

LIGHTLETTER by Hess

HOME IS WHERE THE **WLAN** IS





Dear Sir or Madam,

When you think of outdoor lighting, do you think of WLAN hotspots, of electromobility or of sensors that measure the traffic flow or particulate matter pollution? No?

With our "LIGHTLETTER" we consciously devote ourselves to these topics – and show how multifunctional luminaires can create a SMART infrastructure with real added value.

The current issue is dedicated to the topic of WLAN. Life in the city and in a municipality is increasingly taking place in public spaces and the availability of the Internet is regarded as a matter of course – regardless of where one is. With freely accessible and fast WLAN, this expectation is met. In our LIGHTLETTER, we will present you with a wide range of options for implementing a freely accessible WLAN and integrating it perfectly into outdoor lighting.

The community of Willstätt also addressed the topic of WLAN. What's more, within the framework of the new design of the "Mill site", a lighting concept was implemented that atmospherically stages the new mill building and the surrounding area. For this purpose, different luminaires, multifunctional components and – as a very special highlight as part of the illumination of the building – the projection technology were perfectly combined.

Let's talk about a further "flagship project". Everyone knows the new test tower from thyssenkrupp. In February 2019, the illumination of Rottweil's new landmark celebrated its première. We can say with pride that we were entrusted with its implementation and were responsible for the illumination of the test tower. You can look forward to the reference report and many lasting impressions.

This and many more topics await you in the first issue of our magazine.

We hope you enjoy reading our Lightletter.

Best wishes,

Hess GmbH Licht + Form

Dr. Ernst Smolka
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i.V.
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THERE ARE LIGHTS THAT MAKE TRANQUILITY VISIBLE.

Oliver W. Schwarzmann, Economic poet

8 SMART CITY | WLAN

8 „Home is where the WLAN is“



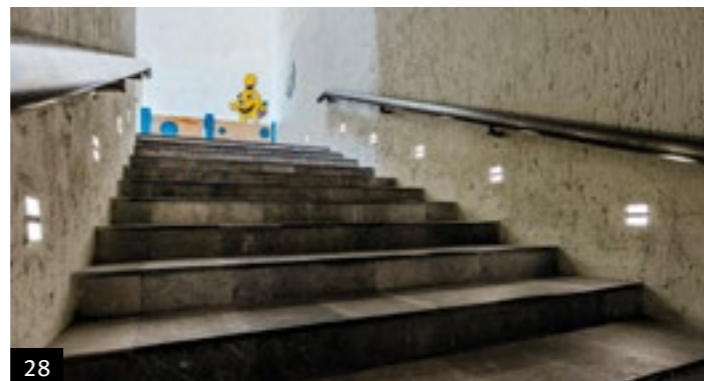
16 REFERENCE PROJECTS

- 16 Site of the old mill, Willstätt (DE)
- 24 Belforter Platz, Leonberg (DE)
- 26 Amp&rsand, San Diego (US-CA)



28 HESS NEWS

- 28 New recessed wall luminaires | TRACE & URBAN
- 30 LED KITS – LED flush-mounted luminaire heads
- 32 Quality management system
- 34 Hess outdoor display | Highlights



ARCHITECTURAL LIGHTING 38

- Philharmonic Concert Hall, Yekaterinburg (RU) 39
- thyssenkrupp test tower, Rottweil (DE) 40



GENERAL 46

- Nordeon Group 46
- Events 47
- Imprint 47

Home is where the WLAN is

The wireless local area networks are a prerequisite for connecting to the world of the internet with mobile telephones, tablets and laptops – ideally from anywhere and at any time.

In the following section, we present you with the reason WLAN is so important and the possibilities of making WLAN available in public spaces.



Home is where the WLAN is

A day without Internet? For most of us, it's hard to imagine. That's because the Internet has become an integral part of daily life, something that is now indispensable.

Whether for booking trips, watching videos, transferring money, reading the news or just chatting: A connection to the Internet has become a basic need for the majority of the population and is always in demand everywhere.

BE SMART – The Internet provides convenience and flexibility

Think beyond the simple search function. The Internet offers an enormous number of possible uses and a high level of convenience. You forgot to turn off the lights when you left the house. No problem.

Intelligent Smart Home systems can provide assistance, since they generate information through data acquisition, storage, analysis and further processing that enables remote control of physical end devices.

This allows residents to switch off the lights in their home, regardless of where they are at the moment.

In this day and age, heating systems, shutters and much more can also be controlled according to the same principle. However, all of this requires a connection to the Internet.

This example shows how access to the Internet and its availability makes everyday life easier and increases the flexibility of our daily routines.

A modern, smart home without the World Wide Web is almost unimaginable these days; it is simply taken for granted and indispensable.

Accordingly, no one wants to limit themselves to having and using the Internet only within their own four walls. Many people simply want the convenience of being able to go online any time and anywhere in order to enjoy the advantages and benefits of the Internet constantly and without geographical restrictions.

Movies and TV series are watched on the go, music is streamed, a route is called up using Google Maps, and cashless payments are made at the checkout using a smartphone. It's all very convenient and easy.

The basic prerequisite for these services is high-speed Internet that's always available. However, if you want to use all of these options and surf on the go in Germany, be prepared to shell out a good deal of cash, because in comparison to other European countries, Germany is far behind when it comes to consumer-friendly prices for mobile data use.

Apart from this, insufficient data volume is a problem for many people, particularly the younger generations. This is precisely where freely accessible public WLAN comes into play.

Public WLAN – free Internet for everyone!

Public WLAN in cities and municipalities has the potential to advance the digitalisation of our society and to strengthen Germany as a location for business.

Public spaces and life in general thus increases in quality and attractiveness through the creation of places to socialise and spend time and through fostering of communication and networking. Life in our cities and communities is more diversely structured and takes place in parks, squares, shopping areas and promenades.

The provision of WLAN, and thus access to the Internet in public spaces, can improve the conditions under which residents live on a lasting basis and shift their accustomed way of life from their homes to public spaces.

People's perception of being at home is transferred to urban spaces – to wherever the Internet is available.

EXCURSUS

When talking about WLAN, very special keywords are inevitably used. In the following, we present these terms or technical necessities and briefly explain them.

WLAN / WIFI

The name stands for **Wireless Local Area Network** and describes a radio network with a limited range. A router provides the WLAN via an access point, enabling wireless connection of terminal devices to the Internet.

WiFi, on the other hand, is a label or brand name. Devices labelled "Wireless Fidelity" (WiFi) are capable of receiving WLAN.

Router

A router connects to the Internet through an Internet service provider. Devices connected within this WLAN can use the Internet connection.

LTE

LTE stands for "Long-Term Evolution" and designates the mobile communications standard of the 4th generation, which is why it is often referred to as 4G. Through data transfer rates of up to several hundred megabits per second (Mbit/s), LTE enables fast surfing for the mobile Internet. It also enables better network coverage.

Access point

An access point is also known as a wireless access point or a base station. The device is normally located in an office or a large building. The access point can be connected to a router with a LAN cable and transmits a WLAN signal to a specific area.

POE

"Power over Ethernet" is a standard that allows network devices to be powered directly over the network cable. As a result, WLAN access points no longer need a power connection in the vicinity but can be located anywhere, regardless of where the electrical outlets are located. A so-called PoE injector provides power to the device.

Landing Page

A landing page is a website that a user accesses through an external link, search engine or advertisement. The site serves to encourage the user to take a specific action, such as to agree to terms and conditions previously defined by the operator.



WLAN – What is it and how does it work?

How can the internet be accessed in public spaces, and what does “WLAN” or “WiFi” really mean?

Both “WiFi” and “WLAN” describe access to data or the Internet through a wireless network. This requires a router that provides the wireless network while also establishing a connection to an Internet provider. Users are thus routed to the Internet, and a free Internet connection is made available to them.

Not just WLAN users but also cities and municipalities benefit from this, because a great deal of data can be generated by these WLAN connections.

This data, which we emphasize is made anonymous, provides information such as where and when people spend their time and for how long.

For its part, the city or municipality can use the data to make investments in leisure facilities in a targeted manner, for example, and thus deliberately increase the attractiveness of public spaces for its residents.

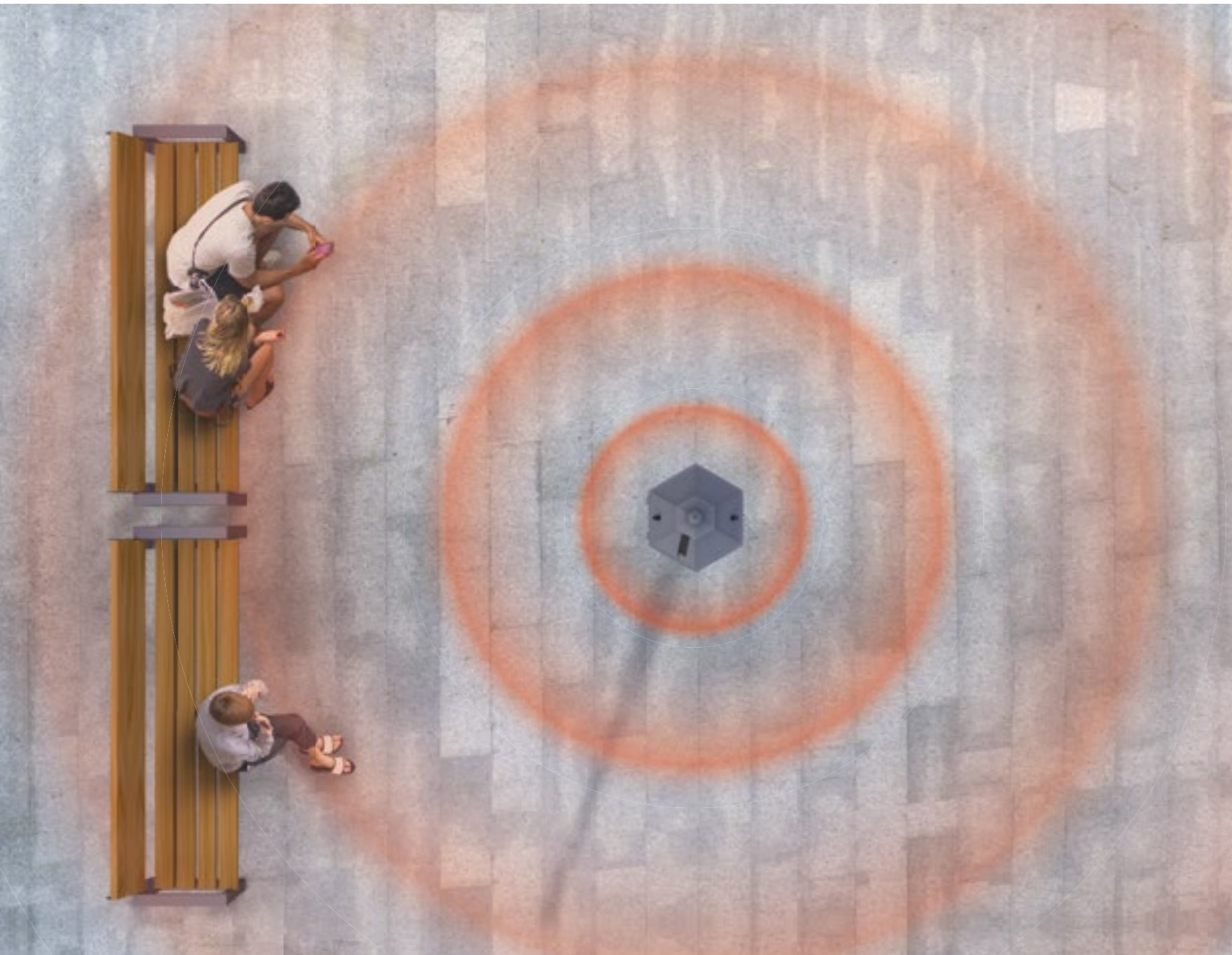
With its smart solutions, Hess has set itself the goal of transferring to public spaces the sense of well-being that comes from being at home.

