



 **2011**

Lighting Panels

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Lighting Panels

Lighting channels make a convincing choice since they integrate perfectly into the building. The large-scale diffusers reduce the luminance levels. They can be used to divide rooms or to partition or even link up areas. Available as a discreet ambient light or as a combo luminaire, featuring additionally integrated spotlights, for both ambient and accent lighting.

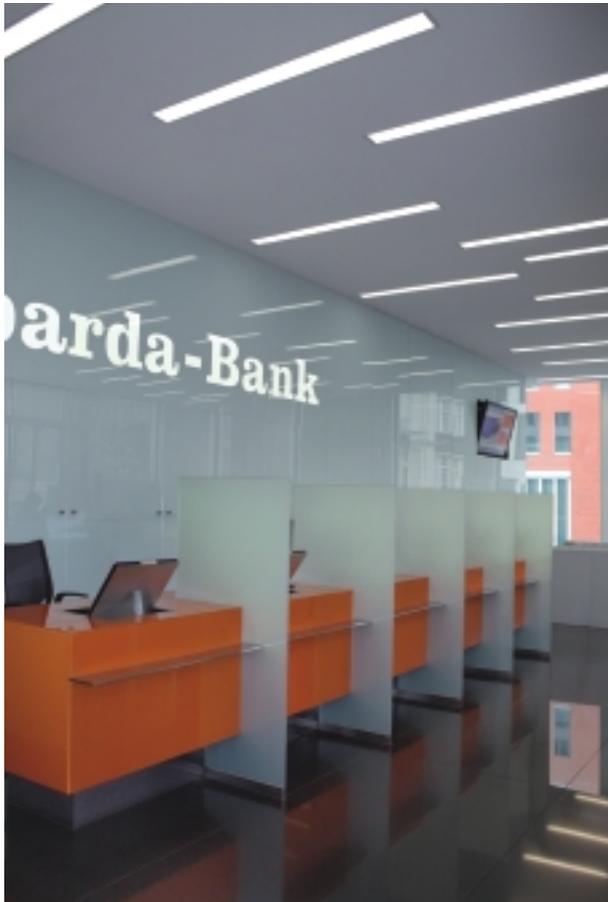
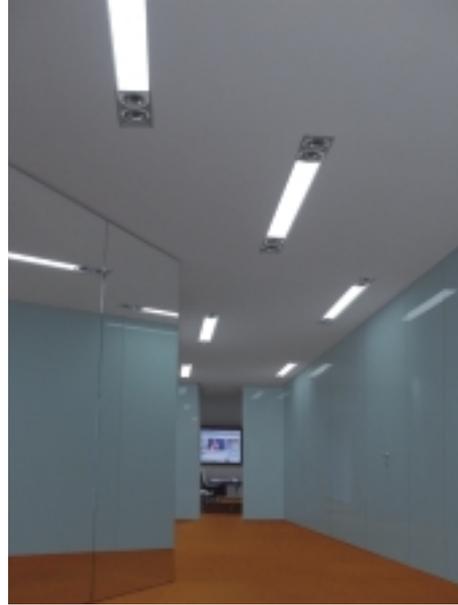
Lighting Panels

Lighting panels is the name we give to linear lighting fields that are flush-fitted into suspended ceilings. The variability of width and length enables special design tasks to be solved. Light becomes visible through the evenly illuminated diffuser surface. Tension can be created by combining with spotlight elements and special visual tasks can be met.



Functions

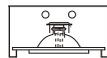
In modern architecture, one approach to lighting design is to see the luminaires not as an object but as building-integrated entities that solely fulfil a purpose and are not an end in themselves. It is therefore appropriate to consider which functions can be fulfilled from this entity. We distinguish here between lighting technology and building technology.



Dual Light Lighting Panels

To provide scenic lighting, spotlight inserts are available. The availability of individual luminaires and strip-light systems gives the designer a wide variety of design possibilities.

