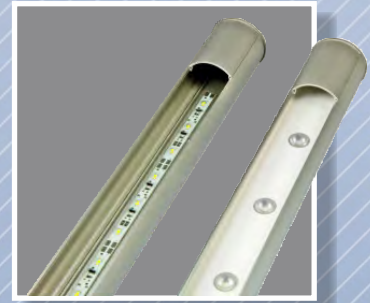
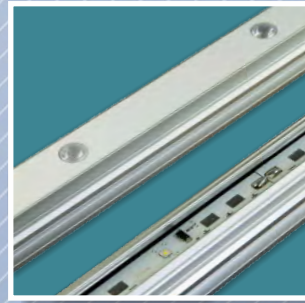
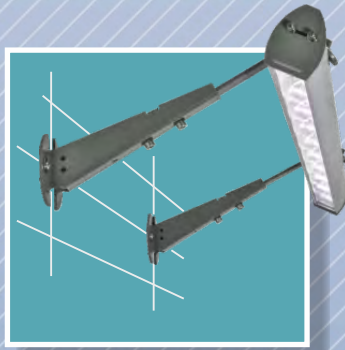
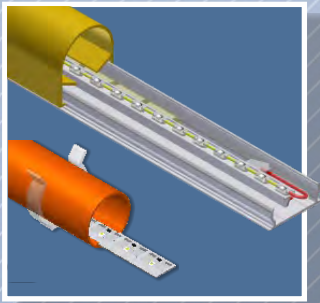




***hansen***  
technologie · elektronik · licht



# LED Profiles

Illuminated contours for  
indoors and outdoors

Wall Floodlight in V Profile  
LED luminaires · Star Profile  
Mini Profiles · LED Pipe  
Facade Profile

# ***hansen***

*technologie · elektronik · licht*



==== Made in Germany =====

## **Your specialist for customized solutions**

Since 1984 we have been providing shining solutions. As an expert in lighting technology ***hansen*** specializes in the development and manufacture of light sources and associated electronics. With a team of 90 employees we manufacture our products at our headquarters in Haselund, northern Germany. We have always been committed to quality "made in Germany". This is why all our products are developed and produced in Germany. Our ability to produce customized products in small numbers is one of our strengths and much appreciated by our customers.

Our own development department designs LED circuit boards, builds prototypes and supports the entire product development process from prototyping up to series production. The same applies to converters, power supplies and electronic controllers, which are developed and produced by ***hansen*** in close cooperation with customers. We are constantly expanding our product range and seek new applications and markets .

This catalogue provides you with a comprehensive overview of our LED profiles. If you are looking for a special solution and if you are unable to find one that suits your needs, please do not hesitate to contact us. We are happy to support you in your individual planning. For further technical details please also refer to our website at [www.hansen-led.com](http://www.hansen-led.com).

Made by ***hansen*** · Made in Germany

# Illuminated lines & contours



**Our LED profiles provide attractive lighting right down the line!**

The ***hansen*** LED profiles are very versatile and can be used for a variety of purposes – for accent lighting, for creating impressive illuminated lines or simply to attract attention. And they can easily be installed around corners and at angles. Our LED profiles are suitable for both indoor and outdoor use.

In addition, all our LED profiles offer **high-quality light, low energy consumption, low maintenance** and a **long service life**.

**All our products are developed and custom-made in-house.**

<b>Wall Floodlight in V Profile</b> – with external or integrated converter .....	4
<b>LED luminaire „Carmen“</b> – the slim light profile .....	6
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<b>Star Profile</b> – robust and powerful .....	8
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LED luminaire **VEGA**

LED luminaire **Carmen**

LED Pipe

Facade Profile

Wall Floodlight in V Profile

Star Profile

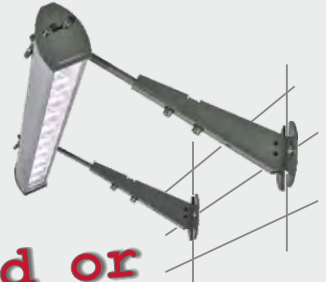
Mini Profile

# Wall Floodlight in V Profile

Rated from  
**11.3 watts**  
per metre

For the illumination of objects with a height of up to 4 m

- Advertising spaces, signs and logos
- Facade elements
- Suitable for horizontal and vertical mounting



**With integrated or external converter**



**Custom lengths**  
from 300 mm to 3,000 mm in one piece.  
Greater lengths can be achieved with connectors.

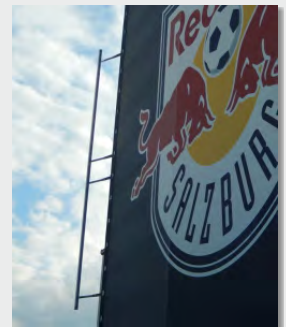
**IP 65**



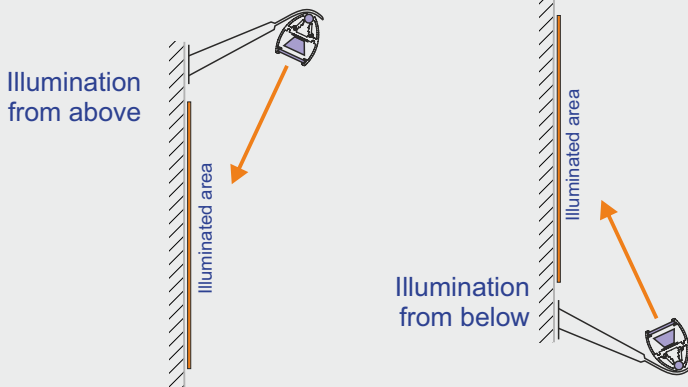
Application examples: Advertising sign



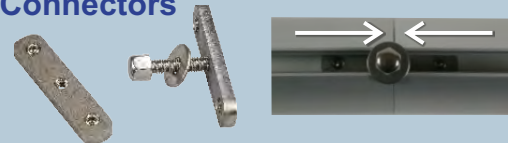
10 m wide advertising space



Vertical mounting



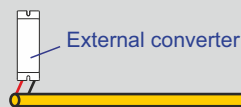
## Connectors



The connectors allow two **V Profiles** to be mechanically connected so that they can be aligned in a straight line.