True to the Hess slogan of “Enhancing urban spaces”, Hess ensures that WLAN is perfectly integrated into the outdoor lighting. This perfect integration is such that no installations that could impair the cityscape are required apart from the luminaire needed for light.

The integration is also perfect because the use of high-quality components offers maximum performance, enabling a high level of reliability and a problem-free connection to the World Wide Web to be provided at all times.

Hess thus makes cities and municipalities into the living rooms of their residents.

This is all the more reason why: Home is where the WLAN is.



Outdoor luminaires are everywhere in urban spaces and therefore perfectly suited to provide additional benefits. With the integration of WLAN and its provision, the attractiveness of public spaces is increased.

WLAN in cities and municipalities – elegantly integrated into outdoor lighting. This means that no further installations are necessary. The logical consequence is a tidy outdoor space and greater diversity – especially in the use of public space. This can be implemented in a wide variety of ways:

1 Access point

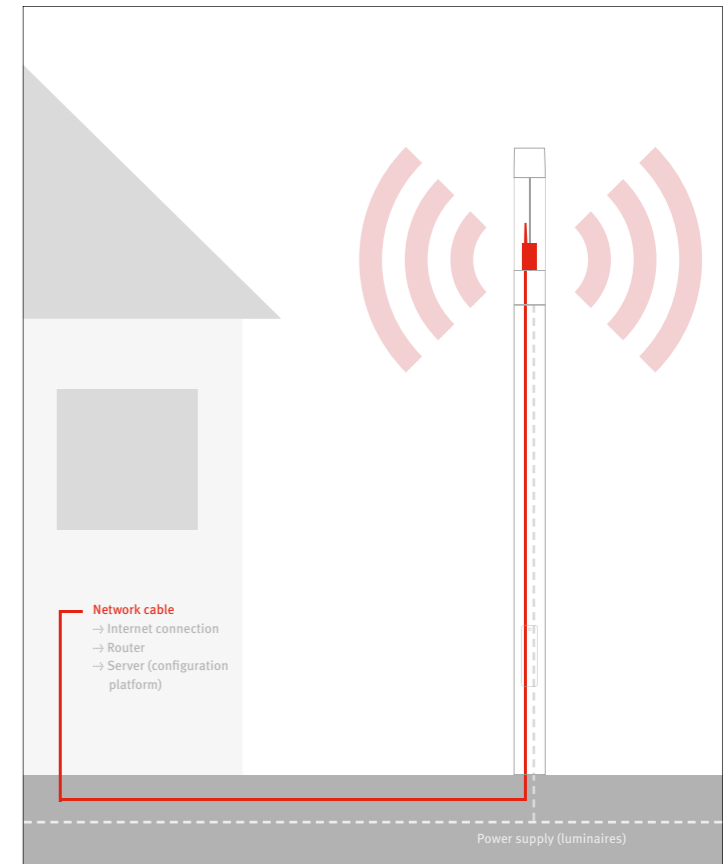
A WLAN access point is integrated into the luminaire. It is also referred to as a WLAN base station. The power supply and Internet feed for this access point is provided with an eight-wire network cable.

This requires that the city or municipality provide an Internet connection (as a rule, a separate broadband cable must be laid), a router, and a configuration platform (server). The operator of the WLAN enables management in the form of a landing page which, among other things, makes it possible for users to log in and have their attention drawn to the general terms and conditions.

In addition, the operator is responsible for data privacy and all measures relating to the topic of “liability for interference”. The operator can be the city or municipality itself or a telecommunications service provider, for example.

This variant is ideal for smaller areas in which service is largely provided at individual points. The best case scenario is when these individual points are close to a telecommunications connection.

This makes it possible to install the necessary hardware in a nearby building or telecommunications distribution box.



2 Mesh Network

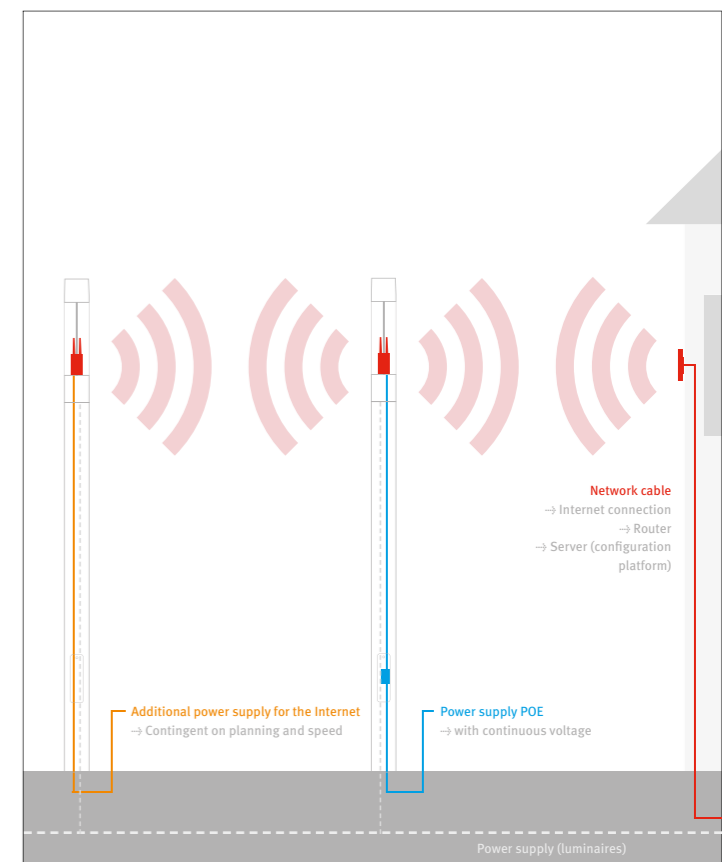
Compared to provision through an access point as described under variant 1, using a mesh network allows a considerably larger area to be provided with WLAN.


With a mesh network, data communication takes place between the individual luminaires, that is, specifically between the access points they contain. This ensures that data can be used seamlessly over a large area without any problems.

The user of the Internet is optimally provided with WLAN from the nearest luminaire with the best signal.

As with variant 1, the power supply and the network connection are provided through a network cable. Depending on the planning of the network coverage, either just a power supply or just an additional Internet infeed is necessary.

The same parameters as listed under variant 1 apply to the provision. This variant is particularly suitable for spaces where, as mentioned, coverage over a large area with several infeed points is to be provided.



With SMIGHT  (SMART CITY LIGHT) – a business segment of EnBW (Energie Baden-Württemberg AG) – as a professional partner for Smart City solutions at its side, Hess offers two comprehensive “All-in-One Packages”.

3 ALL-IN-ONE BASIC PACKAGE

With the basic package, the city provides its own Internet connection (fibre optic / 2-wire cable / cable connection). Configuration and operation is carried out on an encrypted server with user login and landing page.

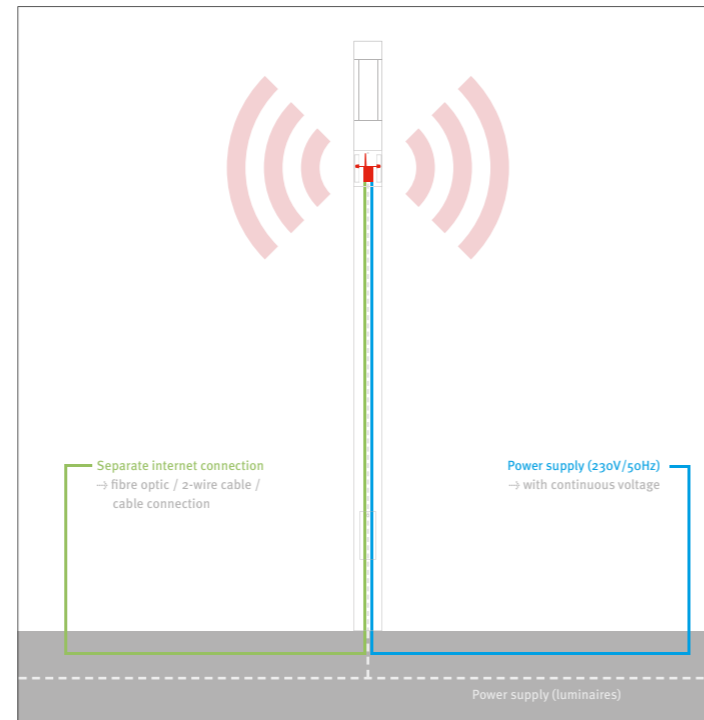
Commissioning and configuration, along with the landing page, are managed by Hess. At the customer’s request, this landing page can be customised – with the logo of the city or the operator, for example.

