



 **2011**

RAIL Pendant
RAIL Surface Mounted
RAIL Wall

RAIL



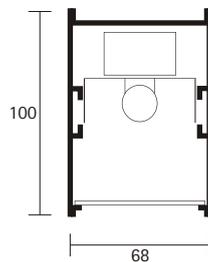
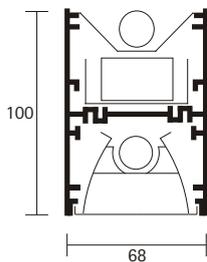
RAIL

The compact size makes this crisp-edged aluminium profile an inconspicuous architectural detail. The versatility of the lighting technology makes it universally useable, being equally suited for lighting office and functional areas and for prestigious architecture. Many special functions are possible and can be optimised for the project.





RAIL Wall Luminaire



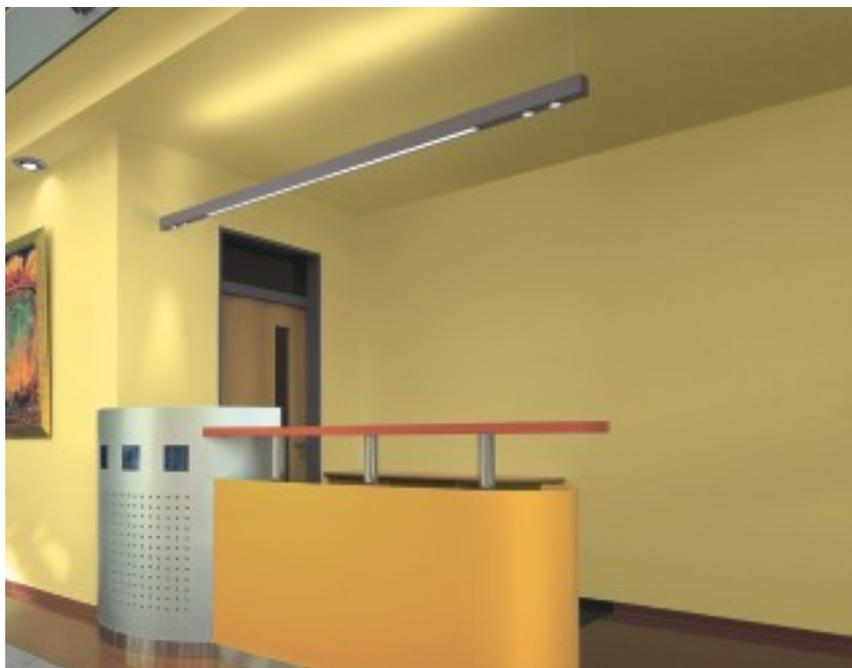
Parabolic Louvre
Parabolic louvre with highly reflective surfaces. Aluminium with reflection-intensifying coating to increase the light output ratio. CAT 2



Diffuser
Cover designed as an acrylic diffuser. Satin-matt opal surface with high transmission factor for diffuse light distribution and glare-free light.

RAIL

For luminaires with direct light distribution, the aluminium parabolic louvres are available in two different louvre heights. Both louvre types are compatible for use with computer workstations. The shallow version has very good glare control, CAT 2, combined with optimum efficiency and has a wide-beam light distribution. The high cross louvre ensures maximum glare control, CAT 1. Computer-workstation compatible, featuring a dark-light lens system. The louvres are fitted all the way along. The direct/indirect version is only available with shallow louvres (computer-workstation compatible). In addition, this profile is also available as a surface mounted strip light, whereby the lamp is covered by a recessed opal diffuser in satin-matt white.



RAIL

Various decorative versions of this system have been developed for the area of "prestigious architecture". Very different lighting moods can be created by combining with additional luminaire inserts. The indirect lighting along the entire length ensures the best visual comfort even at high illuminance levels.

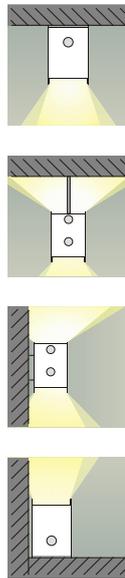
Individual

The designer's creative ideas can be realised. Large module lengths reduce the number of suspension points and contribute to the design freedom.