These connections are almost invisible from the normal viewing distance.

## Wall Floodlight in V Profile



## Maximum connectable lengths

		Wattage per metre (white light)	Max. length per circuit with C700/357D	Max. single length
Wall Floodlight	100 mm LED spacing	22.5 W	11,200 mm	3,000 mm
Wall Floodlight	150 mm LED spacing	15.1 W	16,800 mm	3,000 mm
Wall Floodlight	200 mm LED spacing	11.3 W	22,400 mm	3,000 mm
Wall Washer	100 mm LED spacing	22.5 W	11,200 mm	2,000 mm

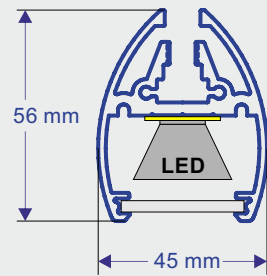
**Please note:**  
The Wall Floodlight with **integrated converter** has a standard LED spacing of **150 mm**.

# Wall Floodlight in V Profile

## Powerful with 2.25 W LEDs

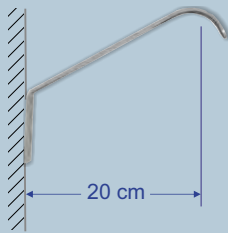
The aluminium V profile has been specially designed for outdoor illumination using LEDs. It is made of silver anodized aluminium offering durable protection against corrosion. The High-Power LEDs are equipped with special lenses to direct the luminous flux. The LEDs, circuit board and connecting cables are fully embedded in the profile making it weatherproof.

IP 65

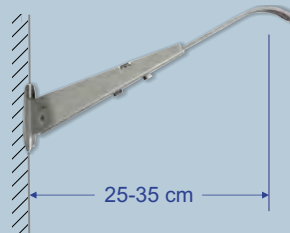


## Flexible adjustment of length, height and angle

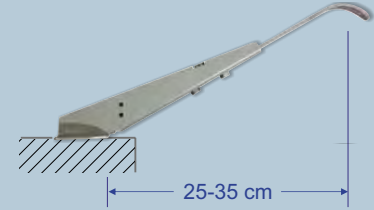
FIX wall mount



Vertical wall mount



TOP wall mount



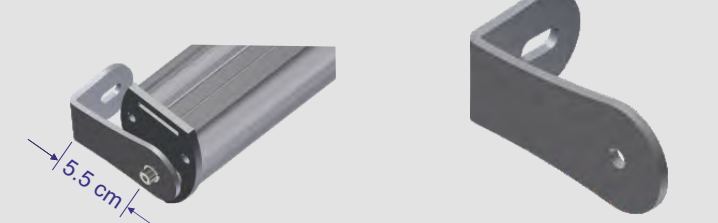
## V Profile as wall washer

For the illumination of building facades



The maximum profile length for the V Profile as wall washer is 2,000 mm.

## Wall mount for wall washer



The following features of the **Wall Floodlight in V Profile** can be chosen individually:

- Profile length
- Lenses (30° · 10° · 10 x 42°)
- Colour temperature
- Wall mounts
- LED spacing

The Wall Floodlight in V Profile with integrated converter has a standard LED spacing of 150 mm.

## Converters

### C750/30

For 1 to 10 LEDs



### C750/85D

Dimmable via 0–10 V  
For 1 to 20 LEDs



### C750/140D

Dimmable via 0–10 V  
For 1 to 33 LEDs



### C700/215D

Dimmable via 1–10 V  
For 37 to 66 LEDs



### C700/357D

Dimmable via 1–10 V  
For 62 to 112 LEDs



IP 67

# LED Luminaire "Carmen"

Rated from  
**13.3 watts**  
per metre

## Slim LED luminaire made to measure

- Accent lighting
- Room and workplace lighting
- Illumination of advertising spaces

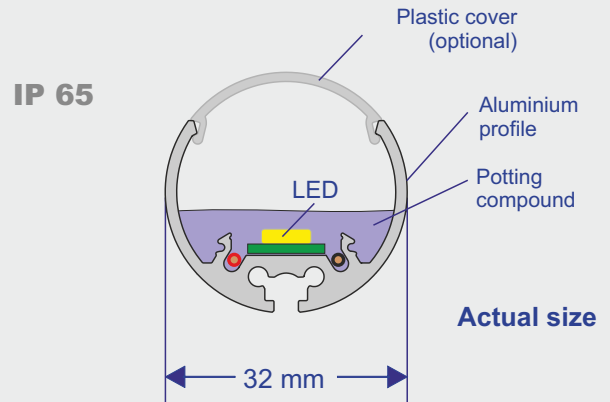


The **hansen** light profile "Carmen" is a linear LED luminaire designed for room, workplace and accent lighting purposes.

In addition, it can be used for the illumination of walls, objects, pictures, advertising spaces, etc.

### Key features:

- Silver or black anodized profile
- Custom-made length
- Two different power classes
- Available colour temperatures:  
2,700 K | 3,000 K | 4,000 K | 5,000 K | 6,500 K
- 12 V operation



Cross-section and dimensions



## Wall mounts



We offer a large range of 12 V power supplies from stock.