Integration into existing street lighting can save enormously on administrative effort and expense for the infrastructure provision and operation of WLAN locations. Costs for Internet access, electricity and façade work would be eliminated, and effort would be saved in obtaining agreements from owners, which would be necessary if the hotspots were installed on buildings belonging to a community of owners.

This “All-in-One Package” is suitable for seamless WLAN over an entire area. Filters that block content inappropriate for minors are also always kept up to date in order to keep the public away from content that contains pornography or glorifies violence.

The data and device management of the luminaires is controlled through our partner’s central server. Using this server, anonymous data can be collected, analysed and visualised using tables and graphics.

In addition, our partner is responsible for all comprehensive services relating to the operation of the system. The detailed data analyses serve purposes such as the provision of important information and argumentation aids for further urban development planning.



4 ALL-IN-ONE PREMIUM PACKAGE

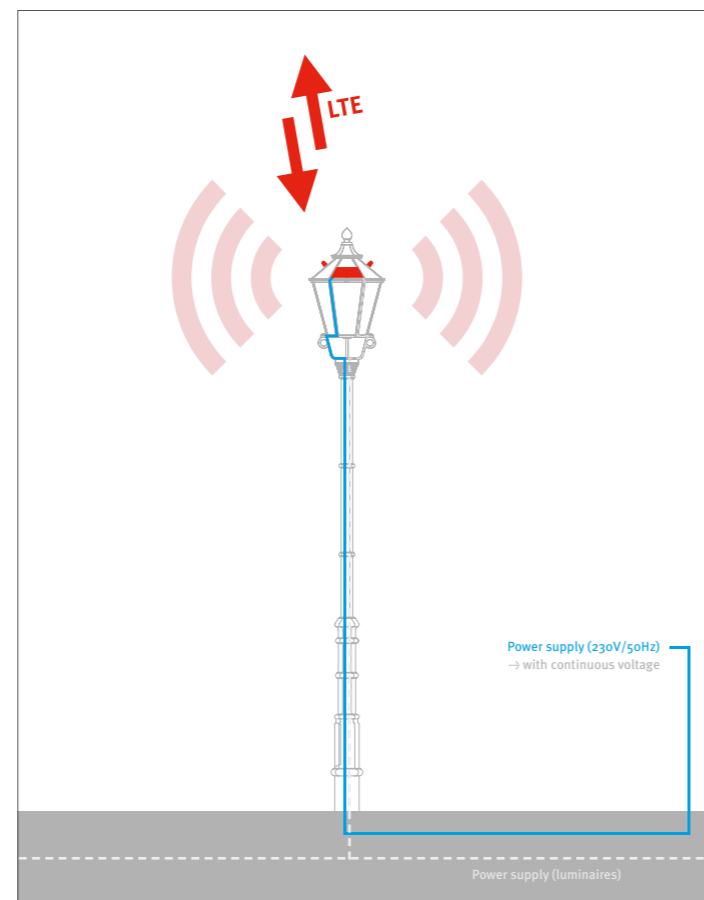
As an alternative to the city providing its own Internet connection, the access points of the “All-in-One Premium Package” are supplied through a mobile network connection. This requires strong LTE reception. The individual access points, including routers, are installed in the luminaires and can be put into operation by us or our partner.

Only a power connection (230V/50Hz) with continuous voltage is required. If this is not available, Hess offers a special solution with rechargeable battery buffering as an alternative.

This solution requires no excavation work for costly laying of cables. The city or municipality only needs to take care of installing the luminaires and poles.

The commissioning and configuration, along with the landing page are managed by Hess just like in the previous variant.

Both All-in-One Packages are subject to a contractually agreed monthly fee.



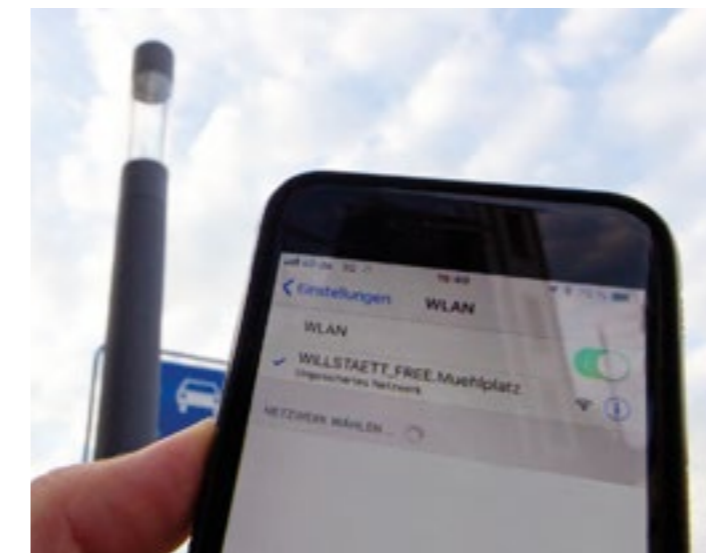
New luminaires or existing luminaires?

We bring WLAN to any city and to any urban space – no matter what the starting situation is.

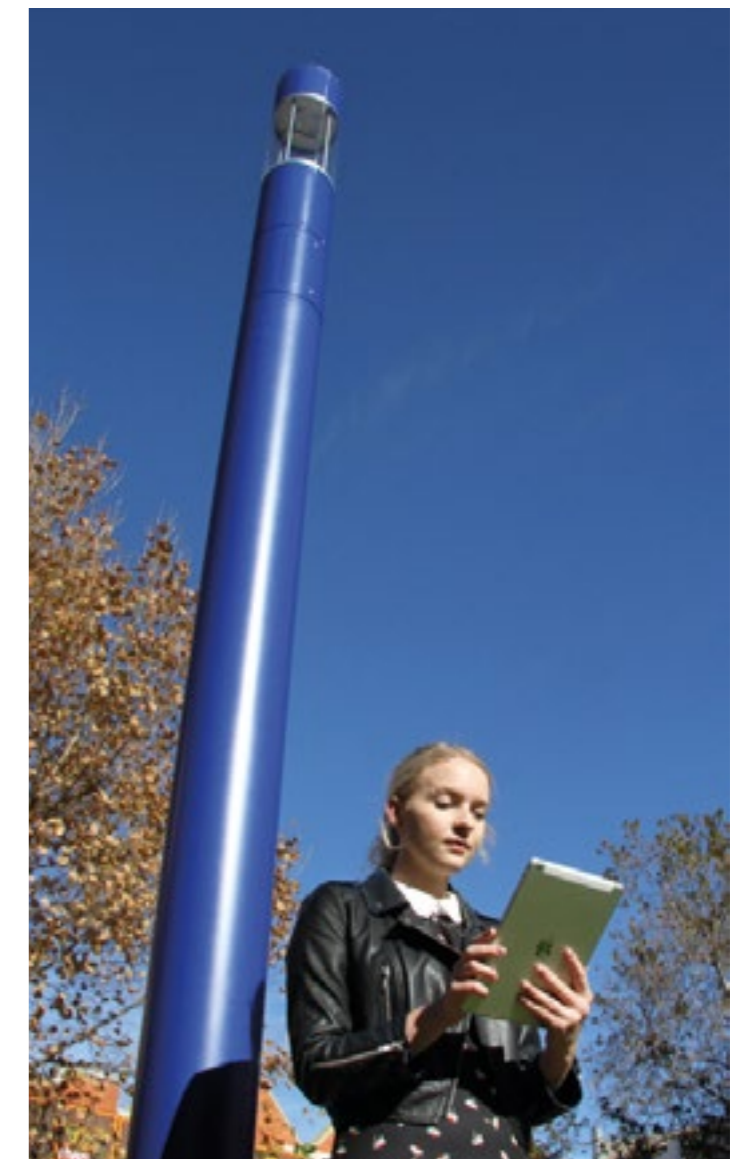
- 1. New luminaires with WLAN**
When purchasing new luminaires, WLAN can be perfectly integrated from the start. In short: the perfect symbiosis!
- 2. Retrofitting WLAN**
You are retrofitting Hess luminaires that you already have? This is possible with all luminaires with a pole diameter of at least 100 mm.
- 3. Very important:**
Should you happen to be considering retrofitting your luminaires to the latest LED technology using retrofit kits, it’s also possible to retrofit WLAN – in one go! Also in this case, a pole diameter of 100 mm is a prerequisite.

Hess – We support you on your “smart” way!

Contact details:
E-Mail: smartcity@hess.eu



Willstätt Mills site (DE) . CITY ELEMENTS 180 with WLAN



Newcastle (AU) . CITY ELEMENTS 230 with WLAN

Site of the old mill, Willstätt (Germany)

The village centre shines in new splendour!

The new village centre of Willstätt is characterised by the extensively redeveloped site of the old mill. On the one hand, the site includes the characteristic and prominent mill building. This now houses the new town hall as well as freehold flats. On the other hand, an attractive and inviting forecourt with direct access to the Kinzig river was created, which is inviting as a meeting place and as a venue for celebrations.



Willstätt's mill building perfectly staged. CITY ELEMENTS with projection technology ensure that the building in which the town hall as well as flats are housed, shines in new splendour – and neither the town hall employees nor the inhabitants are blinded by the light.

The community of Willstätt, with approximately 10,000 inhabitants, in the northwest of the Ortenau district (in the state Baden-Württemberg) is characterized by half-timbered houses from the 18th and 19th century, a historically protected mill building and the romantic Kinzig river that flows through the town.



Decorative timber framing, the idyllic Kinzig river as well as the imposing mill building result in a truly harmonious overall appearance.

Willstätt is idyllically set between the Black Forest and the Vosges. It is fondly known as the “half-timbered community”, a town full of charm and attractions for a number of tourist activities – and Willstätt can also boast a town with a very high quality of life.

A very important site for the community is the recently, extensively redeveloped and redesigned town centre surrounding the historical mill building.

Within the framework of this redevelopment, a new and very sophisticated lighting concept was implemented. A special focus was placed on the building itself.

The task was to impressively illuminate the building complex – without blinding those inside the building.

Upgrading the town centre through revitalization and new construction

Already in 2001, the city planning measure “Am alten Schloßplatz” [On the Old Castle Square] was incorporated in the state renovation program. The goal was to revitalise brownfield areas, modernise the town centre, secure the housing stock and integrate new buildings into the surrounding structures.

