focus the light on garden areas and parts of buildings. This luminaire is available in three different versions. With a mounting box it is suitable for stationary use, and with an earth spike or clamping screw it can be used in variable locations. The range of portable luminaires is supplemented by a connecting pillar specially designed for private applications. We will be presenting all of the products for the house and the garden in a separate catalogue at the beginning of 2012.
Recessed luminaires in the interplay of interior furnishings

The Danish law firm Bruun & Hjejle can look back on a past steeped in tradition, going back to the year 1878. Since 2009 the law firm has been run in the current constellation of Jonas Bruun and Hjejle Gersted Mogensen. The focus is now on clear leitmotifs: integrity, collective responsibility and quality. The law firm is nationally as well as internationally oriented, and cooperates with partnerships in Europe and the USA.

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Lumen</th>
<th>CRI</th>
<th>Beam Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>6998</td>
<td>4.0 W</td>
<td>445 Lumen</td>
<td>80</td>
<td>80°</td>
</tr>
<tr>
<td>6999</td>
<td>5.5 W</td>
<td>625 Lumen</td>
<td>80</td>
<td>110°</td>
</tr>
<tr>
<td>6990</td>
<td>13.0 W</td>
<td>900 Lumen</td>
<td>80</td>
<td>145°</td>
</tr>
<tr>
<td>6901</td>
<td>30.0 W</td>
<td>2300 Lumen</td>
<td>80</td>
<td>220°</td>
</tr>
</tbody>
</table>
The company has nearly 200 employees. The employees are expected to have broad legal knowledge in addition to their special fields in order to guarantee top consultation quality. As one of the leading law firms in Denmark, it represents the concept of customer-oriented mandate processing. The same contact persons, mainly responsible for coordinating the handling of cases or for consultation, create confidence in partnership-based cooperation with the clients. These quality standards in work are manifested in the interior furnishing of the law company. Modern, high-quality furniture meets classics, ceiling-high glass walls enclosed in aluminium frames are combined with discreet stucco on ceilings and walls. On the corridor ceilings, recessed luminaires by GLASHÜTTE LIMBURG radiate simple elegance.
Surface-mounted ceiling luminaires round off the interior

Everywhere in the building of the law firm, historical details have been preserved or carefully renovated. Warm, light colours dominate the rooms. Contrasts are created by the furnishings. The decoration and furnishings show attention to detail, and in their stylistic entirety radiate competence and authority. As a client, one feels that one is in good hands.
Generously dimensioned rooms are inviting and communicative. Luminaires by GLASHÜTTE LIMBURG are installed in a circle on the high ceiling. Most of the light from these surface-mounted ceiling luminaires is projected directly downwards. A small proportion of the light is shed into the room and onto the ceiling through a recess in the reflector. This creates a pleasant basic level of brightness. The structure of the reflector is visible through the clear crystal glass. When the light is switched on, attractive light effects become apparent on the metal and at the edges of the glass. The luminaire housing is made of stainless steel.
Since last summer, the public prosecutor’s office in Frankfurt upon Oder has been located in an architectural example from the twenties. The five-storey building, which had been planned as a regional and local court by the Prussian government, was inaugurated in 1933. History took its toll on the building. Now, finally, it has been restored to its former glory. When the public prosecutor moved in, 5,500 shelf metres of files and 200 cubic metres of shelves had to be moved. The central location in the building is the circular stairwell. This is illuminated by a delicate light sculpture made of cylindrical opal glass by GLASHÜTTE LIMBURG.
Building owner: Bambergerischer Landesbetrieb für Leisenscheiden und Bauen, Frankfurt/Oder
Architecture, Project management: SEIK Architektur, Berlin
Electrical planning: Jenisch & Schrank, Frankfurt/Oder
Electrical installation: Kranitz Elektrobedarf GmbH, Wendisch-Rietz
Photography: Mai Schütz, Mühlen an der Ruhr

5472 1 TC-3EL 18 W 1200 Lumen Ø 80 mm H 300 mm
5473 1 TC-3EL 25 W 1800 Lumen Ø 110 mm H 300 mm
5474 1 TC-L 36 W 3000 Lumen Ø 140 mm H 630 mm
5475 2 TC-L 40 W 7000 Lumen Ø 160 mm H 850 mm
5489 2 TC-L 55 W 9000 Lumen Ø 160 mm H 700 mm
5490 3 TC-L 80 W 15000 Lumen Ø 220 mm H 800 mm
4911 1 Lampe 75 W 935 Lumen Ø 90 mm H 300 mm
4912 1 Lampe 150 W 2160 Lumen Ø 110 mm H 400 mm
An information brochure from
BEGA · LIMBURG · BOOM
Editorials + Design: BEGA

BEGA
Postfach 3160 · 56699 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 Puurs · Belgium
www.boom-luminaires.com