## Light profile "Carmen"



## Maximum connectable lengths

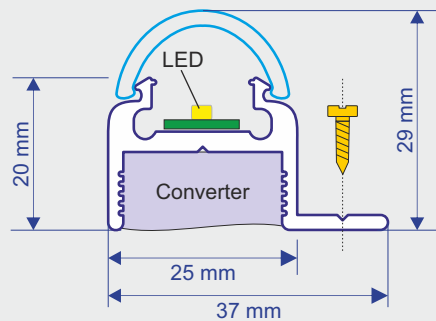
		Wattage per metre (white light)	Max. illuminated length
Type 1	12 V	13.3 W	3,000 mm
Type 3	12 V	25 W	3,000 mm

Rated from  
**18 watts**  
per metre

# LED luminaire VEGA

## LED luminaire with integrated converter

- Room and workplace lighting
- Fluorescent tube replacement
- For indoor and outdoor use



Cross-section and dimensions  
(actual size)



**Integrated  
converter**

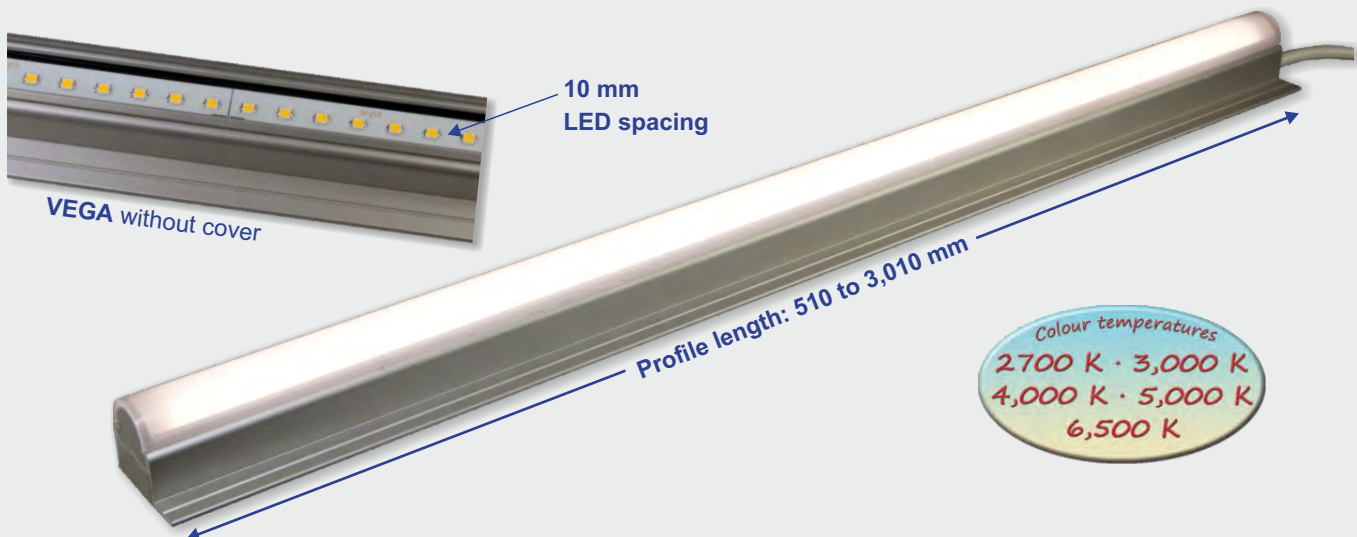


The **hansen** LED luminaire **VEGA** is available in custom lengths of up to **3,010 mm** in one piece.

What makes this luminaire so special is its integrated converter allowing the **VEGA** to be directly connected to the 230 V mains.

The aluminium profile is silver anodized and features a fixing flange with drilling aid to facilitate mounting. There are two different plastic covers to chose from: transparent and satin-finish.

IP 54



### Light profile VEGA

### Maximum connectable lengths

230 V  
50 Hz



	Luminous flux per metre	Input current per metre	Wattage per metre	Max. single length
Without cover	1,854 lm	0.076 A	18 W	3,010 mm
With transparent cover	1,626 lm	0.076 A	18 W	3,010 mm
With satin-finish cover	1,477 lm	0.076 A	18 W	3,010 mm

# Star Profile

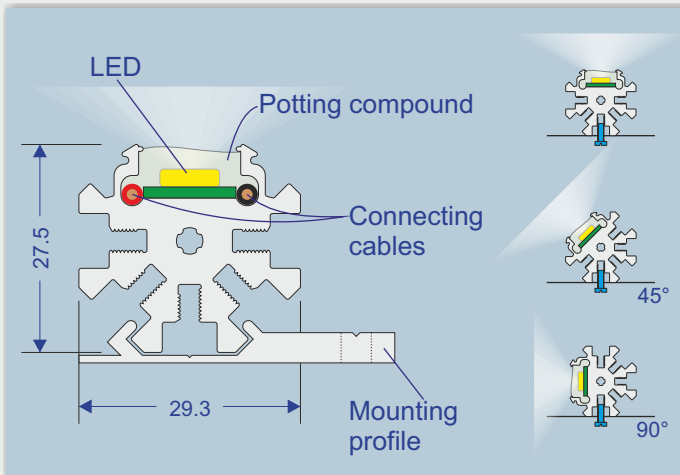
Rated from  
15 watts  
per metre

## For bright illumination of objects

- Illumination of outdoor billboards
- Accent lighting on building facades
- Room and workplace lighting



IP 65



The **hansen Star Profile** is a carrier profile which can be equipped with LEDs of different power ratings.

The aluminium profile serves as a heat sink for the LEDs and can be installed at an **angle of 0°, 45° or 90°**. The profile can be supplied in custom lengths from 300 mm to 3,000 mm in one piece.

The LEDs, lenses and cables are fully embedded in a transparent potting compound making the **Star Profile** particularly suitable for outdoor use.