The redevelopment envisioned the town centre as a new centre and meeting place for the community, to be upgraded and, at the same time, to create space for high quality residential housing and modern commercial buildings. The planning and implementation took place in cooperation with Benjamin Holz from the BHM Planungsgesellschaft-mbH from Bruchsal.



A place to linger. The “Rappen” site, which was upgraded during the first stage of redevelopment, continues to be a popular meeting place.



The renovated mill building and the new forecourt: Attraction and eye-catcher by day...

The “Mill site” as the redevelopment focus

The area surrounding the mill was upgraded through a new residential and office building that houses the “Mühlencafé” [Mill Café]. As a result, the area was transformed into a meeting place for the town’s citizens.

The town centre has always been shaped by the mill area and the mill located upon it. The mill was first mentioned in history books in 1480.



Before the redevelopment: The dilapidated mill building and the unused surrounding area.

Accordingly, there was also the wish to preserve the impressive and historic building as a characteristic and impressive community landmark.

In awareness of the importance of the site and the building, the mill building was renovated – together with an investor – to a high degree, true to the original and the entire site has been upgraded in a restrained and stylish manner. To make the area surrounding the mill an even more pleasant place to linger, the square and inviting green areas were created, that can be used by anyone as a meeting place.

In this context, the Kinzig river was also taken into account in the design concept. Though the river was inaccessible and hard to see before the redevelopment, the bank now offers an experience for inhabitants and visitors and contributes to a harmonious overall impression of the area.

After the redevelopment, the four-storey part of the mill building houses the town hall. Ten high-quality freehold flats are housed in the six-storey part of the building.

The lighting concept meets the high demands of the area

The “specifications” for the lighting concept included an extremely high-quality appearance and atmospheric lighting, in order for the mill area to meet its functions as a characteristic landmark also in the evening and night hours.

As a solution for the demanding lighting concept, three luminaire models from Hess were selected. The multifunctional CITY ELEMENTS lighting system, the RAVENNA in-ground spotlight as well as the RESIDENZA pole-top-mounted luminaire ensure a successful combination of path, square and accent lighting.



... and also at night. In the evening hours, the building which is elegantly staged, using projection technology, as well as the square as a whole convey a very comfortable atmosphere.



Elegant RESIDENZA luminaires immerse the evening and night hours along the riverbank in a very pleasant atmosphere.

Along the newly designed riverbank, the RESIDENZA pole-top mounted luminaires ensure a previously non-existent experience of the area along the riverbank. With a mounting height of 4 metres, the luminaires (in the light colour 4000K) guarantee an extremely homogeneous light. Thanks to the integrated dimming system StepDim, the illumination level can be continuously reduced during the evening and night hours and the efficiency further increased as a result.

Thanks to its elegant, cylindrical form, the RESIDENZA blends in perfectly in the surroundings of the riverbank path and is in perfect harmony with the multifunctional CITY ELEMENTS.



The RAVENNA in-ground spotlight stages the trees on town hall square through an interesting play with light and shadow, in a truly elegant way.



Restrained in regards to their shape and colours, the multifunctional and modular CITY ELEMENTS perform a variety of tasks and thus provide a real added value.

The historic “Old Mill” is illuminated using CITY ELEMENTS with projection technology

The CITY ELEMENTS, and the associated use of projection technology, are the absolute illumination highlight.

As a central design element, the “Old Mill”, that is to say the mill building, should represent an absolute highlight also in the evening and night hours. Therefore the specification was to stage the entirety of the high-profile façade, without disturbing the town hall employees or the residents.



The dark windows are the proof that the surfaces are exactly blocked by the projection technology – and therefore a blinding of persons in the building is avoided.

For this purpose, a template was designed that meets the requirements of the town and blocks out the windows of the mill building to the centimetre.

For Clemens Schönle, the head of the building authority of the community of Willstätt, the illumination of the mill building is an absolute success.

“From the very beginning, our municipal council was very open to the planner’s idea to use this type of illumination. The results speak for themselves and any reservations on the part of the town hall employees and residents have been dispelled.”

Since the most slender form of the CITY ELEMENTS, the CITY ELEMENTS 180 column with a diameter of 180 mm, was decided upon in the framework of the overall project, an integration of the projection technology in the lighting system was no longer possible. Therefore a special solution was selected in which the projectors were placed on top of the CITY ELEMENTS.

For the lighting surrounding the embankment as well as around the forecourt, the terminating and intermediate elements of the CITY ELEMENTS, were equipped with the lighting technology L3.1 (e.g. with asymmetrical light distribution). In order to achieve a uniform appearance, the same light colour 4000K was selected to match the RESIDENZA.



There was also a consensus regarding the finish: The RESIDENZA luminaires as well as the CITY ELEMENTS, were painted in colour DB 703.

In order to meet this requirement, three of the eight CITY ELEMENTS 180 are equipped with a very special projection technology from Opticalight – a technology that makes it possible to block light at desired points and to thus avoid blinding.



The projectors placed on top of the CITY ELEMENTS, used exactly designed templates that make it possible to block out window surfaces and – also very important – to avoid light emission. In this way, the windows remain darkened and there is no “scatter” of light, which shines beyond the building.



Free WLAN – perfectly integrated in the CITY ELEMENTS

A further added value for the inhabitants and guests of the community of Willstätt was implemented in the course of the new lighting system: Public WLAN.

Perfect as it is integrated in an almost invisible way in the CITY ELEMENTS that an extensive WLAN coverage is provided. In this way, Willstätt takes full advantage of the multifunctional possibilities and characteristics of the CITY ELEMENTS. A wide variety of tasks and functions is thus united in one element.


Clemens Schönle is very satisfied with the implementation and is also happy that the WLAN was well received by the citizens.

Thus Willstätt portrays itself as a modern and forward-looking community in an impressive way.



The new town centre is very popular with the citizens

Since the completion of the work, the new town centre appears friendlier and more inviting and shines, quite literally, in a new light. It now offers the perfect stage for the annual markets, cultural festivals, “after-work” parties – and also has a very special treat: an outdoor wedding venue. Also in this sense, Willstätt is something special.



Günter Ferber

This is where one meets. The successful square is highly accepted and is happily used for every type of event.

The town centre around the mill area, with the seating steps leading down to the water, as well as the possibility of walking along the Kinzig river, has thus become a meeting place for citizens as well as guests.

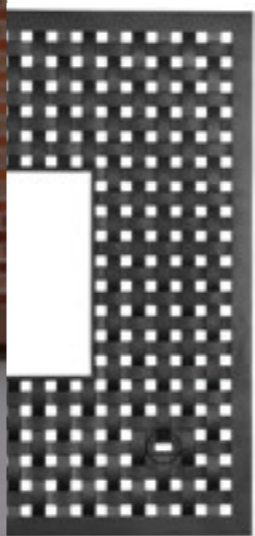
The community of Willstätt has therefore succeeded in creating a contemporary and modern town centre and has managed to preserve the characteristic features of the past – during the day and at night.

Public WLAN for a public space – perfectly integrated in the CITY ELEMENTS. A small antenna is the only clue that a “hotspot” is available here.

The town centre of Willstätt: Attractively designed – with Hess.

On the “Rappen” and mill sites, a variety of Hess products were used to create a harmonious overall appearance.

Hess – Enhancing urban spaces.



REGULUS
www.hess.eu/0104



RAVENNA
www.hess.eu/6100



CITY ELEMENTS
www.hess.eu/3400



RESIDENZA
www.hess.eu/1012



ALGARVE
www.hess.eu/0210

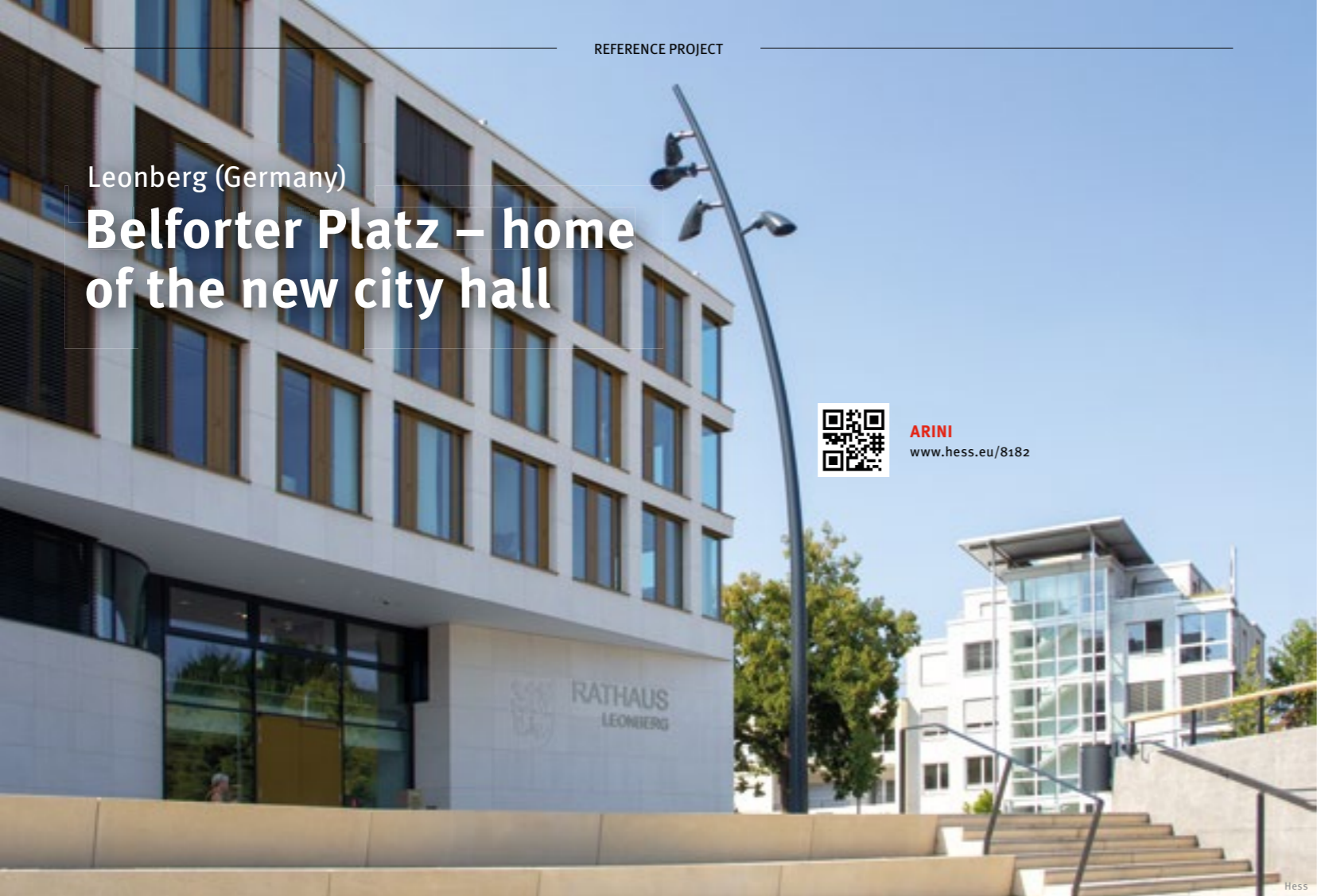


REGOR
www.hess.eu/0711




Leonberg (Germany)

Belforter Platz – home of the new city hall



ARINI
www.hess.eu/8182

The new, ultra-modern city hall on Belforter Platz is the new seat of Leonberg's city administration.

