

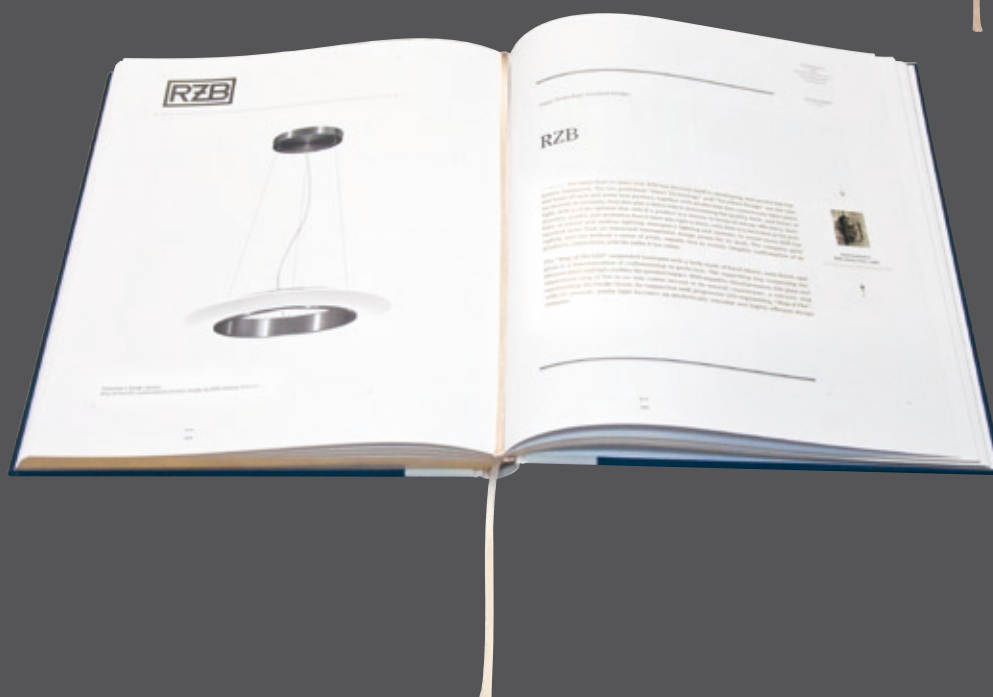


LIGHT INFORMATION 2014

NEW PRODUCTS LIGHT+BUILDING 2014

RZB FEATURING IN THE EDITION OF “THE MAJOR GERMAN BRANDS.”

To mark their 60th anniversary the Rat fuer Formgebung (German Design Council) have published a book with the title “Die großen deutschen Marken.” (The major German brands.) including portraits of design oriented and sustainably successful German companies and their history. To be among the 60 companies included in this book is a great honour for our company RZB in Bamberg being a worldwide active supplier of lighting fixtures.



INDOOR LIGHTING

Wall luminaires



45 49

Ceiling luminaires



32 46 41 42

Ceiling and wall luminaires



52 54 57 58 59 60 61

Pendant luminaires



11 15 33 37 39 40 47

Modular and linear luminaires



22 24 26-28 29 32 33 35

LED linear systems



18 18 20 20

Recessed downlights



64 66 68 70 71 72 74

Projectors Highbay luminaires



75 76 77 78 79

Light management



30

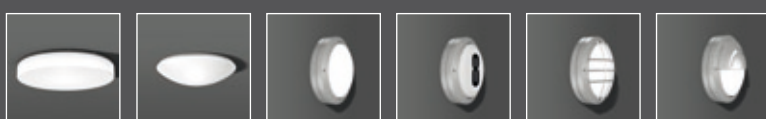
OUTDOOR LIGHTING

In-ground luminaires Floodlights Pathway luminaires



84 85 86 87 89 90

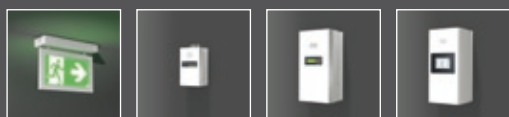
Ceiling and wall luminaires



92 93 96 97 98 99

EMERGENCY LIGHTING

Exit signs Emergency power supply units Decentralised emergency lighting supply (LPS system)



102 104 105 106

light+building 2014: New record number of visitors

The fair in Frankfurt, which is by far the biggest light fair in the world, closed its doors on April 4 after having seen 211.500 visitors from 161 different countries compared to 195.582 visitors in 2012. This is a new record number for the fair with 8% more visitors than 2012. The Fair's visitors took advantage of the opportunity to learn about the innovations of the 2458 exhibiting companies.

With 75 years of experience in the lighting business RZB – operating worldwide from Bamberg, Germany – emphasized “SMART TECHNOLOGY. EXCELLENT DESIGN” on their stand. Visitors were impressed by RZB's product innovations in energy efficient lighting for offices, shops, indoor and outdoor areas as well as emergency lighting.



Some of the RZB highlights at the light + building 2014 were the minimalistic LED Linear System LESS IS MORE and the versatile LED range of series SIDELITE® including the pendant luminaire SIDELITE® FerroMurano made of coloured, mouth-blown glass. The possibility of saving up to 80% of the energy used to light high spaces with the LED pendant fitting RALITE® HIGHBAY was impressive to visitors. RZB's dynamic lighting solutions for the outstanding topic of the fair – Health and Light or so-called Human Centric Lighting were very interesting to visitors. RZB's minimalistic emergency lighting fixtures and the LPS (Low Power Supply) central battery system RZBeasy PRO, which is easy to configure and operate, were also of major interest to visitors.



smarttechnology excellentdesign



We want YOU!

The most beautiful RZB projects.

Win an exciting and valuable prize by submitting an exceptionally creative or innovative project featuring RZB lighting fixtures.



Café Moskau »Avenue Club«
studio karhard® | Berlin
Light installation - Crystal Glass Luminaires



Museum of Architectural Drawing
Tchoban Architekten | Moskau | Berlin
Escape route illumination - Edo



Day-care centre St. Nikolaus
Fischer | Summerer Architekten | Bonn
Ceiling Design - Flatliner

TIME FRAME

Submissions will be accepted from
April 1 until December 31, 2014



WHO CAN PARTICIPATE

Architects, electrical engineers, installers, consultants and lighting designers.

PRIZE DRAWING

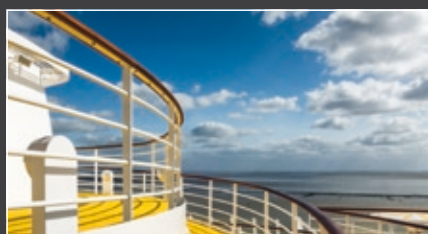
A prize drawing for 75 prizes will be held on March 15, 2015 in the presence of a notary.

HOW TO PARTICIPATE

- Projects with a value exceeding EUR 7500,-
- Projects that will be completed from April until December 2014
- Register your project on www.rzb-lighting.com
- Indicate the address of the project, the products used in it, and the price that was charged for it.
- Documentation; pictures of the project

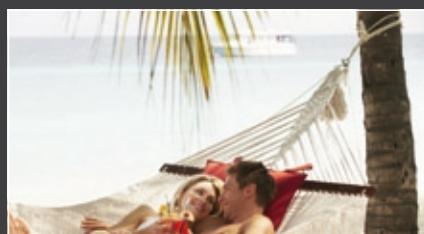
First Prize

€ 4000 travel voucher



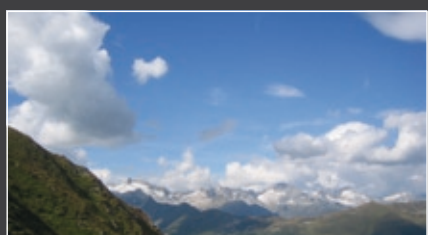
Second Prize

€ 2500 travel voucher



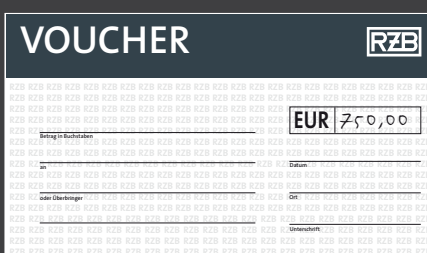
Third Prize

€ 1000 travel voucher



4th – 10th Prize

€ 750 product voucher
for RZB lighting fixtures



11th – 25th Prize

iPad Air | 16 GB | Wi-Fi



26th – 75th Prize

TURTLE. The portable designer light.



WWW.ELCOME TO THE RZB WEBSITE

On our website you can find out everything you've ever wanted to know or ever will want to know about our products, from data sheets, to application domains, to case studies. Plus you will find here a handy lighting calculation tool for your home, office or factory. And, of course, you can order samples, search for products, spare parts, and download our various catalogues.

You can access our website via www.rzb-lighting.com or our QR codes.

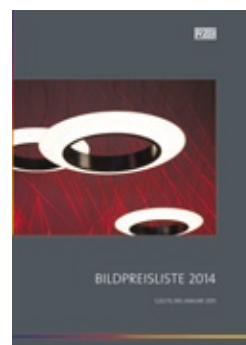


CATALOGUES AND BROCHURES: THE WORLD'S BEST PLANNING ASSISTANTS

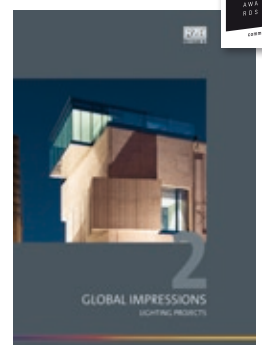
The application domains and usage options of our luminaires and luminaire systems are as manifold as our product portfolio itself.

Our catalogues and brochures provide you with clearly structured information and are highly useful tools when it comes to planning your lighting projects. To this end, you will find here a whole host of free of charge product brochures and catalogues in various languages.

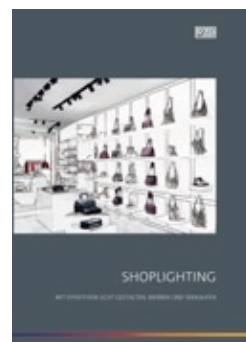
www.rzb.de/en/services/catalogues-brochures



Product Selection Guide



Projects Reports in
Global Impressions 2

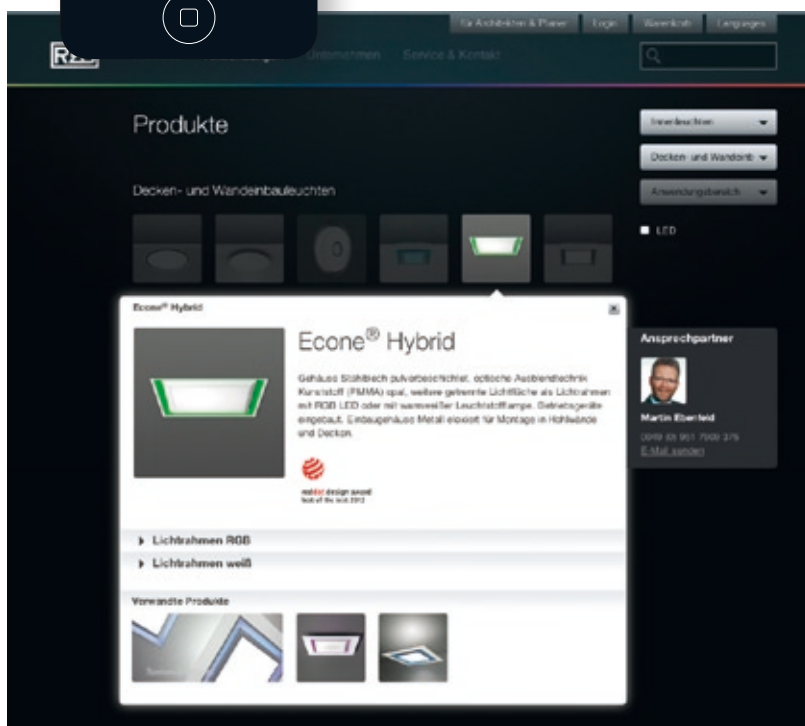
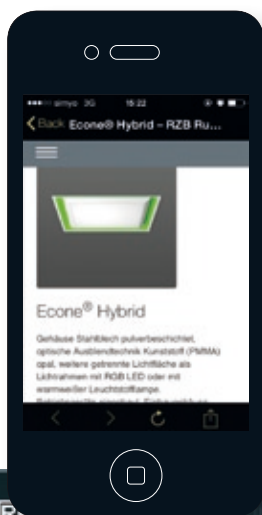
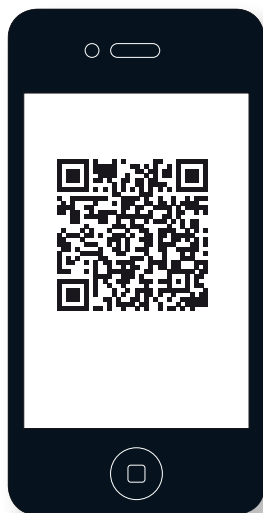


Special Shoplighting



Special Light Management

This catalogue contains complete information concerning the type, design, accessories, and dimensions of our entire portfolio of luminaires, while the QR codes provide instantaneous information concerning product variants, instruction manuals, and lighting calculations.



QR CODES: LESS PAPER, MORE INFORMATION.

If you are going to claim that achieving the greatest possible efficiency goes without saying, you've also got to put your money where your mouth is by availing yourself of every opportunity to make all of your processes simpler, more economical, and more environmentally sustainable.

We do this through the use of quick response (QR) codes, which are assigned to each product family and can be readily scanned by your smartphone or tablet computer. This saves loads of paper and enables you to obtain the exact information you are looking for instantaneously.

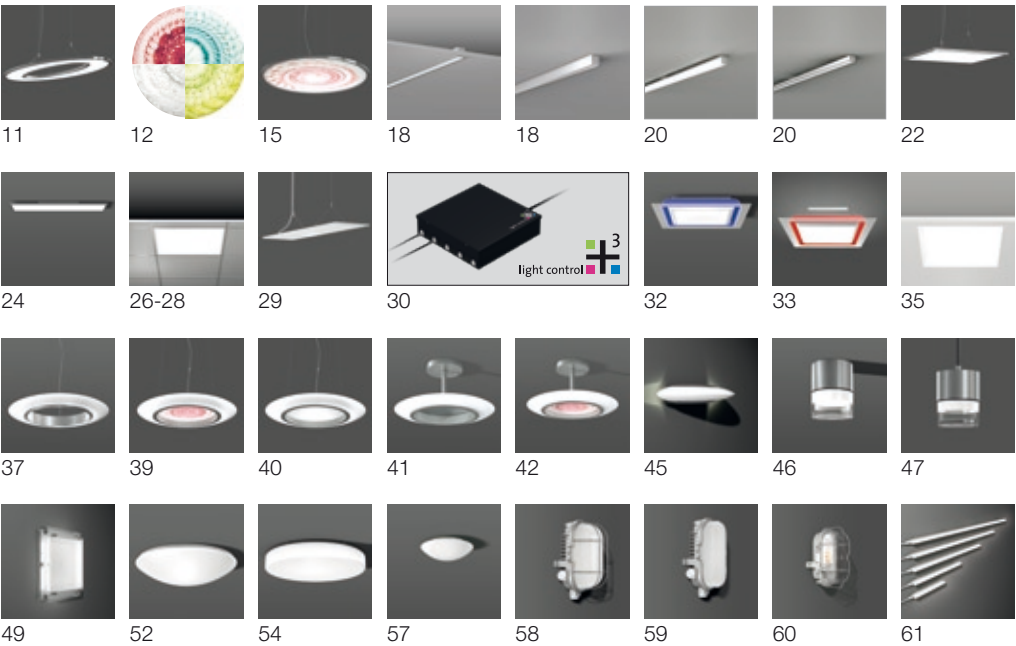
For example, have a look at the catalogue page screenshot to the left. If you scan in the QR code that is indicated for our Econe Hybrid luminaires, your smartphone or tablet computer will show the picture you see to the left. And from there, you can call up additional product information, define bookmarks and, of course, also navigate to other RZB website pages.

All versions and lamps pertaining to the luminaires contained in this catalogue can be found at www.rzb-lighting.com or in our latest Product Selection Guide.



INDOOR LIGHTING

Ceiling, wall and
pendant luminaires





- Side light emission using LEDs
- Application of latest LED technology in minimalistic design
- Control gears integrated in the canopy
- This lighting fixture's prismatic plastic diffuser is incorporated into a merely 15 mm thick extruded aluminium profile.
- Direct and/or indirect light emission
- Sleek design featuring an eye-catching elliptical shape allows for unique interior lighting that creates a feeling of spaciousness.
- Colour temperature 3000 K or 4000 K
- Rated life: approx. 50 000 hours



SIDELITE® ELLYPSOID

Pendant luminaires

Type of protection: **IP 40**

Protection class: I

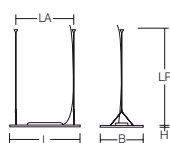
Suspension length: 500 - 1200 mm

Cover: aluminium, lacquered. Anodised aluminium frame. Diffuser: PMMA plastic, opal/micropismatic (suitable for use in environments with computer screens in accordance with EN 12464-1). Canopy aluminium lacquered, L 550, B 42, H 29 mm. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request. Driver included. Side light emission using LEDs.

LED included.

Available colour: aluminium, anodised

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Pendant luminaires					
Light emission 100% direct					
311577.000	L 1204, B 521, H 15	LED	74 W	830	5850 lm
311577.000.76	L 1204, B 521, H 15	LED	74 W	830	5850 lm
311577.000.1	L 1204, B 521, H 15	LED	74 W	840	6650 lm
311577.000.1.76	L 1204, B 521, H 15	LED	74 W	840	6650 lm
Light emission 60% direct - 40% indirect					
311662.000	L 1204, B 521, H 15	LED	74 W	830	*
311662.000.76	L 1204, B 521, H 15	LED	74 W	830	*
311662.000.1	L 1204, B 521, H 15	LED	74 W	840	*
311662.000.1.76	L 1204, B 521, H 15	LED	74 W	840	*

* Values: see www.rzb-lighting.com

Comparison

LED : conventional lamps

LED 74 W ≈ 2 x 35 W T16 (75 W EB)
 ≈ 4 x 21 W T16 (90 W EB)
 ≈ 2 x 58 W T26 (134 W CB)





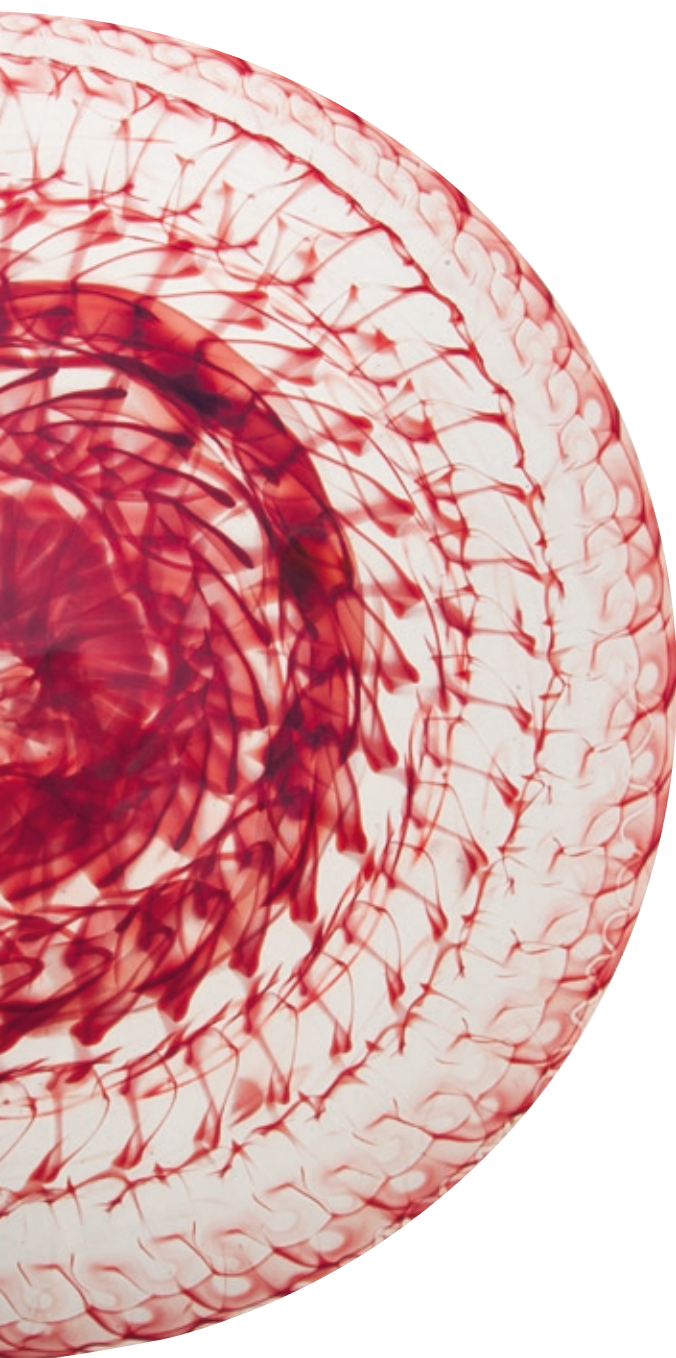
Venice Legend

The venetian art of glassmaking is considered legendary to this day. Pioneers of this craft, like the world famous company Ferro from Murano, have been keeping this tradition carefully over many generations and share their know-how advisedly selected. The cooperation of the old master Guido Ferro and the established luminaire-designer Helmut Heinrich from RZB unite the venetian art of glassmaking and the high standards in design and technology of RZB; it is cross-border appreciation and synergy at the same time. The result is a liaison between glass and light that definitely can be regarded as epic work.

More than 700 years of craftsmanship, tradition and passion "à la Ferro" make each of the hand-blown glass panels a touchingly beautiful individual item. Each millimetre of this "levitating" circle is steeped in light; the seamless, almost playful colouring of the Murano glass is brought to life in a fascinating way. Great designing skills, construction expertise that has been perfected over decades and pathbreaking LED technology were required to create such even light control and luminance. Through this, the quality and substance of RZB LUMINAIRES FerroMurano are rationally explained - but not its almost magic aesthetics. It remains a secret.

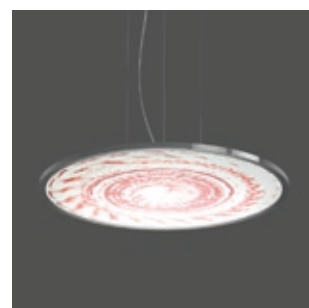
Each legend lives through one...



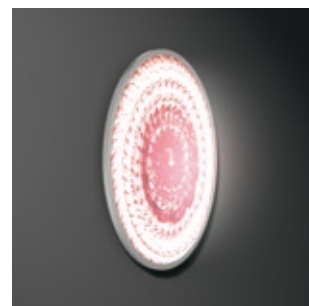


**Luminaires with glass
FerroMurano:**

Sidelite® Round FerroMurano
Pendant luminaire
Page 15



Sidelite® Round FerroMurano
Ceiling and wall luminaire
On request



Ring of Fire® FerroMurano
Pendant luminaire
Page 39



Ring of Fire® FerroMurano
Ceiling luminaire
Page 42





- Side light emission using LEDs
- Application of latest LED technology in minimalistic design
- Control gears integrated in the canopy
- This lighting fixture's prismatic plastic diffuser is incorporated into a merely 15 mm thick extruded aluminium profile.
- This distinctive lighting fixture features hand-crafted FerroMurano glass inserts available in four different colours, or a prismatic/opal plastic diffuser.
- Colour temperature 3000 K or 4000 K
- Rated life: approx. 50000 hours
- Colour rendering index > 80
- Made in Germany



SIDELITE® ROUND

Pendant luminaires

Type of protection: **IP 40**

Protection class: I

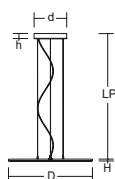
Suspension length: 500 - 1200 mm

Cover: aluminium, lacquered. Anodised aluminium frame. Diffuser: PMMA plastic, opal/micropismatic (suitable for use in environments with computer screens in accordance with EN 12464-1). Canopy aluminium anodised, D 263 mm, H 40 mm. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Driver included. Side light emission using LEDs.

LED included.

Available colour: aluminium, anodised

LED



Ref. No.

Dimensions

Lamp System power

Light colour

Luminaire flux

Pendant luminaires

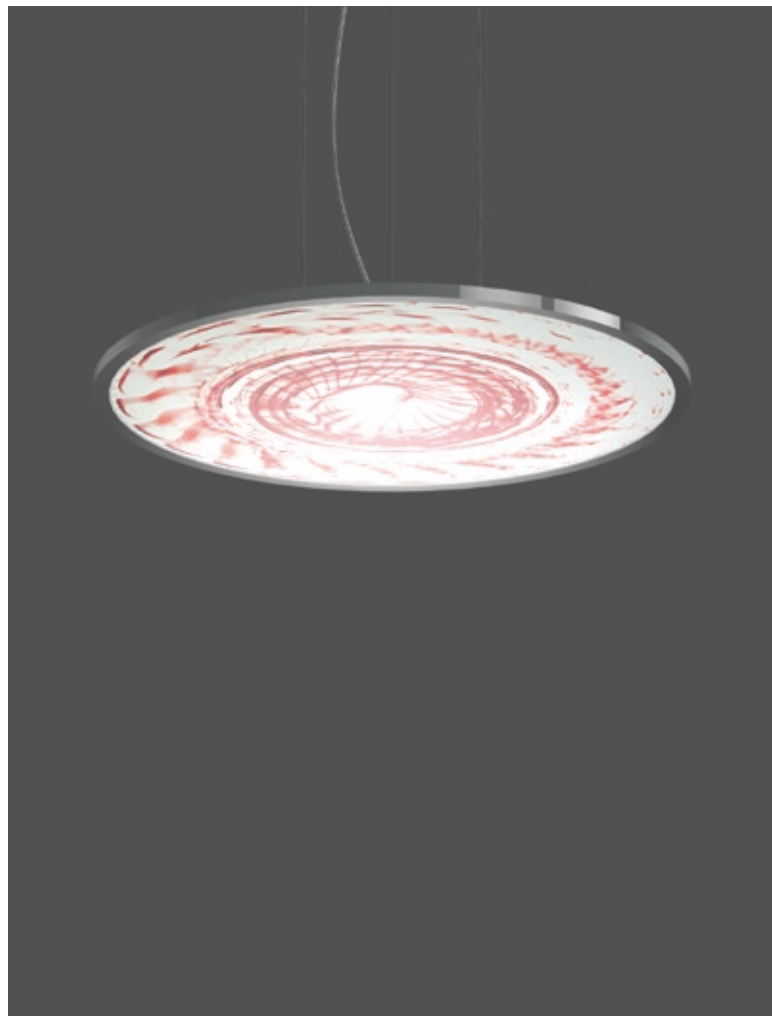
Diffuser: plastic (PMMA) opal/micropismatic

311681.000	D 677, H 15	LED 53 W	830	3950 lm
311681.000.76	D 677, H 15	LED 53 W	830	3950 lm
311681.000.1	D 677, H 15	LED 55 W	840	4500 lm
311681.000.1.76	D 677, H 15	LED 55 W	840	4500 lm

Comparison

LED : conventional lamps

LED 53/55 W ≈ 2 x 28 W T16 (61 W EB)
 ≈ 4 x 14 W T16 (68 W EB)
 ≈ 4 x 18 W T26 (92 W CB)



SIDELITE® ROUND FerroMurano

Pendant luminaires

Type of protection: **IP 40**

Protection class: I

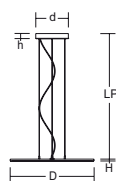
Suspension length: 500 - 1200 mm

Cover: aluminium, lacquered. Anodised aluminium frame. Diffuser: handcrafted, coloured glass FerroMurano. Canopy aluminium anodised, D 263 mm, H 40 mm. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Driver included. Side light emission using LEDs.