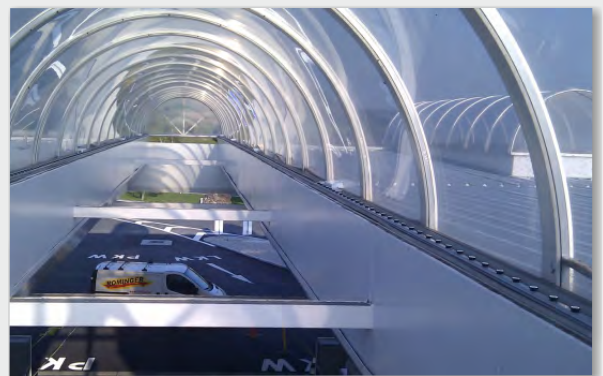
- Illuminated advertising
- Information signs
- Cove lighting
- Room lighting



Available  
3,000 K · 4,000 K  
5,000 K · 6,500 K  
colour temperatures

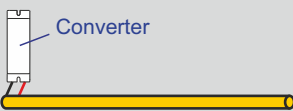


Application examples: Facade illumination



Indirect lighting

## Star Profile



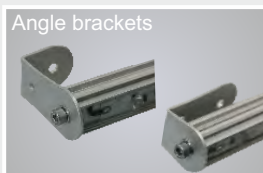
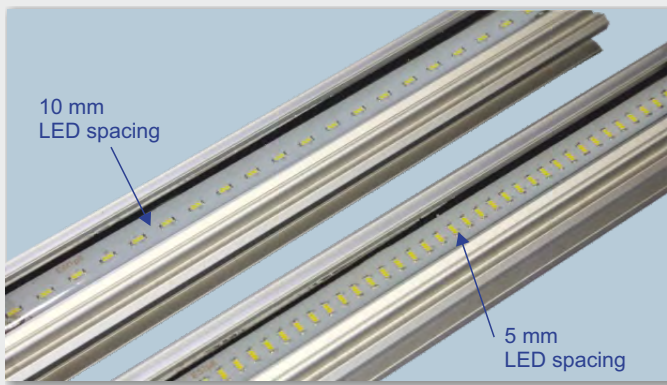
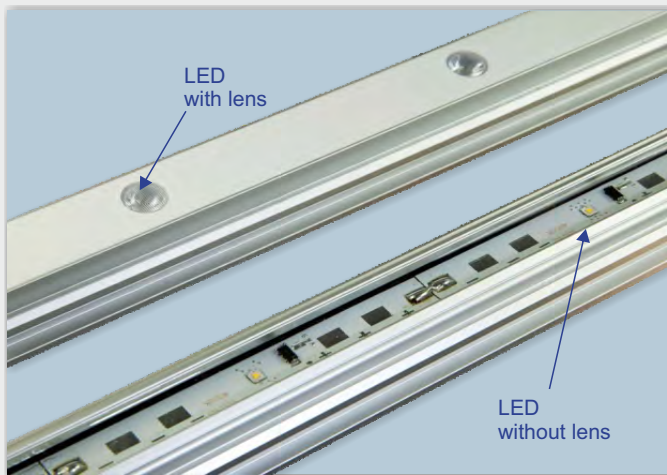
## Maximum connectable lengths

	Wattage per metre	Max. length per circuit	Max. single length
1.5 W 100 mm LED spacing	15 W	5,000 mm	3,000 mm
1.5 W 50 mm LED module	30 W	2,500 mm	3,000 mm
1.5 W 100 mm LED module	15 W	5,000 mm	3,000 mm



# Star Profile

## The versatile profile in detail



LED modules with ten 1.5 W LEDs

## Mounting accessories

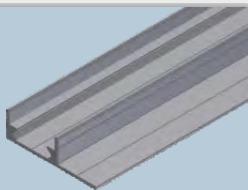
Spring steel mounting bracket type 1



Spring steel mounting bracket type 2



Angle bracket for wall washer



Mounting profile type 2

Mounting profile type 1

## For illumination purposes

with High-Power LEDs with or without lenses

If directional light is needed for the illumination of objects, it is advisable to use **individual LEDs** with a higher rating (1.5 W / 500 mA) with or without lenses. Two different types of lens are available: 40° and 23 x 45°.

Typical applications are the illumination of advertising signs or the decorative illumination of building facades.

IP 65

## As linear luminaire

with LED modules

For room lighting purposes it is better to use a large number of small **LEDs arranged in a row**. With the diffusing cover (see top picture on the left page), a continuous illuminated line can be created.

Typical applications include room and workplace lighting or the replacement of fluorescent tubes.

## Converters for 500 mA

### C500/24

6 LEDs with 1.5 W each



### C500/48

14 LEDs with 1.5 W each



### C500/120D

Dimmable via 0-10 V  
30 LEDs with 1.5 W each



### C500/200D

Dimmable via 0-10 V  
50 LEDs with 1.5 W each



IP 67

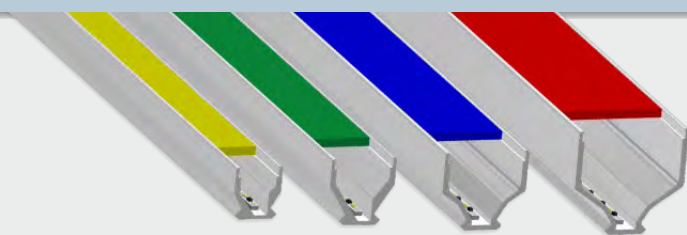
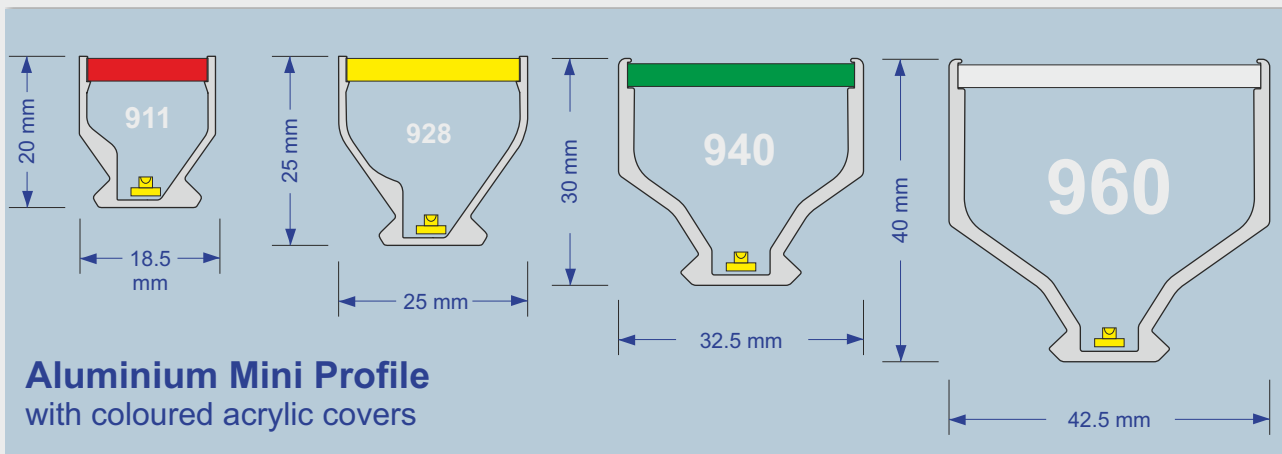
# Mini Profile