Located in the centre of Baden-Württemberg, Leonberg is the third-largest city in the Böblingen district, behind Sindelfingen and Böblingen. Conveniently connected to the A8 and A81 motorways, the city is an extremely attractive location for business as well as for its citizens.

In June 2015, a very special event took place in Leonberg: The ground-breaking ceremony for a new city hall on Belforter Platz set the course for the future while simultaneously heralding the end of an era spanning more than 500 years for the old and venerable city hall on Market Square in terms of it serving as the official seat of the city administration.



Picture-perfect half-timber construction. Even today, the old city hall still houses various offices, such as the Office of Public Order and the Registrar's Office.

City hall forecourt an important part of the design concept

Within the framework of the modern, six-storey new building, the redesign of the forecourt represented an essential aspect of the design concept. "In regard to urban development, a striking location in front of the new city hall, between the historic district and the building structures of the 20th century, needed a point of juncture appropriately linking the topographical and urban structures with the public functions located on the ground floor of the city hall," says Dominik Heni from the Leonberg City Administration Buildings Department.

At the same time, the square meets a wide variety of usage requirements. It does this by skilfully connecting existing pathway links and providing a meeting point and liveable space for locals to gather in.



Green oases and seating areas naturally entice people to linger and give the square and the building a very open and inviting atmosphere.

ARINI luminaires provide highlights – by day and at night

The luminaires seamlessly fit into the superlative overall concept of the city hall forecourt. Expressive ARINI luminaires from Hess were selected. For Dominik Heni, ARINI definitely reflects the square's expression of design, which is characterised by contrasts.

Nature inspires the ARINI shapes in a markedly eye-catching manner. Against the backdrop of the functionally austere city hall façade, the contrasting ARINI forms achieve a very special daytime look.



The combination of the selected RAL 7016 (anthracite-grey) finish with inlay of bright paving stones and a bright façade, further emphasizes the special appeal during the day.

Furthermore, the objective was to transform the space in the evening and night hours into a lively and atmospheric square with liveability factors and a sense of safety through successful interplay of bright and less bright surfaces – and to accomplish this with just a few luminaires that are nevertheless quite special.

In order to achieve optimum lighting results, ARINI's "G 9000" variant was selected. There are a total of three curved masts, which make a dramatic impression from their height of nine metres. Two masts were equipped with three ARINI luminaire heads each and a third with four ARINI luminaire heads.

In the selected "Light+" design, they represent a further highlight. In addition to lighting of the square with the selected light colour of 4000K, the illuminated end caps – in warm white in this application – introduce an additional accent.



The city hall and the forecourt: impressive – also at night.

To top it all off, there's another very important aspect: The ARINI was developed as a multifunctional luminaire and can be equipped with SMART CITY elements as required.

If WLAN, speakers, cameras or GOBOS are ever desired, it is relatively straightforward to expand the ARINI lighting system with an additional beautiful effect: The expression of design and thus the very important daytime look are not affected by these changes, since the components mentioned can each be perfectly integrated into the ARINI housing.



The ARINI luminaires immerse the city hall square in a fascinating and shifting play of bright and less-bright surfaces, lending the square an atmosphere all its own.



San Diego (USA)
Amp&rsand: Welcome to the modern workspace!

Javier Laos

Harmonise perfectly with the demanding architectural surroundings: the LINEA bollards.

In San Diego (USA), the former site of the daily newspaper, the Union-Tribune, was acquired and extensively renovated by building contractors following its closure. As a reminiscence of the past, the present name of the site – Amp&rsand – includes an “AND symbol (&)”. This builds a bridge to the past since the “&” is the last letter in the typesetter’s alphabet and was the last character printed before the closure of the site.

Last year this site opened its doors again and since then, has shone, in the truest sense of the word, as a first-class corporate campus with many comforts. The new campus is a response to the current trend towards a lively and modern workplace.

Located in the heart of San Diego and perfectly connected to numerous federal highways and public transport, Amp&rsand can be reached quickly and conveniently by the employees of the companies that rent space there. Amp&rsand thus also presents itself as one of the most commuter-friendly locations in San Diego.

The premises comprise two buildings with a total area of 330,000 square feet, comprised of offices and meeting rooms, located on 13 acres of property.

The newly designed creative workspaces offer a very high level of comfort, such as parking and concierge services, an indoor/

outdoor fitness studio as well as outdoor areas with an open-air amphitheatre.

The large number of sunny days a year were also taken into account in the redesign of Amp&rsand. Generous outdoor areas were created, including outdoor workspaces and areas for relaxation and well-being, e.g. in the form of patios and courtyard areas.



Javier Laos

LINEA bollards adorn the attractively designed outdoor facilities.

The buildings themselves are connected by an inner courtyard and sky bridges linking the second and third floors. In keeping with the style of industrial lofts, the buildings were designed with bricks, columns and large windows.

The high-performance bollards can be installed widely spaced apart and generate effective, uniform illumination with high visual comfort.

Due to their robust construction and high-quality materials, they are especially resistant to external influences. The anthracite LINEA bollards, with their geometric form, impressively and harmoniously complement the overall appearance of the buildings.



Andrew Mangan

The design of the building is in keeping with the style of industrial lofts.

In order to meet the requirements of this unusual concept and to do justice to the pleasant atmosphere, simple and restrained LINEA illuminating bollards were selected as part of the lighting concept.

On the entire property, LINEA bollards illuminate the numerous footpaths as well as the inner courtyard. The 3000K colour temperature provides warm and atmospheric lighting in the evening and perfectly complements the conditions of the almost always cloudless sky over San Diego.

LINEA
www.hess.eu/7111



Andrew Mangan



LINEA bollards ensure perfect illumination of the entire grounds.

The new generation of recessed wall luminaires

TRACE & URBAN

The recessed wall luminaires TRACE and URBAN harmonise perfectly with their surroundings during the day and ensure safety and orientation in the evening and night hours.

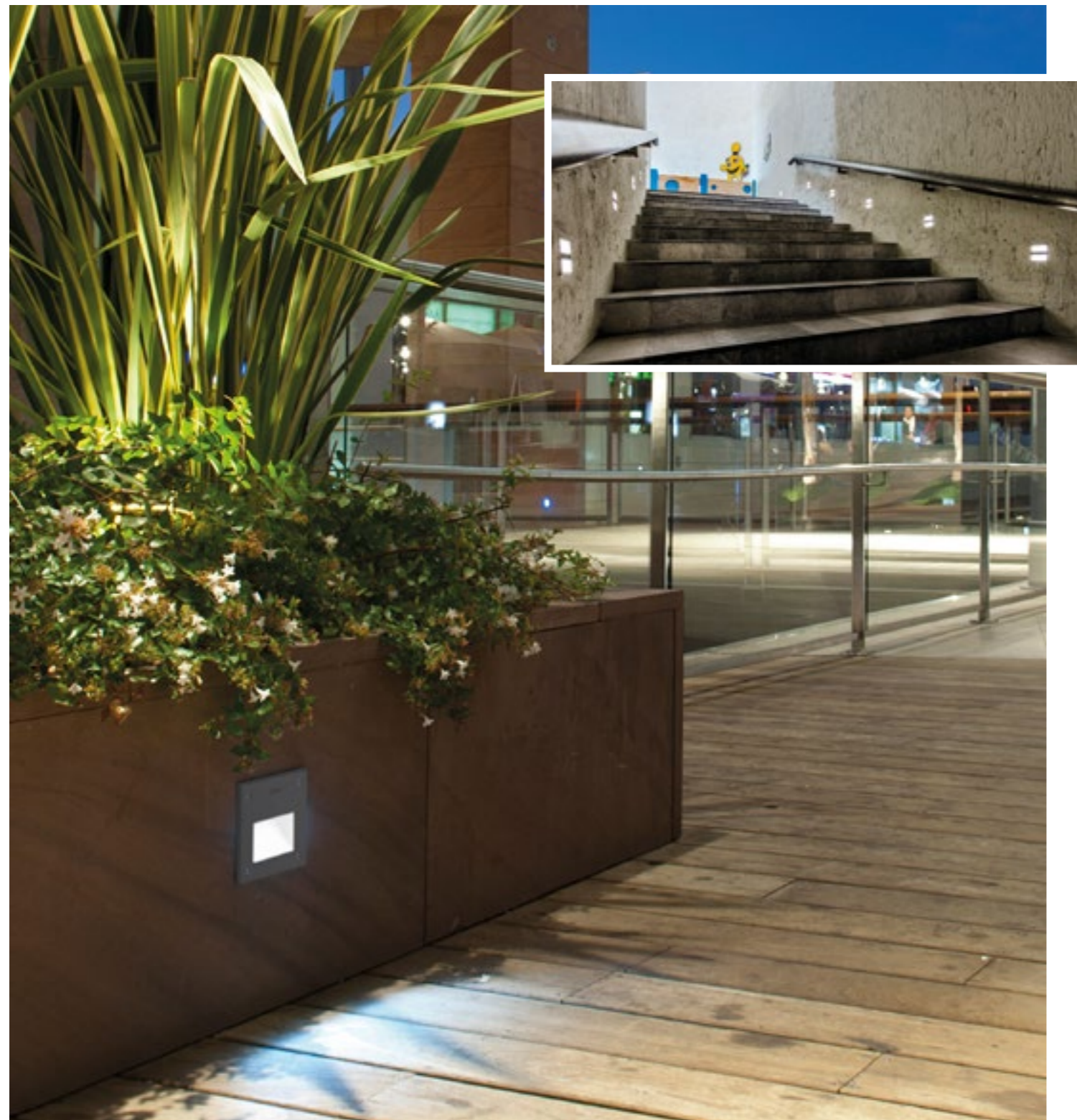
The luminaires are utterly different in regards to their design – the TRACE is decorative and helps shape its surroundings, the URBAN is simple and restrained – yet they have the same function.