LED included.

Available colour: aluminium, anodised

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Pendant luminaires					
Glass FerroMurano red					
311677.000	D 677, H 15	LED	54 W	830	2650 lm
311677.000.76	D 677, H 15	LED	54 W	830	2650 lm
311677.000.1	D 677, H 15	LED	54 W	840	2800 lm
311677.000.1.76	D 677, H 15	LED	54 W	840	2800 lm
Glass FerroMurano blue					
311678.000	D 677, H 15	LED	54 W	830	2250 lm
311678.000.76	D 677, H 15	LED	54 W	830	2250 lm
311678.000.1	D 677, H 15	LED	54 W	840	2500 lm
311678.000.1.76	D 677, H 15	LED	54 W	840	2500 lm
Glass FerroMurano green					
311679.000	D 677, H 15	LED	54 W	830	2550 lm
311679.000.76	D 677, H 15	LED	54 W	830	2550 lm
311679.000.1	D 677, H 15	LED	54 W	840	2700 lm
311679.000.1.76	D 677, H 15	LED	54 W	840	2700 lm
Glass FerroMurano white					
311693.000	D 677, H 15	LED	54 W	830	2950 lm
311693.000.76	D 677, H 15	LED	54 W	830	2950 lm
311693.000.1	D 677, H 15	LED	54 W	840	3100 lm
311693.000.1.76	D 677, H 15	LED	54 W	840	3100 lm

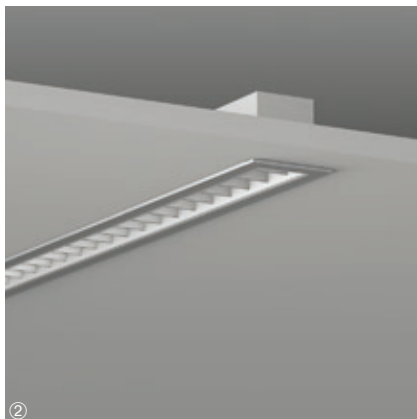
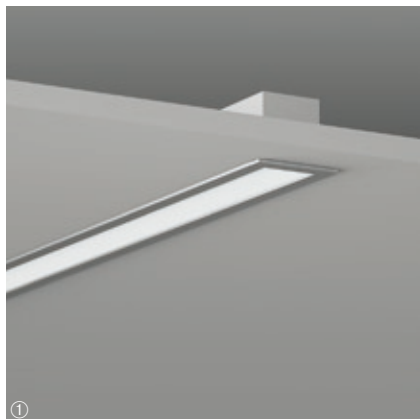
Further information on coloured FerroMurano glass as well as an overview of additional FerroMurano RZB luminaires can be found on pages 12 and 13 of this "Light Information" or at www.rzb-lighting.com



15:50

 erfal





- ① Recessed system with opal or prismatic diffuser
- ② Recessed system with louvre
- ③ Pendant luminaires with opal or prismatic cover, or with louvre; with single- and double-sided light emission (up & down)
- ④ Surface mounted system with opal or prismatic diffuser
- ⑤ Surface mounted system with louvre



- Tailor-made manufacturing
- Free choice of direct / indirect
- Universal mounting recessed, on a surface or suspended
- Profile reduced to the max
- Ready for homogeneous light lines
- Choice of different lumen per metre
- Available light colours 830, 840
- Aluminium anodised
- Simple installation
- High CRI ≥ 82
- UGR ≤ 19
- Can be used in conjunction with RZB's light control +³ lighting management system



LESS IS MORE®

Recessed, surface mounted and pendant luminaires

Type of protection: **IP 40**

(ballasts IP 20)

Protection class: I

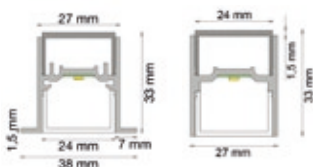
Suspension length: 300 - 1500 mm

Housing: aluminium profile, choice of louvres and prismatic or opal diffusers. External driver, choice of standard or DALI.

LED included.

Available colour: aluminium, anodised

LED



Comparison

LED : conventional lamps

LED 16 W/m \approx 1 x 14 W T16 (16 W EVG) opal

LED 20 W/m \approx 1 x 21 W T16 (24 W EVG) prism.
 \approx 1 x 28 W T16 (31 W EVG) louvre

LED 27 W/m \approx 1 x 28 W T16 (31 W EVG) prism.
 \approx 1 x 35 W T16 (38 W EVG) louvre

Dimensions Lamp/Wattage Light colour Luminaire flux UGR

Recessed system

with opal diffuser for corridors

L 90-3000, B 38, H 1,5, HE 33 LED 16 W/m 830/840 830 lm/m 22

with prismatic diffuser for office spaces

L 90-3000, B 38, H 1,5, HE 33 LED 20 W/m 830/840 1328 lm/m 19

with louvre for office spaces

L 450-3000, B 38, H 1,5, HE 33 LED 20 W/m 830/840 1889 lm/m 19

Surface mounted system/Pendant system

with opal diffuser for corridors

L 90-3000, B 27, H 33 LED 16 W/m 830/840 830 lm/m 22

with prismatic diffuser for office spaces

L 90-3000, B 27, H 33 LED 20 W/m 830/840 1328 lm/m 19

with louvre for office spaces

L 90-3000, B 27, H 33 LED 20 W/m 830/840 1889 lm/m 19

Pendant luminaires/Pendant system for office spaces

direct light emission

with prismatic diffuser

L 1350, B 27, H 33 LED 27 W 830/840 1793 lm 19

with louvre

L 1350, B 27, H 33 LED 27 W 830/840 2550 lm 19

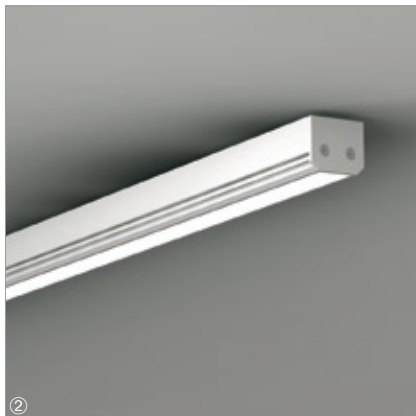
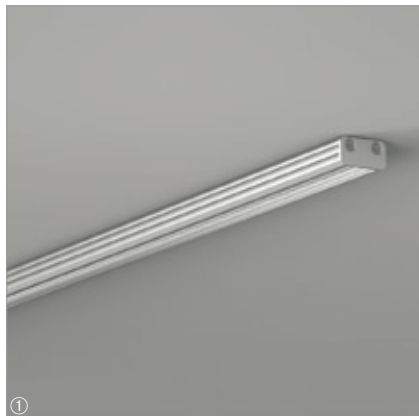
direct and indirect light emission

with prismatic lower diffuser, opal upper diffuser

L 1350, B 27, H 33 LED 27 W down 830/840 1793 lm 19
 LED 14 W up 953 lm

with louvre, opal upper diffuser

L 1350, B 27, H 33 LED 27 W down 830/840 2550 lm 19
 LED 14 W up 953 lm



- ① Linear system with end caps
- ② Linear system with clip profile and caps



- ③ Linear system with opal diffuser and end caps
- ④ Linear system with clip profile, end caps and opal diffuser



- Tailor-made manufacturing
- Can be used as a continuous run lighting system
- Up to 1900 lm per meter
- Light colours: 3000 K, 4000 K or RGB
- IP 40 version with opal diffuser made of UV resistant PMMA
- Resin coated IP 67 version
- Temperature optimized
- Can be controlled via DALI
- Great energy savings compared to conventional linear systems
- Can be used in conjunction with RZB's light control +³ lighting management system



LINEAR SYSTEM

LED linear systems

Type of protection: **IP 40/IP 67**, ballasts IP 20
Protection class: III

LED



Housing element: anodised aluminium, IP 67 resin coated LED element (opaque resin coating for white light). Beam angle 112°. 1.5 m connection cable, double insulated, with open ends; exit from behind via groove to the side, end cap without groove. Fastening: M4 stainless steel nuts and two magnetic holders.

Modular design: Converters for LED profiles must be ordered separately.

Available colour: aluminium, anodised

Dimensions

Lamp/Wattage

Light colour

Luminaire flux

① LED linear systems

L 900, B 18, H 10	LED 16 W/m	830/840	1382 lm
L 900, B 18, H 10	LED 20 W/m	830/840	1728 lm
L 900, B 18, H 10	LED 12 W/m	RGB	
L 1350, B 18, H 10	LED 16 W/m	830/840	2074 lm
L 1350, B 18, H 10	LED 20 W/m	830/840	2592 lm
L 1350, B 18, H 10	LED 12 W/m	RGB	
L 1800, B 18, H 10	LED 16 W/m	830/840	2765 lm
L 1800, B 18, H 10	LED 20 W/m	830/840	3456 lm
L 1800, B 18, H 10	LED 12 W/m	RGB	

LED converter

Electronic transformer for 900 mm DALI
Electronic transformer for 1350 mm DALI
Electronic transformer for 1800 mm DALI
Electronic transformer for RGB

Accessories

② Clip profile with end caps

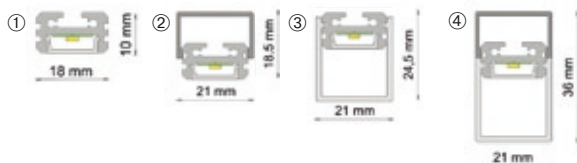
L to 3000, B 21, H 12,75

③ Opal diffuser with end caps

L to 3000, B 21, H 23,3

④ Clip profile and opal diffuser with end caps

L 900-1800, B 21, H 36



- Aesthetically pleasing low profile luminaires that integrate advanced LED technology
- This series comprises:
 - pendant luminaires, surface-mounted ceiling and wall luminaires, recessed ceiling luminaires, as well as lay-in luminaires for interiors
- RZB SIDELITE® technology:
 - Side light emission using LEDs for extremely homogeneous light distribution
- Rated life: 50000 hours (LED included)
- Up to 90 percent energy savings compared to luminaires that are fitted with conventional lamps (when used in conjunction with RZB's light control+³ light management system)
- Diffusers available in PMMA, opal or microprismatic/opal (suitable for computer workstations in accordance with EN 12464-1, UGR < 19)
- Dimmable DALI
- Available in two different shapes and in different sizes
- Steplessly adjustable 2-point steel cable suspension
- Easy plug-in installation



SIDELITE®

Ceiling and wall luminaires

Type of protection: **IP 40**

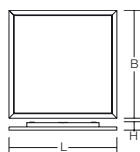
Protection class: I



Cover: sheet steel, powder-coated. Anodised aluminium frame. Diffuser: PMMA plastic, opal or microprismatic/opal (suitable for use in environments with computer screens in accordance with EN 12464-1). Driver included. Side light emission using LEDs.

LED included.

Available colour: 4 = aluminium, anodised



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
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Ceiling and wall luminaires

Length L 298 mm x width B 298 mm

Diffuser: plastic, opal

311628.004	L 298, B 298, H 49	LED	25 W	830	1700 lm	24,3
311628.004.76	L 298, B 298, H 49	LED	25 W	830	1700 lm	24,3
311628.004.1	L 298, B 298, H 49	LED	25 W	840	1900 lm	24,3
311628.004.1.76	L 298, B 298, H 49	LED	25 W	840	1900 lm	24,3

Diffuser: plastic, opal, with single-sided micro prisms

311629.004	L 298, B 298, H 49	LED	25 W	830	1550 lm	21,1
311629.004.76	L 298, B 298, H 49	LED	25 W	830	1550 lm	21,1
311629.004.1	L 298, B 298, H 49	LED	25 W	840	1750 lm	21,1
311629.004.1.76	L 298, B 298, H 49	LED	25 W	840	1750 lm	21,1

Length L 598 mm x width B 598 mm

Diffuser: plastic, opal

311578.004	L 598, B 598, H 49	LED	48 W	830	4250 lm	21,1
311578.004.76	L 598, B 598, H 49	LED	48 W	830	4250 lm	21,1
311578.004.1	L 598, B 598, H 49	LED	48 W	840	4350 lm	21,1
311578.004.1.76	L 598, B 598, H 49	LED	48 W	840	4350 lm	21,1

Diffuser: plastic, opal, with single-sided micro prisms

311632.004	L 598, B 598, H 49	LED	48 W	830	4050 lm	18,3
311632.004.76	L 598, B 598, H 49	LED	48 W	830	4050 lm	18,3
311632.004.1	L 598, B 598, H 49	LED	48 W	840	4150 lm	18,3
311632.004.1.76	L 598, B 598, H 49	LED	48 W	840	4150 lm	18,3

Comparison

LED : conventional lamps

LED 25 W ≈ 1 x 28 W T16 (31 W EB)
 ≈ 2 x 14 W T16 (34 W EB)
 ≈ 2 x 18 W T26 (46 W CB)

LED 48 W ≈ 2 x 28 W T16 (61 W EB)
 ≈ 4 x 14 W T16 (68 W EB)
 ≈ 4 x 18 W T26 (92 W CB)



© Moritz Hillebrand



SIDELITE®

Pendant luminaires

Type of protection: **IP 40**

Protection class: I

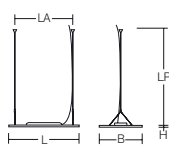
Suspension length: 300 - 3000 mm

Cover: sheet steel, powder-coated. Anodised aluminium frame. Diffuser: PMMA plastic, opal or microprismatic/opal (suitable for use in environments with computer screens in accordance with EN 12464-1). 2-point steel cable suspension, steplessly adjustable. Special lengths available on request. Driver included. Side light emission using LEDs.

LED included.

Available colour: 4 = aluminium, anodised

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
Pendant luminaires						
Diffuser: plastic, opal						
311630.004	L 598, B 598, H 46	LED	48 W	830	4250 lm	21,1
311630.004.76	L 598, B 598, H 46	LED	48 W	830	4250 lm	21,1
311630.004.1	L 598, B 598, H 46	LED	48 W	840	4350 lm	21,1
311630.004.1.76	L 598, B 598, H 46	LED	48 W	840	4350 lm	21,1
Diffuser: plastic, opal, with single-sided micro prisms						
311631.004	L 598, B 598, H 46	LED	48 W	830	4050 lm	18,3
311631.004.76	L 598, B 598, H 46	LED	48 W	830	4050 lm	18,3
311631.004.1	L 598, B 598, H 46	LED	48 W	840	4150 lm	18,3
311631.004.1.76	L 598, B 598, H 46	LED	48 W	840	4150 lm	18,3
Accessories						
981948.002	L 188, B 42, H 29	Canopy for standard version (3 pole)				
981947.002	L 188, B 42, H 29	Canopy for DALI version (5 pole)				



- Aesthetically pleasing low profile luminaires that integrate advanced LED technology
- This series comprises:
pendant luminaires, surface-mounted ceiling and wall luminaires
- RZB SIDELITE® technology:
lateral light injection for extremely homogeneous light distribution
- Rated life: 50000 hours (LED included)
- Up to 90 percent energy savings compared to luminaires that are fitted with conventional lamps (when used in conjunction with RZB's light control+³ light management system)
- Diffusers available in PMMA, opal or microprismatic/opal (suitable for computer workstations in accordance with EN 12464-1, UGR < 19)
- Dimmable DALI
- Available in two different shapes and in different sizes
- Steplessly adjustable 2-point steel cable suspension
- Easy plug-in installation



SIDELITE®

Ceiling and wall luminaires

Type of protection: **IP 40**

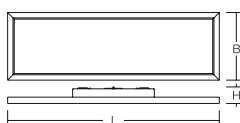
Protection class: I

Cover: sheet steel, powder-coated. Anodised aluminium frame. Diffuser: PMMA plastic, opal or microprismatic/opal (suitable for use in environments with computer screens in accordance with EN 12464-1). Driver included. Side light emission using LEDs.

LED included.

Available colour: aluminium, anodised

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
Ceiling and wall luminaires						
Length L 1198 mm x width B 298 mm						
Diffuser: plastic, opal						
311579.004	L 1198, B 298, H 49	LED	56 W	830	4300 lm	21,3
311579.004.76	L 1198, B 298, H 49	LED	56 W	830	4300 lm	21,3
Diffuser: plastic, opal, with single-sided micro prisms						
311637.004	L 1198, B 298, H 49	LED	56 W	830	4250 lm	18,3
311637.004.76	L 1198, B 298, H 49	LED	56 W	830	4250 lm	18,3
Light colour 840 on request						

Comparison

LED : conventional lamps

LED 38 W	≈	2 x 21 W T16 (45 W EB)
	≈	3 x 14 W T16 (46 W EB)
	≈	3 x 18 W T26 (78 W CB)



© Jung2



SIDELITE®

Pendant luminaires

Type of protection: **IP 40**

Protection class: I

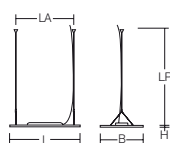
Suspension length: 300 - 3000 mm

Cover: sheet steel, powder-coated. Anodised aluminium frame. Diffuser: PMMA plastic, opal or microprismatic/opal (suitable for use in environments with computer screens in accordance with EN 12464-1). 2-point steel cable suspension, steplessly adjustable. Special lengths available on request. Driver included. Side light emission using LEDs.

LED included.

Available colour: aluminium, anodised

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
Pendant luminaires						
Diffuser: plastic, opal						
311635.004	L 1198, B 298, H 46	LED	56 W	830	4300 lm	21,3
311635.004.76	L 1198, B 298, H 46	LED	56 W	830	4300 lm	21,3
Diffuser: plastic, opal, with single-sided micro prisms						
311636.004	L 1198, B 298, H 46	LED	56 W	830	4250 lm	18,3
311636.004.76	L 1198, B 298, H 46	LED	56 W	830	4250 lm	18,3
Light colour 840 on request						
Accessories						
981948.002	L 188, B 42, H 29	Canopy for standard version (3 pole)				
981947.002	L 188, B 42, H 29	Canopy for DALI version (5 pole)				



SIDELITE® ECO

Ceiling and wall luminaires, recessed ceiling luminaires

Type of protection: **IP 40**

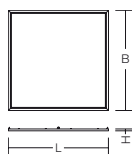
Protection class: I

Frame: aluminium, powder-coated. Diffuser: plastic, opal. Side light emission using LEDs. External driver (Height 32 mm).

LED included.

Available colour: 2 = white

LED



- Extremely cost efficient luminaires with advanced LED technology, available as ceiling, wall, recessed or suspended lighting solutions for interiors.
- Ideal replacement for conventional light sources (2 x 26 W TC-D, 4 x 18 W T8, 4 x 14 W T5), with up to 90 percent energy savings when used in conjunction with the RZB light control+³ lighting control system.
- Ideal for computer workstations and for settings subject to glare restrictions (the micro-prismatic opal variant is DIN compliant; universal glare rating (UGR) 19 or less).
- Suitable for use in 600 and 625 module grid ceilings and for installation in the attendant ceiling openings
- RZB SIDELITE technology: lateral light injection allows for exceptionally homogenous luminance distribution.
- Up to 93 lumens per watt
- Extremely compact design (12 mm high)
- Extremely simple converter installation via a rotary plug-in system



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
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Recessed and surface mounted luminaires

Diffuser: plastic, opal

311663.002	L 295, B 295, H 45	LED	23 W	830	1850 lm	23,5
311663.002.76	L 295, B 295, H 45	LED	23 W	830	1850 lm	23,5
311663.002.1	L 295, B 295, H 45	LED	23 W	840	2050 lm	23,5
311663.002.1.76	L 295, B 295, H 45	LED	23 W	840	2050 lm	23,5

Mounting set must be ordered separately.

Mounting sets

Surface mounted housing

981983.002	L 280, B 140, H 38
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Mounting frame

981987.002	L 324, B 324, H 2, HE 54, LA 315, BA 315
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Luminaire with surface mounted housing



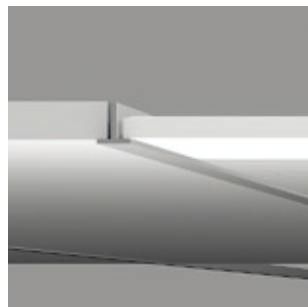
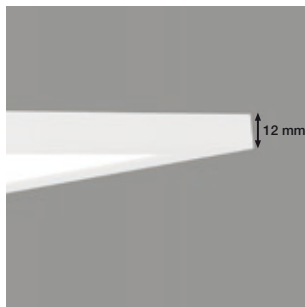
Luminaire with mounting frame

Comparison LED : conventional lamps

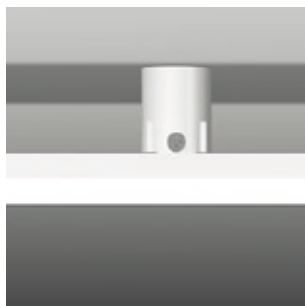
LED 23 W ≈ 2 x 26 W TC-D (68 W CB)

LED 38 W ≈ 4 x 18 W T26 (92 W CB)

≈ 4 x 14 W T16 (68 W EB)



Lay-in ceiling luminaire



Lay-in ceiling luminaire shown with ceiling mounting set (accessory)



Lay-in ceiling luminaire with cable suspension (accessory)



SIDELITE® ECO

Ceiling and wall luminaires, recessed ceiling luminaires, pendant luminaires

Type of protection: **IP 40**

Protection class: I

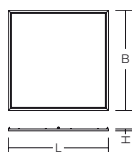
Frame: aluminium, powder-coated. Diffuser: plastic, opal or microprismatic/opal (suitable for use in environments with computer screens in accordance with EN 12464-1).

Side light emission using LEDs. External driver (Height 32 mm).

LED included.

Available colour: 2 = white

LED



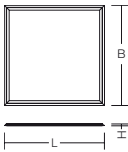
Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
Lay-in luminaires for grid ceilings						
Module 600						
Diffuser: plastic, opal						
311665.002	L 595, B 595, H 45	LED	38 W	830	3500 lm	20,4
311665.002.76	L 595, B 595, H 45	LED	38 W	830	3500 lm	20,4
311665.002.1	L 595, B 595, H 45	LED	38 W	840	3600 lm	20,4
311665.002.1.76	L 595, B 595, H 45	LED	38 W	840	3600 lm	20,4
Diffuser: plastic, microprismatic/opal						
311666.002	L 595, B 595, H 45	LED	38 W	830	3350 lm	17,8
311666.002.76	L 595, B 595, H 45	LED	38 W	830	3350 lm	17,8
311666.002.1	L 595, B 595, H 45	LED	38 W	840	3450 lm	17,8
311666.002.1.76	L 595, B 595, H 45	LED	38 W	840	3450 lm	17,8
Mounting sets						
Ceiling surface mounting set						
981980.00X	consisting of 4 cylindrical spacers (Ø 30, H 38)					
Pendant kit						
981978.000	consisting of 4 steel ropes (L 1500) and ceiling mounting sets for quick adjustment of the ropes					



SIDELITE® ECO

Recessed ceiling luminaires, lay-in ceiling luminaires

Type of protection: **IP 40**
Protection class: **I**
Frame: aluminium, powder-coated. Diffuser: plastic, opal or microprismatic/opal (suitable for use in environments with computer screens in accordance with EN 12464-1). Side light emission using LEDs. External driver (Height 32 mm).
LED included.
Available colour: 2 = white



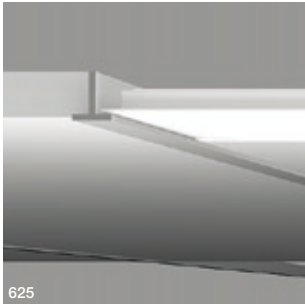
Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
Lay-in luminaires for grid ceilings / Recessed ceiling luminaires						
Module 625, recess opening 610 x 610 mm						
Diffuser: plastic, opal						
311667.002	L 622, B 622, H 45	LED 38 W	830	3500 lm	20,3	
311667.002.76	L 622, B 622, H 45	LED 38 W	830	3500 lm	20,3	
311667.002.1	L 622, B 622, H 45	LED 38 W	840	3600 lm	20,3	
311667.002.1.76	L 622, B 622, H 45	LED 38 W	840	3600 lm	20,3	
Diffuser: plastic, microprismatic/opal						
311668.002	L 622, B 622, H 45	LED 38 W	830	3350 lm	17,9	
311668.002.76	L 622, B 622, H 45	LED 38 W	830	3350 lm	17,9	
311668.002.1	L 622, B 622, H 45	LED 38 W	840	3450 lm	17,9	
311668.002.1.76	L 622, B 622, H 45	LED 38 W	840	3450 lm	17,9	

Springs for recessed ceiling installation are included

Comparison
LED : conventional lamps

LED 38 W ≈ 4 x 18 W T26 (92 W CB)
 ≈ 4 x 14 W T16 (68 W EB)

LED 45 W ≈ 4 x 18 W T26 (92 W CB)
 ≈ 4 x 14 W T16 (68 W EB)



Lay-in ceiling luminaire



Lay-in ceiling luminaire becomes a recessed ceiling luminaire by attaching included springs



© Fotostudio Krebs



light control 



SIDELITE® ECO

Type of protection: **IP 40**

Protection class: I

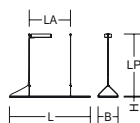
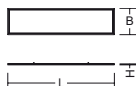
Frame: aluminium, powder-coated. Diffuser: plastic, opal or microprismatic/opal (suitable for use in environments with computer screens in accordance with EN 12464-1).

Side light emission using LEDs. External driver (Height 32 mm).

LED included.

Available colour: 2 = white

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
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Ceiling and pendant luminaires

Diffuser: plastic, opal

311770.002	L 1195, B 295, H 45	LED	40 W	830	3650 lm	20,4
311770.002.76	L 1195, B 295, H 45	LED	40 W	830	3650 lm	20,4
311770.002.1	L 1195, B 295, H 45	LED	40 W	840	3750 lm	20,4
311770.002.1.76	L 1195, B 295, H 45	LED	40 W	840	3750 lm	20,4

Diffuser: plastic, microprismatic/opal

311771.002	L 1195, B 295, H 45	LED	40 W	830	3500 lm	17,9
311771.002.76	L 1195, B 295, H 45	LED	40 W	830	3500 lm	17,9
311771.002.1	L 1195, B 295, H 45	LED	40 W	840	3600 lm	17,9
311771.002.1.76	L 1195, B 295, H 45	LED	40 W	840	3600 lm	17,9

Mounting set must be ordered separately.