RAIL

This system offers new freedom. Extensive mounting options are offered for ceilings, walls and floors. Surface-mounting, recessed-mounting and pendant mounting can be flexibly realised using the various fixing materials available. When mounted as a floor channel, additional cable guides can also be built in. It is also possible to install plug sockets. This system offers an inexpensive solution particularly in areas with limited accessibility.



On-ceiling Mounting

A choice is offered between louvred or non-louvred strip lights. These may be interrupted by blank surfaces, low-voltage spotlights or fitted technical components. Connectors and angle brackets are available.



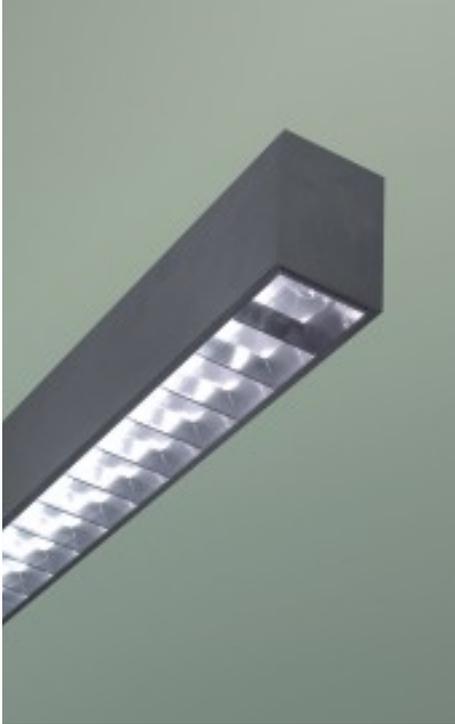
On-wall Mounting

Mounted with optical shadow-gaps, these units can be installed as individual luminaires or as a luminaire row. Light emission: direct, indirect or direct/indirect.



On-floor Mounting

When used as a floor profile, this profile can be used not only to illuminate wall areas but also as a conduit duct. It is even possible to install plug sockets and communication components.

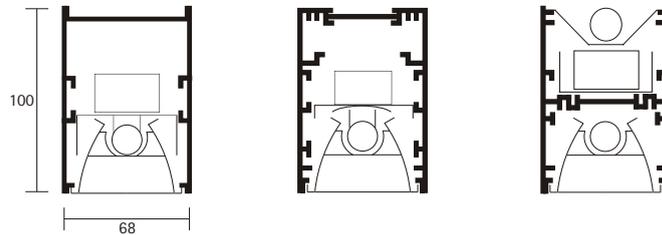


Lighting Technology

To suit the application, as the cover for the fluorescent lamps, this luminaire system offers a choice between the parabolic louvres, which give excellent glare control, and two different acrylic diffusers.

Parabolic Louvres

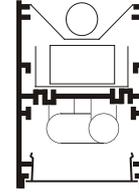
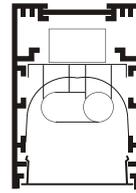
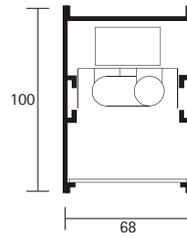
The parabolic louvres used are fitted as a continuously louvred strip with end plates. Our aluminium louvres are noted for their high efficiency and good glare control. They are suitable for use with computer workstations and for professional use in offices.



Linear light with parabolic louvre

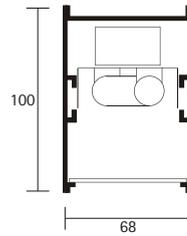
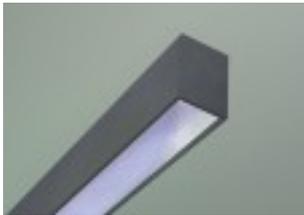


Can be fitted as a continuously louvred strip or positioned anywhere in the profile with blank covers over the empty elements.



Diffuser

Cover designed as an acrylic diffuser. Satin-matt opal surface with high transmission factor for diffuse light distribution and glare-free light.



Prismatic Diffuser

Cover in clear acrylic, with longitudinal prismatic profile. Lens used for increased brilliance and glare-free light. Optionally also available as CDP version with anti-dazzle cone.