They ensure perfectly light stairways and paths and safely lead the way to your destination – and on top of that, they create atmosphere.



Recessed wall luminaire

www.hess.eu/en/Produkte/Produkte_Leuchten/Wandeinbauleuchten/



Neatly integrated in planters and walls, the URBAN and the TRACE ensure an atmospheric ambience and improve safety.

TRACE

To be installed in a recessed position and integrated perfectly – in this way, all recessed wall luminaires from the TRACE model, blend perfectly into their environment.

The different versions offer a wide range of designs that can create numerous patterns on a wall due to their characteristic design feature – a matt black finish on the glass.

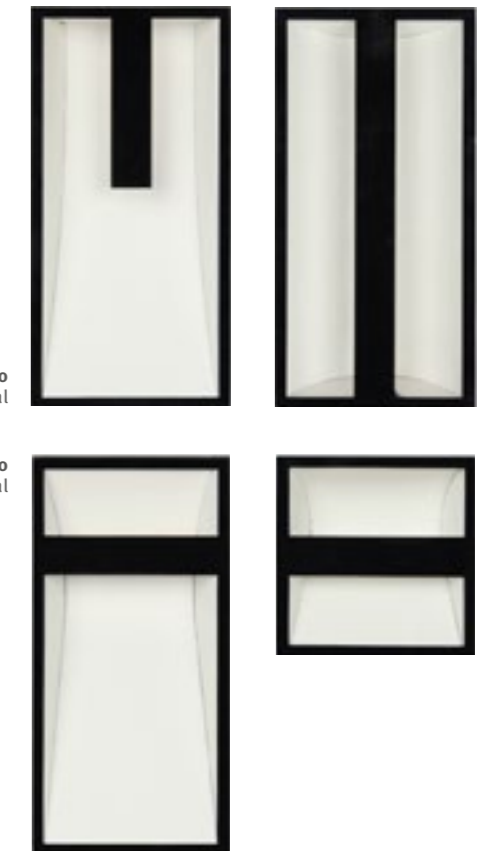


TRACE 200
vertical asymmetrical

TRACE 200
horizontal

TRACE 200
vertical symmetrical

TRACE 100
horizontal



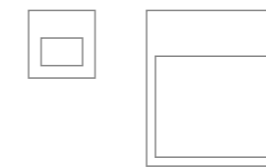
A highlight during the day and at night!

Speaking of the night... The TRACE stands for an extraordinary homogeneous light – which perfectly conceals the source of light.

URBAN

The product family URBAN is an LED recessed wall luminaire, that was specially designed for outdoor areas and is available in two sizes, as URBAN and MINI URBAN.

The URBAN as the larger model, MINI URBAN as a more compact version.



The URBAN impresses with an almost glare-free light – for a high visual comfort.

Both the URBAN and the more compact version MINI URBAN are protected with the protection rating IP65 and are therefore, ideally suited for demanding applications in outdoor areas. As a result of the simple, unobtrusive design, the luminaire fits in almost any environment.



URBAN



MINI URBAN

LED KITS – LED flush-mounted luminaire heads

Luminaires from Hess are known for their inimitable design, excellent quality and high-quality materials.

As a result of the high design standards, the Hess luminaires decisively shape the cityscape and the overall impression of an urban space. The professional craftsmanship that is typical for Hess, as well as the use of the highest quality materials, leads to an exceptionally high quality and longevity of the luminaires.

Design and quality for decades – and thus a design and a quality that are worth maintaining and preserving.

However, the luminaires are also subject to technological changes and these have come rapidly in the past few years. With the advent of LED technology, even very „young“ luminaires are no longer necessarily up-to-date in terms of lighting and efficiency.

With the LED flush-mounted luminaire heads and the LED KITS, we ensure that you can quickly and easily convert the existing, high-quality Hess luminaires to state-of-the-art, extremely efficient LED technology, without changing your familiar cityscape.

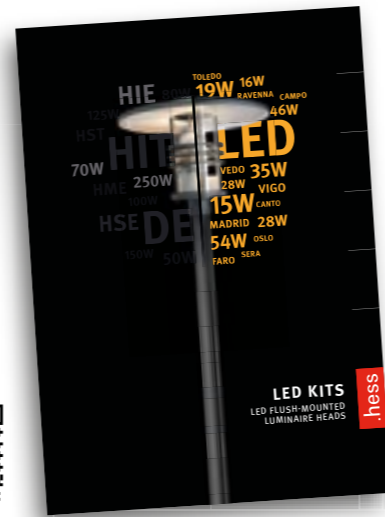
For a current total of more than 16 luminaire models, we offer LED KITS with the latest LED technology as well as a patented light control for an optimal replacement of existing (old) equipment.

In this way, you can continue to enjoy your Hess luminaires for a long time to come.

We have compiled further information for you in our new catalogue. This is available digitally or as a print version.

Catalogue PDF

www.hess.eu/en/Service/Download/Hess_Katalog_LED_KIT_EN.pdf



Our current products

www.hess.eu/en/Produkte/Produkte_Leuchten/LED_KITs/



LED KIT VS



LED KIT HS



LED KIT SP



LED KIT LA



LED KIT SERA

Hess offer a suitable conversion kit for each of the illustrated luminaires. With the LED KITS you ensure that your existing luminaires from Hess are also technologically up-to-date.

Note: LED KITS can only be sold in countries with 220-250V/50-60Hz.



Successful integration of the Vulkan brand in the quality management system

DIN EN ISO 9001 defines minimum requirements, that a quality management system (QMS) must currently meet. A company or organisation must meet these requirements so that products and services are available that meet the expectations of the customer as well as any requirements of public authorities.

Hess GmbH Licht + Form already received certification according to ISO 9001:2008 a long time ago. In 2016, the company was successfully certified on the basis of the most current standard: ISO 9001:2015.

This standard influences all operational areas, e.g. management, planning, performance evaluation and continuous improvement. Among other things, the standard stipulates that process descriptions must be available and key figures and work processes must be defined and documented.

In December 2018, the Deutsche Managementsystem Zertifizierungsgesellschaft mbH certified, within the framework of a so-called surveillance audit, that the company, in connection with its brand VULKAN, has introduced and applies a quality management system for the development, sales and production of streetlights as well as indoor and outdoor luminaires.

This was preceded by a good six months of intensive work. The process began with inventory taking, an internal audit and the definition of corresponding targets. This was followed by the performance of the system audit and the associated comparison of the standard requirements with the actual state, the listing of detected deviations and the resulting definition of measures – and finally, with the performance of the external audit.

We would like to take this opportunity to thank all those involved for their outstanding cooperation.



The Hess-employees responsible for the audit, Erik Kaminski and Snezana Kieninger, are delighted about the successful certification.

Hess outdoor display with new highlights!

After a long winter, we are now working at full speed, installing new products at our outdoor display. Experience our highlights by visiting us on-site. We warmly invite you to do so.

RENO ELEMENTS – MULTIFUNCTIONALITY IN A NEW DESIGN!

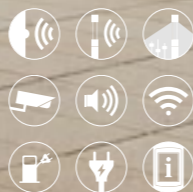
Experience light and multifunctionality in a completely new design.

The RENO ELEMENTS combine smart light and smart multifunctionality in a striking yet elegant form. Here the multifunctional elements are perfectly integrated in the luminaire – with no shadow gaps.

RENO ELEMENTS: Real added value for urban environments!



RENO ELEMENTS
www.hess.eu/renoelements

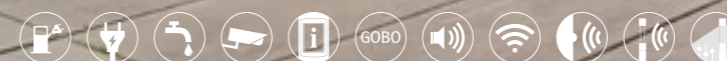


CITY ELEMENTS

Also multifunctional and suitable for every challenge in a smart city: CITY ELEMENTS. The CITY ELEMENTS offer a variety of diameters, variable heights of up to 9 meters and maximum flexibility on top of that – also thanks to a variety of multifunctional components. Whether WLAN, camera, loudspeaker, sensor technology, E-mobility, water/energy supply, etc.



CITY ELEMENTS
www.hess.eu/3400





ARINI TREE with BENCH

The ARINI TREE: An absolutely distinctive feature for urban spaces. Its very special expression of design lends every square an inimitable character – and thanks to the multifunctional characteristics, a real added value.

The matching bench with embedded inductive charging station is the “icing on the cake”.

The charging station is integrated so that it is resistant to external influences.

Upon request, these inductive charging stations can also be integrated in other benches.

Hess – enhancing urban spaces.



AVILA
www.hess.eu/1910



VILLAGE 300 and AVILA

The VILLAGE 300: elegant and decorative, the AVILA: unpretentious and puristic. We show you the entire diversity of both luminaires: Whether as a pole-mounted or pole-top-mounted luminaire, whether as a single or double variant, whether upright or hanging or even as a wall-mounted luminaire.

The VILLAGE 300 and the AVILA are highlights at our outdoor display – and perhaps soon in your city as well?



VILLAGE 300
www.hess.eu/1810



GRIVEN – the specialist for architectural lighting solutions

Our Italian affiliated company GRIVEN has established itself as one of the leading development and manufacturing companies in the architectural lighting market worldwide – especially in the high-power segment. Distribution of the GRIVEN portfolio is handled by Hess within the German market.