Rated from  
7 watts  
per metre

## Fine contour lighting

- Lighting design for furniture and showcases
- Indirect lighting, mirror backlighting
- Stairs and handrails

IP 65



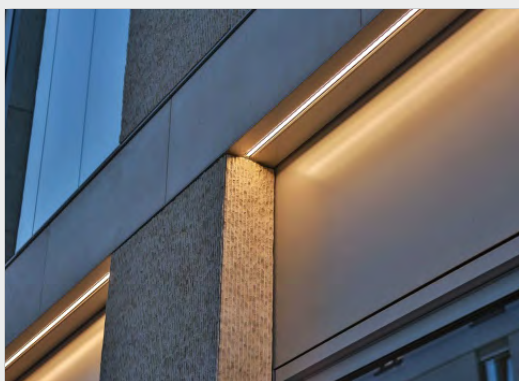
Type 911 Type 928 Type 940 Type 960

Custom-made in lengths  
of up to 3,000 mm

The base of the Mini Profiles is the same for all types and suitable for the following mounting methods:

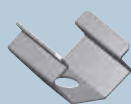


The **hansen Mini Profiles** consist of extruded aluminium profiles with a grey anodized surface. The profiles are equipped with LEDs along their entire length. The LEDs are fully embedded making the profiles suitable for outdoor installation.



Application example: Window recess

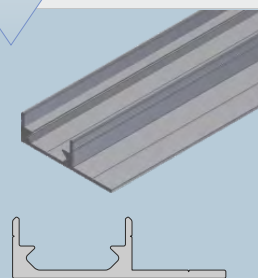
## Mounting accessories



Spring steel mounting bracket type 1



Spring steel mounting bracket type 2

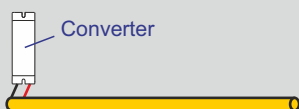


Mounting profile (anodized) type 2

## Mini Profile

12 V | 24 V

## Maximum connectable lengths



		Wattage per metre (white light)	Max. length per circuit	Max. single length
Type 5	12 V   24 V	13.2 W	2,700 mm   5,400 mm	3,000 mm
Type 220	12 V   24 V	13.2 W	2,700 mm   5,400 mm	3,000 mm
Type 940 RGB / 960 RGB	12 V	14.1 W	2,600 mm	3,000 mm
Type 911, 928, 940, 960	12 V	7 W	3,000 mm	3,000 mm
Type 911, 928, 940, 960	24 V	7 W	6,000 mm	3,000 mm

# Mini Profile

## White and coloured illuminated lines

The ***hansen*** Mini Profiles create fine illuminated lines and can be used to set colourful accents or provide visual orientation inside and outside buildings.

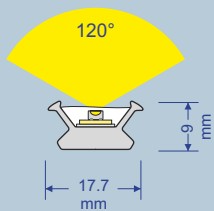
Design and art objects can be highlighted as well using the Mini Profiles. Installed on building facades, the Mini Profiles provide an attractive way to emphasize architectural features.



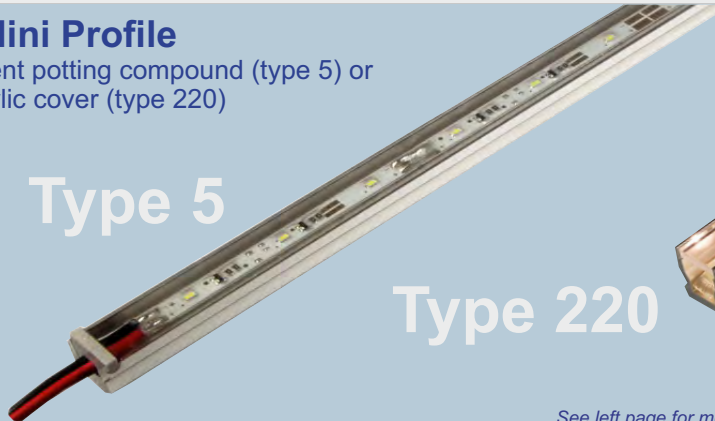
IP 65

## Aluminium Mini Profile

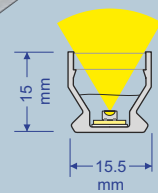
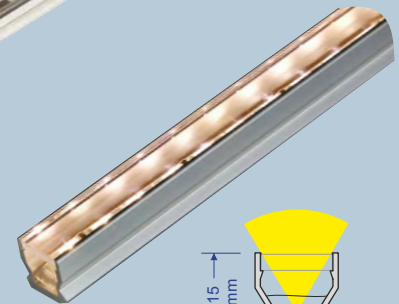
filled with transparent potting compound (type 5) or with protective acrylic cover (type 220)



