



Case study

Provinzial Rheinland Versicherung AG

Location
Philips Lighting

Düsseldorf, Germany
StyliD Mini, DayWave, LuxSpace

PHILIPS
sense and simplicity



“Office lighting is only really good when it not only fulfils all ergonomic criteria, but also decreases energy consumption and preserves the environment. This is why the modern, very attractive light solution from Philips makes us feel good all round.”

Joachim Hoff, Facility management/Technology, Provinzial Rheinland Versicherung AG



Integrated lighting for modern working can be attractive as well as energy efficient



Project info

Customer & project

Provinzial Rheinland Versicherung AG, Düsseldorf, Germany

Project team

Provinzial Rheinland Versicherung AG, Joachim Hoff (Facilities management/ Technology); Elektro Heil GmbH, Mr. Karl-Heinz Heil (Project Manager); Philips Lighting, Reinhold Vasmer; Klaus Michael Krzyzanowski (lighting consultancy)

Philips products

StyliD Mini (BBG520), LuxSpace (BBS480/481/490/491), DayWave (BPS800), Spot LED 3 K2, MASTER LED MR16 (4W) and MR11 (3W)

Results

- Modern, standard-compliant office lighting with sustainable LED solutions
- Energy-efficient daylight management
- Low maintenance and great durability

Background

The Provinzial Rheinland Versicherungen, with its headquarters in Düsseldorf, is one of the key players among public insurers. The company is part of the Sparkasse finance group and acts as a regional provider as an indemnity, accident and personal insurer. Over its 175 year history, the company has developed into one of the leading individual insurers under public law in Germany.

The challenge

In 2010 the Rhineland Provinzial initiated a comprehensive environmental project to make all business activities climate-neutral. An important part of the agenda from the outset was the integrated energy optimisation of the main building in Düsseldorf. The lighting installed there was approximately 16 years old and comprised design-oriented lighting with special designs. As the construction could only be changed marginally, the main challenge was to design a more ecological and also economical lighting alternative with the existing number and position of light points. This also needed to pay for itself quickly and fulfil exact requirements with regards to light quality and the lighting ambience.

The solution

Firstly, the halogen lighting in the public areas such as the washrooms and canteens was completely converted to StyliD Mini LED-integral spotlights. A total of 1,300 units of the accent lighting were used as they

constitute a successful combination of attractive design, flexible design options and greater energy efficiency. DayWave LED pendant lights are colour temperature-changeable (from warm white to cool white) and were used in the food area to create individual light scenarios. Their curved shape continues the line of the previous ceiling lights which housed metal halide lamps. The new DayWave lighting gives the rooms momentum and a natural atmosphere. The meeting rooms in the building were equipped with screen-compatible, dimmable LuxSpace Compact downlights (UGR 19) which have good colour reproduction and stability. Spot LED 3 K2 now ensures safe illumination in the multi-storey car park. The existing lighting in lifts and at serving counters were fitted with MASTER LED MR16 (4W) and MR11 (3W) lamps.

Benefits

The modern lighting solution is future-oriented and aesthetically appealing thanks to the environmentally compatible LED lighting in all areas. The control of the DayWave in the food area is particularly innovative as it gives the lighting design further advantages from the perspective of energy efficiency too. Energy savings of up to 80% were possible thanks to the replacement of the 50W Halogen spotlights with the compact StyliD. The long lifetime of the LED products, approximately 50,000 hours compared to approximately 2,000 hours for halogen lamps also decreases the overall costs and significantly reduces maintenance expenditure.



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