Strip lighting with shadow-free acrylic lens



T5 fluorescent lamp,
diagonal

Lamps in overlapping
format



RAIL

Various decorative versions of this system have been developed for the area of "prestigious architecture". Very different lighting moods can be created by combining with additional luminaire inserts. The indirect lighting along the entire length ensures the best visual comfort even at high illuminance levels.

Spotlight Module

High vertical accentuation can be achieved by combining the modules of fixed or adjustable spotlight units. In addition to low-voltage and high-voltage halogen lamps, high-pressure discharge lamps (e.g. BriteSpot Es50) and LEDs are also available as the light source for the additional lighting.

RAIL (H-section)



RAIL+ (U-section)



RAIL (U-section)



Spot, fixed



Spot, tiltable



Fixed luminaire inserts



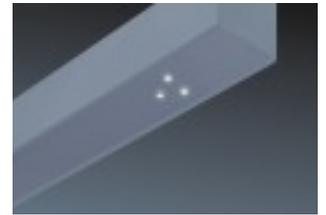
Tiltable luminaire inserts

Safety Luminaires

Independent luminaire inserts with or without single batteries are integrated as system elements in a non-maintained circuit. A wide variety of wattages for the emergency lighting units allow usage as safety or secondary lighting. The integration of rescue signals in continuous circuit or into reference luminaires is also possible with optical light accessories. The use of individual batteries facilitates easy maintenance.

LED Emergency Module

Specific components such as monitoring modules, AC/DC switching points, address modules and individual batteries can be integrated for the emergency lighting function.



Emergency lighting unit, single battery with control LED



Monitoring component



Change-over relays





Possible Suspension Systems:



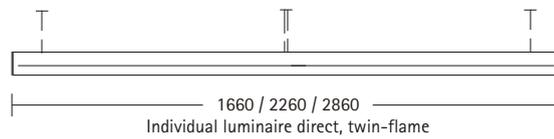
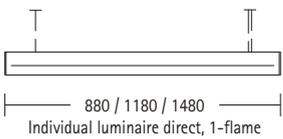
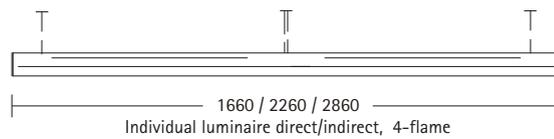
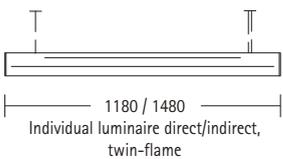
SYSTEM B
Wire-rope suspension
rapid connect system



SYSTEM E
Pendant suspension
for concrete ceilings

► Individual Luminaire

As a design aid we distinguish between individual luminaires and system luminaires. Individual luminaires are always designed for pendant mounting and include the system related accessories including the end plates, the suspension and a 2m long transparent supply cable. These luminaires are designed for individual installation.





RAIL

Sharp-edged, drawn aluminium profile with minimum dimensions. One-piece housing with just two suspension points. The electronic control gear is integrated. Mounted as pendant luminaire with wire-rope, rapid-connector system. In terms of lighting technology, the individual luminaires are available as direct and as direct/indirect versions.

Equipped for T5 fluorescent lamps, high output, with electronic control gear (static). Prewired with heat-resistant cable and ready-to-connect. Transparent output cable, 2m. Luminaire with wide-beam, opal acrylic diffuser as clip-on profile.





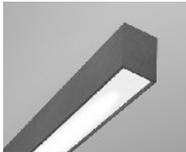










		Article No.		Lamp version		Version							
				direct	indirect	Direct	Direct/indirect	Indirect	Parabolic louvre	Acrylic diffuser	Silver C3	Anodized aluminium	
		L = 1180mm	9561.154	1xT16 28/54W	1xT16 21/39W	●			●	●	○		
		L = 1480mm	9561.180	1xT16 35-80W	1xT16 28/54W	●			●	●	○		
		L = 1660mm	9561.239	2xT16 21/39W	1xT16 35-80W	●			●	●	○		
		L = 2260mm	9561.254	2xT16 28/54W	2xT16 21/39W	●			●	●	○		
		L = 2860mm	9561.249	2xT16 35/49W	2xT16 28/54W	●			●	●	○		
		L = 880mm	9563.139	1xT16 21/39W		●			●	●	○		
		L = 1180mm	9563.154	1xT16 28/54W		●			●	●	○		
		L = 1480mm	9563.180	1xT16 35-80W		●			●	●	○		
		L = 1660mm	9563.239	2xT16 21/39W		●			●	●	○		
		L = 2260mm	9563.254	2xT16 28/54W		●			●	●	○		
		L = 2860mm	9563.249	2xT16 35/49W		●			●	●	○		



► Individual Luminaire

As a design aid we distinguish between individual luminaires and system luminaires. Individual luminaires are always designed for pendant mounting and include the system related accessories including the end plates, the suspension and a 2m long transparent supply cable. These luminaires are designed for individual installation.