Mounting sets

Pendant kit

982035.002 Y-Cable suspension kit with canopy, LP 1500

Ceiling surface mounting sets

981980.002 consisting of 4 cylindrical spacers (Ø 30, H 38)

Pendant luminaires (pendant kit included)

Diffuser: plastic, opal

311772.002	L 1195, B 295, H 45	LED	40 W	830	3150 lm	20,4
311772.002.76	L 1195, B 295, H 45	LED	40 W	830	3150 lm	20,4
311772.002.1	L 1195, B 295, H 45	LED	40 W	840	3400 lm	20,4
311772.002.1.76	L 1195, B 295, H 45	LED	40 W	840	3400 lm	20,4

Diffuser: plastic, microprismatic/opal

311773.002	L 1195, B 295, H 45	LED	40 W	830	3150 lm	17,9
311773.002.76	L 1195, B 295, H 45	LED	40 W	830	3150 lm	17,9
311773.002.1	L 1195, B 295, H 45	LED	40 W	840	3400 lm	17,9
311773.002.1.76	L 1195, B 295, H 45	LED	40 W	840	3400 lm	17,9

HUMAN CENTRIC LIGHTING

Feel better, be more efficient!

During evolution humans have developed a complex system of internal timers, the so-called circadian system by the perception of light and dark, cold and warm, as well as by the change of seasons, with daylight being the natural timer for this rhythm.

Only a few years ago scientists discovered in the eye's retina those cells which are not required for seeing, but are setting our internal timer by suppressing or distributing the hormone melatonin. Now chronobiologists, lighting designers and architects have the chance to decisively improve our living conditions by using dynamic light.

FASCINATING

For investors, operators and users

Dynamic light which is biologically efficient is ...

- strengthening the biological rhythm of human beings,
- increasing in educational institutions and workplaces the performance and ability of focusing,
- avoiding sleep disorder, stabilising patients in hospitals and nursing homes,
- creating a stimulating light to increase vitality and quality of life
- fostering well-being and good health



Flat Polymero® Kreis XXL | LED



Parledo® | LED



Econe® Hybrid | LED

SKILLED

In increasing energy-efficiency and well-being thanks to RZB

Individual and tailor-made solutions: our team of experienced designers and engineers will be pleased to support you in your projects – right from the start.

RZB is a member of the research group for human centric lighting within the association of Lighting Europe and the ZVEI e.V. (registered association of electrical and electronic industry)



LIGHTINGEUROPE
THE VOICE OF THE LIGHTING INDUSTRY

ZVEI:



VITALITY



ACTIVITY

Schulungszentrum Hohenloher | Pascala® | LED

EVIDENT

To architects and lighting designers

Biologically efficient light can be achieved with suitable light fittings and an individual control system. Key parameters are lux level, light distribution, light direction, colour temperature and colour change.

RZB is offering suitable and attractive solutions with their series

- Econe® Hybrid
- Flat Polymero®
- Parledo®
- Mondana®
- Less is more®

Appropriate recommendations for the design of biologically efficient lighting are listed in the new **DIN SPEC 67600:2013-04**.



Econe® Hybrid | LED



CIRCADIAN

The so-called circadian light imitates the circadian and circannual rhythms of natural light. The artificial light based on programmable dynamic daylight simulation, which is achieved by adjustment of illuminance levels and colour temperatures, has a positive effect on human beings.

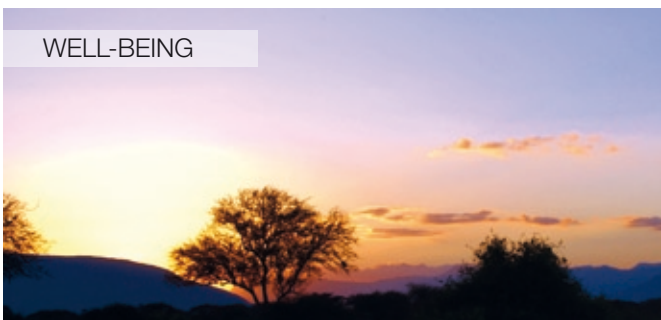
Numerous research studies have proved that the quality of life can be improved by circadian light; it helps employees to perform their work safely and efficiently, and students to concentrate for longer periods of time and assists with the processing of information to the brain. Circadian light promotes human health and well-being as well as healing processes.

- Plug & Play
- Circadian daylight simulation
- Individual lighting settings (e.g. night lighting, active light)
- ON/OFF Switching
- Programmable via PC

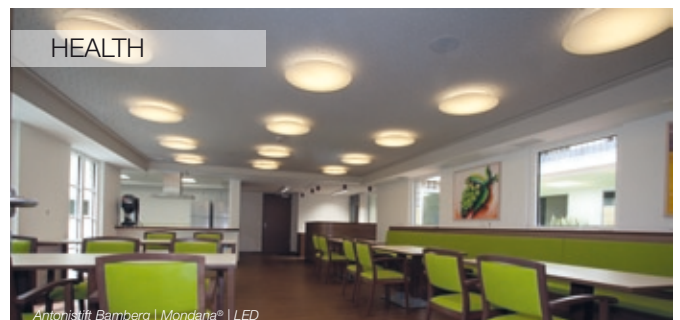
light control +³ Professional CIRCADIAN

981913.003	L 313, B 313, H 85 DALI	32	Switchable, daylight simulation
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WELL-BEING



HEALTH



Antiklinik Bamberg | Mondana® | LED



- Highly efficient interior LED lighting fixture that casts light over a broad area.
- Available in a surface-mounted, suspended, or recessed version.
- Simulates the circadian rhythms of natural light, thanks to two separate light chambers and dynamic colour-temperature mixing.
- Lighting frames available in a transparent or white version, as follows: - warm white with LED light strip; or - LED colour light strip (RGB)
- Intelligent and user friendly regulation, via light control+³
- A genuine designer luminaire thanks to
 - a streamlined design
 - imposing size
 - concealed attachment elements and
 - integrated control gears
- Convenient maintenance, as the light surfaces can be rotated out of the way.
- Highly suitable for hospitals and nursing homes, as well as for offices and other workplaces.



ECONE[®] HYBRID

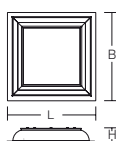
Ceiling and wall luminaires

Type of protection: IP 20
 Protection class: I
 Suspension length: 100 - 2000 mm
 Housing: sheet steel, powder-coated.
 Diffuser: plastic (PMMA), opal. Luminaire frame: plastic, transparent or white, with LED light frame (RGB or white light).
 Driver included.

Can be controlled via our **light control +³** Professional lighting management system.
 Radio control upon request.

LED included.

Available colour: 2 = white

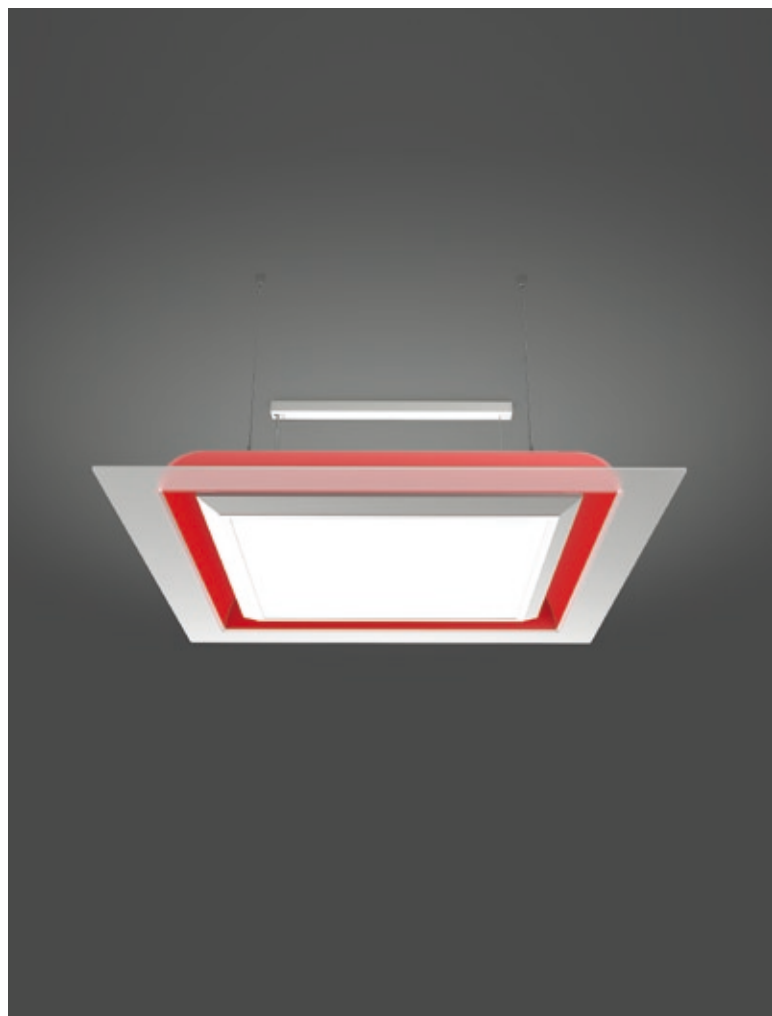


Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
Luminaire frame: transparent ①					
901368.002.76	L 1000, B 1000, H 125	LED	108 W	840 RGB	3270 lm direct light frame
901369.002.76	L 1000, B 1000, H 125	LED	108 W	840 RGB	3270 lm direct light frame
Luminaire frame: white ②					
901410.002.76	L 1000, B 1000, H 125	LED	108 W	840 RGB	3270 lm direct light frame
901412.002.76	L 1000, B 1000, H 125	LED	108 W	840 RGB	3270 lm direct light frame



reddot design award
 best of the best 2012





ECONE® HYBRID

Pendant luminaires

Type of protection: IP 20

Protection class: I

UGR: 19,5

Pendant length LP: 100 - 2000 mm

Housing: sheet steel, powder-coated.

Diffuser: plastic (PMMA), opal. Luminaire

frame: plastic, transparent or white, with LED light frame (RGB oder white light). Indirect light emission as an aesthetic appreciation for ceiling illumination. 4-point steel cable suspension, steplessly adjustable. Special lengths available on request. Driver included.

Can be controlled via our **light control +³**

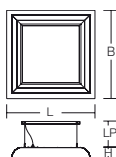
Professional lighting management system.

Radio control upon request.

LED included.

Available colour: 2 = white

LED



light control 



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Pendant luminaires					
Luminaire frame: transparent ①					
901366.002.76	L 1000, B 1000, H 125	LED	168 W	840 RGB 850	3430 lm direct light frame 5000 lm indirect
901450.002.76	L 1000, B 1000, H 125	LED	224 W	2700-6500 K RGB 850	7680 lm direct light frame 5000 lm indirect
901367.002.76	L 1000, B 1000, H 125	LED	168 W	840 RGB 830 850	3430 lm direct light frame 5000 lm indirect
Luminaire frame: white ②					
901403.002.76	L 1000, B 1000, H 125	LED	168 W	840 RGB 850	3430 lm direct light frame 5000 lm indirect
901405.002.76	L 1000, B 1000, H 125	LED	168 W	840 RGB 830 850	3430 lm direct light frame 5000 lm indirect



red dot design award
best of the best 2012





- Unique lighting solution for circadian light
- Same luminous flux with all types
- Suitable for grid ceilings (module 600/625) and recessed ceiling installations (with accessories)
- Trimless appearance
- UGR < 19 (Diffuser plastic transparent microprismatic/opal)
- Colour rendering Ra > 80
- LED and converter changeable
- Luminaire housing with IP 54 rating also for the intermediate ceiling; this in turn means an excellent protection against dust or moisture



PARLEDO®

Recessed ceiling luminaires

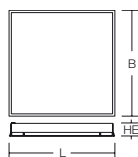
Type of protection: **IP 54** (IP 20 rated terminal box) **LED**
 Protection class: I
 UGR: < 19

Housing: powder-coated metal. Diffuser: PMMA plastic, opal or microprismatic/opal (suitable for use in environments with computer screens in accordance with EN 12464-1). Converter in separate housing.

If not connected to the DALI line, the luminaire can be operated in ON/OFF mode.

LED included.

Available colour: 2 = white



Ref.-Nr.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
Recessed ceiling luminaires for visible mounting rails						
Module 600, HE 100 mm						
Diffuser: plastic, microprismatic/opal						
901361.002.76	L 596, B 596, H 0	LED	51 W	830	3600 lm	17,2
901361.002.1.76	L 596, B 596, H 0	LED	46 W	840	3600 lm	17,1
for colour temperature control: 2700 K - 6500 K						
901372.002.76	L 596, B 596, H 0	LED	108 W	2700 K-6500 K	7850 lm	19,8
Diffuser: plastic, opal						
901360.002.76	L 596, B 596, H 0	LED	46 W	830	3700 lm	20,1
901360.002.1.76	L 596, B 596, H 0	LED	42 W	840	3600 lm	20,1
for colour temperature control: 2700 K - 6500 K						
901362.002.76	L 596, B 596, H 0	LED	99 W	2700 K-6500 K	8800 lm	23,3
Module 625, HE 100 mm						
Diffuser: plastic, microprismatic/opal						
901364.002.76	L 622, B 622, H 0	LED	51 W	830	3600 lm	17,2
901364.002.1.76	L 622, B 622, H 0	LED	46 W	840	3600 lm	17,1
for colour temperature control: 2700 K - 6500 K						
901373.002.76	L 622, B 622, H 0	LED	108 W	2700 K-6500 K	7850 lm	19,8
Diffuser: plastic, opal						
901363.002.76	L 622, B 622, H 0	LED	46 W	830	3700 lm	20,1
901363.002.1.76	L 622, B 622, H 0	LED	42 W	840	3600 lm	20,1
for colour temperature control: 2700 K - 6500 K						
901365.002.76	L 622, B 622, H 0	LED	99 W	2700 K-6500 K	8800 lm	23,3

Comparison

LED : conventional lamps

LED 42/46/51 W	≈	4 x 18 W T26 (92 W CB)
	≈	4 x 14 W T16 (68 W EB)
LED 99/108 W	≈	4 x 28 W T26 (122 W EB)



- Lighting technology and form lend themselves to long service life as a design element for interior decors.
- An interior pendant luminaire that is in a class of its own
- A glass and aluminium luminaire
- A masterpiece of craftsmanship with outstanding design and durability attributes
- Energy efficient LED technology ensures that the generously proportioned opal glass is evenly lit across its entire surface.
- Provides a large amount of light in all directions
- Available in various sizes as ceiling, wall or pendant mounted luminaire
- Colour temperature 3000 K or 4000 K
- Rated life: approx. 50 000 hours
- Made in Germany



light control 



RING OF FIRE®

Pendant luminaires

Type of protection: IP 20

Protection class: I

Suspension length: 500 - 1200 mm

Supporting ring made of anodised aluminium.

Diffuser: mouth-blown opal glass, satin finish.

Canopy aluminium anodised. 3-point steel

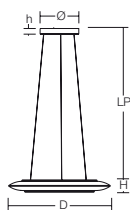
cable suspension, steplessly adjustable.

Special lengths available on request.

LED included.

Available colour: aluminium, anodised

LED



Ref. No.

Dimensions

Lamp System
power

Light
colour

Luminaire
flux

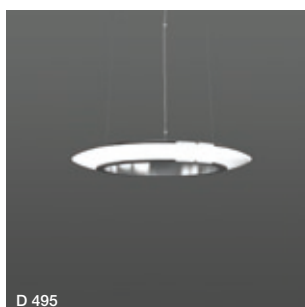
Pendant luminaires

Diameter D 495 mm, canopy Ø 221 mm, h 36 mm

311669.004	D 495, H 55	LED 28 W	830	1850 lm
311669.004.76	D 495, H 55	LED 28 W	830	1850 lm
311669.004.1	D 495, H 55	LED 28 W	840	2000 lm
311669.004.1.76	D 495, H 55	LED 28 W	840	2000 lm

Diameter D 690 mm, canopy Ø 263 mm, h 40 mm

311570.004	D 690, H 81	LED 61 W	830	3850 lm
311570.004.76	D 690, H 81	LED 61 W	830	3850 lm
311570.004.1	D 690, H 81	LED 61 W	840	4400 lm
311570.004.1.76	D 690, H 81	LED 61 W	840	4400 lm



D 495



D 690



reddot design award
winner 2012



NOMINEE 2013







RING OF FIRE®

Pendant luminaires

Type of protection: IP 20

Protection class: I

Suspension length: 500 - 1200 mm

Supporting ring made of anodised aluminium.

Diffuser: mouth-blown opal glass, satin finish.

Inner circle surface: 417 mm in diameter

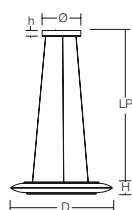
coloured Murano glass insert, for additional direct light output, which can be controlled separately. Canopy aluminium anodised.

3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

LED included.

Available colour: aluminium, anodised

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Pendant luminaires					
Diameter D 690 mm, canopy Ø 263 mm, h 40 mm					
Glass FerroMurano red					
311674.004	D 690, H 81	LED	83 W	830	5250 lm
311674.004.76	D 690, H 81	LED	83 W	830	5250 lm
311674.004.1	D 690, H 81	LED	83 W	840	6100 lm
311674.004.1.76	D 690, H 81	LED	83 W	840	6100 lm
Glass FerroMurano blue					
311675.004	D 690, H 81	LED	83 W	830	4850 lm
311675.004.76	D 690, H 81	LED	83 W	830	4850 lm
311675.004.1	D 690, H 81	LED	83 W	840	5650 lm
311675.004.1.76	D 690, H 81	LED	83 W	840	5650 lm
Glass FerroMurano green					
311676.004	D 690, H 81	LED	83 W	830	5200 lm
311676.004.76	D 690, H 81	LED	83 W	830	5200 lm
311676.004.1	D 690, H 81	LED	83 W	840	6050 lm
311676.004.1.76	D 690, H 81	LED	83 W	840	6050 lm
Glass FerroMurano white					
311691.004	D 690, H 81	LED	83 W	830	5700 lm
311691.004.76	D 690, H 81	LED	83 W	830	5700 lm
311691.004.1	D 690, H 81	LED	83 W	840	6550 lm
311691.004.1.76	D 690, H 81	LED	83 W	840	6550 lm

Further information on coloured FerroMurano glass as well as an overview of additional FerroMurano RZB luminaires can be found on pages 12 and 13 of this "Light Information" or at www.rzb-lighting.com



- Lighting technology and form lend themselves to long service life as a design element for interior decors.
- An interior pendant luminaire that is in a class of its own
- A masterpiece of craftsmanship with outstanding design and durability attributes:
 - Surface or pendant mount ring-shaped ceiling luminaire
 - Luminaire with opal or Murano glass insert
 - Surface mount half-ring-shaped ceiling or wall luminaire
- A glass and aluminium luminaire
- Energy efficient LED technology ensures that the generously proportioned opal glass is evenly lit across its entire surface.
- Provides a large amount of light in all directions
- Colour temperature 3000 K or 4000 K
- Rated life: approx. 50 000 hours
- Control gear included into canopy.
- Steplessly adjustable steel cable suspension; special lengths are available on request
- Made in Germany



RING OF FIRE®

Pendant luminaires

Type of protection: IP 20

Protection class: I

Suspension length: 500 - 1200 mm

Supporting ring made of anodised aluminium.

Diffuser: mouth-blown opal glass, satin finish.

Inner circle surface: 417 mm in diameter opal

white glass insert, for additional direct light

output, which can be controlled separately.

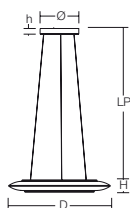
Canopy aluminium anodised.

3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

LED included.

Available colour: aluminium, anodised

LED



Ref. No.

Dimensions

Lamp System
power

Light
colour

Luminaire
flux

Pendant luminaires

Diameter D 690 mm, canopy Ø 263 mm, h 40 mm

311682.004	D 690, H 81	LED 83 W	830	5550 lm
311682.004.76	D 690, H 81	LED 83 W	830	5550 lm
311682.004.1	D 690, H 81	LED 83 W	840	6350 lm
311682.004.1.76	D 690, H 81	LED 83 W	840	6350 lm



RING OF FIRE®

Ceiling luminaires

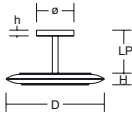
Type of protection: IP 20
Protection class: I

LED

Supporting ring made of anodised aluminium.
Diffuser: mouth-blown opal glass, satin finish.
Inner circle surface, suspension rod and canopy: anodised aluminium.

LED included.

Available colour: aluminium, anodised



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling luminaires					
Diameter D 495 mm, canopy Ø 221 mm, h 36 mm					
311670.004	D 495, H 55	LED	28 W	830	1850 lm
311670.004.76	D 495, H 55	LED	28 W	830	1850 lm
311670.004.1	D 495, H 55	LED	28 W	840	2000 lm
311670.004.1.76	D 495, H 55	LED	28 W	840	2000 lm
Diameter D 690 mm, canopy Ø 263 mm, h 40 mm					
311671.004	D 690, H 81	LED	61 W	830	3850 lm
311671.004.76	D 690, H 81	LED	61 W	830	3850 lm
311671.004.1	D 690, H 81	LED	61 W	840	4400 lm
311671.004.1.76	D 690, H 81	LED	61 W	840	4400 lm





RING OF FIRE®

Ceiling luminaires

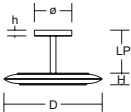
Type of protection: IP 20
Protection class: I



Supporting ring made of anodised aluminium.
Diffuser: mouth-blown opal glass, satin finish.
Inner circle surface: 417 mm in diameter
coloured Murano glass insert, for additional
direct light output, which can be controlled
separately. Suspension rod and canopy:
aluminium anodised.

LED included.

Available colour: aluminium, anodised



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling luminaires					
Diameter D 690 mm, canopy Ø 263 mm, h 40 mm					
Glass FerroMurano red					
311683.004	D 690, H 81	LED	83 W	830	5250 lm
311683.004.76	D 690, H 81	LED	83 W	830	5250 lm
311683.004.1	D 690, H 81	LED	83 W	840	6100 lm
311683.004.1.76	D 690, H 81	LED	83 W	840	6100 lm
Glass FerroMurano blue					
311684.004	D 690, H 81	LED	83 W	830	4850 lm
311684.004.76	D 690, H 81	LED	83 W	830	4850 lm
311684.004.1	D 690, H 81	LED	83 W	840	5650 lm
311684.004.1.76	D 690, H 81	LED	83 W	840	5650 lm
Glass FerroMurano green					
311685.004	D 690, H 81	LED	83 W	830	5200 lm
311685.004.76	D 690, H 81	LED	83 W	830	5200 lm
311685.004.1	D 690, H 81	LED	83 W	840	6050 lm
311685.004.1.76	D 690, H 81	LED	83 W	840	6050 lm
Glass FerroMurano white					
311692.004	D 690, H 81	LED	83 W	830	5700 lm
311692.004.76	D 690, H 81	LED	83 W	830	5700 lm
311692.004.1	D 690, H 81	LED	83 W	840	6550 lm
311692.004.1.76	D 690, H 81	LED	83 W	840	6550 lm

Further information on coloured FerroMurano glass as well as an overview of additional FerroMurano RZB luminaires can be found on pages 12 and 13 of this "Light Information" or at www.rzb-lighting.com

- Lighting technology and form lend themselves to long service life as a design element for interior decors.
- An interior pendant luminaire that is in a class of its own
- A masterpiece of craftsmanship with outstanding design and durability attributes:
 - Surface or pendant mount ring-shaped ceiling luminaire
 - Luminaire with opal or Murano glass insert
 - Surface mount half-ring-shaped ceiling or wall luminaire
- A glass and aluminium luminaire
- Energy efficient LED technology ensures that the generously proportioned opal glass is evenly lit across its entire surface.
- Provides a large amount of light in all directions
- Colour temperature 3000 K or 4000 K
- Rated life: approx. 50 000 hours
- Control gear included into canopy.
- Steplessly adjustable steel cable suspension; special lengths are available on request
- Made in Germany



RING OF FIRE®

Ceiling luminaires

Type of protection: IP 20

Protection class: I

LED

Supporting ring made of anodised aluminium.

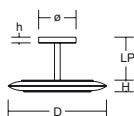
Diffuser: mouth-blown opal glass, satin finish.

Inner circle surface: 417 mm in diameter opal white glass insert, for additional direct light output, which can be controlled separately.

Suspension rod and canopy: aluminium anodised.

LED included.

Available colour: aluminium, anodised



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling luminaires					
Diameter D 690 mm, canopy Ø 263 mm, h 40 mm					
with white opal glass insert					
311686.004	D 690, H 81	LED	83 W	830	5550 lm
311686.004.76	D 690, H 81	LED	83 W	830	5550 lm
311686.004.1	D 690, H 81	LED	83 W	840	6350 lm
311686.004.1.76	D 690, H 81	LED	83 W	840	6350 lm



- An interior luminaire that is in a class of its own
- A glass and aluminium luminaire
- Lighting technology and form lend themselves to long service life as a design element for interior decors.
- A masterpiece of craftsmanship with outstanding design and durability attributes
- Energy efficient LED technology ensures that the generously proportioned opal glass is evenly lit across its entire surface.
- Available in various sizes as ceiling, wall or pendant mounted luminaire
- Colour temperature 3000 K or 4000 K
- Rated life: approx. 50000 hours
- Made in Germany



RING OF FIRE®

Wall luminaires

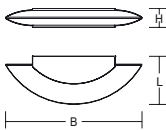
Type of protection: IP 20
Protection class: I

Base: die-cast aluminium, lacquered.
Hand-blown opal glass, satin finish, with transparent glass end caps. Luminaire body fixing with countersunk bolts.

LED included.

Available colour: aluminium, anodised

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Wall luminaires					
width B 421 mm					
311672.004	L 144, B 421, H 60	LED	7 W	830	460 lm
311672.004.1	L 144, B 421, H 60	LED	7 W	840	550 lm
width B 597 mm					
311673.004	L 210, B 597, H 83	LED	28 W	830	1600 lm
311673.004.76	L 210, B 597, H 83	LED	28 W	830	1600 lm
311673.004.1	L 210, B 597, H 83	LED	28 W	840	1700 lm
311673.004.1.76	L 210, B 597, H 83	LED	28 W	840	1700 lm



B 421



B 597



CYLIO

Ceiling luminaires

Type of protection: IP 20
Protection class: I

Base: aluminium with brushed stainless steel finish. Cylindrical glass, available in five different designs. Diffuser fastening: bayonet fixing.

LED included.