Type 5



Type 220



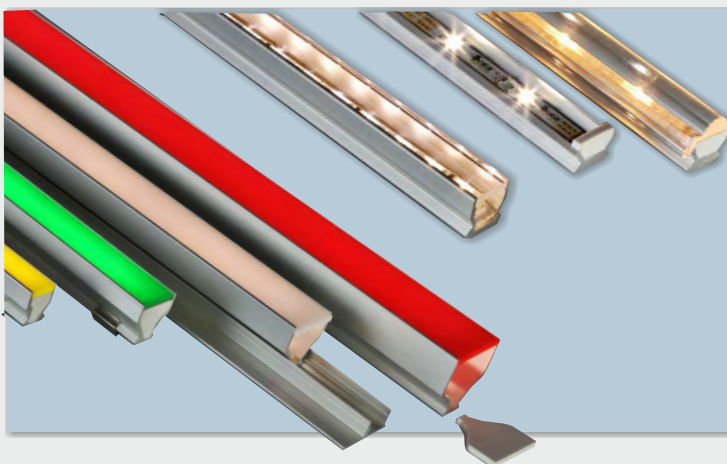
See left page for mounting accessories



Application examples: Stairs

Contour lighting

Illuminated shelf



The following features can be chosen individually for all ***hansen*** Mini Profiles:

- Profile length
- Acrylic cover
- LED type
- Colour temperature
- Cable outlet
- Cable length

**Supply voltage: 12 V | 24 V**

Suitable power supplies are available from stock.

## Variations

12 V | 24 V

Type 911, type 928 12 V  
Type 940, type 960 12 V | 24 V

Type 5 12 V | 24 V  
with 15 mm LED spacing

Type 220 12 V | 24 V  
with 15 mm LED spacing

Type 940, type 960, type 5, type 220  
RGB with 22 mm LED spacing

Type 5 W-W 12 V  
with 15 mm LED spacing

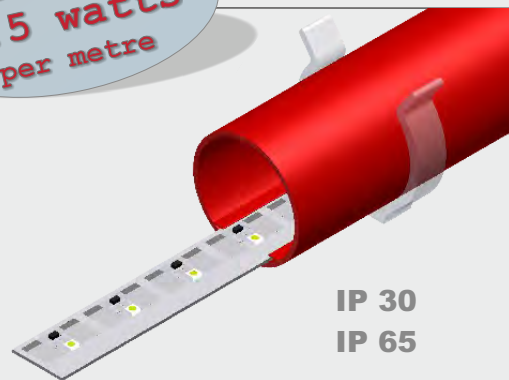
Type 220 W-W 12 V  
with 15 mm LED spacing

# LED Pipe

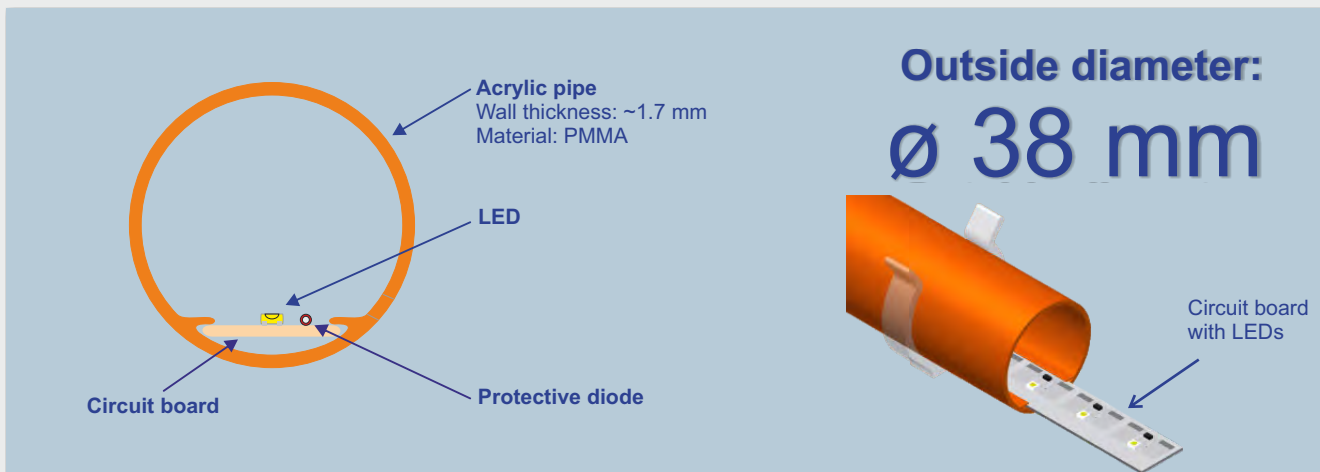
## Ideal for contour lighting

- Decorative design and room lighting at the same time
- Bright LED light in many variations and colours
- Safe installation and long lifetime

Rated from  
**4.5 watts**  
per metre



IP 30  
IP 65



The **hansen** LED Pipe consists of a straight acrylic pipe with an outside diameter of **38 mm**.

This pipe is illuminated by LEDs fitted on the inside. Depending on the installation location, the LEDs are operated either using 12 V technology (**IP30** for indoor use) or in series connection (**IP65** for outdoor use).

Usually, the **coloured pipes** are illuminated with LEDs of the same colour, i.e. white acrylic pipes with white LEDs, green pipes with green LEDs, etc. Using coloured LEDs with a **white acrylic pipe** will generate **pastel coloured light**.

Ideal for **events** and **modern home design**: Animated light effects and a large variety of mixed colours can be generated using our **LED Pipe RGB for indoor and outdoor applications**.

Acrylic colour	LED light colour	Wattage/m 12 V system	Wattage/m Series conn.
Blue	Blue	9 W	7.5 W
Green	Green	9 W	7.5 W
Red	Red	9 W	4.5 W
Yellow	White	9 W	7.5 W
Amber	Amber	9 W	4.5 W
White	White	9 W	7.5 W



Application example:  
Exhibition stand

Application example: Outdoor advertising



## LED Pipe

## Maximum connectable lengths



	Wattage per metre (white light)	Max. length per circuit	Max. single length
<b>Series connection</b>	7.5 W	6,000 mm	3,000 mm
<b>12 V</b>	9 W	5,000 mm	3,000 mm
<b>RGB 12 V</b>	12.2 W	5,000 mm	3,000 mm

# LED Pipe

## Homogeneous light for creative designs










- Intense coloured, homogeneous light
- Energy-efficient and safe to handle
- For indoor and outdoor use

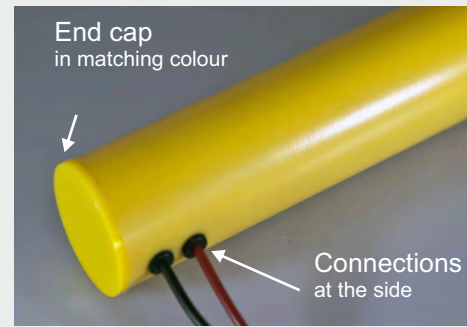
### Two-colour change | Warm / cool white

Using a white acrylic pipe and two different LED colours, **mixed colours in pastel shades** can be generated. The table on the right shows the possible colour combinations. **Attractive colour changes** can be produced with a suitable controller.