Lighting panel



Spot, fixed



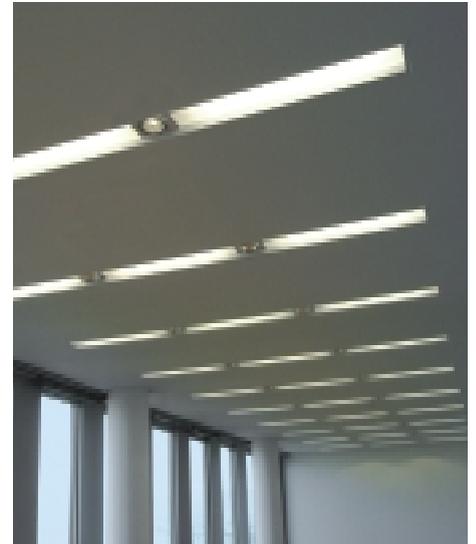
Spot, cardanic



Dual Light

Many different lighting moods can be produced by using two different light sources. Whether as a soft light or a precise spotlight, the dual function is not intrusive. The plane basic light source is a fluorescent lamp T5 supplemented by independent, concentrically arranged auxiliary lighting.

Combined with fixed or adjustable projection, this unit permits high vertical accentuation. Light sources for the auxiliary lighting are compact fluorescent lamps, LV halogen lamps and ceramic HID lamps such as CDM-T, CDM-TC or CDM-TM.



Module QR-111, fixed



Module QR-111, cardanic



Module QR-CBC 51, cardanic



Trimless Lighting Panels

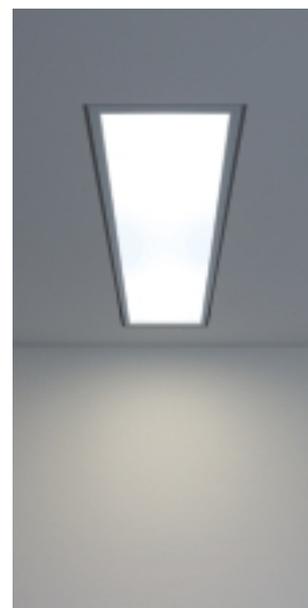
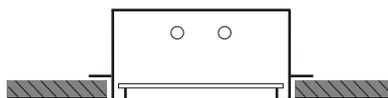
In this "hall of reflections," lighting panels are used as individual luminaires in trimless design. These individual luminaires have been specially adapted for installation in the acoustic ceiling. Daylight control, emergency lighting, sensor technology and air-conditioning are built-in. It was even possible to largely dispense with inspection holes since this facility is also provided by the lighting system.

Lighting Panels

Flooded with light due to the large-format glass front and featuring large reflective surfaces, the foyer makes use of flat lighting panels to provide uniform lighting that is free of transitions. The trimless lighting channels emphasise the room's architectural lines and the transition to the wall is virtually imperceptible.

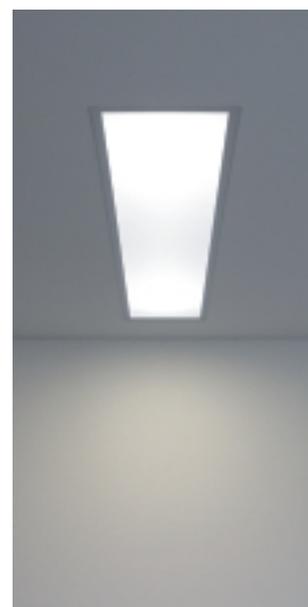
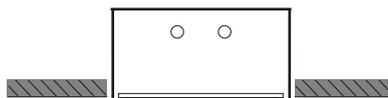
Lighting Panels – Shadow Gap

A filigree shadow gap running around the edge of the luminaire characterises the appearance of this integrated and therefore low-profile installation version. Intelligent accessories facilitate problem-free installation into the ceiling.



Lighting Panels – Frame

A filigree frame around the edge enables the lighting panels to be retro-fitted without problem in apertures cut in the ceiling. The special spring system ensures a secure hold and reduced installation costs.