The range of spectacular lighting effects that GRIVEN's innovative product and solution portfolio makes possible, as well as the know-how of GRIVEN are demonstrated by these selected project examples.



www.hess.eu/griven

GRIVEN CATALOGUE



DOWNLOAD KATALOG-PDF

www.hess.eu/en/Service/Download/GRIVEN_KATALOG_2018_EN.pdf

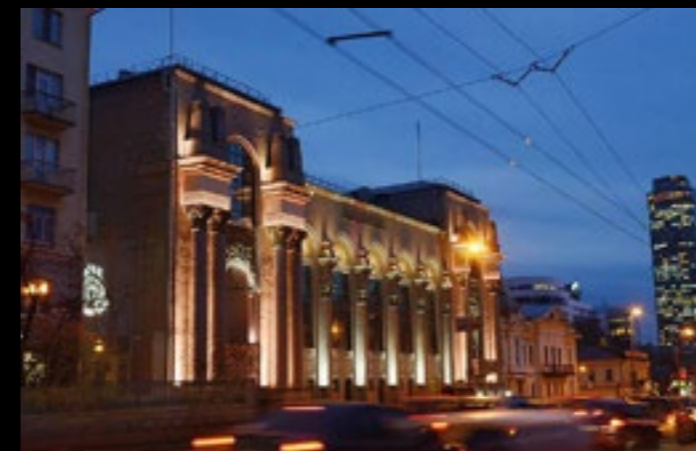
Yekaterinburg, RU

New symphony for Philharmonic Concert Hall



A new LED lighting system by GRIVEN delivers an amazing effect to the Philharmonic Concert Hall in Yekaterinburg, which now shines in soft pastel tones enhancing its architectural features in a revealing way.

Located in the centre of Yekaterinburg, the historic building which has been hosting the Sverdlovsk State Academic Philharmonic since 1936, has been recently provided with a new groundbreaking lighting system based on a combination of GRIVEN LED wall washers. In order to enhance the main architectural features of this neoclassic building, a soft and well diffused illumination was achieved by a number of Coral, Jade 16, Micro-Clip MK2, and microPARADE units in RGBW colour configuration.



Through a combination of soft pastel tones, these powerful fixtures can enhance the beautiful architectural details of the façade preserving its integrity and formal elegance in a perfect balance of chiaroscuro tones.



Rottweil (Germany) thyssenkrupp Test Tower: An extraordinary tower!

The city of Rottweil was founded by the Romans almost 2,000 years ago and is the oldest city in Baden-Württemberg. Located around 90 kilometres south of Stuttgart, nestled between the Black Forest and the Swabian Alb, the historical city is also known as the “City of Towers”. This renown is impressively reinforced by thyssenkrupp. With the new test tower, an imposing and innovative landmark was created.

Pillar, landmark and magnet for visitors!

With an investment of over 40 million euros for the test tower, Rottweil forms – together with the elevator plant in Neuhausen auf den Fildern (close to Stuttgart) – a highly modern innovation hotbed for elevator technology.

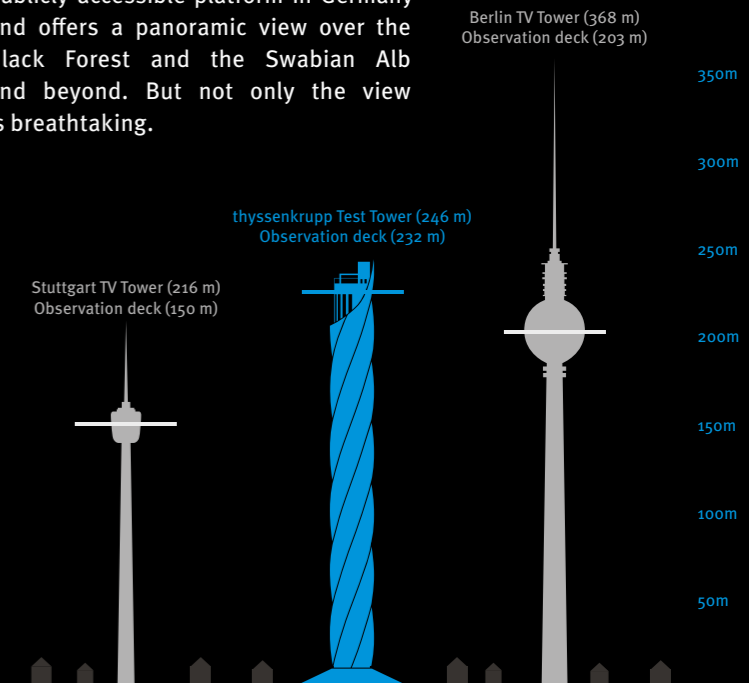
The tower represents an important pillar for thyssenkrupp. It serves to test and certify elevator innovations and contributes to a considerable shortening of development times for future skyscrapers and for those currently being constructed.

With twelve shafts and speeds of up to 18 metres/sec., the tower offers possibilities that were never before available. In three shafts, the new revolutionary MULTI elevator is being tested. It is revolutionary because it has no cable and can also travel sideways (!).

The tower is visible everywhere – even from Rottweil’s city centre.

With a height of 246 metres, the tower is one of the most impressive and also most breathtaking constructions in southern Germany. The test tower symbolizes the engineering skill of thyssenkrupp – and it also represents a symbol for the city of Rottweil and complements the historical church and defensive towers from the middle ages.

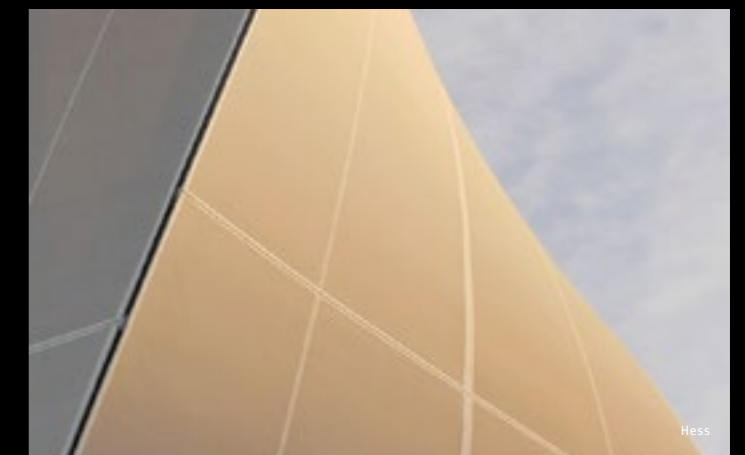
The visitor platform, at a height of 232 metres, is the highest publicly accessible platform in Germany and offers a panoramic view over the Black Forest and the Swabian Alb and beyond. But not only the view is breathtaking.



The ride with the elevator is an experience in itself, as visitors reach the dizzying height of the platform within just 30 seconds.

The tower represents an attraction for tourists and also for companies – within a very short period of time, it has advanced to become both a landmark and a magnet for visitors.

Despite its imposing height, the tower’s appearance is still light and delicate. The architects, Dr. Werner Sobek with Helmut Jahn, covered the concrete shaft with a covering made of glass fibre fabric.



The covering made of glass fibre fabric drapes the tower in an elegant garment.

The fabric is closely meshed at the foot of the tower and shows increasingly more of the tower towards the top. It reflects the light in various ways at different times of day and during different seasons of the year. As a result, the tower changes its appearance depending on the weather.

thyssenkrupp Test Tower

The facts

- Architects: Dr. Werner Sobek with Helmut Jahn
- Construction period: < 10 months
- Height: 246 metres
- Weight: 40,000 tons (≈ 8,000 African elephants)
- Materials: 15,000 cubic metres of concrete
2,640 tons of steel
200 rock nails
- Spotlights: 20 x Powershine RGBW spotlights (medium optics)
24 x Powershine RGBW spotlights (wide optics)
- Output: 281 W per spotlight



During the test phase, the tower also shone briefly in other colours. In addition to the desired seemingly golden standard colour of the test tower (see right side), the spotlights in the RGBW variant can shine in any colour.

Rottweil's new
landmark ...

... in all its nighttime splendour.

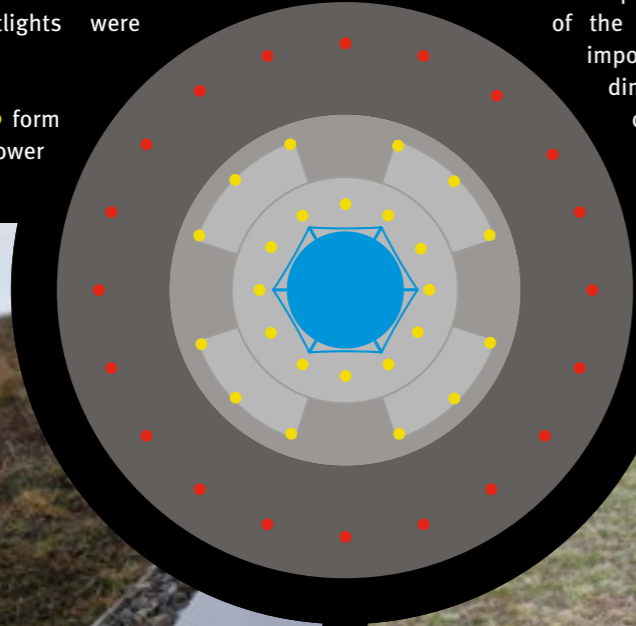
Extraordinary lighting!

The tower is perfectly staged by a total of 44 spotlights (Powershine RGBW model). For the desired ring-shaped lighting, the spotlights were arranged in two circles.

A total of 24 Powershine spotlights form an inner circle and illuminate the lower part of the tower.



To ideally cover this area, spotlights with “wide optics” were selected. Specially manufactured supports from Hess ensure that the spotlights are stable and are installed higher than the grass.



The outer ring, with 20 Powershine spotlights with “medium optics”, is responsible for the illumination of the upper half of the tower. Here great importance was placed upon the light visibly dimming towards the top of the tower, in order to lend the tower a visual lightness also in the evening and night hours.

For these spotlights, special housing for their accommodation was developed. In colour DB 703, the housings discreetly blend into the area surrounding the tower.