Using two types of white LEDs with different colour temperatures (e.g. 3,000 K and 6,500 K) in a white acrylic pipe will also generate **harmonious pastel shades**.

With a light-dependent controller, the light can be adapted to the respective time of the day.

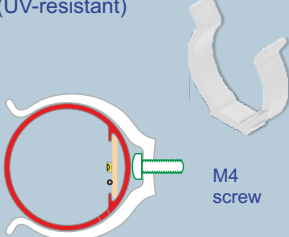
 Blue	+	 Red	=	 Magenta
 Green	+	 Red	=	 Yellow-or.
 Blue	+	 Green	=	 Turquoise



Each **hansen** LED Pipe is custom-made to a maximum single length of **3,000 mm**.

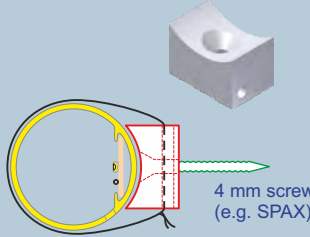
The following accessories are available for wall mounting:

**Pipe holder**  
made of transparent polycarbonate (UV-resistant)



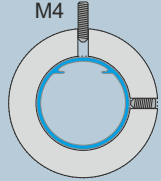
M4 screw

**Tie mount** with wire  
made of polyurethane



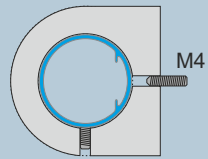
4 mm screw (e.g. SPAX)

**Ring mount**  
made of polyurethane



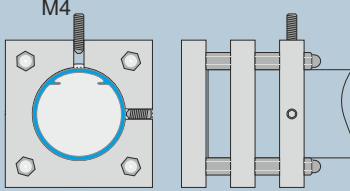
M4

**Wall mount**  
made of polyurethane



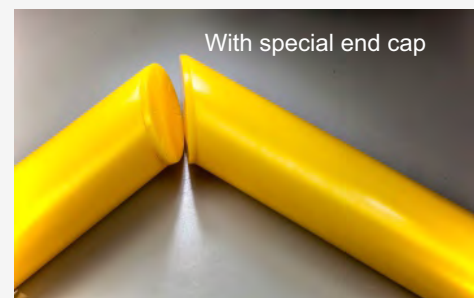
M4

**High-end cap**  
made of acrylic/  
nickel-plated brass



M4

### 45° mitre cut





















### Converters

dimmable and non-dimmable

- For series-connected LEDs
- Fully embedded (IP67)
- Short- and open-circuit-proof
- Constant current
- Cable connections

**IP 67**

Type	L x W x H (mm)	No. of LEDs	LED type
- Non-dimmable - <b>C50/300</b>	185 x 24 x 25	1 to 80	
		1 to 125	  
- Non-dimmable - <b>C50/500</b>	205 x 30 x 27	1 to 150	
		1 to 210	  
- Non-dimmable - <b>C50/990</b>	260 x 50 x 36	1 to 300	
		1 to 430	  
- Dimmable - <b>C50/500D</b>	200 x 50 x 30	1 to 150	
		1 to 210	  
- Dimmable - <b>C50/990D</b>	250 x 77 x 35	1 to 300	
		1 to 430	  

The following **12 V** power supplies are available:  
**25 W, 45 W, 60 W, 150 W**

# Facade Profile

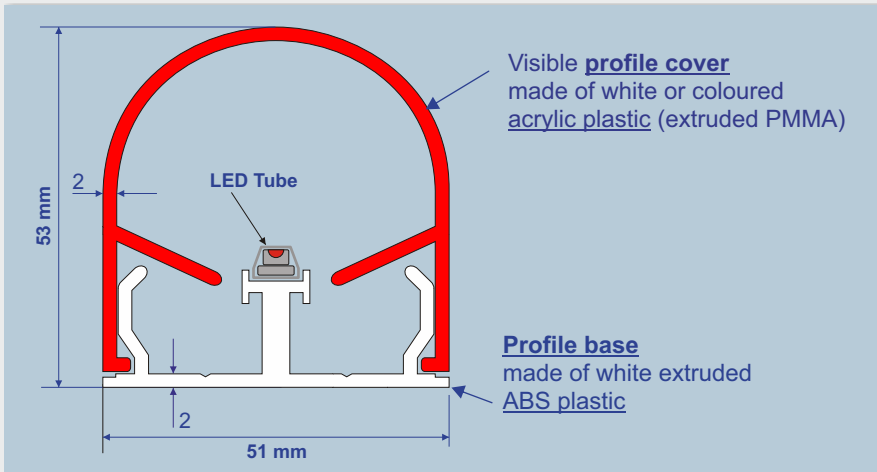
Rated at  
5 watts  
per metre

## Contour lighting for buildings

- Fine, seamless illuminated lines without any dark zones
- Bright LED light with day and night effect
- Energy-efficient LED technology



IP 54



## Day and night effect

Illuminated lines visually emphasize the contours of buildings from dusk right into the night.

This attracts attention and makes the building stand out from others. During the day, the coloured profile covers show their effect as coloured lines.