Possible Suspension Systems:



SYSTEM B
Wire-rope suspension
rapid connect system



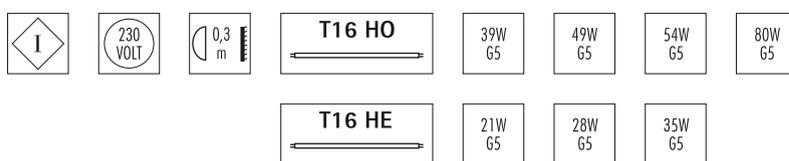
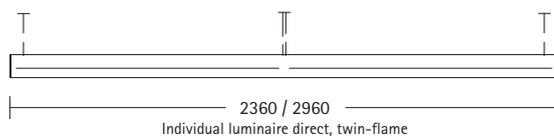
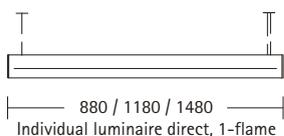
SYSTEM E
Pendant suspension
for concrete ceilings



RAIL

Sharp-edged, drawn aluminium profile with minimum dimensions. One-piece housing with just two suspension points. The electronic control gear is built in. Mounting as pendant luminaire with wire-rope rapid connector system. In terms of lighting technology, the individual luminaires are available as direct version.

Equipped for T5 fluorescent lamps, high output or high efficiency, with MultiPower technology electronic control gear. Prewired with heat-resistant cable and ready-to-connect. Transparent output cable, 2m. With aluminium parabolic louvre (compatible with computer workstations).

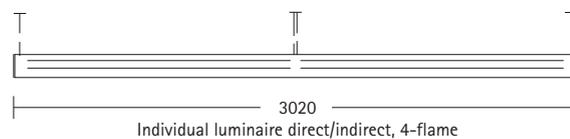
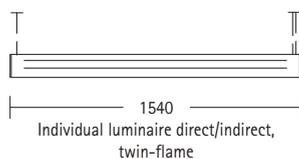
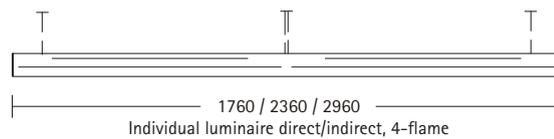
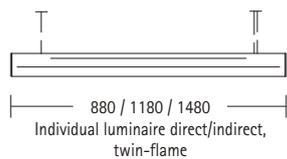


		Version						
		Direct	Direct/indirect	Parabolic louvre	Acrylic diffuser	Silver C3	Made to RAL	Anodized aluminium
		Direct	Direct/indirect	Parabolic louvre	Acrylic diffuser	Silver C3	Made to RAL	Anodized aluminium
		Direct	Direct/indirect	Parabolic louvre	Acrylic diffuser	Silver C3	Made to RAL	Anodized aluminium
Article No.	Lamp version	Direct	Direct/indirect	Parabolic louvre	Acrylic diffuser	Silver C3	Made to RAL	Anodized aluminium
	L = 880mm	9562.139	1 x T16	21/39W	●	●	●	○
	L = 1180mm	9562.154	1 x T16	28/54W	●	●	●	○
	L = 1480mm	9562.149	1 x T16	35-80W	●	●	●	○
	L = 2360mm	9562.254	2 x T16	28/54W	●	●	●	○
	L = 2960mm	9562.249	2 x T16	35-80W	●	●	●	○



► Individual Luminaire

As a design aid we distinguish between individual luminaires and system luminaires. Individual luminaires are always designed for pendant mounting and include the system related accessories including the end plates, the suspension and a 2m long transparent supply cable. These luminaires are designed for individual installation.