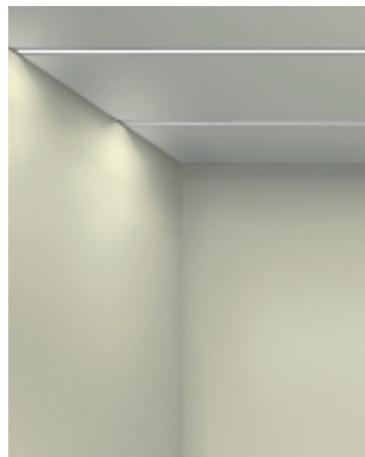
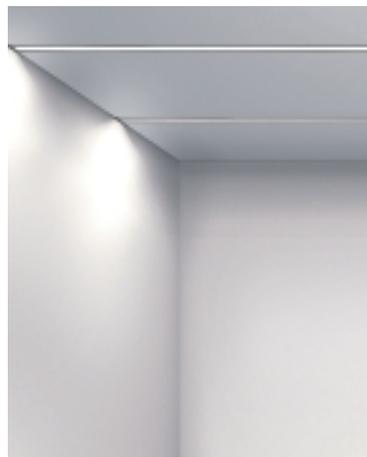
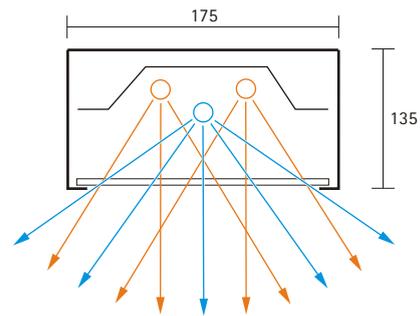
Lighting Control

To enable artificial lighting in indoor areas to have a natural effect, it should be adjusted to suit the circadian rhythm of the users. Altering the colour temperatures in line with the colour progression of natural light is, alongside brightness, the most significant factor when implementing biologically regulated light. In this way, periods of activity and rest can both be supported practically. In the mornings, the light is slightly bluish and has the

highest colour temperature. The red component in the colour of light increases as the evening approaches.

Lighting Technology

The light becomes biologically effective when large-area luminaires are aimed towards the human eye from above and from the front. This is the only way to reach large areas of the retina. The additional brightening of wall and ceiling surfaces augment this effect.

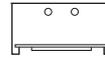


Multifunction Luminaires

Holistic building technology concepts reduce the construction costs and increase the flexibility. Multifunction luminaires offer a solution here by way of increased system integration without impairing the interior design.

Incorporation into the building technology is achieved using system adapters or complete system elements. Detailed clarification is required for customised, project-specific implementation.

Lighting panel



Air-conditioning technology



Sensor



Loudspeakers



Fire alarm detectors



Water sprinkler preparation



Lighting panels with integrated ventilation technology ►

Safety Luminaires

Independent luminaire inserts with or without single batteries are integrated as system elements in a non-maintained circuit. A wide variety of wattages allows the emergency lighting units to be used as safety or secondary lighting. Rescue signs can be integrated in continuous circuits or into reference luminaires by using optical lighting accessories. Easy revision of the additional elements allows usage of single batteries.

Fire Alarm Detectors

In principle conventional fire alarm detectors can also be integrated as a system element into the multifunctional luminaires. To ensure conformity with the current German VDE Guidelines, the possibility of integration must be checked in detail and must be confirmed by the fire alarm detector manufacturer with a certificate of compliance (German regulation for the German market).

Tone

Wide band loudspeakers are available as a system element. A bayonet lock allows them to be integrated, aligned and reversed.

Water Sprinkler

System adapters allow the installation of a covering plate with 50mm cut out hole.

Avoiding frictional connected luminaire the installation of suspended screen sprinklers and the supply of the sprinkler pipes can be realized.

A certificate of compliance by the water sprinkler manufacturer is recommended.

Special Equipment

Besides the mentioned basic elements further technical elements can be integrated in addition to the indicated basic modules. This includes: video monitors; alarm and sensor technology; revision elements for control valves and maintenance elements.



Air Conditioning Technology

In addition to the harmonious design styling, the combination of air conditioning and lighting technology also reduces installation time by reducing the ceiling cut-outs. System adapters allow the integration of additional elements at the same time fulfilling various climatic demands. A spatial separation of individual technical elements guarantees highly efficient individual functions. Controllable integration of air input and output.

Lighting Panels

► Individual Luminaire

As a design aid we distinguish between individual luminaires and system luminaires. Individual luminaires are ready-to-connect one-piece units. They are prepared for installation as per mounting system F. The delivery includes the system related accessories including the end plates, the electrical components and the lens system.