Available colour: stainless steel, brushed

LED



Comparison LED : conventional lamps

Crystal glass:

LED 18 W ≈ 1 x 20 W HIT-TC-CE (23 W EB)
≈ 1 x 90 W QT12 (105 W el. transformer)

Opal glass white:

LED 14 W ≈ 1 x 50 W QT12 (60 W el. transformer)
LED 18 W ≈ 1 x 75 W QT12 (105 W el. transformer)

- A sleekly designed surface or pendant mount ceiling luminaire for interiors
- Made of top-notch components:
- Base and canopy made of aluminium with brushed stainless steel finish.
- Hand-made glass element
- Each glass fixture is a real one of a kind element. The following versions are available:
 - Transparent crystal glass, partially frosted
 - White opal glass
 - White opal glass with clear glass bottom
 - Two-tone opal glass "white in white"
 - Black glass with cobalt-blue haloes
- Exceptionally good light refraction, particularly homogeneous light distribution
- Base and canopy made of aluminium with brushed stainless steel finish.
- LED versions provide up to 47 percent energy savings compared to conventional lamps
- Rated life: approx. 50 000 hours
- Colour temperature 3000 K or 4000 K
- Colour rendering Ra > 80
- Available in two different diameters (100 mm and 150 mm)
- The glass fixture can be removed without the use of tools, thanks to the luminaire's bayonet socket.
- Made in Germany



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling luminaires					
Opal glass white					
311721.002	D 100, H 230	LED	14 W	830	680 lm
311721.002.1	D 100, H 230	LED	14 W	840	*
Opal glass white with clear glass bottom					
311850.002	D 100, H 220	LED	14 W	830	770 lm
311850.002.1	D 100, H 220	LED	14 W	840	*
Opal glass „white in white“ with clear glass bottom					
311722.002	D 100, H 220	LED	14 W	830	770 lm
311722.002.1	D 100, H 220	LED	14 W	840	*
Black cobalt glass with clear glass bottom					
311723.003	D 100, H 220	LED	14 W	830	280 lm
311723.003.1	D 100, H 220	LED	14 W	840	*

Ceiling luminaires					
Crystal glass					
311700.000	D 150, H 190	LED	18 W	830	1200 lm
311700.000.1	D 150, H 190	LED	18 W	840	*
Opal glass white					
311701.002	D 150, H 262	LED	18 W	830	900 lm
311701.002.1	D 150, H 262	LED	18 W	840	*
Opal glass white with clear glass bottom					
311853.002	D 150, H 257	LED	18 W	830	1100 lm
311853.002.1	D 150, H 257	LED	18 W	840	*
Opal glass „white in white“ with clear glass bottom					
311702.002	D 150, H 257	LED	18 W	830	1100 lm
311702.002.1	D 150, H 257	LED	18 W	840	*
Black cobalt glass with clear glass bottom					
311703.003	D 150, H 258	LED	18 W	830	500 lm
311703.003.1	D 150, H 258	LED	18 W	840	*

* Values: see www.rzb-lighting.com



CYLIO

Pendant luminaires

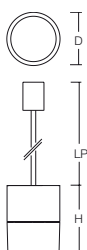
Type of protection: IP 20
Protection class: I
Suspension length: 800 mm

Base: aluminium with brushed stainless steel finish. Cylindrical glass, available in five different designs. Diffuser fastening: bayonet fixing. Suspension cord with integrated steel cable.

LED included.

Available colour: stainless steel, brushed

LED



The pendant luminaires of series Cylio are available with multi adaptor for 3-circuit tracks on request

Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Pendant luminaires					
Opal glass white					
311725.002	D 100, H 230	LED	14 W	830	680 lm
311725.002.1	D 100, H 230	LED	14 W	840	*
Opal glass white with clear glass bottom					
311851.002	D 100, H 220	LED	14 W	830	770 lm
311851.002.1	D 100, H 220	LED	14 W	840	*
Opal glass „white in white“ with clear glass bottom					
311726.002	D 100, H 220	LED	14 W	830	770 lm
311726.002.1	D 100, H 220	LED	14 W	840	*
Black cobalt glass with clear glass bottom					
311727.003	D 100, H 220	LED	14 W	830	280 lm
311727.003.1	D 100, H 220	LED	14 W	840	*
Pendant luminaires					
Crystal glass					
311704.000	D 150, H 190	LED	18 W	830	1200 lm
311704.000.1	D 150, H 190	LED	18 W	840	*
Opal glass white					
311705.002	D 150, H 262	LED	18 W	830	860 lm
311705.002.1	D 150, H 262	LED	18 W	840	*
Opal glass white with clear glass bottom					
311854.002	D 150, H 257	LED	18 W	830	1100 lm
311854.002.1	D 150, H 257	LED	18 W	840	*
Opal glass „white in white“ with clear glass bottom					
311706.002	D 150, H 257	LED	18 W	830	1100 lm
311706.002.1	D 150, H 257	LED	18 W	840	*
Black cobalt glass with clear glass bottom					
311707.003	D 150, H 258	LED	18 W	830	500 lm
311707.003.1	D 150, H 258	LED	18 W	840	*

* Values: see www.rzb-lighting.com



- The crystal glass body of this flat symmetrical luminaire creates a stylish and elegant impression.
- The form is in keeping with its minimalistic LED technology, which provides outstanding illumination.
- Each Quadraled is unique and reflects the craftsmanship of the glassmaking process.
- The interior white coloured circular and rectangular surfaces prevent glare.
- The Quadraled is timelessly elegant and blends in impeccably with the surrounding architecture.



QUADRALED

Wall luminaires

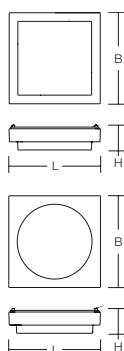
Type of protection: IP 20
Protection class: I

LED

Base: anodised aluminium, brushed, in the colour of stainless steel. Transparent crystal diffuser, with partially white-coated inner surface to prevent glare. Diffuser fastening: screwneck.

LED included.

Available colour: transparent



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Wall luminaires					
Quadraled Quadrat ①					
331153.000	L 280, B 280, H 76	LED	13 W	853	800 lm
Quadraled Kreis ②					
331154.000	L 280, B 280, H 76	LED	13 W	853	750 lm



product
design award

2013 GOLD



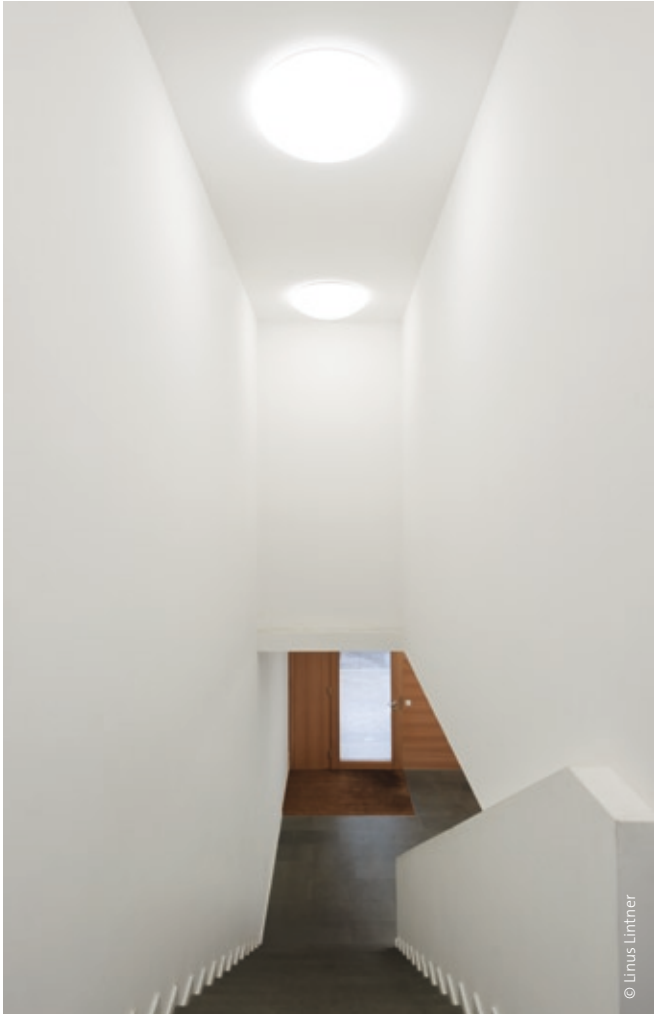
reddot design award
winner 2012



German
Design Award
NOMINEE 2013







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FLAT POLYMERO® XXL LED

Ceiling and wall luminaires

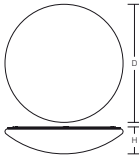
Type of protection: **IP 40**
Protection class: I



Base: metal, powder-coated. Diffuser: plastic (PMMA or polycarbonate with ball impact protection in accordance with DIN 18032-3) opal. Diffuser fastening: sash lock.

LED included.

Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
Diffuser: plastic (PMMA) D 1040 mm					
311694.002	D 1040, H 230	LED	104 W	830	10000 lm
311694.002.76	D 1040, H 230	LED	104 W	830	10000 lm
311694.002.1	D 1040, H 230	LED	104 W	840	10400 lm
311694.002.1.76	D 1040, H 230	LED	104 W	840	10400 lm
Diffuser: plastic (polycarbonate) D 1040 mm					
311694.002.2	D 1040, H 230	LED	104 W	830	10500 lm
311694.002.2.76	D 1040, H 230	LED	104 W	830	10500 lm
311694.002.3	D 1040, H 230	LED	104 W	840	10900 lm
311694.002.3.76	D 1040, H 230	LED	104 W	840	10900 lm

Comparison LED : conventional lamps

LED 104 W ≈ 4 x 55 W TC-L (232 W EB)

- 1040 mm in diameter
- Type of protection IP 40 and IP 44 (page 93)
- Diffuser made of quality polycarbonate or PMMA
- Highly efficient LED technology
- Full light output at switch-on
- Rated life: approx. 50000 hours
- Colour temperature 3000 K or 4000 K
- Colour rendering Ra > 80
- Made in Germany



FLAT POLYMER® XXL LED

Pendant luminaires

Type of protection: **IP 40**

Protection class: I

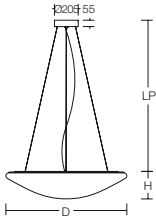
Suspension length: 600 - 1300 mm

Base and canopy: metal, powder-coated, white. Canopy Ø 205 mm, h 55 mm. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Diffuser: plastic (PMMA or polycarbonate), shockproof. Diffuser fastening: sash lock.

LED included.

Available colour: 2 = white

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Pendant luminaires					
Diffuser: plastic (PMMA) D 1040 mm					
311696.002	D 1040, H 230	LED	104 W	830	10000 lm
311696.002.76	D 1040, H 230	LED	104 W	830	10000 lm
311696.002.1	D 1040, H 230	LED	104 W	840	10400 lm
311696.002.1.76	D 1040, H 230	LED	104 W	840	10400 lm
Diffuser: plastic (polycarbonate) D 1040 mm					
311696.002.2	D 1040, H 230	LED	104 W	830	10500 lm
311696.002.2.76	D 1040, H 230	LED	104 W	830	10500 lm
311696.002.3	D 1040, H 230	LED	104 W	840	10900 lm
311696.002.3.76	D 1040, H 230	LED	104 W	840	10900 lm



- 1040 mm in diameter
- Type of protection IP 40 and IP 44 (page 92)
- Diffuser made of quality polycarbonate or PMMA
- Highly efficient LED technology
- Full light output at switch-on
- Rated life: approx. 50000 hours
- Colour temperature 3000 K or 4000 K
- Colour rendering Ra > 80
- Made in Germany



FLAT POLYMERO® KREIS LED XXL

Ceiling and wall luminaires

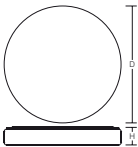
Type of protection: **IP 40**
Protection class: I



Base: metal, powder-coated. Diffuser: plastic (PMMA or polycarbonate with ball impact protection in accordance with DIN 18032-3), opal. Diffuser fastening: sash lock.

LED included.

Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
Diffuser: plastic (PMMA) D 1040 mm					
311695.002	D 1040, H 150	LED	104 W	830	10200 lm
311695.002.76	D 1040, H 150	LED	104 W	830	10200 lm
311695.002.1	D 1040, H 150	LED	104 W	840	10600 lm
311695.002.1.76	D 1040, H 150	LED	104 W	840	10600 lm
Diffuser: plastic (polycarbonate) D 1040 mm					
311695.002.2	D 1040, H 150	LED	104 W	830	10700 lm
311695.002.2.76	D 1040, H 150	LED	104 W	830	10700 lm
311695.002.3	D 1040, H 150	LED	104 W	840	11200 lm
311695.002.3.76	D 1040, H 150	LED	104 W	840	11200 lm

Comparison LED : conventional lamps

LED 104 W ≈ 4 x 55 W TC-L (232 W EB)



FLAT POLYMER® KREIS XXL LED

Pendant luminaires

Type of protection: **IP 40**

Protection class: I

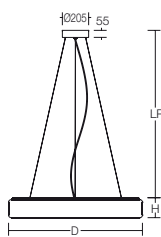
Suspension length: 600 - 1300 mm

Base and canopy: metal, powder-coated, white. Canopy Ø 205 mm, h 55 mm. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Diffuser: plastic (PMMA or polycarbonate), shockproof. Diffuser fastening: sash lock.

LED included.

Available colour: 2 = white

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Pendant luminaires					
Diffuser: plastic (PMMA) D 1040 mm					
311697.002	D 1040, H 150	LED	104 W	830	10200 lm
311697.002.76	D 1040, H 150	LED	104 W	830	10200 lm
311697.002.1	D 1040, H 150	LED	104 W	840	10600 lm
311697.002.1.76	D 1040, H 150	LED	104 W	840	10600 lm
Diffuser: plastic (polycarbonate) D 1040 mm					
311697.002.2	D 1040, H 150	LED	104 W	830	10700 lm
311697.002.2.76	D 1040, H 150	LED	104 W	830	10700 lm
311697.002.3	D 1040, H 150	LED	104 W	840	11200 lm
311697.002.3.76	D 1040, H 150	LED	104 W	840	11200 lm



- The classic Flat Basic series coupled with state of the art LED technology
- Ideal for use in staircases and corridors
- Full light output at switch on
- Uniform light distribution
- Type of protection IP 43/IP 44
- Mouth-blown, 3-layer opal glass, satin finish.
- LED exchangeable
- Rated life: approx. 50000 hours
- Colour temperature 3000 K or 4000 K
- Colour rendering Ra > 80
- Made in Germany



FLAT BASIC LED

Ceiling and wall luminaires

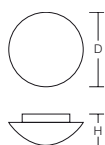
Type of protection: **IP 43** ceiling mounting, **IP 44** wall mounting
Protection class: I

LED

Base: die-cast aluminium, powder-coated or plastic. Diffuser: mouth-blown opal glass, satin finish. Diffuser fastening: spring system.

LED included.

Available colour: 2 = white



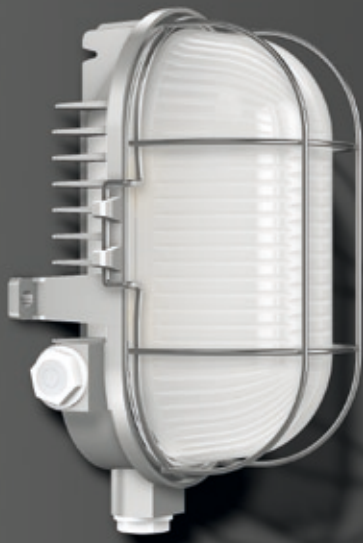
Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
Diffuser fastening: spring system					
Base: die-cast aluminium					
Glass D 200 mm					
251039.002	D 200, H 106	LED	9 W	830	510 lm
251039.002.1	D 200, H 106	LED	9 W	840	560 lm
Glass D 250 mm					
251040.002	D 250, H 106	LED	9 W	830	540 lm
251040.002.1	D 250, H 106	LED	9 W	840	580 lm
Base: plastic					
Glass D 200 mm					
211396.002	D 200, H 106	LED	9 W	840	380 lm
Glass D 250 mm					
211397.002	D 250, H 106	LED	9 W	840	420 lm
Glass D 300 mm					
211395.002	D 300, H 106	LED	9 W	830	550 lm
211395.002.1	D 300, H 106	LED	9 W	840	580 lm
Glass D 370 mm					
211394.002	D 370, H 118	LED	14 W	830	990 lm
211394.002.1	D 370, H 118	LED	13 W	840	1100 lm

Comparison

LED : conventional lamps

LED 9 W ≈ 1 x 18 W TC-D (26 W CB)
≈ 1 x 60 W AGL (60 W)

LED 13 W ≈ 1 x 26 W TC-D (34 W CB)



- Ideal for use with movement sensors thanks to virtually unlimited switching capacity and immediate provision of light when switched on
- LED technology for high levels of energy efficiency
- Mains voltage supply - no control gear needed
- LED can be individually replaced
- Housing: die-cast aluminium (IP 54)
- Rated life: approx. 50000 hours
- Colour rendering Ra > 80

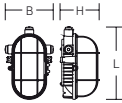
ALU-STANDARD LED

Die-cast aluminium oval bulkhead luminaires, impact resistant

Type of protection: **IP 54**
Protection class: I



Base: die-cast aluminium, powder-coated.
Screw mounting for decorative protective cage. Crystal glass: textured, satin finish.
Protective cage: steel wire, galvanised.
Three cable inlets: M20x1.5.
LED included.
Available colours: 4 = silver metallic



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
501031.004	L 210, B 130, H 120	LED	9 W	840	370 lm
501032.004	L 210, B 130, H 115	LED	18 W	840	710 lm

Comparison LED : conventional lamps

LED 9 W ≈ 1 x 60 W AGL (60 W)
LED 18 W ≈ 1 x 100 W AGL (100 W)

ALU-STANDARD LED

Ceiling and wall luminaires

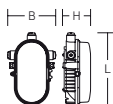
Type of protection: **IP 54**
Protection class: I

LED

Base: die-cast aluminium, powder-coated.
Screw mounting for stainless steel wire ring.
Crystal glass: textured, satin finish. Stainless steel wire ring. Three cable inlets: M20x1.5.

LED included.

Available colour: 4 = silver metallic



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
501034.004	L 210, B 130, H 85	LED	9 W	840	250 lm
501033.004	L 210, B 130, H 85	LED	18 W	840	490 lm



- Ideal for use with movement sensors thanks to virtually unlimited switching capacity and immediate provision of light when switched on
- LED technology for high levels of energy efficiency
- Mains voltage supply - no control gear needed
- LED can be individually replaced
- In the housing of the well-known standard plastic bulkhead
- Rated life: approx. 50000 hours



OVAL BULKHEAD ECO-LED

Oval bulkhead luminaires, plastic, impact resistant

Type of protection: **IP 44**

Protection class: I

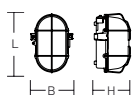
LED

Base: plastic. Snap-on protective guard.

Crystal glass: transparent. Protective cage: steel wire, galvanised. 5 cable entries.

LED included.

Available colour: 9 = grey



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
501030.009	L 176, B 122, H 110	LED	9 W	840	480 lm

Comparison

LED : conventional lamps

LED 9 W \approx 1 x 60 W AGL (60 W)

- Our classical T5 Striplight luminaires are now available with state-of-the-art LED technology
- Universally suitable for store lighting, cove lighting, kitchen and bathroom lighting
- Excellent light distribution thanks to prismatic lamp cover
- Easy to mount with clips
- Suitable for light channel (12 luminaires) and furniture lighting
- Suitable for mounting on or into furniture
- Rated life: approx. 50000 hours
- Colour temperature 3000 K or 4000 K
- Colour rendering Ra > 80



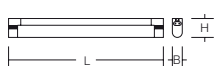
STRIP-LIGHT LED

Ceiling and wall luminaires



Type of protection: IP 20
Protection class: II

LED



Base: plastic. Diffuser: opal plastic, prismatic.
Connecting cables for through-wiring without tools. With rocker switch.

Suitable for mounting on or into furniture.

Included in scope of delivery: 1.80 m power supply cable, 150 mm connecting cable, straight rigid coupling and brackets each for wall and ceiling mounting. Max. 12 luminaires can be mounted as a light channel.

LED included.

Available colour: 2 = white

Comparison LED : conventional lamps

LED 4 W	≈ 1 x 13 W T16 (15 W EB)
LED 7 W	≈ 1 x 14 W T16 (16 W EB)
LED 13 W	≈ 1 x 28 W T16 (31 W EB)
LED 19 W	≈ 1 x 35 W T16 (38 W EB)
LED 22 W	≈ 1 x 49 W T16 (53 W EB)

Ref. No.	Dimensions	Lamp power	System power	Light colour	Luminaire flux
Linear luminaires					
Length L 312 mm					
451156.002	L 312, B 22, H 39	LED 4 W	830	350 lm	
451156.002.1	L 312, B 22, H 39	LED 4 W	840	380 lm	
Length L 540 mm					
451157.002	L 540, B 22, H 39	LED 7 W	830	610 lm	
451157.002.1	L 540, B 22, H 39	LED 7 W	840	670 lm	
Length L 873 mm					
451158.002	L 873, B 22, H 39	LED 13 W	830	1200 lm	
451158.002.1	L 873, B 22, H 39	LED 13 W	840	1300 lm	
Length L 1173 mm					
451159.002	L 1173, B 22, H 39	LED 19 W	830	1750 lm	
451159.002.1	L 1173, B 22, H 39	LED 19 W	840	1900 lm	
Length L 1473 mm					
451160.002	L 1473, B 22, H 39	LED 22 W	830	2050 lm	
451160.002.1	L 1473, B 22, H 39	LED 22 W	840	2450 lm	
Accessories					
Corner connectors					
981470.002	L 47, B 47, H 42				
Connectors					
981457.002	Power supply cable 1800 mm (Europlug with socket)				
981462.002	Connecting cable 160 mm				
981464.002	Connecting cable 300 mm				
981466.002	Connecting cable 600 mm				
981467.002	Connecting cable 900 mm				



INDOOR LIGHTING

Downlights

Projectors



64 65 66 68 70



71 72 73 74 75



76 77 78 79 80



PASCALA® EVO ROUND LED

Recessed downlights

Type of protection: IP 20, **IP 54** with corresponding accessories
Protection class: III, converter: I, II (11 W)

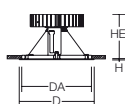
Mounting bracket: galvanised sheet steel.
Inner and closure ring: die-cast aluminium.
Reflector: truncated-cone with cover plate.
Reflector material: **MIRO-SILVER** with 98 per cent total light reflection. LED included.

Modular design: ballast needs to be ordered separately for each LED module.

Available colours (X):

2 = white, 4 = silver metallic

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
LED included; passive cooling						
Ceiling cutout DA 228 mm, HE 144 mm						
901439.00X	D 241, H 2	LED	11 W	830	1100 lm	44°
901439.00X.1	D 241, H 2	LED	11 W	840	1200 lm	44°
901440.00X	D 241, H 2	LED	22 W	830	1950 lm	44°
901440.00X.1	D 241, H 2	LED	22 W	840	2150 lm	44°
901441.00X	D 241, H 2	LED	34 W	830	2850 lm	53°
901441.00X.1	D 241, H 2	LED	34 W	840	3050 lm	53°
901442.00X	D 241, H 2	LED	55 W	830	3800 lm	53°
901442.00X.1	D 241, H 2	LED	55 W	840	4050 lm	53°
Ra > 90 on request						

Converter (ballast) for LED module (IP 20) suitable for through-wiring

981998.002	for LED 11 W	Standard
981999.002.76	for LED 11 W	dimnable DALI
981937.002	for LED 22/34 W	Standard
982000.002.76	for LED 22/34 W	dimnable DALI
981938.002	for LED 55 W	Standard
982001.002.76	for LED 55 W	dimnable DALI

not suitable for through-wiring

981936.002	for LED 11 W	Standard
981936.002.76	for LED 11 W	dimnable DALI
981937.002.76	for LED 22/34 W	dimnable DALI
981938.002.76	for LED 55 W	dimnable DALI

Comparison

LED : conventional lamps

LED 11 W	≈ 1 x 26 W	TC-D (34 W CB)
LED 22 W	≈ 1 x 42 W	TC-TEL (47 W EB)
LED 34 W	≈ 2 x 32 W	TC-TEL (69 W EB)
LED 55 W	≈ 2 x 42 W	TC-TEL (90 W EB)

- Round MIRO-SILVER reflector realized via a patented manufacturing process, with 98% total light reflection
- Brilliantly luminous corona at the light-emitting surfaces thanks to use of a specially designed cast aluminium ring as a reflector closure
- Round ceiling cut-out for easy installation also with quadratic types
- Rated life time 50000 h (L80, B10)
- Replaceable LED spot modules according to ZHAGA standards
- Good colour consistency within 3 Mac Adam ellipses (3 SDMC)
- UGR < 19
- Converter standard (on/off) or DALI, modular construction
- The converter is compatible with DC, making it ideal for central emergency power supply purposes.
- A model with a 10 or 14 degree super-spot reflector is also available
- Large selection of decorative and functional accessory plates
- IP 54 cover plates available



PASCALA® EVO SQUARE LED

Recessed downlights

Type of protection: IP 20
Protection class: III, converter: I, II
(11 W)

LED

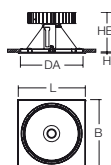
Mounting bracket: galvanised sheet steel.
Inner ring and square cover plate: die-cast aluminium. Reflector: truncated-cone with cover plate. Reflector material: **MIRO-SILVER** with 98 percent total light reflection.

LED included.

Modular design: ballast needs to be ordered separately for each LED module.

Available colours (X):

2 = white, 4 = silver metallic



light control



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
LED included, passive cooling						
Ceiling cutout DA 228 mm, HE 144 mm						
901443.00X	L 241, B 241, H 2	LED	11 W	830	1100 lm	44°
901443.00X.1	L 241, B 241, H 2	LED	11 W	840	1200 lm	44°
901444.00X	L 241, B 241, H 2	LED	22 W	830	1950 lm	44°
901444.00X.1	L 241, B 241, H 2	LED	22 W	840	2150 lm	44°
901445.00X	L 241, B 241, H 2	LED	34 W	830	2850 lm	53°
901445.00X.1	L 241, B 241, H 2	LED	34 W	840	3050 lm	53°
901446.00X	L 241, B 241, H 2	LED	55 W	830	3800 lm	53°
901446.00X.1	L 241, B 241, H 2	LED	55 W	840	4050 lm	53°
Ra > 90 on request						

Converter (ballast) for LED module (IP 20) suitable for through-wiring

981998.002	for LED 11 W	Standard
981999.002.76	for LED 11 W	dimmmable DALI
981937.002	for LED 22/34 W	Standard
982000.002.76	for LED 22/34 W	dimmmable DALI
981938.002	for LED 55 W	Standard
982001.002.76	for LED 55 W	dimmmable DALI
not suitable for through-wiring		
981936.002	for LED 11 W	Standard
981936.002.76	for LED 11 W	dimmmable DALI
981937.002.76	for LED 22/34 W	dimmmable DALI
981938.002.76	for LED 55 W	dimmmable DALI



- LED downlight featuring advanced technology and sophisticated design
- Cooling element and cover plate or ring made of die-cast aluminium
- Three sizes: Mini D 140, Midi D 180, Maxi D 230
- Low profile unobtrusive housing - recessed height: Mini 79 mm, Midi 89 mm, Maxi 108 mm
- Four different lumen options:
Mini > 1000 lm + 2000 lm
Midi > 2000 lm + 3000 lm
Maxi > 3000 lm + 4000 lm
- Replaceable LED spot modules according to ZHAGA standards
- Standard CRI: 82, optionally available CRI 92
- IP 65 rating also for the intermediate ceiling; this in turn means optimum protection against dust or moisture
- Faceted aluminium reflector with textured surface (IP 65) or highly glossy (IP 20)
- Unique light mixing chamber provides harmonized lighting and advanced anti-glare properties, as well as high LORs
- Converter for standard (On/Off), DALI dimmable
- Tool-free installation thanks to spring fastening system



LEDONA ROUND IP20

Recessed downlights

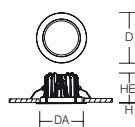
Type of protection: IP 20
Protection class: III, converter: I, II
(11 W)




Housing: aluminium profile designed as a heat sink. Bezel ring: die-cast aluminium, powder-coated. Open version. Faceted aluminium reflector high gloss, with high gloss light mixing chamber. Spring fastening system.
LED included.