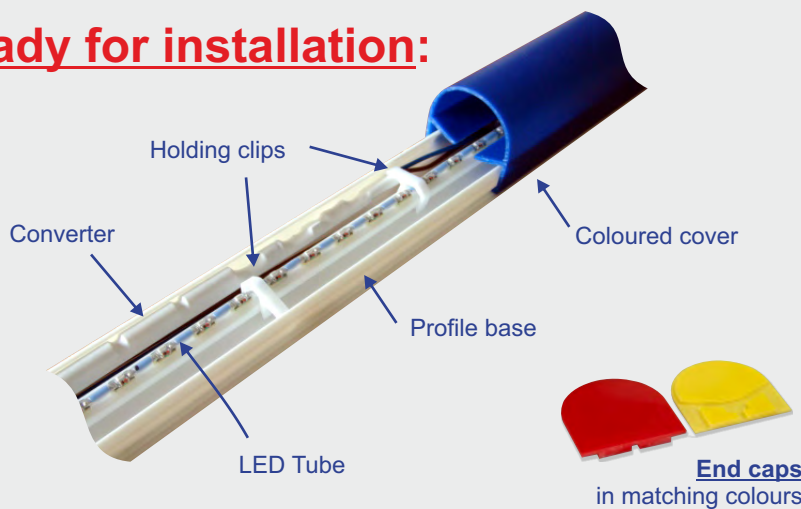
The **hansen Facade Profile** consists of two plastic parts. The lower part (base) contains all the technical equipment including LED Tube, converters and cables. The coloured upper part (cover) is uniformly transilluminated by the LEDs.

The profile's special design ensures continuous, shadow-free illuminated lines with an overall height of the profile of only **53 mm**.

The **pre-assembled elements** can be fitted seamlessly next to each other. A joint sealing tape to seal the expansion joint between the covers can be supplied as well.



## Ready for installation:



## Facade Profile

230 V  
50 Hz



## Maximum connectable lengths

LED type	Max. single length
5 W/m as illuminated line	150 m per power supply point
Standard	3,000 mm

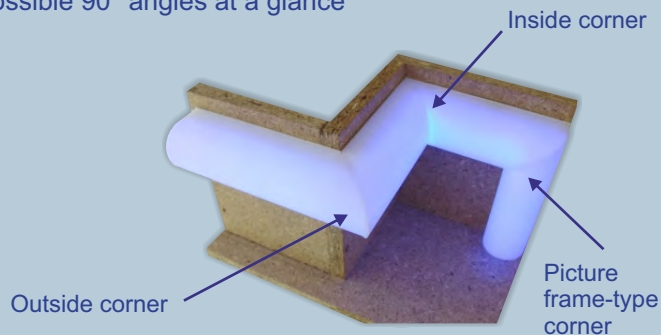
# Facade Profile

## Complete and ready for installation

- Simple installation on building walls and facades
- Easy to fit around corners and at angles
- Designed for harsh environments

### Mitre cuts

Possible 90° angles at a glance

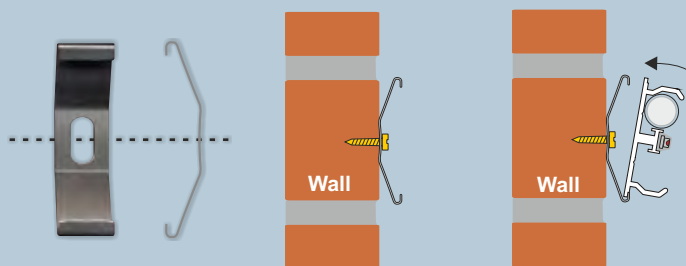


Illuminated lines on buildings do not only consist of straight sections, but also include corners and angles. Using the Facade Profile, the illumination can easily be installed around the corners of a building.

Angles of 90° are most common, but other angles can be produced as well. The pictures on the left page show an angle of 120° on the front of an office building.

### Spring steel mounting brackets

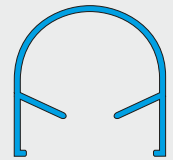
for efficient mounting of the profile base



After fixing the mounting brackets to the wall, the profile bases are simply clicked into the brackets. Once the pre-installed power supply cables have been connected, the profile covers can be clicked onto the bases. **Very simple!**

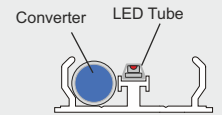
## Profile cover

Visible upper part of the profile made of white or coloured acrylic (extruded PMMA)



## Profile base

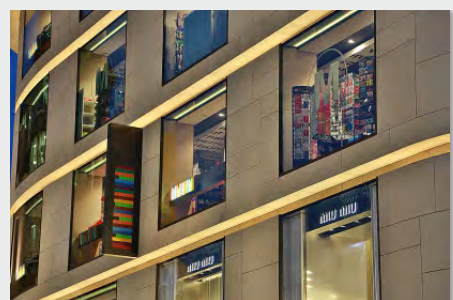
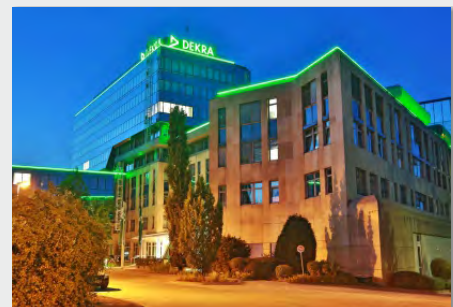
made of white plastic



The converters are integrated in the profile, i.e. no external power supply unit must be installed. A continuous illuminated line of 150 m can be operated from one power supply point.

### Acrylic colour LED light colour

	Blue		Blue
	Green		Green
	Red		Red
	Yellow		White
	Amber		Amber
	White		White



Application examples: Contour lighting

### Proven series connection: very reliable in outdoor applications and the most efficient solution



The products shown in this catalogue are only an excerpt from our extensive range of available products. For more detailed information, latest news and technical data on other LED products and accessories please visit our website

[www.hansen-led.com](http://www.hansen-led.com)

Please feel free to send us an e-mail or give us a call. Contact details can be found on the back cover of this catalogue.



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