RAIL

Sharp-edged, drawn aluminium profile with minimum dimensions. One-piece housing with just two suspension points. The electronic control gear is integrated. Mounted as pendant luminaire with wire-rope, rapid connector system. Direct illumination version.

Equipped for T5 fluorescent lamps, high output or high efficiency, with MultiPower technology electronic control gear. Prewired with heat-resistant cable and ready-to-connect. Transparent output cable, 2m. Luminaire with aluminium parabolic louvres, suitable for use with computer workstations. CAT 2

T16 HO	39W G5	49W G5	54W G5	80W G5
T16 HE	21W G5	28W G5	35W G5	

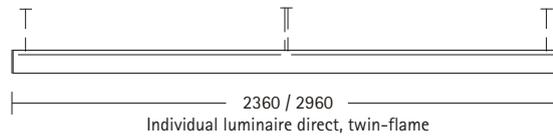
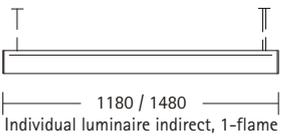
		Article No.		Lamp version		Version						
				direct	indirect	Direct	Direct/indirect	Parabolic louvre	Acrylic diffuser	Silver C3	Made to RAL	Anodized aluminium
	L = 1180mm	9560.154	1xT16 28/54W	1xT16 21/39W	●	●				●	○	○
	L = 1480mm	9560.180	1xT16 35-80W	1xT16 28/54W	●	●				●	○	○
	L = 1760mm	9560.239	2xT16 21/39W	1xT16 35-80W	●	●				●	○	○
	L = 2360mm	9560.254	2xT16 28/54W	2xT16 21/39W	●	●				●	○	○
	L = 2960mm	9560.280	2xT16 35-80W	2xT16 28/54W	●	●				●	○	○
	L = 1540mm	9560.135	1xT16 35-80W	1xT16 35-80W	●	●				●	○	○
	L = 3020mm	9560.235	2xT16 35-80W	2xT16 35-80W	●	●				●	○	○



RAIL

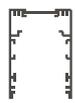
Sharp-edged, drawn aluminium profile. One-piece housing with just two suspension points. The electronic control gear is built in. Mounted as pendant luminaire with wire-rope, rapid connector system. Individual luminaires for indirect illumination.

Equipped for T5 fluorescent lamps, high output or high efficiency, with MultiPower technology electronic control gear. Prewired with heat-resistant cable and ready-to-connect. Transparent output cable, 2m. Wide-beam, indirect luminaire without cover.

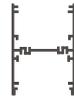


	Article No.	Lamp version						
	L = 1180mm	9564.154	1 x T16	28/54W				● ○
	L = 1480mm	9564.180	1 x T16	35-80W	●			● ○
	L = 2360mm	9564.254	2 x T16	28/54W	●			● ○
	L = 2960mm	9564.280	2 x T16	35-80W	●			● ○

Version	
Direct	●
Direct/indirect	●
Indirect	●
Parabolic louvre	●
Acrylic diffuser	●
Silver C3	●
Anodized aluminium	○



RAIL+



RAIL



End cover
Art. No. 1762.099



End cover
Art. No. 9565.099



T-connector
Art. No. 1762.095



T-connector
Art. No. 9565.095



L-connector
angle 90°
Art. No. 1762.093



L-connector
angle 90°
Art. No. 9565.093



L-connector
special angle
Art. No. 1762.090



L-connector
special angle
Art. No. 9565.090



Straight connector
Art. No. 1762.098



Spacing cover
Art. No. 1764.099



Wire-rope suspension, system B
1762.111 wire rope L= 1000mm
1762.112 wire rope L= 2000mm



Wire-rope suspension with canopy and cable
1762.121 wire rope L= 1000mm
1762.122 wire rope L= 2000mm

► **System Components**

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

Possible Suspension Systems:



SYSTEM B
Wire-rope suspension
rapid connect system



SYSTEM E
Pendant suspension
for concrete ceilings



Through-wiring

3-pole	Butted lamps
1770.321	for luminaire insert 21W
1770.328	for luminaire insert 28W
1770.335	for luminaire insert 35W

3-pole	Overlapping lamps
1772.321	for luminaire insert 21W
1772.328	for luminaire insert 28W
1772.335	for luminaire insert 35W