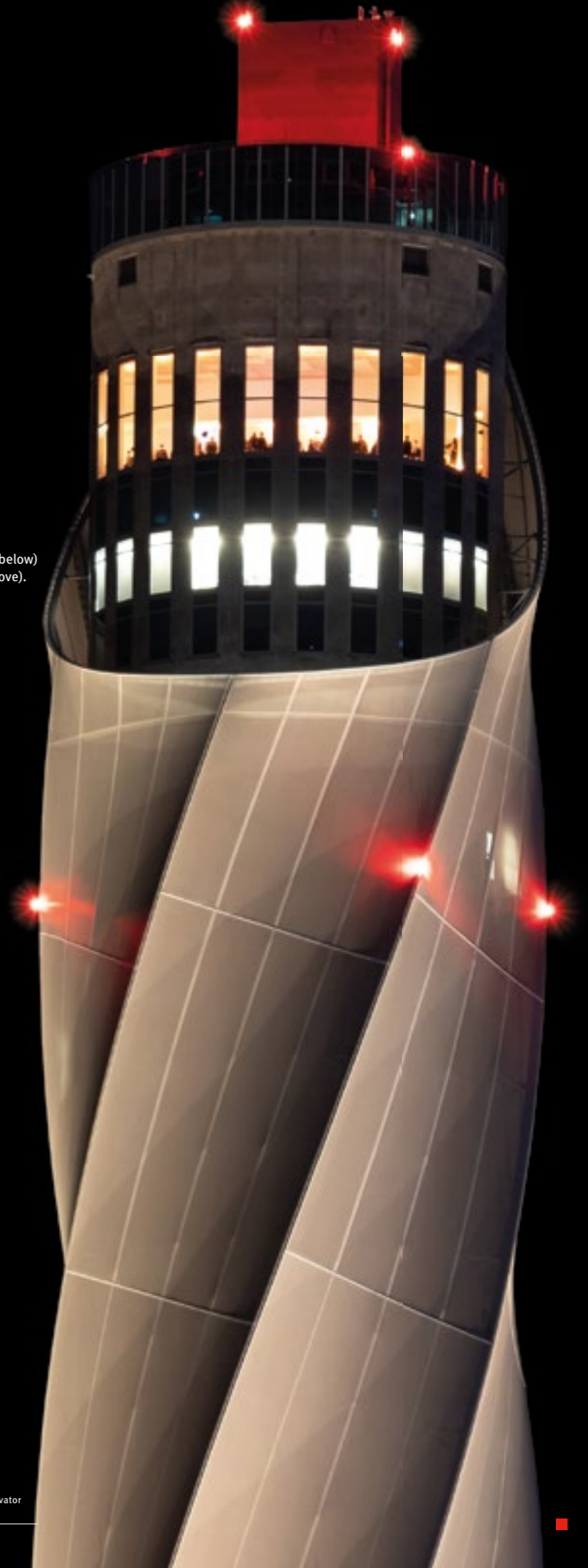
The maximum power per spotlight is 281 watts. In addition to the desired standard colour, the spotlights in the RGBW variant can shine in any colour. Further atmospheric scenarios and “Wow effects” can be created as desired.

In case of fog: “Light’s off”!

Another special feature: The lighting system was equipped with a fog sensor that is connected to the “Wall TSC”, a colour change controller with 1024 channels and digital inputs.

By means of a threshold value switch created in-house by Hess, it is ensured that in the case of fog with visibility under 100 metres, the lighting is switched off and the effect of an illuminated “haze dome” is avoided. Another clever and innovative piece of equipment – just the right feature for an extraordinary tower.

A view of the glass windows of the conference rooms (below) and the public visitor platform (above).



For the official inauguration of the lighting, a special date was selected: the 14th of February, that is to say Valentine’s Day. The first couple to marry in the tower pushed the button at sundown at 5.44 p.m. and enabled the “Tower of Light” to shine for the first time in its chosen golden colour (This golden colour was selected by the architect Dr. Sobek).



Hardy Stimmer (Project manager at thyssenkrupp) and Beate Höhnle (Tower manager at thyssenkrupp), pushed the button together with bride and groom (middle) the “Illumination button”.

NORDEONGROUP

www.griven.com www.hess.eu www.vulkan.eu www.lamp.es www.schmitz-wila.com www.wila.com www.nordeon.com



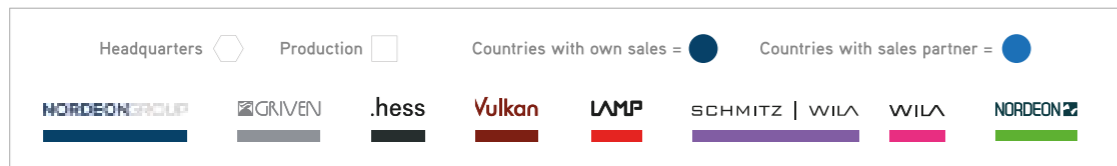
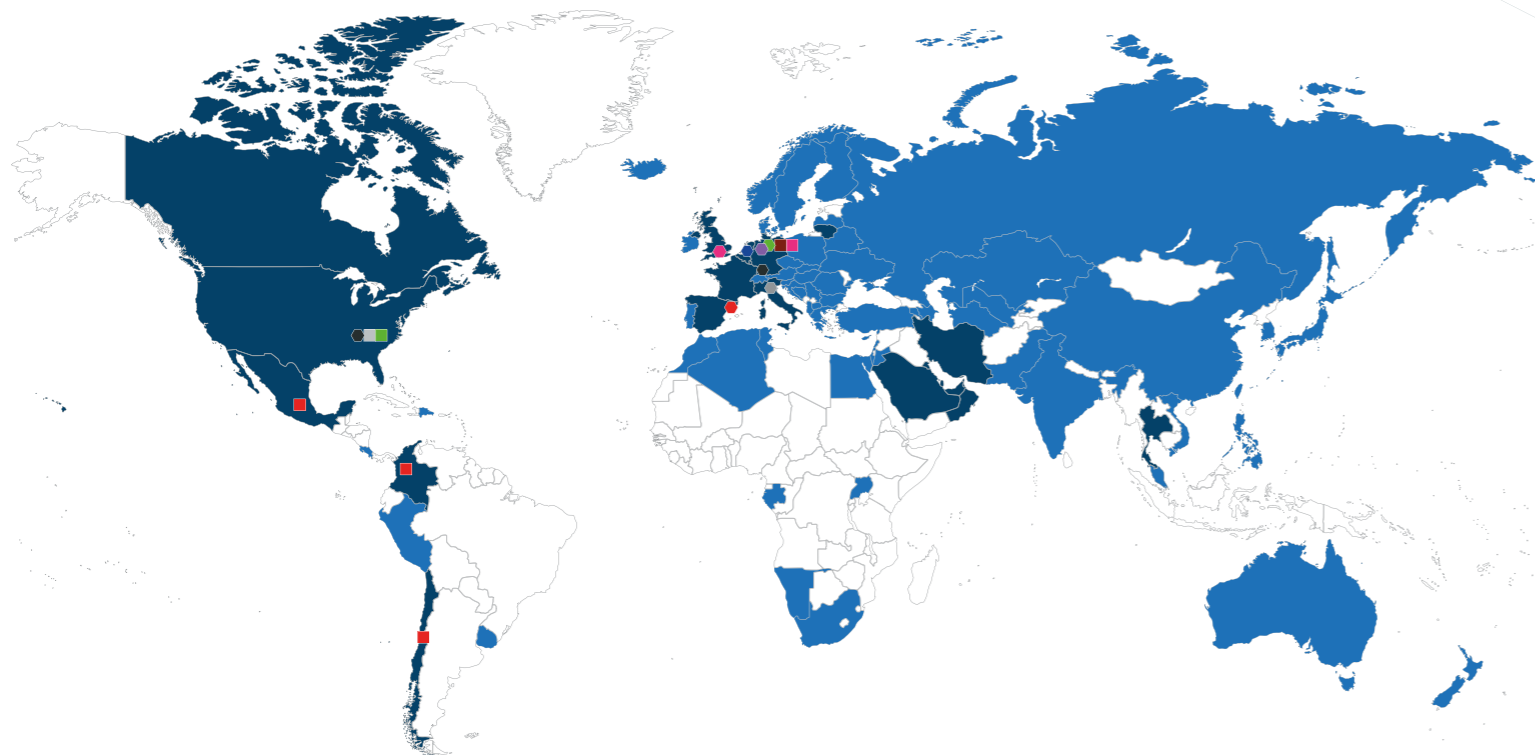
Seven strong brands – one group

With its brands GRIVEN, Hess, Vulkan, LAMP, Schmitz | WILA, WILA and Nordeon, the Nordeon Group can meet all of its customer demands.



www.nordeon-group.com

Whether for architectural lighting, indoor lighting or outdoor lighting; whether for industrial, commercial, or office / administration purposes, for the hotel industry, public spaces, buildings or close to buildings – the collective know-how regarding applications, technology, design, specifications and adaptation makes the Nordeon Group a true full-service partner for lighting professionals – and that worldwide.



5. Castle Light Shows in Karlsruhe 8th of August - 15th of September 2019

As soon as the summer sun has set, a very special show, which is greeted with enthusiasm every evening, takes place in the city of Karlsruhe in Baden-Württemberg: the Castle Light Shows.

In keeping with the motto “A summer of love and life. Hate comes late – Love comes first”, the breath-taking works are projected onto the baroque façade, of the over 300 year-old Karlsruhe Castle, using projection mapping. In this way, the entire 3000 m² projection surface of the castle will be transformed into the most beautiful canvas in Germany, for the fifth time this summer. The artists have not yet been announced but the organizers, the “Karlsruhe Marketing und Event GmbH” [Karlsruhe Marketing

and Event Limited Liability Company] and “ZKM Karlsruhe” are promising international artists and spectacular productions that will bring the castle façade to life. Within four years, the Castle Light Shows have become a magnet for over 1.3 million citizens of Karlsruhe and tourists.

Admission to the Castle Light Shows is free of charge. Further information regarding the program will also be made public.



www.schlosslichtspiele.info



Credit: Global Illumination, „The Object of the Mind“, SLS 2018
Photo: ARTIS - Uli Deck

8. Genius Loci Festival in Weimar 9th of August - 11th of August 2019

Within the framework of the Weimar Summer, the international “GENIUS LOCI WEIMAR” festival for audio-visual projections was brought into being seven years ago. In the meantime, the GLW is one of the most-visited events of the Weimar Summer and is also anticipating several thousand visitors this year.

The world-wide unique concept behind the festival connects digital video mapping technology with artistic expression and historical heritage. To this end, each year three buildings in and around Weimar, whose façades are to be used as a canvas, are selected. Artists from around the world are called upon to apply with their concept idea. The three most outstanding artist ideas are remunerated with prize money and are presented at the festival.

In time for the hundred-year anniversaries of the founding of the Bauhaus and the Weimar constitution, the GLW devotes itself to three very special buildings: the German National Theatre, the “Mon Ami” and the new Bauhaus museum. All three are representative of this era and are predestined for this year’s festival.



GLW18 Inside Out von selements Universitaetsbibliothek Weimar
Photo: Oliver Blum



www.genius-loci-weimar.org

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