► System Luminaire

Lighting channel system designed as a custom-length luminaire with which different system components can be individually combined. This makes it possible for luminaire arrangements that delineate a room or area to be realised according to the designer's plans. The detailed design-work for such a system is done by our design department.

Mounting Systems:



SYSTEM F
Mounting with retention springs

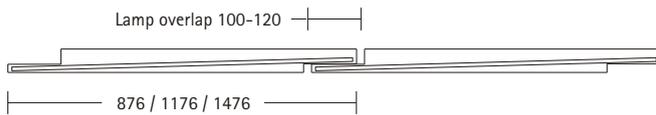


SYSTEM K
Mounting on stud bolts

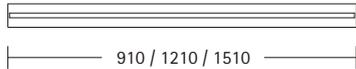


SYSTEM H
Mounting on auxiliary construction

Unit length for lighting panels in overlapping formation:



Unit length for lighting panels:

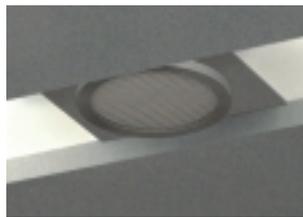


Mounting System F

The luminaire is clipped into the ceiling tool-free using patented retention springs. For ceiling thicknesses of up to 25mm.

► System Components

The system components shown here are just a small excerpt of the current range of accessories that are available. More detailed design documents and an overview of the entire product range can be downloaded from our homepage as PDF files.



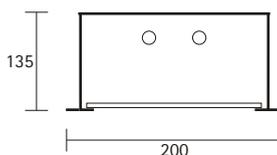
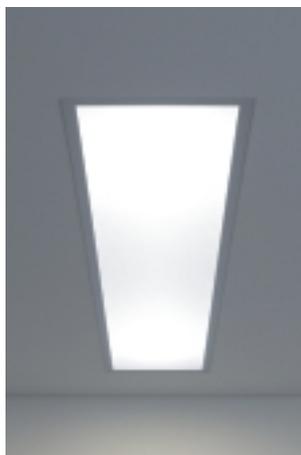
Receptacle module for technical components
Art. No. 1400.097



Module for luminaire unit
Art. No. 1400.096

Lighting Panels

Individual luminaires made of sharply folded, galvanised sheet-steel with a narrow frame. Alternatively available as a trimless version or with a shadow gap to suit various ceiling situations. Complete luminaire with MultiPower technology electronic control gear. Also available as a controllable version with DALI or 1-10V interface. Equipped for T5, HE/HO fluorescent lamps. Prewired with heat-resistant cable and ready-to-connect. Luminaire covered with a wide-beam diffuser made of highly dispersing, opal acrylic with satin-frosted surface finish. Alternatively also available with photometrically calculated microprism cover.



			T16 HO 	39W 65	49W 65	54W 65	80W 65
			T16 HE 	21W 65	28W 65	35W 65	

		Article No.	ECG	Lamp version						
Single luminaire										
	ED=200x 910mm	CCO=180x 890mm	1400.221	-.02	2 x T16	21/39W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ED=200x1210mm	CCO=180x1190mm	1400.228	-.02	2 x T16	28/54W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ED=200x1510mm	CCO=180x1490mm	1400.235	-.02	2 x T16	35/49/80W	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ED=200x 910mm	CCO=180x 890mm	1401.321	-.10	2 + 1 x T16	21/39W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ED=200x1210mm	CCO=180x1190mm	1401.328	-.10	2 + 1 x T16	28/54W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	ED=200x1510mm	CCO=180x1490mm	1401.335	-.10	2 + 1 x T16	35/49/80W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Version				
<input type="checkbox"/>				
Acryl diffuser	Daylight control	White	Silver C3	Made to RAL
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				

Imprint

SEEGER

Technische Leuchten e. K.
Schwerter Str. 324
D-44287 Dortmund
Germany

Tel: +49 231- 44 10 92

Fax: +49 231- 44 10 76

info@seeger-licht.de

www.seeger-licht.de

VAT ID no.: DE 124779953

Tax no.: 315/5231/0060

Amtsgericht Dortmund

(Local first-instance court)

Commercial Register No.: HRA 16 133

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