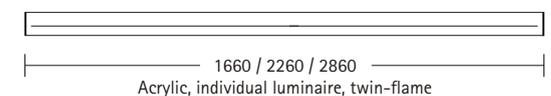
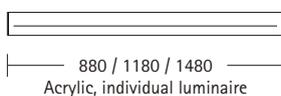
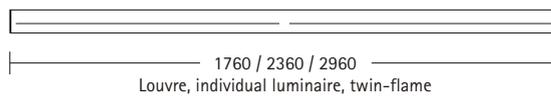
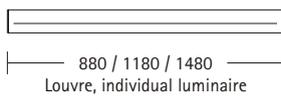
5-pole	Butted lamps
1770.521	for luminaire insert 21W
1770.528	for luminaire insert 28W
1770.535	for luminaire insert 35W

5-pole	Overlapping lamps
1772.521	for luminaire insert 21W
1772.528	for luminaire insert 28W
1772.535	for luminaire insert 35W



RAIL, Surface-Mounted

Multifunctional luminaire with strict geometric shape, stripped to the bare essentials, for surface mounting on the ceiling. Despite its filigree design, this product is equipped with state-of-the-art lighting technology and electronics, making it a powerful and highly efficient package. Many special functions are possible and can be optimised for the project.

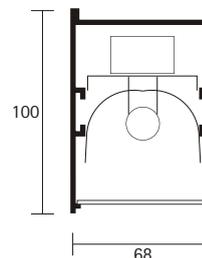


► **Individual Luminaire**

As a design aid we distinguish between individual luminaires and system luminaires. Individual luminaires are always pre-wired ready-to-connect and are supplied in one piece. The delivery includes the system related accessories including the end plates, the electrical components and the lens system. They are only suitable for individual installation.

RAIL, Surface-Mounted

Sharp-edged, drawn aluminium profile. The electronic control gear is built in. Equipped for T5 fluorescent lamps, high output or high efficiency, with MultiPower technology electronic control gear. Wired ready-to-connect with heat resistant cable. Luminaire cover optionally available with aluminium parabolic louvre (compatible with computer workstations) or with wide-beam, opal, acrylic diffuser.





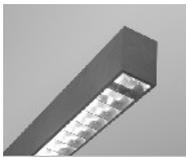


T16 HO

39W 65
49W 65
54W 65
80W 65

T16 HE

21W 65
28W 65
35W 65

		Article No.		Lamp version	Version				
					Direct	Parabolic louvre	Acrylic diffuser	Silver C3	Anodized aluminium
		L = 880mm	1830.121	1 x 1 x T16 21/39W	●	●		●	○
		L = 1180mm	1830.128	1 x 1 x T16 28/54W	●	●		●	○
		L = 1480mm	1830.135	1 x 1 x T16 35/49/80W	●	●		●	○
		L = 1760mm	1830.221	2 x 1 x T16 21/39W	●	●		●	○
		L = 2360mm	1830.228	2 x 1 x T16 28/54W	●	●		●	○
		L = 2960mm	1830.235	2 x 1 x T16 35/49/80W	●	●		●	○
		L = 880mm	1831.121	1 x 1 x T16 21/39W	●		●	●	○
		L = 1180mm	1831.128	1 x 1 x T16 28/54W	●		●	●	○
		L = 1480mm	1831.135	1 x 1 x T16 35/49/80W	●		●	●	○
		L = 1660mm	1831.221	2 x 1 x T16 21/39W	●		●	●	○
		L = 2260mm	1831.228	2 x 1 x T16 28/54W	●		●	●	○
		L = 2860mm	1831.235	2 x 1 x T16 35-80W	●		●	●	○

RAIL Wall

RAIL Wall

Due to its compact size, this crisp-edged aluminium profile is an inconspicuous architectural detail. The versatility of the lighting technology makes it universally useable, being equally suited for lighting office and functional areas and for prestigious architecture. Many special functions are possible and can be optimised for the project.



Diffuser Opal

Cover designed as an acrylic diffuser. Satin-matt opal surface with high transmission factor for diffuse light distribution and glare-free light. Luminaire supplied with the opal diffuser.