Modular design: ballast needs to be ordered separately for each LED module.

Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
LED included; passive cooling						
Mini, ceiling cutout DA 120 mm, HE 79 mm						
901383.002	D 140, H 3	LED	11 W	830	950 lm	44°
901383.002.1	D 140, H 3	LED	11 W	840	970 lm	44°
901384.002	D 140, H 3	LED	22 W	830	1650 lm	44°
901384.002.1	D 140, H 3	LED	22 W	840	1750 lm	44°
Midi, ceiling cutout DA 160 mm, HE 89 mm						
901385.002	D 180, H 3	LED	22 W	830	1750 lm	66°
901385.002.1	D 180, H 3	LED	22 W	840	1800 lm	66°
901386.002	D 180, H 3	LED	34 W	830	2850 lm	72°
901386.002.1	D 180, H 3	LED	34 W	840	2900 lm	72°
Maxi, ceiling cutout DA 210 mm, HE 108 mm						
901387.002	D 230, H 3	LED	34 W	830	2750 lm	89°
901387.002.1	D 230, H 3	LED	34 W	840	2800 lm	89°
901388.002	D 230, H 3	LED	55 W	830	3550 lm	89°
901388.002.1	D 230, H 3	LED	55 W	840	3650 lm	89°
Converter (ballast) for LED module (IP 20)						
suitable for through-wiring						
981998.002	for LED 11 W	Standard				
981999.002.76	for LED 11 W	dimmable DALI				
981937.002	for LED 22/34 W	Standard				
982000.002.76	for LED 22/34 W	dimmable DALI				
981938.002	for LED 55 W	Standard				
982001.002.76	for LED 55 W	dimmable DALI				
not suitable for through-wiring						
981936.002	for LED 11 W	Standard				
981936.002.76	for LED 11 W	dimmable DALI				
981937.002.76	for LED 22/34 W	dimmable DALI				
981938.002.76	for LED 55 W	dimmable DALI				

Comparison LED : conventional lamps

LED 11 W	≈	2 x 13 W TC-D (38 W CB)
	≈	1 x 20 W HIT-CE (23 W EB)
LED 22 W	≈	2 x 18 W TC-D (52 W CB)
LED 34 W	≈	2 x 26 W TC-D (68 W CB)
	≈	1 x 35 W HIT-CE (45 W CB)
LED 55 W	≈	2 x 32 W TC-TEL (69 W EB)
	≈	1 x 50 W HIT-CE (60 W CB)



LEDONA ROUND IP65

Recessed downlights

Type of protection: **IP 65**

Protection class: III, converter: I, II
(11 W)

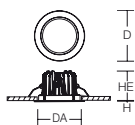
Housing: aluminium profile designed as a heat sink. Bezel ring: die-cast aluminium, powder-coated. Closed version. LED diffuser made of safety glass. Facetted aluminium reflector satin-matt, with high gloss light mixing chamber. Spring fastening system.

LED included.

Modular design: ballast needs to be ordered separately for each LED module.


Available colour: 2 = white

LED



light control



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
LED included; passive cooling						
Mini, ceiling cutout DA 120 mm, HE 79 mm						
901345.002	D 140, H 3	LED	11 W	830	850 lm	41°
901345.002.1	D 140, H 3	LED	11 W	840	870 lm	41°
901374.002	D 140, H 3	LED	22 W	830	1500 lm	41°
901374.002.1	D 140, H 3	LED	22 W	840	1550 lm	41°
Midi, ceiling cutout DA 160 mm, HE 89 mm						
901346.002	D 180, H 3	LED	22 W	830	1600 lm	65°
901346.002.1	D 180, H 3	LED	22 W	840	1650 lm	65°
901375.002	D 180, H 3	LED	34 W	830	2600 lm	70°
901375.002.1	D 180, H 3	LED	34 W	840	2650 lm	70°
Maxi, ceiling cutout DA 210 mm, HE 108 mm						
901347.002	D 230, H 3	LED	34 W	830	2600 lm	85°
901347.002.1	D 230, H 3	LED	34 W	840	2650 lm	85°
901376.002	D 230, H 3	LED	55 W	830	3350 lm	85°
901376.002.1	D 230, H 3	LED	55 W	840	3450 lm	85°
Converter (ballast) for LED module (IP 20)						
suitable for through-wiring						
981998.002	for LED 11 W	Standard				
981999.002.76	for LED 11 W	dimmable DALI				
981937.002	for LED 22/34 W	Standard				
982000.002.76	for LED 22/34 W	dimmable DALI				
981938.002	for LED 55 W	Standard				
982001.002.76	for LED 55 W	dimmable DALI				
not suitable for through-wiring						
981936.002	for LED 11 W	Standard				
981936.002.76	for LED 11 W	dimmable DALI				
981937.002.76	for LED 22/34 W	dimmable DALI				
981938.002.76	for LED 55 W	dimmable DALI				





LEDONA SQUARE IP20

Recessed downlights

Type of protection: IP 20
Protection class: III, converter: I, II
(11 W)

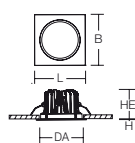


Housing: aluminium profile designed as a heat sink. Square cover plate: die-cast aluminium, powder-coated. Open version. Facetted aluminium reflector high gloss, with high gloss light mixing chamber. Spring fastening system.

LED included.

Modular design: ballast needs to be ordered separately for each LED module.

Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
LED included; passive cooling						
Mini, ceiling cutout DA 120 mm, HE 79 mm						
901389.002	L 130, B 130, H 3	LED	11 W	830	950 lm	44°
901389.002.1	L 130, B 130, H 3	LED	11 W	840	970 lm	44°
901390.002	L 130, B 130, H 3	LED	22 W	830	1650 lm	44°
901390.002.1	L 130, B 130, H 3	LED	22 W	840	1750 lm	44°
Midi, ceiling cutout DA 160 mm, HE 89 mm						
901391.002	L 170, B 170, H 3	LED	22 W	830	1750 lm	66°
901391.002.1	L 170, B 170, H 3	LED	22 W	840	1800 lm	66°
901392.002	L 170, B 170, H 3	LED	34 W	830	2850 lm	72°
901392.002.1	L 170, B 170, H 3	LED	34 W	840	2900 lm	72°
Maxi, ceiling cutout DA 210 mm, HE 108 mm						
901393.002	L 220, B 220, H 3	LED	34 W	830	2750 lm	89°
901393.002.1	L 220, B 220, H 3	LED	34 W	840	2800 lm	89°
901394.002	L 220, B 220, H 3	LED	55 W	830	3550 lm	89°
901394.002.1	L 220, B 220, H 3	LED	55 W	840	3650 lm	89°

Converter (ballast) for LED module (IP 20)

suitable for through-wiring

981998.002	for LED 11 W	Standard
981999.002.76	for LED 11 W	dimmmable DALI
981937.002	for LED 22/34 W	Standard
982000.002.76	for LED 22/34 W	dimmmable DALI
981938.002	for LED 55 W	Standard
982001.002.76	for LED 55 W	dimmmable DALI

not suitable for through-wiring

981936.002	for LED 11 W	Standard
981936.002.76	for LED 11 W	dimmmable DALI
981937.002.76	for LED 22/34 W	dimmmable DALI
981938.002.76	for LED 55 W	dimmmable DALI

Comparison

LED : conventional lamps

LED 11 W	≈	2 x 13 W TC-D (38 W CB)
	≈	1 x 20 W HIT-CE (23 W EB)
LED 22 W	≈	2 x 18 W TC-D (52 W CB)
LED 34 W	≈	2 x 26 W TC-D (68 W CB)
	≈	1 x 35 W HIT-CE (45 W CB)
LED 55 W	≈	2 x 32 W TC-TEL (69 W EB)
	≈	1 x 50 W HIT-CE (60 W CB)

- LED downlight featuring advanced technology and sophisticated design
- Cooling element and cover plate or ring made of die-cast aluminium
- Three sizes: Mini □ 140, Midi □ 170, Maxi □ 220
- Low profile unobtrusive housing - recessed height: Mini 79 mm, Midi 89 mm, Maxi 108 mm
- Four different lumen options:
Mini > 1000 lm + 2000 lm
Midi > 2000 lm + 3000 lm
Maxi > 3000 lm + 4000 lm
- Replaceable LED spot modules according to ZHAGA standards
- Standard CRI: 82, optionally available CRI 92
- IP 65 rating also for the intermediate ceiling; this in turn means optimum protection against dust or moisture
- Faceted aluminium reflector with textured surface (IP 65) or highly glossy (IP 20)
- Unique light mixing chamber provides harmonized lighting and advanced anti-glare properties, as well as high LORs
- Converter for standard (On/Off), DALI dimmable
- Tool-free installation thanks to spring fastening system



LEDONA SQUARE IP65

Recessed downlights

Type of protection: **IP 65**

Protection class: III, converter: I, II (11 W)

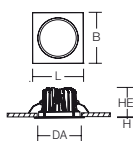


Housing: aluminium profile designed as a heat sink. Square cover plate: die-cast aluminium, powder-coated. Closed version. LED diffuser made of safety glass. Facetted aluminium reflector satin-matt, with high gloss light mixing chamber. Spring fastening system.

LED included.

Modular design: ballast needs to be ordered separately for each LED module.

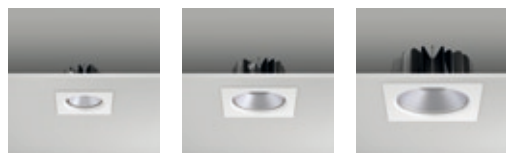
Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
LED included; passive cooling						
Mini, ceiling cutout DA 120 mm, HE 79 mm						
901377.002	L 130, B 130, H 3	LED	11 W	830	850 lm	41°
901377.002.1	L 130, B 130, H 3	LED	11 W	840	870 lm	41°
901378.002	L 130, B 130, H 3	LED	22 W	830	1500 lm	41°
901378.002.1	L 130, B 130, H 3	LED	22 W	840	1550 lm	41°
Midi, ceiling cutout DA 160 mm, HE 89 mm						
901379.002	L 170, B 170, H 3	LED	22 W	830	1600 lm	65°
901379.002.1	L 170, B 170, H 3	LED	22 W	840	1650 lm	65°
901380.002	L 170, B 170, H 3	LED	34 W	830	2600 lm	70°
901380.002.1	L 170, B 170, H 3	LED	34 W	840	2650 lm	70°
Maxi, ceiling cutout DA 210 mm, HE 108 mm						
901381.002	L 220, B 220, H 3	LED	34 W	830	2600 lm	85°
901381.002.1	L 220, B 220, H 3	LED	34 W	840	2650 lm	85°
901382.002	L 220, B 220, H 3	LED	55 W	830	3350 lm	85°
901382.002.1	L 220, B 220, H 3	LED	55 W	840	3450 lm	85°

Converter (ballast) for LED module (IP 20) suitable for through-wiring

981998.002	for LED 11 W	Standard
981999.002.76	for LED 11 W	dimmable DALI
981937.002	for LED 22/34 W	Standard
982000.002.76	for LED 22/34 W	dimmable DALI
981938.002	for LED 55 W	Standard
982001.002.76	for LED 55 W	dimmable DALI
not suitable for through-wiring		
981936.002	for LED 11 W	Standard
981936.002.76	for LED 11 W	dimmable DALI
981937.002.76	for LED 22/34 W	dimmable DALI
981938.002.76	for LED 55 W	dimmable DALI





- LED downlight to fulfill highest demands
- Round and square versions
- Heat sink and cover plate or ring made of die-cast aluminium
- Impact resistant opal cover made of plastic
- Three sizes: Mini D 140/ □ 130, Midi D 180/ □ 170, Maxi D 230/ □ 220
- Very low recess depths Mini HE 80 mm, Midi HE 90 mm, Maxi HE 111 mm
- Passive cooling system
- Interchangeable mains voltage LED
- LED lumen packages: 800 lm, 2000 lm and 3000 lm
- Colour temperatures 4000 K and 3000 K
- Colour rendering index greater than 80
- IP 65 also on the rear of the downlight (i.e. when used in false ceilings), hence optimum protection against dirt or moisture
- Direct connection to 220 - 240 V/AC, i.e. no need for converters
- Round ceiling cut-out for easy installation also with quadratic types
- Easy to mount thanks to tool-free spring fastening system

LEDONA ECO ROUND

Recessed downlights



Type of protection: **IP 65**
Protection class: I

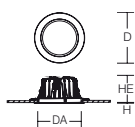
LED

Bezel ring and housing: die-cast aluminium, powder-coated. Cover: plastic, opal. Ceiling installation with spring system. 2 meter connecting cable with open wire ends. Passive cooling.

LED included.

No converter required.

Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
Mini						
Ceiling cutout DA 120 mm, HE 80 mm						
LED included: 800 lm, passive cooling						
901431.002	D 140, H 3	LED	13,1 W	830	570 lm	108°
901431.002.1	D 140, H 3	LED	12,6 W	840	560 lm	108°
Midi						
Ceiling cutout DA 160 mm, HE 90 mm						
LED included: 800 lm, passive cooling						
901433.002	D 180, H 3	LED	13,1 W	830	640 lm	110°
901433.002.1	D 180, H 3	LED	12,6 W	840	600 lm	110°
LED included: 2000 lm, passive cooling						
901434.002	D 180, H 3	LED	25,7 W	830	1550 lm	110°
901434.002.1	D 180, H 3	LED	24,4 W	840	1500 lm	110°
Maxi						
Ceiling cutout DA 210 mm, HE 111 mm						
LED included: 3000 lm, passive cooling						
901454.002	D 230, H 3	LED	34 W	830	2100 lm	110°
901454.002.1	D 230, H 3	LED	34 W	840	2300 lm	110°

Comparison

LED : conventional lamps

LED 13 W \approx 1 x 18 W TC-D (26 W CB)

LED 26 W \approx 2 x 18 W TC-D (52 W CB)

LED 34 W \approx 2 x 26 W TC-D (68 W CB)



LEDONA ECO SQUARE

Recessed downlights

Type of protection: **IP 65**
Protection class: I

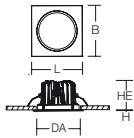
LED


Square cover and housing: die-cast aluminium, powder-coated. Cover: plastic, opal.
Ceiling installation with spring system.
2 meter connecting cable with open wire ends. Passive cooling.

LED included.

No converter required.

Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
Mini						
Ceiling cutout DA 120 mm, HE 80 mm						
LED included: 800 lm, passive cooling						
901435.002	L 130, B 130, H 3	LED	13,1 W	830	570 lm	108°
901435.002.1	L 130, B 130, H 3	LED	12,6 W	840	560 lm	108°
Midi						
Ceiling cutout DA 160 mm, HE 90 mm						
LED included: 800 lm, passive cooling						
901437.002	L 170, B 170, H 3	LED	13,1 W	830	640 lm	110°
901437.002.1	L 170, B 170, H 3	LED	12,6 W	840	600 lm	110°
LED included: 2000 lm, passive cooling						
901438.002	L 170, B 170, H 3	LED	25,7 W	830	1550 lm	110°
901438.002.1	L 170, B 170, H 3	LED	24,4 W	840	1500 lm	110°
Maxi						
Ceiling cutout DA 210 mm, HE 111 mm						
LED included: 3000 lm, passive cooling						
901455.002	L 220, B 220, H 3	LED	34 W	830	2100 lm	110°
901455.002.1	L 220, B 220, H 3	LED	34 W	840	2300 lm	110°



- Decorative LED downlight with daintily small dimensions
- Protection type IP 44
- Alternative for low-voltage downlights 35 W and 50 W
- Rated life: approx. 35000 hours (L70, B10)
- CRI greater than 80
- Good colour consistency within 4 Mac Adam ellipses (4 SDMC)
- Very good glare limitation due to back-mounted LED
- UGR from 12 up to 17 - computer workstation enabled
- Safety glass cover plate protects the LED
- Versions in DALI dimmable
- Version for phase dimmer suitable for all standard trailing edge dimmers



LEVIDO ROUND

Recessed downlights

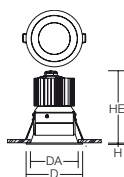
Type of protection: **IP 44**
Protection class: II


LED

White plastic ring. Housing: sheet steel, powder-coated, black. Cooling element made of extruded aluminium. Reflector: aluminium, highly polished anodised finish. With protective cover. Ceiling installation with spring system. LED converter in separate box. With connecting cable (L 250 mm). Passive cooling.

LED and LED converter included.

Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
Ceiling cutout DA 78 mm, HE 116 mm						
901422.002	D 91, H 2	LED	9 W	830	520 lm	43°
901423.002	D 91, H 2	LED	15 W	830	830 lm	48°
901423.002.76	D 91, H 2	LED	15 W	830	830 lm	48°
901429.002*	D 91, H 2	LED	15 W	830	830 lm	48°

* Suitable with phase dimmer

Comparison

LED : conventional lamps

LED 9 W ≈ 1 x 35 W QR-CB (39 W)

LED 15 W ≈ 1 x 50 W QR-CB (55 W)



LEVIDO SQUARE

Recessed downlights

Type of protection: **IP 44**

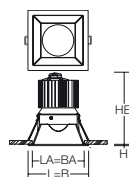
Protection class: II


LED

White plastic ring. Housing: sheet steel, powder-coated, black. Cooling element made of extruded aluminium. Reflector: aluminium, highly polished anodised finish. With protective cover. Ceiling installation with spring system. LED converter in separate box. With connecting cable (L 250 mm). Passive cooling.

LED and LED converter included.

Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
Ceiling cutout LA 84 x BA 84 mm, HE 116 mm						
901425.002	L 98, B 98, H 2	LED	9 W	830	530 lm	51°
901426.002	L 98, B 98, H 2	LED	15 W	830	920 lm	53°
901426.002.76	L 98, B 98, H 2	LED	15 W	830	920 lm	53°
901430.002*	L 98, B 98, H 2	LED	15 W	830	920 lm	53°

* Suitable with phase dimmer



- Superflat recessed LED downlight in three different diametres
- Recess depths: 34 mm
- Rated life: approx. 35000 hours (L70, B10)
- Colour rendering Ra > 80
- Colour temperature 3000 K or 4000 K
- Easy to mount thanks to tool-free spring fastening system
- Separate converter box with connecting cable

Applications:

Corridors, side rooms, hotels, restaurants, conference rooms, private rooms



TOLEDO FLAT

Recessed downlights

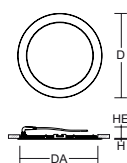
Type of protection: **IP 40**
Protection class: II


LED

Housing die-cast aluminium, diffuser opal matt plastic, spring fastening system, separate LED converter with connecting cable 250 mm.

LED and converter included.

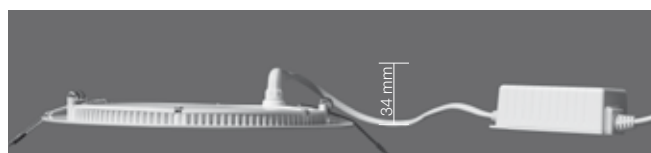
Available colour: 2 = white



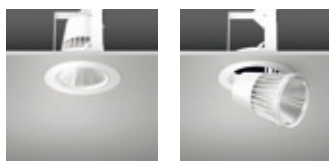
Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Recessed downlights						
Mini						
Ceiling cutout DA 128 mm, HE 34 mm						
901451.002	D 150, H 2	LED	5 W	830	360 lm	110°
901451.002.1	D 150, H 2	LED	5 W	840	380 lm	110°
Midi						
Ceiling cutout DA 170 mm, HE 34 mm						
901452.002	D 190, H 3	LED	9 W	830	660 lm	110°
901452.002.1	D 190, H 3	LED	9 W	840	660 lm	110°
Maxi						
Ceiling cutout DA 234 mm, HE 34 mm						
901453.002	D 255, H 3	LED	18 W	830	1300 lm	110°
901453.002.1	D 255, H 3	LED	18 W	840	1500 lm	110°

Comparison LED : conventional lamps

LED 5 W ≈ 1 x 7 W TC-S (14 W CB)
LED 9 W ≈ 1 x 13 W TC-D (19 W CB)
LED 18 W ≈ 1 x 26 W TC-D (34 W CB)



- Highest level of light quality thanks to ultra-modern LED technology
- Special LED for rich colours and brilliant white: Colour Fresh 931, Ra 95
- Food lighting: special LEDs for meat and bakery products - filters are not needed
- LED modules with luminous flux levels up to 4500 lm
- Passive cooling, achieved by specially designed heat sinks
- Rated life time 50000 h (L80, B10)
- Good colour consistency within 3 Mac Adam ellipses (3 SDMC)
- Non-reflecting safety glass cover with minimal loss of transmission for the protection of LED and reflector
- Recessed version completely flush mount or extendible for maximum flexible adjustment thanks to a new push&play technology
- Consistent alignment possible with visible tilt scale
- Provided as standard with converter for on/off or DALI dimming function



TAREK R

Recessed projectors

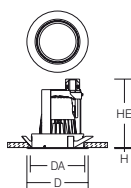
Type of protection: IP 20
Protection class: II

LED

Housing: die-cast aluminium, powder-coated.
Rotation range: 356° swivel range: 70°.
Completely flush mount with magnetic fixing.
Passive cooling. Faceted aluminium reflector.
LED module exchangeable. Non-reflecting safety glass cover.

Modular design: Converter and reflector unit (consisting of bayonet ring, safety glass and reflector) must be ordered separately.

Available colours (X):
2 = white, 3 = black, 4 = silver metallic



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Surface mounted projector					
Ceiling cutout DA 160 mm, HE 200 mm without reflector					
LED included: 25 W					
911172.00X.2	D 180, H 3	LED	28 W	827	2400 lm
911172.00X	D 180, H 3	LED	28 W	830	2450 lm
911172.00X.1	D 180, H 3	LED	28 W	840	2650 lm
LED included: 40 W					
911173.00X.2	D 180, H 3	LED	45 W	827	3450 lm
911173.00X	D 180, H 3	LED	45 W	830	3600 lm
911173.00X.1	D 180, H 3	LED	45 W	840	3800 lm
Special Colour Fresh 931 LED included					
911177.00X	D 180, H 3	LED	28 W	931	2200 lm
911176.00X	D 180, H 3	LED	45 W	931	3150 lm
Special LED for bakery products included					
911175.00X	D 180, H 3	LED	45 W	927	2950 lm
Special LED for meat products included					
911174.00X	D 180, H 3	LED	45 W	820	1900 lm

Luminaire flux values refer to 41° reflector

Modules for Tarek R - must always be ordered separately

Converter (ballast) for LED module		
982008.002	for LED module 25 W	Standard ON / OFF
982008.002.76	for LED module 25 W	dimmmable DALI
982007.002	for LED module 40 W	Standard ON / OFF
982007.002.76	for LED module 40 W	dimmmable DALI
Reflector unit		
982006.00X	D 122, H 72 mm	Reflector 15 °
982006.01X	D 122, H 72 mm	Reflector 22 °
982006.02X	D 122, H 72 mm	Reflector 41 °

Comparison LED : conventional lamps

LED 28 W \approx 1 x 35 W HIT-CE (45 W CB)
LED 45 W \approx 1 x 50 W HIT-CE (60 W CB)



- Highest level of light quality thanks to ultra-modern LED technology
- Special LED for rich colours and brilliant white: Colour Fresh 931, Ra 95
- Food lighting: special LEDs for meat and bakery products - filters are not needed
- LED modules with luminous flux levels up to 4500 lm
- Passive cooling, achieved by specially designed thermal dissipaters
- Rated life time 50000 h (L80, B10)
- Good colour consistency within 3 Mac Adam ellipses (3 SDMC)
- Non-reflecting safety glass cover with minimal loss of transmission for the protection of LED and reflector
- Consistent alignment possible with visible tilt scale
- Provided as standard with converter for ON/OFF or DALI dimming function



TAREK S

Surface mounted projectors

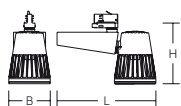
Type of protection: IP 20
Protection class: I

Housing: die-cast aluminium, powder-coated.
Rotation range: 356°. Swivel range: 180°.
Passive cooling. Faceted aluminium reflector.
LED module exchangeable.

Modular design: Reflector unit (consisting of bayonet ring, safety glass cover and reflector) to be ordered separately.

Available colours (X):
2 = white, 3 = black, 4 = silver metallic

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
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Surface mounted projector

with multi adaptor for 3-circuit tracks 230 V
without reflector

LED included: 25 W

741728.00X.2	L 290, B 120, H 175	LED	28 W	827	2400 lm
741728.00X	L 290, B 120, H 175	LED	28 W	830	2450 lm
741728.00X.1	L 290, B 120, H 175	LED	28 W	840	2650 lm

LED included: 40 W

741729.00X.2	L 290, B 120, H 175	LED	45 W	827	3450 lm
741729.00X	L 290, B 120, H 175	LED	45 W	830	3600 lm
741729.00X.1	L 290, B 120, H 175	LED	45 W	840	3800 lm

Special Colour Fresh 931 LED included

741747.00X	L 290, B 120, H 175	LED	28 W	931	2200 lm
741732.00X	L 290, B 120, H 175	LED	45 W	931	3150 lm

Special LED for bakery products included

741731.00X	L 290, B 120, H 175	LED	45 W	927	2950 lm
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Special LED for meat products included

741730.00X	L 290, B 120, H 175	LED	45 W	820	1900 lm
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All versions with DALI adapter for RZB 3-circuit DALI tracks available:

Reference number addition .76

Luminaire flux values refer to 41° reflector

Modules for Tarek S - must always be ordered separately

Reflector unit

982006.00X	D 122, H 72 mm	Reflector 15 °
982006.01X	D 122, H 72 mm	Reflector 22 °
982006.02X	D 122, H 72 mm	Reflector 41 °

Comparison

LED : conventional lamps

LED 28 W ≈ 1 x 35 W HIT-CE (45 W CB)

LED 45 W ≈ 1 x 50 W HIT-CE (60 W CB)

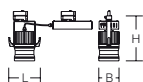
- High quality LED spot for 3-circuit tracks
- LED modules with different luminous flux levels with a choice of output up to 6000 lm
- Large lumen packages, suitable for large ceiling heights
- Passive cooling, thanks to specially designed cooling fins made of anodised aluminium
- Joined components with minimum tolerances for maximum heat transmission
- Spotlight head made of turned aluminium to ensure optimum heat dissipation
- Spotlight head IP 54, offering excellent protection for LED and reflector against dust and dirt
- Separate converter housing offers thermal isolation from LED
- Rated life: approx. 50000 hours (L70, B10)
- Light colours 830 or 840, 930 on request
- Good colour consistency within 3 Mac Adam ellipses (3 SDMC)
- Non-reflecting safety glass cover with minimal loss of transmission for the protection of LED and reflector
- Provided as standard with converter for ON/OFF or DALI dimming function



RALITE® SPOT S


Surface mounted projectors

Type of protection: IP 20
Spotlight head: **IP 54**
Protection class: I



Spotlight head made of turned aluminium, powder coated or anodised finish. Special heat sink made of black anodised aluminium profile. Rotation range: 356° swivel range: 70°. Electrical gears in separate housings with joined connection cable. Threaded joints made of stainless steel. Faceted aluminium reflector. LED module included. Non-reflecting safety glass cover.

