

LIGHTLETTER by Hess

SENSOR TECHNOLOGY

When machines and luminaires feel



LIGHTING ASPECTS ALREADY PART OF THE DEVELOPMENT PLAN

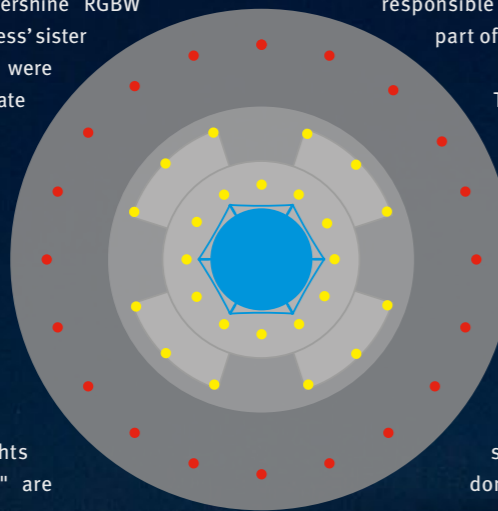
Rottweil's »shining« landmark

The new test tower, from thyssenkrupp, in Rottweil (DE) quickly became Rottweil's imposing and innovative landmark – during the day and at night. Thanks to the sophisticated lighting concept from L-PLAN LIGHTING DESIGN, the tower represents a luminous architectural flagship for thyssenkrupp's innovation centre for elevator technology.

A total of 44 Powershine RGBW spotlights, from Hess' sister company GRIVEN, were used to illuminate the tower.

These are arranged in the form of two circles. 24 spotlights (●), equipped with "wide optics" form the inner circle which illuminates the lower part of the tower.

The remaining 20 spotlights (●) with "medium optics" are



responsible for illuminating the upper part of the tower.

The selected spotlights and optics ensure that the illumination of the tower is as efficient, environmentally friendly and with as little scattered light as possible.

In this regard, the experts from Hess and its sister company GRIVEN have done a great job.



DETAILED REPORT ON THE TEST TOWER
www.hess.eu/turm

A total of 44 high-performance, Powershine RGBW spotlights (each with 281 W) perfectly stage the impressive structure.

L-PLAN LIGHTING DESIGN is an independent lighting design consultancy based in Berlin. The consultancy was founded in 1998 by Michael Rohde.

L-PLAN stands for creative, high-quality and sustainable lighting design and for many years of project experience, in particular for artificial lighting and daylight planning, lighting master planning, luminaire development and event lighting as well as light installations.

L-PLAN works interdisciplinarily and brings together knowledge and expertise from the fields of architecture, interior design, product design and electrical engineering.

The company works nationally and internationally and designs lighting for museums, religious buildings, representative buildings, office and administration buildings, traffic structures, sales rooms, hotels and restaurants, media façades and outdoor spaces.

Further information on L-PLAN can be found at: www.l-plan.de

Additionally to an innovative lighting design, the lighting design consultancy L-PLAN LIGHTING DESIGN from Berlin also presented the basics for the lighting concept.

We talked to Mr. Gremer, one of the two managing directors of L-Plan, about the essential work that had to be done concerning the lighting well before the tower was constructed.

Mr. Gremer, what were the first steps that you took in this project?

The lighting of the tower has a long history indeed. The requirements for façade lighting were already part of an environmental report drawn up in 2014, which was part of the justification for the development plan. For this purpose, we prepared a corresponding assessment in which important topics such as luminance, scattered light, insect-friendliness and on/off times, depending on the season, were addressed and evaluated.

What was particularly important to you?

In addition to the environmentally relevant topics, the prominent position of the tower and its unique architecture naturally played a decisive role. We regard "light" as an integral part of architecture. Therefore, it was important to enhance the unique architectural language of the tower and its prominent appearance with a distinctive lighting design.

What types of lighting were up for discussion?

We considered a great variety of possibilities, such as backlighting the façade, illuminating the tower core itself as well as illuminating the façade, i.e. the shell of the tower from the outside. The latter proved to be the best solution.

What was the decisive factor in this decision?

In the course of an on-site sampling, it became apparent that the sculptural quality and the spiral-like façade spiralling towards the sky can only be effectively staged by illuminating the shell from the outside, i.e. from the ground. The visual effect of the convex-concave silhouette would have gone lost when using another form of illumination. I think the result speaks for itself: An incredibly beautiful appearance at night – while adhering to the economic and ecological framework conditions. ■

The covering, made of glass fibre, drapes the tower in an elegant garment – by day and also at night, thanks to the elegant illumination.

Photo: © thyssenkrupp Elevator

Photo: © Hess

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