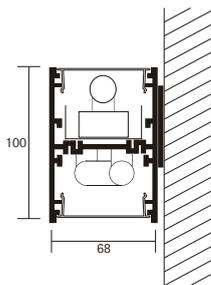


Parabolic Louvre

On request, RAIL Wall luminaire can be fitted with a computer-workstation compatible aluminium parabolic louvre. Aluminium with reflection-intensifying coating to increase the light output ratio.

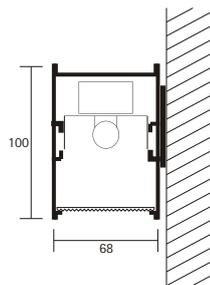


RAIL Wall luminaire built to project specifications.



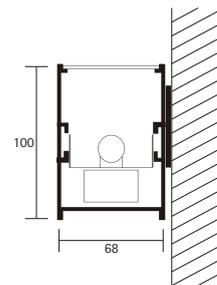
On-wall Mounting

Fitted with optical shadow gap or with spacer, these units can be installed as individual luminaires or as a luminaire row. Light emission: direct, indirect or direct/indirect.



Lighting Technology

With luminaires featuring direct light distribution, a choice is offered between a set-back white, opal diffuser and a clear, longitudinal prismatic diffuser. For special tasks, a computer-workstation compatible aluminium parabolic louvre is also available.



Uplight/Indirect

Luminaire with solely indirect light distribution for mild, glare-free ambient light, whereby the ceiling and wall act as a reflection surface. The lamp is covered by an opal diffuser or a clear, prismatic diffuser, although a lamp cover is not absolutely necessary.



RAIL Wall

T5 fluorescent lamps in HO and HE formats are used, driven by electronic control gear, AC/DC, in MultiPower version. The luminaires are fitted with separate lamps for direct and indirect light distribution. DIN-conformant luminance and lighting levels can be produced thanks to the high lumen output and the good light output ratio.



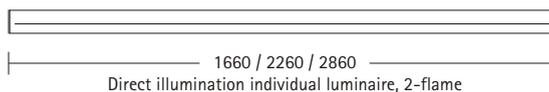
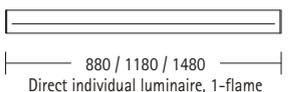
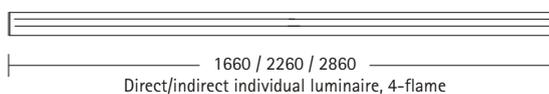
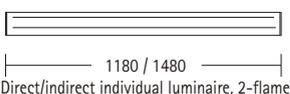
RAIL LED Emergency Lighting

Emergency lighting can be integrated using specific components such as monitoring modules, AC/DC switching points, address modules and individual batteries.

RAIL

Sharp-edged, drawn aluminium profile. One-piece housing for mounting on wall with mounting plate. Surface mounted as a wall-mounted luminaire. In terms of lighting technology, the individual luminaires are available in direct, indirect and direct/indirect versions.

Equipped for T5 fluorescent lamps, high output or high efficiency, with MultiPower technology electronic control gear. Wired ready-to-connect with heat resistant cable. Luminaire cover is optionally available with an aluminium parabolic louvre or with acrylic diffuser, available in opal or longitudinal prismatic, clear version.



				Version						
				Direct	Direct/indirect	Indirect	Acrylic diffuser, opal	Acrylic diffuser, prismatic	Silver C3	Anodized aluminium
Image	L =	Article No.	Lamp version	direct		indirect				
	L = 1180mm	8441.154	1xT1628/54W	1xT1628/54W	●		●		●	○
	L = 1480mm	8441.180	1xT1635-80W	1xT1635-80W	●		●		●	○
	L = 1660mm	8441.239	2xT1621/39W	2xT1621/39W	●		●		●	○
	L = 2260mm	8441.254	2xT1628/54W	2xT1628/54W	●		●		●	○
	L = 2860mm	8441.249	2xT1635/49W	2xT1635/49W	●		●		●	○
	L = 880mm	8443.139	1xT1621/39W		●		●	○	●	○
	L = 1180mm	8443.154	1xT1628/54W		●		●	○	●	○
	L = 1480mm	8443.180	1xT1635-80W		●		●	○	●	○
	L = 1660mm	8443.239	2xT1621/39W		●		●	○	●	○
	L = 2260mm	8443.254	2xT1628/54W		●		●	○	●	○
	L = 2860mm	8443.249	2xT1635/49W		●		●	○	●	○