Available colours (X):
2 = white, 3 = black, 4 = silver metallic,
34 = black/aluminium anodised

Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Surface mounted projector						
with multi adaptor for 3-circuit tracks 230 V						
LED included: 40 W, passive cooling						
741744.00X	L 186, B 120, H 264	LED 45 W	830	3800 lm	18°	
741745.00X	L 186, B 120, H 264	LED 45 W	830	3650 lm	25°	
741746.00X	L 186, B 120, H 264	LED 45 W	830	3600 lm	42°	
741744.00X.1	L 186, B 120, H 264	LED 45 W	840	3950 lm	18°	
741745.00X.1	L 186, B 120, H 264	LED 45 W	840	3800 lm	25°	
741746.00X.1	L 186, B 120, H 264	LED 45 W	840	3800 lm	42°	
LED included: 69 W, passive cooling						
741738.00X	L 186, B 120, H 264	LED 74 W	830	5200 lm	18°	
741739.00X	L 186, B 120, H 264	LED 74 W	830	5000 lm	25°	
741740.00X	L 186, B 120, H 264	LED 74 W	830	5000 lm	42°	
741738.00X.1	L 186, B 120, H 264	LED 74 W	840	5450 lm	18°	
741739.00X.1	L 186, B 120, H 264	LED 74 W	840	5250 lm	25°	
741740.00X.1	L 186, B 120, H 264	LED 74 W	840	5250 lm	42°	

All versions with DALI adapter for RZB 3-circuit DALI tracks available:
Reference number addition **.76**

Comparison LED : conventional lamps

LED 45 W ≈ 1 x 50 W HIT-CE (60 W CB)
LED 74 W ≈ 1 x 70 W HIT (84 W CB)



- Recessed and surface mounted projectors featuring the same elegant design
- Special LED for rich colours and brilliant white: Colour Fresh 931, Ra 95
- Food lighting: special LEDs for meat and bakery products - filters are not needed
- LED modules with luminous flux levels up to 4500 lm
- Wide range of accessories, such as anti-glare louvres, barn doors and more
- Lateral glare restriction thanks to black plastic front ring
- 3 Beam angles: narrow, medium, wide
- Passive cooling
- Interchangeable LED
- Rated life 50000 hours (L80, B10)
- Good colour consistency within 3 Mac Adam ellipses (3 SDMC)
- Safety glass protecting the LED (optional)

Additional versions can be found in our latest Product Selection Guide or on our website at www.rzb-lighting.com



PURA SPOT S MAXI LED

Surface mounted projectors

Type of protection: IP 20
Protection class: I

Housing: die-cast aluminium, powder-coated.
Rotation range: 356°. Swivel range: 180°.
Heat resistant plastic ring. Faceted aluminium reflector. With multi adaptor for 3-circuit track 230 V.

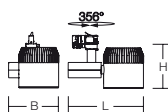
LED included.

Modular design: reflector unit (consisting of heat resistant plastic ring, reflector and, on request, safety glass cover) needs to be ordered separately

Available colours (X):

2 = white, 3 = black, 4 = silver coloured

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Surface mounted projector					
with multi adaptor for 3-circuit tracks 230 V					
without reflector					
LED included: 40 W					
741750.00X	L 227, B 146, H 154	LED	45 W	827	3300 lm
741750.00X.1	L 227, B 146, H 154	LED	45 W	830	3400 lm
741750.00X.2	L 227, B 146, H 154	LED	45 W	840	3700 lm
Special LED Colour Fresh 931 included					
741754.00X	L 227, B 146, H 154	LED	45 W	931	3000 lm
Special LED for bakery products included					
741752.00X	L 227, B 146, H 154	LED	45 W	927	2850 lm
Special LED for meat products included					
741751.00X	L 227, B 146, H 154	LED	45 W	820	1800 lm
All versions with DALI adapter for RZB 3-circuit DALI tracks available: Reference number addition .76 Luminaire flux values refer to 32° reflector without glass					
Reflector unit for Pura R und S Maxi LED					
must always be ordered separately					
981846.000	D 116, H 66 mm	Reflector: 18° (open version)			
981846.010	D 116, H 65 mm	Reflector: 32° (open version)			
981846.020	D 116, H 66 mm	Reflector 61° (open version)			
981846.030	D 116, H 65 mm	Reflector 18° with safety glass			
981846.040	D 116, H 66 mm	Reflector 32° with safety glass			
981846.050	D 116, H 66 mm	Reflector 61° with safety glass			
Accessories					
981849.003	Anti-glare shield, asymmetric				
981855.003	Anti-glare honeycomb louvre				
981858.003	Barn doors				
981852.003	Cross louvre				

Comparison

LED : conventional lamps

LED 45 W ≈ 1 x 50 W HIT-CE (60 W CB)

- LED projector with an excellent price performance
- Luminaire flux 3000 lm
- Passive cooling system
- Rated life 35 000 h (L70, B10)
- Good colour consistency within 4 Mac Adam ellipses (4 SDMC)
- Toolfree change of reflectors
- Two different beam angles: 23° and 43°
- Modular design with separate reflector unit for maximum flexibility
- Lateral glare restriction thanks to black plastic front ring
- Wide range of accessories, such as anti-glare louvres, barn doors and more



PURA S ECO

Surface mounted projectors



Type of protection: IP 20
Protection class: I

Housing: die-cast aluminium, powder-coated.
Rotation range: 356°. Swivel range: 180°.
Heat resistant plastic ring. Faceted aluminium reflector. With multi adaptor for 3-circuit track 230 V.

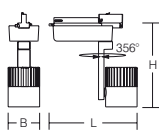
LED included.

Modular design: Reflector unit (consisting of heat resistant plastic ring and reflector) must be ordered separately.

Available colours (X):

2 = white, 3 = black, 4 = silver metallic

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Surface mounted projector					
with multi adaptor for 3-circuit tracks 230 V					
LED included: 3399 lm, passive cooling					
without reflector					
721735.00X	L 258, B 93, H 247	LED	37 W	830	3000 lm
721735.00X.1	L 258, B 93, H 247	LED	37 W	840	3000 lm
Reflector unit for Pura ECO					
must always be ordered separately					
982010.003	D 93, H 54 mm	Reflector: 23° (open version)			
982010.013	D 93, H 54 mm	Reflector: 43° (open version)			
Accessories					
981848.003	Anti-glare shield, asymmetric				
981854.003	Anti-glare honeycomb louvre				
981857.003	Barn doors				
981851.003	Cross louvre				

Comparison

LED : conventional lamps

LED 37 W ≈ 1 x 35 W HIT-CE (45 W CB)



- IP 67 rated precision housing
- High performance LED
- Uses up to 68 percent less energy than conventional fixtures
- Replaces any standard high intensity discharge lamps
- Unique light unit
- Maintenance friendly, IP 66 rated ballast box
- IP 67 rated plug-in connectors



RALITE Highbay

Highbay luminaires

Type of protection:
Spotlight unit **IP 67**,
Gear box **IP 66**
Protection class: I

LED

Aluminium body with M8 eye bolt. Special black anodised aluminium cooling profile with calculated cooling fins for optimum heat dissipation. Passive cooling. Turned aluminium spotlight head. Reflector made of pure aluminium, glossy brightened and anodised. Cable screw fitting metal. Converter in separate ballast box. Driver housing can be mounted horizontally to reduce the pendant length of the system. Including an anti-reflective safety glass. Suited for chain or steel cable suspension (provided by the client).


⚡ ball impact proof in accordance with DIN 18032-03.

⚠ For operation in fire hazardous environments.

LED included.

Available colour: 3 = black



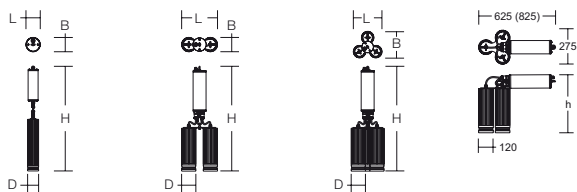
Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
Pendant projectors						
one lamp						
921438.003	D 119, H 1125	LED	100 W	840	9450 lm	60°
921438.003.76	D 119, H 1125	LED	100 W	840	9450 lm	60°
two lamps						
921448.003	L 275, B 119, H 867	LED	100 W	840	9350 lm	60°
921448.003.76	L 275, B 119, H 867	LED	100 W	840	9350 lm	60°
921449.003	L 275, B 119, H 867	LED	120 W	840	11000 lm	60°
921449.003.76	L 275, B 119, H 867	LED	120 W	840	11000 lm	60°
921450.003	L 275, B 119, H 867	LED	140 W	840	12400 lm	60°
921450.003.76	L 275, B 119, H 867	LED	140 W	840	12400 lm	60°



© Oliver Heint



light control 




Comparison LED : conventional lamps

LED 100 W \approx 250 W HME (275 W CB)
(1 lamp)

LED 140 W \approx 400 W HME (440 W CB)
(3 lamps)

LED 140 W \approx 250 W HIE (275 W CB)
(2 lamps)

LED 240 W \approx 400 W HIE (440 W CB)
(3 lamps)

Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
three lamps						
921439.003	L 275, B 254, H 867	LED	100 W	840	10400 lm	60°
921439.003.76	L 275, B 254, H 867	LED	100 W	840	10400 lm	60°
921440.003	L 275, B 254, H 867	LED	120 W	840	12800 lm	60°
921440.003.76	L 275, B 254, H 867	LED	120 W	840	12800 lm	60°
921441.003	L 275, B 254, H 867	LED	140 W	840	14600 lm	60°
921441.003.76	L 275, B 254, H 867	LED	140 W	840	14600 lm	60°
921442.003	L 275, B 254, H 867	LED	160 W	840	16400 lm	60°
921442.003.76	L 275, B 254, H 1267	LED	160 W	840	16400 lm	60°
921443.003	L 275, B 254, H 867	LED	180 W	840	17900 lm	60°
921443.003.76	L 275, B 254, H 1267	LED	180 W	840	17900 lm	60°
921444.003	L 275, B 254, H 867	LED	200 W	840	19100 lm	60°
921444.003.76	L 275, B 254, H 1267	LED	200 W	840	19100 lm	60°
921445.003	L 275, B 254, H 1067	LED	220 W	840	22700 lm	60°
921445.003.76	L 275, B 254, H 1267	LED	220 W	840	22700 lm	60°
921446.003	L 275, B 254, H 1067	LED	240 W	840	24000 lm	60°
921446.003.76	L 275, B 254, H 1267	LED	240 W	840	24000 lm	60°
921447.003	L 275, B 254, H 1267	LED	295 W	840	28400 lm	60°
921447.003.76	L 275, B 254, H 1267	LED	295 W	840	28400 lm	60°

engineered by R. Lanz



OUTDOOR LIGHTING

In-ground luminaires

Floodlights

Pathway luminaires

Ceiling and wall luminaires



84

85

86

87

89

90



92

93

96

97

98

99



- In-ground luminaire for pedestrian areas, maximum load 2000 kg
- Selection of circular or square shape marine grade stainless steel cover with flush mounted toughened glass
- Choice of three different light distributions: 16 deg. 48 deg, asymmetrical.
- Selection of two light colours: 3000 K – 830, 4000 K – 840
- Non corrosive aluminium die-cast housing
- Flexible power cord H07-RN8F compatible with IP 68 quick connectors and cast resin boxes for electrical connection outside luminaire housing
- Housing with integral vapour seal preventing condensed water
- Choice of 3 in-ground supports for underground cable or cabling with empty conduits
- Slip resistant glass (R12) and anti-glare louvre available as accessories

TERRA STAINLESS STEEL 245

In-ground luminaires

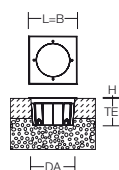
Type of protection: **IP 68**

Protection class: I

LED

Non-corrosive aluminium die-cast housing, powder coated. Marine grade stainless steel cover square shape. Flush toughened glass. Integral flexible power cord H07-RN8-F. Integral vapour seal against condensed water. LED included.

Available colour: 0 = stainless steel



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
In-ground luminaires						
Cut out DA 225 mm						
Rotation symmetrical light distribution						
641287.000	L 245, B 245, H 2	LED	28 W	830	2150 lm	16°
641287.000.1	L 245, B 245, H 2	LED	28 W	840	2250 lm	16°
641288.000	L 245, B 245, H 2	LED	28 W	830	2050 lm	48°
641288.000.1	L 245, B 245, H 2	LED	28 W	840	2150 lm	48°
Asymmetrical light distribution						
641289.000	L 245, B 245, H 2	LED	28 W	830	1800 lm	
641289.000.1	L 245, B 245, H 2	LED	28 W	840	1850 lm	
Accessories						
982014.010	Slip resistant glass R12					
982011.000	In-ground support for empty conduits cabling TE 130					
982012.000	Large in-ground support for underground cable TE 320					
982013.000	Closure for large in-ground support H 60					
982016.000	Stainless steel in-ground support for empty conduits cabling TE 135					
982015.003	Anti-glare louvre					

Comparison LED : conventional lamps

LED 28 W ≈ HIT 35 W (43 W)
≈ QT12 100 W (110 W)



TERRA STAINLESS STEEL 245

In-ground luminaires

Type of protection: **IP 68**

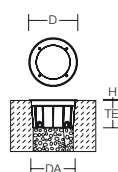
Protection class: I


Non-corrosive aluminium die-cast housing, powder coated. Marine grade stainless steel cover circular shape. Flush toughened glass. Integral flexible power cord H07-RN8-F. Integral vapour seal against condensed water.

LED included.

Available colour: 0 = stainless steel

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	
In-ground luminaires						
Cut out DA 225 mm						
Rotation symmetrical light distribution						
641284.000	D 245, H 2	LED	28 W	830	2150 lm	16°
641284.000.1	D 245, H 2	LED	28 W	840	2250 lm	16°
641285.000	D 245, H 2	LED	28 W	830	2050 lm	48°
641285.000.1	D 245, H 2	LED	28 W	840	2150 lm	48°
Asymmetrical light distribution						
641286.000	D 245, H 2	LED	28 W	830	1800 lm	
641286.000.1	D 245, H 2	LED	28 W	840	1850 lm	
Accessories						
982014.010	Slip resistant glass R12					
982011.000	In-ground support for empty conduits cabling TE 130					
982012.000	Large in-ground support for underground cable TE 320					
982013.000	Closure for large in-ground support H 60					
982016.000	Stainless steel in-ground support for empty conduits cabling TE 135					
982015.003	Anti-glare louvre					



- LED floodlight for accent and area lighting
- Optics made of spun, glossy brightened and anodised high purity aluminium
- Rotation symmetrical medium-wide and wide beam distribution
- Housing made of corrosion-resistant aluminium die-cast for outdoor application, stainless steel bracket, powder coated
- Tilt angle can be precisely adjusted and locked in 6° steps
- Thermally decoupled driver compartment
- COB-LEDs with socket, selection of two light colours 830 or 840
- With Gore™ protective Vents membrane valve against condensed water as a standard
- DALI dimmable as an option
- Made in Germany



LIGHTSTREAM® LED MAXI

Floodlights



Type of protection: **IP 65**

Protection class: I

LED

Housing made of non-corrosive die-cast aluminium, for exterior application.

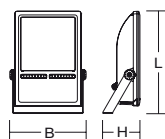
Bracket: aluminium, powder-coated. Tilt angle can be adjusted and locked in 6 deg. steps with precise angular scale. Thermally decoupled driver compartment. Toughened glass cover. COB LED with socket for easy replacement.

Reflector made of pure aluminium, glossy brightened and anodised. Standard Gore™ Protective Vents diaphragm valve for reduction of condensation. Plano key terminal 3x2.5mm², for max. cable Ø 13mm.

Loop-through available as accessory.

Available colours (X):

31 = anthracite metallic, 4 = silver metallic



Ref. No.

Dimensions

Lamp System
power

Light
colour

Luminaire
flux



Floodlights, direct mains connection

Rotationally symmetric wide beam light distribution

721733.11X	L 374, B 182, H 501	LED 112 W	830	8300 lm	102°
721733.11X.1	L 374, B 182, H 501	LED 112 W	840	8800 lm	102°
721718.11X	L 374, B 182, H 501	LED 225 W	830	16900 lm	102°
721718.11X.1	L 374, B 182, H 501	LED 225 W	840	17900 lm	102°

Accessories

Pole top fixings, single

982002.00X	Pole top fixing, single, for spigot 76 mm
982045.00X	Pole top fixing, single, for spigot 60 mm
982046.00X	Pole top fixing, single, for spigot 89 mm

Pole top fixings opposite mounting

982003.00X	Pole top fixing, double, for spigot 76 mm
982004.00X	Pole top fixing, double, for spigot 89 mm
982005.00X	Pole top fixing, double, for spigot 108 mm

Exchange Brackets for alternative mounting method

982052.00X	Bracket for Maxi symm. for pole mounting
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Comparison

LED : conventional lamps

LED 112 W ≈ 1 x HIT 150 W (170 W CB)
≈ 1 x QT-DE 400 W (400 W)

LED 225 W ≈ 1 x HIT 250 W (280 W CB)
≈ 1 x QT-DE 750 W (750 W)



LIGHTSTREAM® LED MAXI

Floodlights

Type of protection: **IP 65**

Protection class: I

Housing made of non-corrosive die-cast aluminium, for exterior application.

Bracket: aluminium, powder-coated. Tilt angle can be adjusted and locked in 6 deg. steps with precise angular scale. Thermally decoupled driver compartment. Toughened glass cover. COB LED with socket for easy replacement.

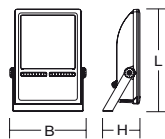
Reflector made of pure aluminium, glossy brightened and anodised. Standard Gore™ Protective Vents diaphragm valve for reduction of condensation. Plano key terminal 3x2.5mm², for max. cable Ø 13mm.

Loop-through available as accessory.

Available colours (X):

31 = anthracite metallic, 4 = silver metallic

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	α
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Floodlights, direct mains connection

Rotationally symmetric medium beam light distribution

721733.00X	L 374, B 182, H 501	LED	112 W	830	8000 lm	44°
721733.00X.1	L 374, B 182, H 501	LED	112 W	840	8500 lm	44°
721718.00X	L 374, B 182, H 501	LED	225 W	830	17400 lm	44°
721718.00X.1	L 374, B 182, H 501	LED	225 W	840	18400 lm	44°

Accessories

Pole top fixings, single

982002.00X	Pole top fixing, single, for spigot 76 mm
982045.00X	Pole top fixing, single, for spigot 60 mm
982046.00X	Pole top fixing, single, for spigot 89 mm

Pole top fixings opposite mounting

982003.00X	Pole top fixing, double, for spigot 76 mm
982004.00X	Pole top fixing, double, for spigot 89 mm
982005.00X	Pole top fixing, double, for spigot 108 mm

Exchange Brackets for alternative mounting method

982052.00X	Bracket for Maxi symm. for pole mounting
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- LED floodlight for area lighting
- Optics made of reflection boosted MIRO-SILVER®
- Asymmetrical flood light distribution – No backwards light trespass
- Housing made of corrosion-resistant aluminium die-cast for outdoor application, stainless steel bracket, powder coated
- Tilt angle can be precisely adjusted and locked in 6° steps
- Thermally decoupled driver compartment
- COB-LEDs with socket, selection of two light colours 830 or 840
- With Gore™ Protective Vents membrane valve against condensed water as a standard
- DALI dimmable as an option
- Made in Germany



LIGHTSTREAM® LED MAXI

Floodlights



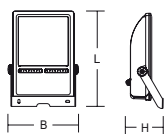
Type of protection: **IP 65**

Protection class: I

Housing made of non-corrosive die-cast aluminium, for exterior application. Bracket: aluminium, powder-coated. Tilt angle can be adjusted and locked in 6 deg. steps with precise angular scale. Thermally decoupled driver compartment. Toughened glass cover. COB LED with socket for easy replacement. Asymmetrical reflector made of **MIRO-SILVER®**. Standard Gore™ Protective Vents diaphragm valve for reduction of condensation. Piano key terminal 3x2.5mm², for max. cable Ø 13 mm. Loop-through available as accessory.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic

LED



Ref. No.

Dimensions

Lamp System power

Light colour

Luminaire flux

Floodlights, direct mains connection

Asymmetrical light distribution

721734.11X	L 174, B 374, H 509	LED 112 W	830	9050 lm
721734.11X.1	L 174, B 374, H 509	LED 112 W	840	9600 lm
721725.11X	L 174, B 374, H 509	LED 225 W	830	17700 lm
721725.11X.1	L 174, B 374, H 509	LED 225 W	840	19000 lm

Accessories

Pole top fixings, single

982002.00X	Pole top fixing, single, for spigot 76 mm
982045.00X	Pole top fixing, single, for spigot 60 mm
982046.00X	Pole top fixing, single, for spigot 89 mm

Pole top fixings opposite mounting

982003.00X	Pole top fixing, double, for spigot 76 mm
982004.00X	Pole top fixing, double, for spigot 89 mm
982005.00X	Pole top fixing, double, for spigot 108 mm

Exchange Brackets for alternative mounting method

982053.00X	Bracket for Maxi asymm. for wall / base mounting
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Comparison

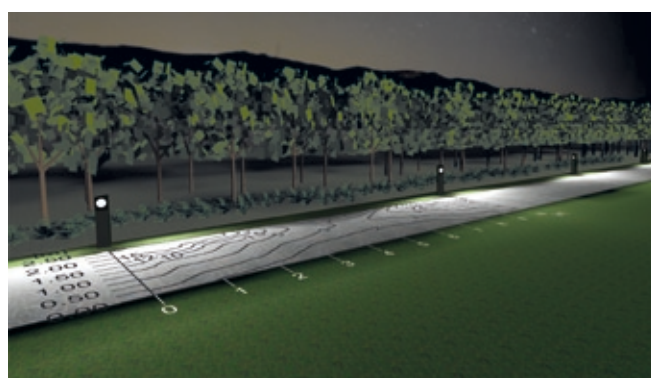
LED : conventional lamps

LED 112 W ≈ 1 x HIT 150 W (170 W CB)
≈ 1 x QT-DE 400 W (400 W)

LED 225 W ≈ 1 x HIT 250 W (280 W CB)
≈ 1 x QT-DE 750 W (750 W)



- LED bollard for pathway lighting
- Housing made of corrosion-resistant aluminium die-cast and extrusions for outdoor application, powder coated.
- Integral Refractor-Optics producing a single-sided asymmetrical light distribution.
- No "house-side" light emission
- Multi-chip LEDs, selection of light colours 830 and 840.
- With Gore™ protective Vents membrane valve against condensed water as a standard.
- Choice of integral two Schuko sockets (IP 54)
- Walkway illumination that conforms to standard EN 13201 at a bollard spacing of about 10 metres. ($E_m = 5 \text{ lx}$)



SLOPIA® 0'TOP

Pathway luminaires

Type of protection: **IP 54** with socket, **IP 65** without socket
Protection class: I = with socket, II = without socket

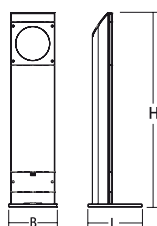
LED

Straight upright column made of aluminium profiles with modular inserts. Covers and ground-plate made of corrosion-resistant aluminium pressure die-cast for outdoor use, powder coated. Module with integral LED Refractor-Optics and clear toughened glass diffuser. Electronic ballast included. Standard Gore™ Protective Vents diaphragm valve for reduction of condensation. Mains connection box inside housing profile for max. $1 \times 5 \times 2.5 \text{ mm}^2$ and cable diameter max. $\varnothing 13 \text{ mm}$. Option of IP 54 rated double Schuko socket.

LED included.

Available colours (X):

31 = anthracite metallic, 4 = silver metallic



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Pathway luminaires					
611863.00X	L 270, B 240, H 970	LED	5 W	830	240 lm
611863.00X.1	L 270, B 240, H 970	LED	5 W	840	270 lm
With double safety socket					
611864.00X	L 270, B 240, H 970	LED	5 W	830	240 lm
611864.00X.1	L 270, B 240, H 970	LED	5 W	840	270 lm



reddot design award
winner 2011







- 1040 mm in diameter
- Type of protection IP 44
- Diffuser made of quality polycarbonate or PMMA
- Highly efficient LED technology
- Full light output at switch on
- Rated life: approx. 50000 hours
- Colour temperature 3000 K or 4000 K
- Colour rendering Ra > 80
- Made in Germany

FLAT POLYMER® SENSATION KREIS LED

Ceiling and wall luminaires



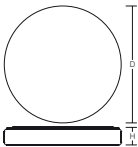
Type of protection: **IP 44**
Protection class: I



Base: metal, powder-coated. Diffuser: plastic (PMMA or polycarbonate with ball impact protection in accordance with DIN 18032-3), opal. Diffuser fastening: sash lock.

LED included.

Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
Diffuser: plastic (PMMA) D 1040 mm					
311699.002	D 1040, H 150	LED	104 W	830	10200 lm
311699.002.1	D 1040, H 150	LED	104 W	840	10600 lm
Diffuser: plastic (polycarbonate) D 1040 mm					
311699.002.2	D 1040, H 150	LED	104 W	830	10700 lm
311699.002.3	D 1040, H 150	LED	104 W	840	11200 lm

Comparison LED : conventional lamps

LED 104 W ≈ 4 x 55 TC-L (232 W EB)

- 1040 mm in diameter
- Type of protection IP 44
- Diffuser made of quality polycarbonate or PMMA
- Highly efficient LED technology
- Full light output at switch on
- Rated life: approx. 50000 hours
- Colour temperature 3000 K or 4000 K
- Colour rendering Ra > 80
- Made in Germany



FLAT POLYMERO® SENSATION LED XXL

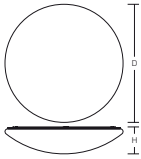
Ceiling and wall luminaires

Type of protection: **IP 44**
 Protection class: I

Base: metal, powder-coated. Diffuser: plastic (PMMA or polycarbonate with ball impact protection in accordance with DIN 18032-3), opal. Diffuser fastening: sash lock.

LED included.

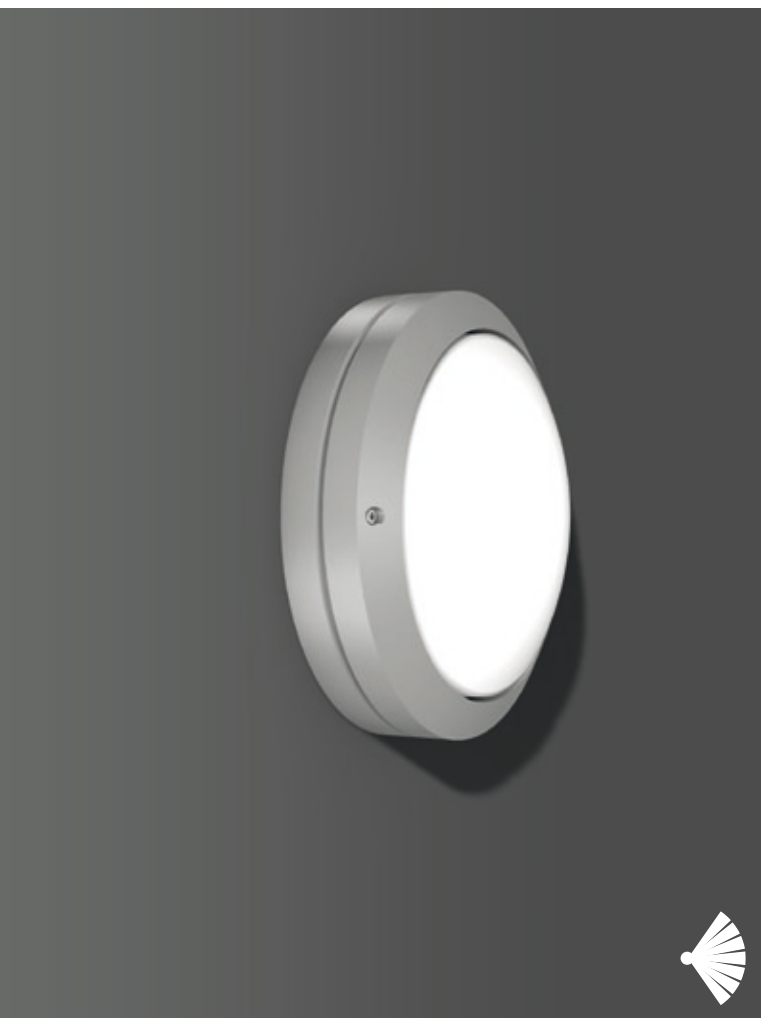
Available colour: 2 = white



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
Diffuser: plastic (PMMA) D 1040 mm					
311698.002	D 1040, H 230	LED	104 W	830	10000 lm
311698.002.1	D 1040, H 230	LED	104 W	840	10400 lm
Diffuser: plastic (polycarbonate) D 1040 mm					
311698.002.2	D 1040, H 230	LED	104 W	830	10500 lm
311698.002.3	D 1040, H 230	LED	104 W	840	10900 lm







ROUNDED® EXTRA FLAT

Ceiling and wall luminaires

Type of protection: **IP 66**
Protection class: I

LED



Base and housing made of non-corrosive die-cast aluminium (powder-coated). Diffuser: spherical cap made of hand-blown opal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Drill hole deviations can be compensated. With second cable entry for loop through.

LED included.

Available colours (X): 2 = white,
31 = anthracite metallic, 4 = silver metallic

Rounded Extra flat - Product update details:

- LED: Smart and cost-saving 8.7 W LED-Modules for mains voltage on high LED-efficiency level applied for energy saving operation.
- Longevity by use of corrosion-resistant aluminium alloy, glass or PC diffuser and stainless steel screws.
- Light colour 840: A cool white light source is used for brilliant appearance of the opal diffuser.
- IP 66: Fixing points outside the gasketed space guarantee a steady mounting quality by consequent mistake prevention
- Drill-hole tolerance-adjustment via perpendicular fixing slots possible.
- Diffuser fixing support: Eased luminaire assembly saves mounting time.
- The flat circular shape can be applied everywhere. A free selection of 4 versions provides high degree of design-freedom.
- Selected auto-switch versions support easy controls application.



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
Glass					
581603.00X	D 268, H 91	LED	8,7 W	840	420 lm
Plastic (polycarbonate)					
581602.00X	D 268, H 91	LED	8,7 W	840	330 lm
Ceiling and wall luminaires with integrated HF movement sensor					
Plastic (polycarbonate)					
581602.00X.19	D 268, H 92	LED	8,7 W	840	330 lm

Comparison LED : conventional lamps

LED 8,7 W ≈ 1 x 60 W AGL (60 W)
≈ 1 x 18 W TC-D (26 W CB)





© Fotostudio Lippmann



ROUNDED® EXTRA FLAT

Ceiling and wall luminaires

Type of protection: **IP 66**

Protection class: I

LED



Base and housing made of non-corrosive die-cast aluminium (powder-coated). Shallow diffuser made of hand-blown opal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Drill hole deviations can be compensated. With second cable entry for loop through.

LED included.

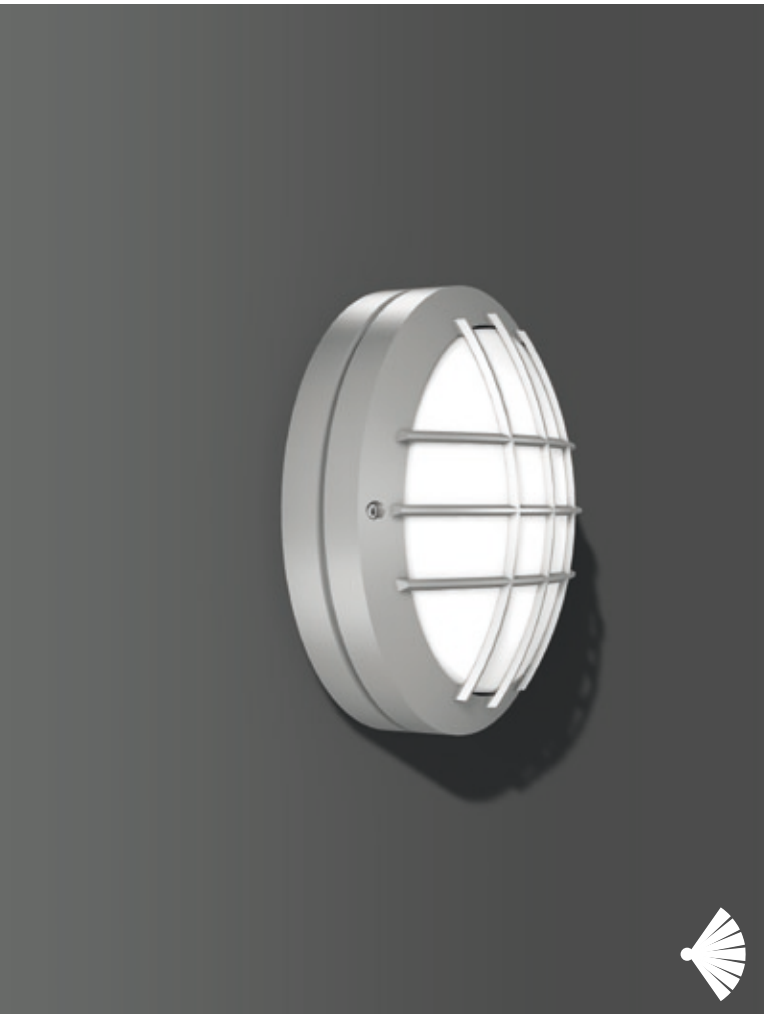
Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires					
Glass					
581609.00X	D 268, H 70	LED	8,7 W	840	480 lm
Plastic (polycarbonate)					
581608.00X	D 268, H 70	LED	8,7 W	840	390 lm
Ceiling and wall luminaires with integrated HF movement sensor					
Plastic (polycarbonate)					
581608.00X.19	D 268, H 70	LED	8,7 W	840	390 lm
Wall luminaires with integrated daylight sensor					
Glass					
581609.00X.25*	D 268, H 70	LED	8,7 W	840	480 lm
Plastic (polycarbonate)					
581608.00X.25*	D 268, H 70	LED	8,7 W	840	390 lm

* Non-adjustable daylight sensor: ON: approx. 5 Lux | OFF: approx. 40 Lux





ROUNDED® EXTRA FLAT

Ceiling and wall luminaires

Type of protection: **IP 66**
Protection class: I



Base and housing made of non-corrosive die-cast aluminium (powder-coated). Diffuser: spherical cap made of hand-blown opal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Drill hole deviations can be compensated. With second cable entry for loop through.

LED included.

Available colours (X): 2 = white,
31 = anthracite metallic, 4 = silver metallic



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Ceiling and wall luminaires with grille					
Glass					
581607.00X	D 268, H 100	LED	8,7 W	840	360 lm
Plastic (polycarbonate)					
581606.00X	D 268, H 100	LED	8,7 W	840	330 lm
Ceiling and wall luminaires with integrated HF movement sensor					
Plastic (polycarbonate)					
581606.00X.19	D 268, H 100	LED	8,7 W	840	330 lm
Decorative elements for luminaires with grille of series Rounded					
981093.006	4-piece decorative element blue				
981093.009	4-piece decorative element light grey				

Comparison
LED : conventional lamps

LED 8,7 W ≈ 1 x 60 W AGL (60 W)
 ≈ 1 x 18 W TC-D (26 W CB)



Rounded Extra flat - Product update details:

- LED: Smart and cost-saving 8.7 W LED-Modules for mains voltage on high LED-efficiency level applied for energy saving operation.
- Longevity by use of corrosion-resistant aluminium alloy, glass or PC diffuser and stainless steel screws.
- Light colour 840: A cool white light source is used for brilliant appearance of the opal diffuser.
- IP 66: Fixing points outside the gasketed space guarantee a steady mounting quality by consequent mistake prevention
- Drill-hole tolerance-adjustment via perpendicular fixing slots possible.
- Diffuser fixing support: Eased luminaire assembly saves mounting time.
- The flat circular shape can be applied everywhere. A free selection of 4 versions provides high degree of design-freedom.
- Selected auto-switch versions support easy controls application.



ROUNDED® EXTRA FLAT

Round luminaires



Type of protection: **IP 66**

Protection class: I

LED



Base and housing made of non-corrosive die-cast aluminium (powder-coated). Diffuser: spherical cap made of hand-blown opal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Drill hole deviations can be compensated. With second cable entry for loop through.

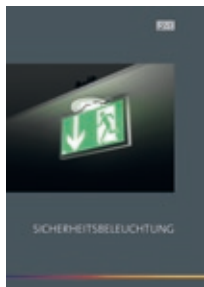
LED included.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux
Wall luminaires, with visor					
Glass					
581605.00X	D 268, H 96	LED	8,7 W	840	280 lm
Plastic (polycarbonate)					
581604.00X	D 268, H 96	LED	8,7 W	840	250 lm







For further information please see
our catalogue „Emergency Lighting“
at www.rzb-lighting.com

EMERGENCY LIGHTING

Exit signs



102

Emergency power supply units

LPS systems



104



105



106



- Housing made of top quality polycarbonate
- Energy efficient
- The very latest LED technology keeps maintenance costs to a minimum
- Rated life: approx. 50000 hours
- Standard automatic self-test
- Set of 5 easily attachable pictograms
- Easy and universal mounting
- Can be used for both ceiling and wall mounting by changing the mounting pins and the pictogram as required.
- Pictograms in accordance with ISO 7010

GSUN® RS

Self-contained exit signs



Type of protection: IP 20
Protection class: I

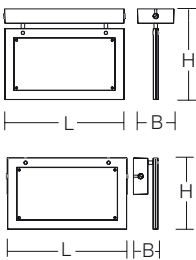
For escape route identification

Housing: plastic (polycarbonate) with universal mounting kit for ceiling and wall mounting.
4 pictogram legends and 1 white plug-in plastic sheet included.

LED included.

Available colour: 9 = grey

LED



Ref. No.	Dimensions	Lamp	System power	Rated operating time	Emergency lighting system
Ceiling and wall luminaires					
672116.009	L 275, B 84, H 211*	LED	2,2 W	3 h	
672116.009.04	L 275, B 84, H 211*	LED	2,2 W	3 h	MultiDigit
672116.009.07	L 275, B 84, H 211*	LED	2,2 W	3 h	DALI

* Dimensions wall mounting: L 275, B 59, H 163



- High quality and elegant design
- Easy and universal mounting
- The slimline escape sign luminaire with highly efficient LED technology
- Rated life: approx. 50000 hours



UNIVERSAL RS

Exit signs for central battery power supply

Type of protection: IP 20
 Protection class: I
 Voltage: AC/DC

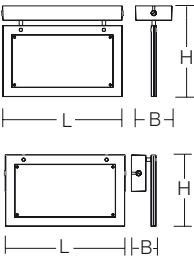
For escape route identification

Housing: plastic (polycarbonate) with universal mounting kit for ceiling and wall mounting.
 4 pictogram legends and 1 white plug-in plastic sheet included.

LED included.

Available colour: 9 = grey

LED



Ref. No.	Dimensions	Lamp	System power	Emergency lighting system
Ceiling and wall luminaires				
672117.009	L 275, B 84, H 211*	LED	2,2 W	
672117.009.88	L 275, B 84, H 211*	LED	2,2 W	MOM
672117.009.89	L 275, B 84, H 211*	LED	2,2 W	AC Control

* Dimensions wall mounting: L 275, B 59, H 163



- Power Box 20**
Compact emergency power supply unit for 1 emergency luminaire
- Application domains, e. g.: for 1 emergency luminaire located outdoors or in cold storage rooms
 - Comfortable plastic foil keyboard
 - 9 LED status displays
 - Emergency lighting blocking
 - Potential-free contact for error messages
 - Compact design
 - Large terminal box
 - Practical plug terminals
 - Maintenance-free lead battery
 - Rated operating time: 1 and 3 hours



POWER BOX 20

Emergency power supply unit

Type of protection: IP 20
Protection class: I
Input voltage: 230 V/50 Hz
Output voltage: 230 V AC/DC
Max. load: 20 W
Outgoing circuits: 1
Housing: plastic/metal
Battery: Sealed, maintenance free, rechargeable lead-acid battery
Available colour: white

Ref. No.	Dimensions	Max. load
Power Box 20		
985491	L 310, B 210, H 130	20 W



Power Box 200

**Compact emergency power supply unit
for 2 emergency luminaires**

- Application domains, e. g.: for 2 emergency luminaires located outdoors or in cold storage rooms
- For luminaires which are installed on high ceilings
- Comfortable plastic foil keyboard
- LCD display, 2 lines
- User language: German or English
- Menu-guided commissioning
- Emergency lighting blocking
- Potential-free contact for error messages
- Compact design
- Large terminal box
- Practical plug terminals
- Maintenance-free lead battery
- Rated operating time: 1 and 3 hours



POWER BOX 200

Emergency power supply unit

Type of protection: IP 20
Protection class: I
Input voltage: 230 V/50 Hz
Output voltage: 230 V AC/DC
Max. load: 50 W | 100 W | 200 W
Outgoing circuits: 2, can be switched separately.
Housing: plastic/metal
Battery: Sealed, maintenance free, rechargeable lead-acid battery
Available colour: white

Ref. No.	Dimensions	Max. load
Power Box 200		
985492	L 670, B 370, H 250	50 W
985493	L 670, B 370, H 250	100 W
985494	L 670, B 370, H 250	200 W



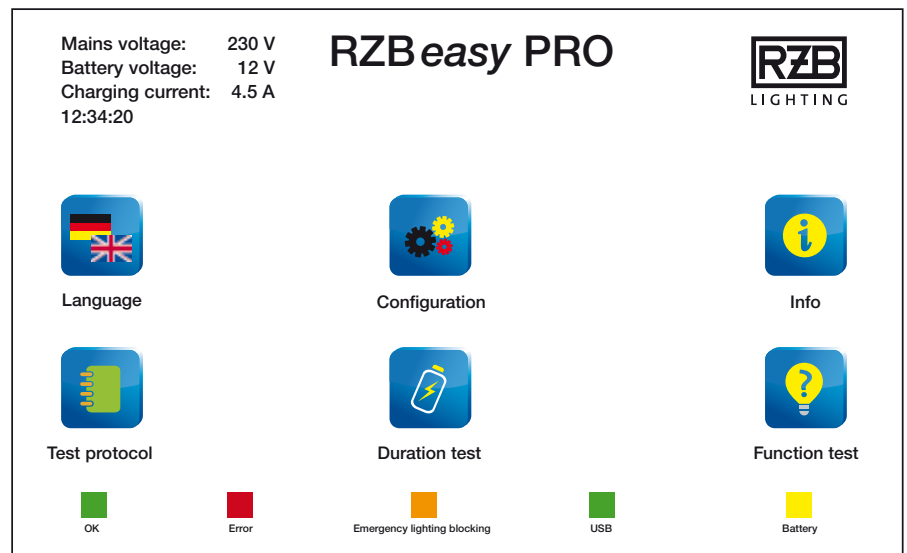


Decentralised emergency lighting supply (LPS system)

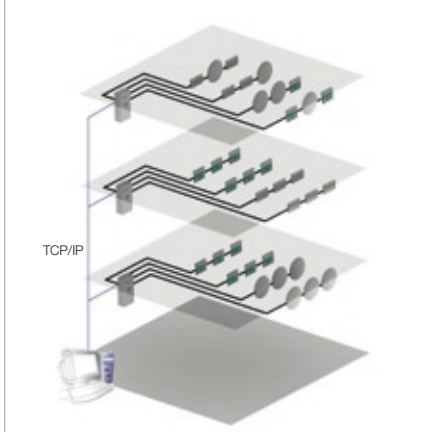
RZB easy PRO

For safety- and exit sign luminaires within individual fire sections

- 4 circuits in standard or mixed operation mode
- For up to 80 luminaires
- Consumption load 200 W for 1h or 3h
- Graphic 7" touchscreen for intuitive handling
- TCP/IP port
- USB port for saving the internal log book and the configuration data
- 4 free programmable accesses for light switches
- Inhibit mode
- Cinema mode



Installation example



Easy to mount and install

thanks to large terminal box with cable support rail, cable entries from rear and top, and plug terminals.

Overload protection

prevents the connection of too many luminaires with wattages that are too high. The warning on the display indicates the amount of overload and the relevant output circuit.

Comfortable luminaire search

saves time during commissioning, testing and/or troubleshooting. Each luminaire can be addressed individually and flashes.

Commissioning assistant

provides easy, step-by-step commissioning and quick start instructions to get the system ready within a few minutes.

Intuitive menu design

thanks to self-explanatory structure and touchscreen technology.

Language options

German and English are standard; additional languages can be easily added via USB flash drive.

Fail-safe mode

Safe in any case

RZBeasy PRO

The first LPS system that was developed in cooperation with users.
Simply revolutionary. Revolutionarily simple.

- Easy to install
- Commissioning assistant
- Starts within a few minutes
- 7-inch touchscreen display
- Intuitive menu design
- Standard and mixed operation mode
- Compact design
- Integrated web server
- Networking software for Windows PC as an option



RZBeasy PRO

Decentralised emergency lighting supply (LPS system)

Type of protection: IP 20
Protection class: I
Input voltage: 230 V/50 Hz
Output voltage: 230 V AC/DC
Switch inputs: 4
Outgoing circuits: 4
Battery voltage: 12 V
Battery capacity: 125 Ah
Max. load: 200 W
Max. load per circuit: 100 W
Housing: Sheet steel, powder-coated.
Battery: Sealed, maintenance free, rechargeable lead-acid battery.
Available colour: white

Ref. No.	Dimensions
RZBeasy PRO	
985495	L 665, B 350, H 260

Explanation of declared values

LED comparison

Comparison

LED : conventional lamps

LED 38 W ≈ 4 x 18 W T26 (92 W VVG)
 ≈ 4 x 14 W T16 (68 W EVG)

LED 45 W ≈ 4 x 18 W T26 (92 W VVG)
 ≈ 4 x 14 W T16 (68 W EVG)

System power LED ≈ Wattage of conventional lamps (system power)

The purpose of the above comparison is to help you better understand the luminous efficacy of LEDs based on the comparison between the luminous flux of LED luminaires and that of identical luminaires that are outfitted with conventional lamps. The total power consumption of the conventional lamps is indicated in parentheses.

Energy Efficiency Classes (EEC) page 110-111

Ref. Nr.	Page	EEC
211394.002	57	A+ A+
211394.002.1	57	A+ A+
211395.002	57	A+ A+
211395.002.1	57	A+ A+
211396.002	57	A A

Light source energy efficiency class in accordance with Regulation (EU) No 874/2012.

These classes are determined in accordance with the system that is currently in use for other electrical devices:

A++ (highest energy efficiency) to **E** (lowest energy efficiency)

Regulation (EU) No 874/2012 stipulates that the energy efficiency class needs to be indicated for the following applications:

EEC X: The energy efficiency class for **usable conventional light sources** (incandescent lamps, fluorescent lamps and high intensity lamps). A number of values can come into play here.

EEC Y: The energy efficiency class for **usable LED lamps**, for which a number of values can come into play.

EEC Z: The energy efficiency class for built-in light sources that are pre-installed in lighting fixtures.

Hence the following designations are used in this catalogue:

EEC X | EEC Y | EEC Z

For reasons of simplicity, these designations are reduced here to their relevant values.

Example:

- | EEC Y | EEC Z

These lighting fixtures are designed for class A and A+ LED lamps and integrate a class A+ LED circuit board.

(- | A,A+ | A+)

=>

A,A+ | A+

Technical data

(see the next page for colour classifications)

Lamp

Type of lamp (e. g. LED)

System power

Indicates the luminaire's total power requirements, i.e. the total watts [W] required to power the light source and any ballast or driver needed to operate it.

Light colour

To indicate the „light colour“ and the colour rendering quality of a light source, the lighting industry uses a three-digit light colour code, where the first digit defines the colour rendering index (CRI) while the second and third denote the correlated colour temperature (CCT) of the light emitted by the light source in Kelvin [K].

Examples:

8 27

Colour temperature 2700 K

Colour rendering index
CRI = 80-89

9 40

Colour temperature 4000 K

Colour rendering index
CRI = 90-100

Luminaire flux

Luminaire flux is defined as the total quantity of light emitted by a luminaire and is measured in lumens [lm].



Beam angle (not included in the example on the right side)

The beam angle, or half-peak angle of a luminaire is defined as that part of the beam where the light level varies between its peak intensity and half the peak level. This angle indicates whether the light distribution of a luminaire is narrow, medium or wide beam.

UGR

The UGR (Unified Glare Rating) allows for the rating of direct glare resulting from indoor lighting installations. The higher the UGR, the more intense the glare. Standardized limit values are defined for specific types of activities and spaces, and are not to be exceeded (see DIN EN 12464-1, for example).



© Moritz Hillebrand



SIDELITE®

Pendant luminaires

Type of protection: **IP 40**

Protection class: I

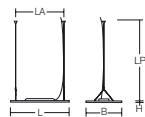
Suspension length: 300 - 3000 mm

Cover: sheet steel, powder-coated. Anodised aluminium frame. Diffuser: PMMA plastic, opal or microprismatic/opal (suitable for use in environments with computer screens in accordance with EN 12464-1). 2-point steel cable suspension, steplessly adjustable. Special lengths available on request. Driver included. Side light emission using LEDs.

LED included.

Available colour: 4 = aluminium, anodised

LED



Ref. No.	Dimensions	Lamp	System power	Light colour	Luminaire flux	UGR
Pendant luminaires						
Diffuser: plastic, opal						
311630.004	L 598, B 598, H 46	LED	48 W	830	4250 lm	21,1
311630.004.76	L 598, B 598, H 46	LED	48 W	830	4250 lm	21,1
311630.004.1	L 598, B 598, H 46	LED	48 W	840	4350 lm	21,1
311630.004.1.76	L 598, B 598, H 46	LED	48 W	840	4350 lm	21,1
Diffuser: plastic, opal, with single-sided micro prisms						
311631.004	L 598, B 598, H 46	LED	48 W	830	4050 lm	18,3
311631.004.76	L 598, B 598, H 46	LED	48 W	830	4050 lm	18,3
311631.004.1	L 598, B 598, H 46	LED	48 W	840	4150 lm	18,3
311631.004.1.76	L 598, B 598, H 46	LED	48 W	840	4150 lm	18,3
Accessories						
981948.002	L 188, B 42, H 29	Canopy for standard version (3 pole)				
981947.002	L 188, B 42, H 29	Canopy for DALI version (5 pole)				