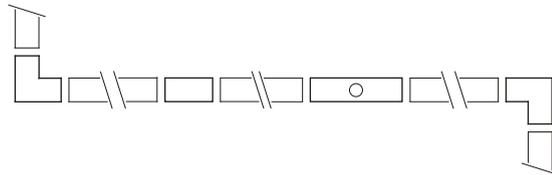
► System Luminaire

For complex lighting structures, this product is also available as a system luminaire, whereby various luminaire modules can be individually combined with different system components. Luminaire arrangements that give shape to a room can be implemented according to the designer's plans. The detailed design-work for such a system is done by our design department.



► System Components

The system components shown here are just a small excerpt of the current range of accessories that are available.

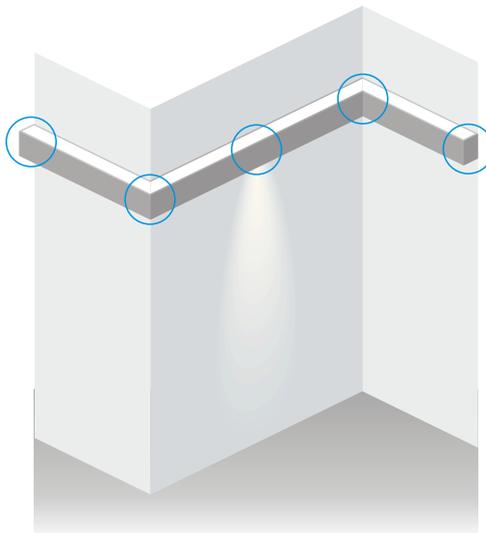


End plate
Art. No. 8445.099

Straight connector
Art. No. 8445.098

Receptacle module for technical components
Art. No. 8445.097

Module for luminaire unit
Art. No. 8445.096



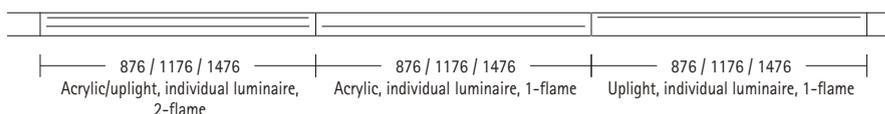
Internal-corner connector angle 90°
Art. No. 8445.094

External-corner connector angle 90°
Art. No. 8445.093

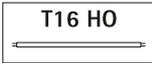
L-connector special angle
Art. No. 8445.090

RAIL

Sharp-edged, drawn aluminium profile. The electronic control gear is built in. Equipped for T5 fluorescent lamps, high output or high efficiency, with MultiPower technology electronic control gear. Wired ready-to-connect with heat resistant cable. Luminaire cover optionally available with aluminium parabolic louvre (compatible with computer workstations) or with wide-beam, opal, acrylic diffuser.





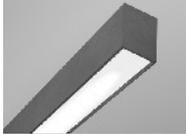
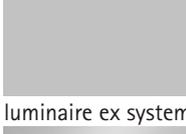












				Version							
				Direct	Direct/indirect	Indirect	Acrylic diffuser, opal	Acrylic diffuser, prismatic	Silver C3	Anodized aluminium	
				Article No.		Lamp version					
luminaire ex system accessories						direct	indirect				
		L = 876mm	8446.139	1xT1621/39W	1xT1621/39W	●	●	●	●	○	
		L = 1176mm	8446.154	1xT1628/54W	1xT1628/54W	●	●	●	●	○	
		L = 1476mm	8446.149	1xT1635/49W	1xT1635/49W	●	●	●	●	○	
		L = 876mm	8448.139	1xT1621/39W		●	●	○	●	○	
		L = 1176mm	8448.154	1xT1628/54W		●	●	○	●	○	
		L = 1476mm	8448.180	1xT1635-80W		●	●	○	●	○	
luminaire ex system accessories											
		L = 876mm	8449.139	1xT1621/39W			●	○	○	●	○
		L = 1176mm	8449.154	1xT1628/54W			●	○	○	●	○
		L = 1476mm	8449.180	1xT1635-80W			●	○	○	●	○

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General Information

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