Ref. Nr.	Page	EEC	Ref. Nr.	Page	EEC	Ref. Nr.	Page	EEC	Ref. Nr.	Page	EEC	Ref. Nr.	Page	EEC
211394.002	57	A+ A+	311667.002.1.76	28	A+ A+	311692.004	42	A A	311770.002	29	A+ A+	611864.004.1	90	A A
211394.002.1	57	A+ A+	311667.002.76	28	A+ A+	311692.004.1	42	A A	311770.002.1	29	A+ A+	641284.000	85	A+ A+
211395.002	57	A+ A+	311668.002	28	A+ A+	311692.004.1.76	42	A A	311770.002.1.76	29	A+ A+	641284.000.1	85	A+ A+
211395.002.1	57	A+ A+	311668.002.1	28	A+ A+	311692.004.76	42	A A	311770.002.76	29	A+ A+	641285.000	85	A+ A+
211396.002	57	A A	311668.002.1.76	28	A+ A+	311693.000	15	A+ A+	311771.002	29	A A	641285.000.1	85	A+ A+
211397.002	57	A A	311668.002.76	28	A+ A+	311693.000.1	15	A+ A+	311771.002.1	29	A+ A+	641286.000	85	A+ A+
251039.002	57	A+ A+	311669.004	37	A+ A+	311693.000.1.76	15	A+ A+	311771.002.1.76	29	A+ A+	641286.000.1	85	A+ A+
251039.002.1	57	A+ A+	311669.004.1	37	A+ A+	311693.000.76	15	A+ A+	311771.002.76	29	A A	641287.000	84	A+ A+
251040.002	57	A+ A+	311669.004.1.76	37	A+ A+	311694.002	52	A++ A++	311772.002	29	A A	641287.000.1	84	A+ A+
251040.002.1	57	A+ A+	311669.004.76	37	A+ A+	311694.002.1	52	A++ A++	311772.002.1	29	A A	641288.000	84	A+ A+
311570.004	37	A A	311670.004	41	A+ A+	311694.002.1.76	52	A++ A++	311772.002.1.76	29	A A	641288.000.1	84	A+ A+
311570.004.1	37	A A	311670.004.1	41	A+ A+	311694.002.2	52	A++ A++	311772.002.76	29	A A	641289.000	84	A+ A+
311570.004.1.76	37	A A	311670.004.1.76	41	A+ A+	311694.002.2.76	52	A++ A++	311773.002	29	A A	641289.000.1	84	A+ A+
311570.004.76	37	A A	311670.004.76	41	A+ A+	311694.002.3	52	A++ A++	311773.002.1	29	A A	672116.009	102	-
311577.000	11	A A+	311671.004	41	A A	311694.002.3.76	52	A++ A++	311773.002.1.76	29	A A	672116.009.04	102	-
311577.000.1	11	A A+	311671.004.1	41	A A	311694.002.76	52	A++ A++	311773.002.76	29	A A	672116.009.07	102	-
311577.000.1.76	11	A A+	311671.004.1.76	41	A A	311695.002	54	A++ A++	331153.000	49	A+ A+	672117.009	103	-
311577.000.76	11	A A+	311671.004.76	41	A A	311695.002.1	54	A++ A++	331154.000	49	A+ A+	672117.009.88	103	-
311578.004	22	A A	311672.004	45	A+ A+	311695.002.1.76	54	A++ A++	451156.002	61	A+ A+	672117.009.89	103	-
311578.004.1	22	A A	311672.004.1	45	A+ A+	311695.002.2	54	A++ A++	451156.002.1	61	A+ A+	721718.0031	87	A+ A+
311578.004.1.76	22	A A	311673.004	45	A+ A+	311695.002.2.76	54	A++ A++	451157.002	61	A+ A+	721718.0031.1	87	A+ A+
311578.004.76	22	A A	311673.004.1	45	A+ A+	311695.002.3	54	A++ A++	451157.002.1	61	A+ A+	721718.004	87	A+ A+
311579.004	24	A A	311673.004.1.76	45	A+ A+	311695.002.3.76	54	A++ A++	451158.002	61	A+ A+	721718.004.1	87	A+ A+
311579.004.1	24	A A	311673.004.76	45	A+ A+	311695.002.76	54	A++ A++	451158.002.1	61	A+ A+	721718.1131	86	A+ A+
311579.004.1.76	24	A A	311674.004	39	A A	311696.002	53	A++ A++	451159.002	61	A+ A+	721718.1131.1	86	A+ A+
311579.004.76	24	A A	311674.004.1	39	A A	311696.002.1	53	A++ A++	451159.002.1	61	A+ A+	721718.114	86	A+ A+
311628.004	22	A A	311674.004.1.76	39	A A	311696.002.1.76	53	A++ A++	451160.002	61	A+ A+	721718.114.1	86	A+ A+
311628.004.1	22	A A	311674.004.76	39	A A	311696.002.2	53	A++ A++	451160.002.1	61	A+ A+	721725.1131	89	A+ A+
311628.004.1.76	22	A A	311675.004	39	A A	311696.002.2.76	53	A++ A++	501030.009	60	A A	721725.1131.1	89	A+ A+
311628.004.76	22	A A	311675.004.1	39	A A	311696.002.3	53	A++ A++	501031.004	58	A A	721725.114	89	A+ A+
311629.004	22	A A	311675.004.1.76	39	A A	311696.002.3.76	53	A++ A++	501032.004	58	A A	721725.114.1	89	A+ A+
311629.004.1	22	A A	311675.004.76	39	A A	311696.002.76	53	A++ A++	501033.004	59	A A	721733.0031	87	A+ A+
311629.004.1.76	22	A A	311676.004	39	A A	311697.002	55	A++ A++	501034.004	59	A A	721733.0031.1	87	A+ A+
311629.004.76	22	A A	311676.004.1	39	A A	311697.002.1	55	A++ A++	581602.002	96	A+ A+	721733.004	87	A+ A+
311630.004	23	A A	311676.004.1.76	39	A A	311697.002.1.76	55	A++ A++	581602.0031	96	A+ A+	721733.004.1	87	A+ A+
311630.004.1	23	A A	311676.004.76	39	A A	311697.002.2	55	A++ A++	581602.0031.19	96	A+ A+	721733.1131	86	A+ A+
311630.004.1.76	23	A A	311677.000	15	A+ A+	311697.002.2.76	55	A++ A++	581602.004	96	A+ A+	721733.1131.1	86	A+ A+
311630.004.76	23	A A	311677.000.1	15	A+ A+	311697.002.3	55	A++ A++	581602.004.19	96	A+ A+	721733.114	86	A+ A+
311631.004	23	A A	311677.000.1.76	15	A+ A+	311697.002.3.76	55	A++ A++	581603.002	96	A+ A+	721733.114.1	86	A+ A+
311631.004.1	23	A A	311677.000.76	15	A+ A+	311697.002.76	55	A++ A++	581603.0031	96	A+ A+	721734.1131	89	A+ A+
311631.004.1.76	23	A A	311678.000	15	A+ A+	311698.002	93	A++ A++	581603.004	96	A+ A+	721734.1131.1	89	A+ A+
311631.004.76	23	A A	311678.000.1	15	A+ A+	311698.002.1	93	A++ A++	581604.002	99	A+ A+	721734.114	89	A+ A+
311632.004	22	A A	311678.000.1.76	15	A A+	311698.002.2	93	A++ A++	581604.0031	99	A+ A+	721734.114.1	89	A+ A+
311632.004.1	22	A A	311678.000.76	15	A+ A+	311698.002.3	93	A++ A++	581604.004	99	A+ A+	721735.002	79	A+ A+
311632.004.1.76	22	A A	311679.000	15	A+ A+	311699.002	92	A++ A++	581605.002	99	A+ A+	721735.002.1	79	A+ A+
311632.004.76	22	A A	311679.000.1	15	A+ A+	311699.002.1	92	A++ A++	581605.0031	99	A+ A+	721735.003	79	A+ A+
311635.004	25	A A	311679.000.1.76	15	A A+	311699.002.2	92	A++ A++	581605.004	99	A+ A+	721735.003.1	79	A+ A+
311635.004.1	25	A A	311679.000.76	15	A+ A+	311699.002.3	92	A++ A++	581606.002	98	A+ A+	721735.004	79	A+ A+
311635.004.1.76	25	A A	311681.000	14	A A+	311700.000	46	A A	581606.0031	98	A+ A+	721735.004.1	79	A+ A+
311635.004.76	25	A A	311681.000.1	14	A A+	311700.000.1	46	A A	581606.0031.19	98	A+ A+	741728.002	76	A+ A+
311636.004	25	A A	311681.000.1.76	14	A A+	311701.002	46	A A	581606.004	98	A+ A+	741728.002.1	76	A+ A+
311636.004.1	25	A A	311681.000.76	14	A A+	311701.002.1	46	A A	581606.004.19	98	A+ A+	741728.002.1.76	76	A+ A+
311636.004.1.76	25	A A	311682.004	40	A A	311702.002	46	A A	581607.002	98	A+ A+	741728.002.2	76	A+ A+
311636.004.76	25	A A	311682.004.1	40	A A	311702.002.1	46	A A	581607.0031	98	A+ A+	741728.002.2.76	76	A+ A+
311637.004	24	A A	311682.004.1.76	40	A A	311703.003	46	A A	581607.004	98	A+ A+	741728.002.76	76	A+ A+
311637.004.1	24	A A	311682.004.76	40	A A	311703.003.1	46	A A	581608.002	97	A+ A+	741728.003	76	A+ A+
311637.004.1.76	24	A A	311683.004	42	A A	311704.000	47	A A	581608.002.25	97	A+ A+	741728.003.1	76	A+ A+
311637.004.76	24	A A	311683.004.1	42	A A	311704.000.1	47	A A	581608.0031	97	A+ A+	741728.003.1.76	76	A+ A+
311662.000	11	A A	311683.004.1.76	42	A A	311705.002	47	A A	581608.0031.19	97	A+ A+	741728.003.2	76	A+ A+
311662.000.1	11	A A	311683.004.76	42	A A	311705.002.1	47	A A	581608.0031.25	97	A+ A+	741728.003.2.76	76	A+ A+
311662.000.1.76	11	A A	311684.004	42	A A	311706.002	47	A A	581608.004	97	A+ A+	741728.003.76	76	A+ A+
311662.000.76	11	A A	311684.004.1	42	A A	311706.002.1	47	A A	581608.004.19	97	A+ A+	741728.004	76	A+ A+
311663.002	26	A A	311684.004.1.76	42	A A	311707.003	47	A A	581608.004.25	97	A+ A+	741728.004.1	76	A+ A+
311663.002.1	26	A+ A+	311684.004.76	42	A A	311707.003.1	47	A A	581609.002	97	A+ A+	741728.004.1.76	76	A+ A+
311663.002.1.76	26	A+ A+	311685.004	42	A A	311721.002	46	A A	581609.002.25	97	A+ A+	741728.004.2	76	A+ A+
311663.002.76	26	A+ A+	311685.004.1	42	A A	311721.002.1	46	A A	581609.0031	97	A+ A+	741728.004.2.76	76	A+ A+
311665.002	27	A+ A+	311685.004.1.76	42	A A	311722.002	46	A A	581609.0031.25	97	A+ A+	741728.004.76	76	A+ A+
311665.002.1	27	A+ A+	311685.004.76	42	A A	311722.002.1	46	A A	581609.004	97	A+ A+	741729.002	76	A+ A+
311665.002.1.76	27	A+ A+	311686.004	43	A A	311723.003	46	A A	581609.004.25	97	A+ A+	741729.002.1	76	A+ A+
311665.002.76	27	A+ A+	311686.004.1	43	A A	311723.003.1	46	A A	611863.0031	90	A A	741729.002.1.76	76	A+ A+
311666.002	27	A+ A+	311686.004.1.76	43	A A	311725.002	47	A A	611863.0031.1	90	A A	741729.002.2	76	A+ A+
311666.002.1	27	A+ A+	311686.004.76	43	A A	311725.002.1	47	A A	611863.004	90	A A	741729.002.2.76	76	A+ A+
311666.002.1.76	27	A+ A+	311691.004	39	A A	311726.002	47	A A	611863.004.1	90	A A	741729.002.76	76	A+ A+
311666.002.76	27	A+ A+	311691.004.1	39	A A	311726.002.1	47	A A	611864.0031	90	A A	741729.003	76	A+ A+
311667.002	28	A+ A+	311691.004.1.76	39	A A	311727.003	47	A A	611864.0031.1	90				

Ref. Nr.	Page EEC		Ref. Nr.	Page EEC		Ref. Nr.	Page EEC		Ref. Nr.	Page EEC		Ref. Nr.	Page EEC	
741729.003.2	76	A+ A+	741744.002.1	77	A+ A+	741751.004.76	78	B B	901393.002	68	A+ A+	911172.003.2	75	A+ A+
741729.003.2.76	76	A+ A+	741744.002.1.76	77	A+ A+	741752.002	78	A A	901393.002.1	68	A+ A+	911172.004	75	A+ A+
741729.003.76	76	A+ A+	741744.002.76	77	A+ A+	741752.002.76	78	A A	901394.002	68	A+ A+	911172.004.1	75	A+ A+
741729.004	76	A+ A+	741744.003	77	A+ A+	741752.003	78	A A	901394.002.1	68	A+ A+	911172.004.2	75	A+ A+
741729.004.1	76	A+ A+	741744.003.1	77	A+ A+	741752.003.76	78	A A	901403.002.76	33	A+ A+	911173.002	75	A+ A+
741729.004.1.76	76	A+ A+	741744.003.1.76	77	A+ A+	741752.004	78	A A	901405.002.76	33	A+ A+	911173.002.1	75	A+ A+
741729.004.2	76	A+ A+	741744.003.76	77	A+ A+	741752.004.76	78	A A	901410.002.76	32	A+ A+	911173.002.2	75	A+ A+
741729.004.2.76	76	A+ A+	741744.0034	77	A+ A+	741753.002.76	78	A+ A+	901412.002.76	32	A+ A+	911173.003	75	A+ A+
741729.004.76	76	A+ A+	741744.0034.1	77	A+ A+	741753.003.76	78	A+ A+	901422.002	72	A+ A+	911173.003.1	75	A+ A+
741730.002	76	A A	741744.0034.1.76	77	A+ A+	741754.004.76	78	A+ A+	901423.002	72	A A	911173.003.2	75	A+ A+
741730.002.76	76	A A	741744.0034.76	77	A+ A+	741754.002	78	A A	901423.002.76	72	A A	911173.004	75	A+ A+
741730.003	76	A A	741744.004	77	A+ A+	741754.002.76	78	A A	901425.002	73	A+ A+	911173.004.1	75	A+ A+
741730.003.76	76	A A	741744.004.1	77	A+ A+	741754.003	78	A A	901426.002	73	A A	911173.004.2	75	A+ A+
741730.004	76	A A	741744.004.1.76	77	A+ A+	741754.003.76	78	A A	901426.002.76	73	A A	911174.002	75	B B
741730.004.76	76	A A	741744.004.76	77	A+ A+	741754.004	78	A A	901429.002	72	A A	911174.003	75	B B
741731.002	76	B B	741745.002	77	A+ A+	741754.004.76	78	A A	901430.002	73	A A	911174.004	75	B B
741731.002.76	76	B B	741745.002.1	77	A+ A+	901345.002	67	A+ A+	901431.002	70	A A	911175.002	75	A A
741731.003	76	B B	741745.002.1.76	77	A+ A+	901345.002.1	67	A+ A+	901431.002.1	70	A A	911175.003	75	A A
741731.003.76	76	B B	741745.002.76	77	A+ A+	901346.002	67	A+ A+	901433.002	70	A A	911175.004	75	A A
741731.004	76	B B	741745.003	77	A+ A+	901346.002.1	67	A+ A+	901433.002.1	70	A A	911176.002	75	A A
741731.004.76	76	B B	741745.003.1	77	A+ A+	901347.002	67	A+ A+	901434.002	70	A A	911176.003	75	A A
741732.002	76	A A	741745.003.1.76	77	A+ A+	901347.002.1	67	A+ A+	901434.002.1	70	A A	911176.004	75	A A
741732.002.76	76	A A	741745.003.76	77	A+ A+	901360.002.1.76	35	A+ A+	901435.002	71	A A	911177.002	75	A+ A+
741732.003	76	A A	741745.0034	77	A+ A+	901360.002.76	35	A+ A+	901435.002.1	71	A A	911177.003	75	A+ A+
741732.003.76	76	A A	741745.0034.1	77	A+ A+	901361.002.1.76	35	A+ A+	901437.002	71	A A	911177.004	75	A+ A+
741732.004	76	A A	741745.0034.1.76	77	A+ A+	901361.002.76	35	A+ A+	901437.002.1	71	A A	921438.003	80	A+ A+
741732.004.76	76	A A	741745.0034.76	77	A+ A+	901362.002.76	35	A+ A+	901438.002	71	A A	921438.003.76	80	A+ A+
741738.002	77	A+ A+	741745.004	77	A+ A+	901363.002.1.76	35	A+ A+	901438.002.1	71	A A	921439.003	81	A+ A+
741738.002.1	77	A+ A+	741745.004.1	77	A+ A+	901363.002.76	35	A+ A+	901439.002	64	A+ A+	921439.003.76	81	A+ A+
741738.002.1.76	77	A+ A+	741745.004.1.76	77	A+ A+	901364.002.1.76	35	A+ A+	901439.002.1	64	A+ A+	921440.003	81	A+ A+
741738.002.76	77	A+ A+	741745.004.76	77	A+ A+	901364.002.76	35	A+ A+	901439.004	64	A+ A+	921440.003.76	81	A+ A+
741738.003	77	A+ A+	741746.002	77	A+ A+	901365.002.76	35	A+ A+	901439.004.1	64	A+ A+	921441.003	81	A+ A+
741738.003.1	77	A+ A+	741746.002.1	77	A+ A+	901366.002.76	33	A+ A+	901440.002	64	A+ A+	921441.003.76	81	A+ A+
741738.003.1.76	77	A+ A+	741746.002.1.76	77	A+ A+	901367.002.76	33	A+ A+	901440.002.1	64	A+ A+	921442.003	81	A+ A+
741738.003.76	77	A+ A+	741746.002.76	77	A+ A+	901368.002.76	32	A+ A+	901440.004	64	A+ A+	921442.003.76	81	A+ A+
741738.0034	77	A+ A+	741746.003	77	A+ A+	901369.002.76	32	A+ A+	901440.004.1	64	A+ A+	921443.003	81	A+ A+
741738.0034.1	77	A+ A+	741746.003.1	77	A+ A+	901372.002.76	35	A+ A+	901441.002	64	A+ A+	921443.003.76	81	A+ A+
741738.0034.1.76	77	A+ A+	741746.003.1.76	77	A+ A+	901373.002.76	35	A+ A+	901441.002.1	64	A+ A+	921444.003	81	A+ A+
741738.0034.76	77	A+ A+	741746.003.76	77	A+ A+	901374.002	67	A+ A+	901441.004	64	A+ A+	921444.003.76	81	A+ A+
741738.004	77	A+ A+	741746.0034	77	A+ A+	901374.002.1	67	A+ A+	901441.004.1	64	A+ A+	921445.003	81	A+ A+
741738.004.1	77	A+ A+	741746.0034.1	77	A+ A+	901375.002	67	A+ A+	901442.002	64	A+ A+	921445.003.76	81	A+ A+
741738.004.1.76	77	A+ A+	741746.0034.1.76	77	A+ A+	901375.002.1	67	A+ A+	901442.002.1	64	A+ A+	921446.003	81	A+ A+
741738.004.76	77	A+ A+	741746.0034.76	77	A+ A+	901376.002	67	A+ A+	901442.004	64	A+ A+	921446.003.76	81	A+ A+
741739.002	77	A+ A+	741746.004	77	A+ A+	901376.002.1	67	A+ A+	901442.004.1	64	A+ A+	921447.003	81	A+ A+
741739.002.1	77	A+ A+	741746.004.1	77	A+ A+	901377.002	69	A+ A+	901443.002	65	A+ A+	921447.003.76	81	A+ A+
741739.002.1.76	77	A+ A+	741746.004.1.76	77	A+ A+	901377.002.1	69	A+ A+	901443.002.1	65	A+ A+	921448.003	80	A+ A+
741739.002.76	77	A+ A+	741746.004.76	77	A+ A+	901378.002	69	A+ A+	901443.004	65	A+ A+	921448.003.76	80	A+ A+
741739.003	77	A+ A+	741747.002	76	A+ A+	901378.002.1	69	A+ A+	901443.004.1	65	A+ A+	921449.003	80	A+ A+
741739.003.1	77	A+ A+	741747.002.76	76	A+ A+	901379.002	69	A+ A+	901444.002	65	A+ A+	921449.003.76	80	A+ A+
741739.003.1.76	77	A+ A+	741747.003	76	A+ A+	901379.002.1	69	A+ A+	901444.002.1	65	A+ A+	921450.003	80	A+ A+
741739.003.76	77	A+ A+	741747.003.76	76	A+ A+	901380.002	69	A+ A+	901444.004	65	A+ A+	921450.003.76	80	A+ A+
741739.0034	77	A+ A+	741747.004	76	A+ A+	901380.002.1	69	A+ A+	901444.004.1	65	A+ A+	981913.003	31	-
741739.0034.1	77	A+ A+	741747.004.76	76	A+ A+	901381.002	69	A+ A+	901445.002	65	A+ A+	982006.002	75	-
741739.0034.1.76	77	A+ A+	741750.002	78	A+ A+	901381.002.1	69	A+ A+	901445.002.1	65	A+ A+	982006.003	75	-
741739.0034.76	77	A+ A+	741750.002.1	78	A+ A+	901382.002	69	A+ A+	901445.004	65	A+ A+	982006.004	75	-
741739.004	77	A+ A+	741750.002.1.76	78	A+ A+	901382.002.1	69	A+ A+	901445.004.1	65	A+ A+	982006.012	75	-
741739.004.1	77	A+ A+	741750.002.2	78	A+ A+	901383.002	66	A+ A+	901446.002	65	A+ A+	982006.013	75	-
741739.004.1.76	77	A+ A+	741750.002.2.76	78	A+ A+	901383.002.1	66	A+ A+	901446.002.1	65	A+ A+	982006.014	75	-
741739.004.76	77	A+ A+	741750.002.76	78	A+ A+	901384.002	66	A+ A+	901446.004	65	A+ A+	982006.022	75	-
741740.002	77	A+ A+	741750.003	78	A+ A+	901384.002.1	66	A+ A+	901446.004.1	65	A+ A+	982006.023	75	-
741740.002.1	77	A+ A+	741750.003.1	78	A+ A+	901385.002	66	A+ A+	901450.002.76	33	A+ A+	982006.024	75	-
741740.002.1.76	77	A+ A+	741750.003.1.76	78	A+ A+	901385.002.1	66	A+ A+	901451.002	74	A+ A+	982007.002	75	-
741740.002.76	77	A+ A+	741750.003.2	78	A+ A+	901386.002	66	A+ A+	901451.002.1	74	A+ A+	982007.002.76	75	-
741740.003	77	A+ A+	741750.003.2.76	78	A+ A+	901386.002.1	66	A+ A+	901452.002	74	A A	982008.002	75	-
741740.003.1	77	A+ A+	741750.003.76	78	A+ A+	901387.002	66	A+ A+	901452.002.1	74	A+ A+	982008.002.76	75	-
741740.003.1.76	77	A+ A+	741750.004	78	A+ A+	901387.002.1	66	A+ A+	901453.002	74	A A	982010.003	79	-
741740.003.76	77	A+ A+	741750.004.1	78	A+ A+	901388.002	66	A+ A+	901453.002.1	74	A A	982010.013	79	-
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741740.0034.1	77	A+ A+	741750.004.2	78	A+ A+	901389.002	68	A+ A+	901454.002.1	70	A+ A+	985492	105	-
741740.0034.1.76	77	A+ A+	741750.004.2.76	78	A+ A+	901389.002.1	68	A+ A+	901455.002	71	A+ A+	985493	105	-
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741740.004.76	77	A+ A+	741751.003.76	78	B B	901392.002	68	A+ A+	911172.003	75	A+ A+			
741744.002	77	A+ A+	741751.004	78	B B	901392.002.1	68	A+ A+						

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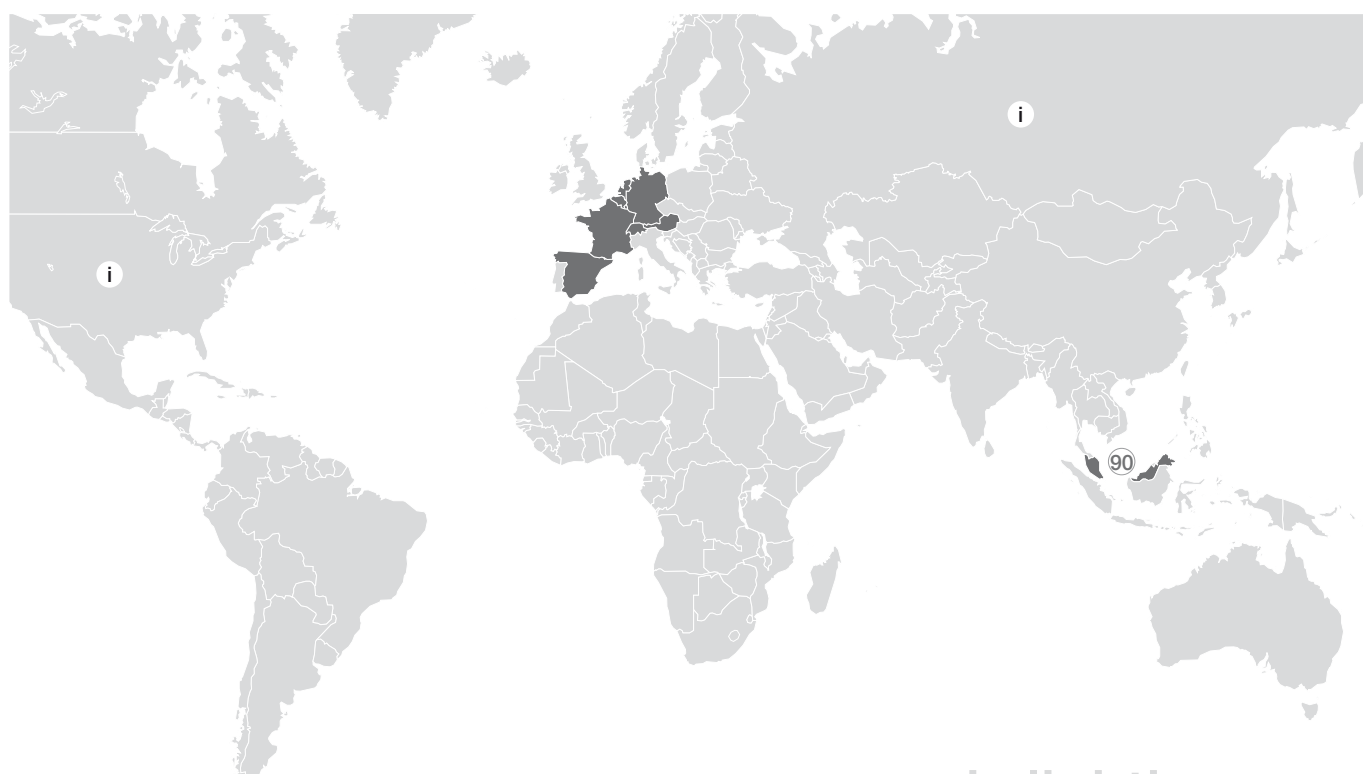
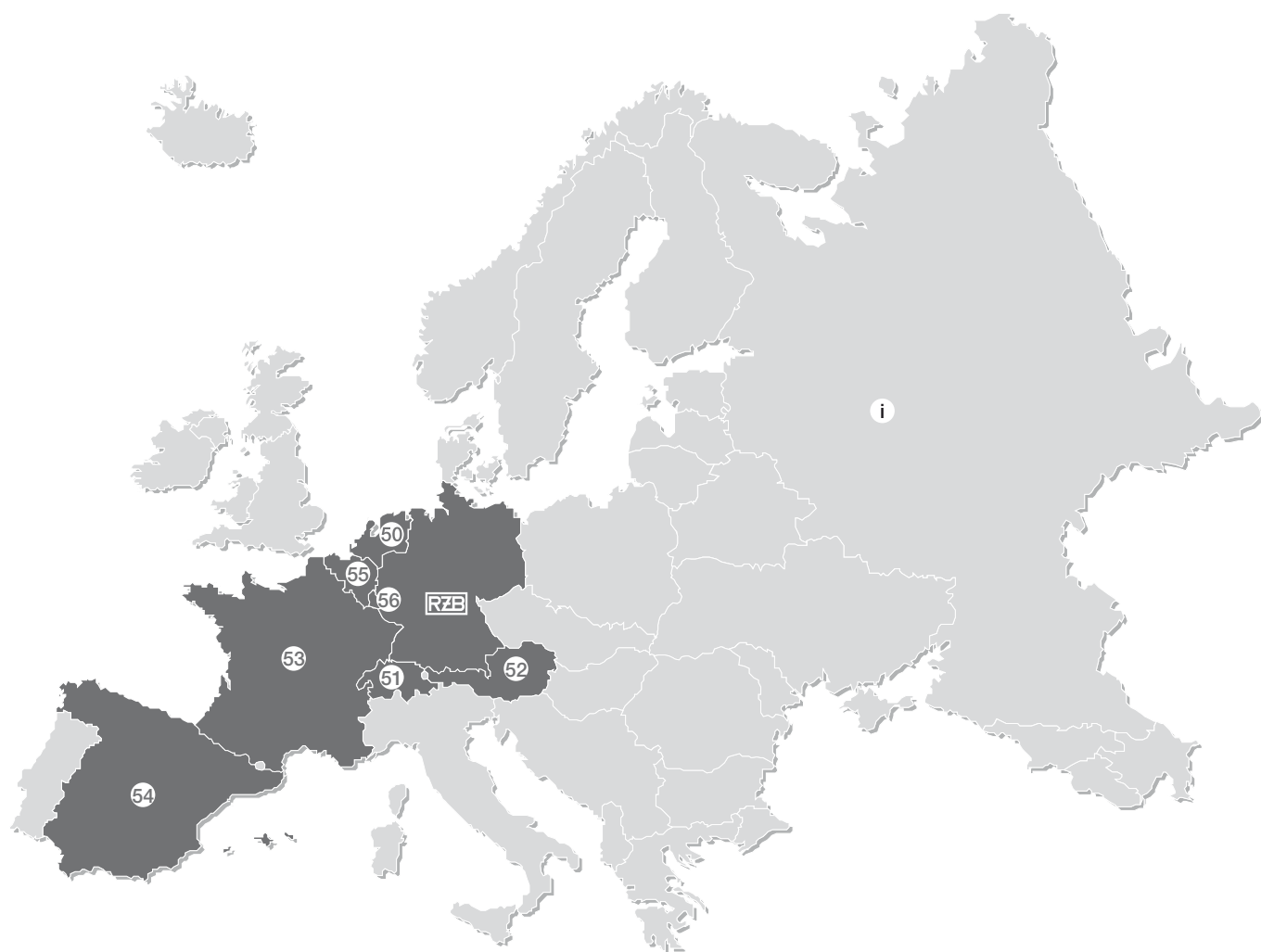
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