

# CITY ELEMENTS

Lighting and Other Functions



.hess

**More than just a luminaire.**

CITY ELEMENTS, a comprehensive lighting system, answers virtually every urban lighting need and even more.

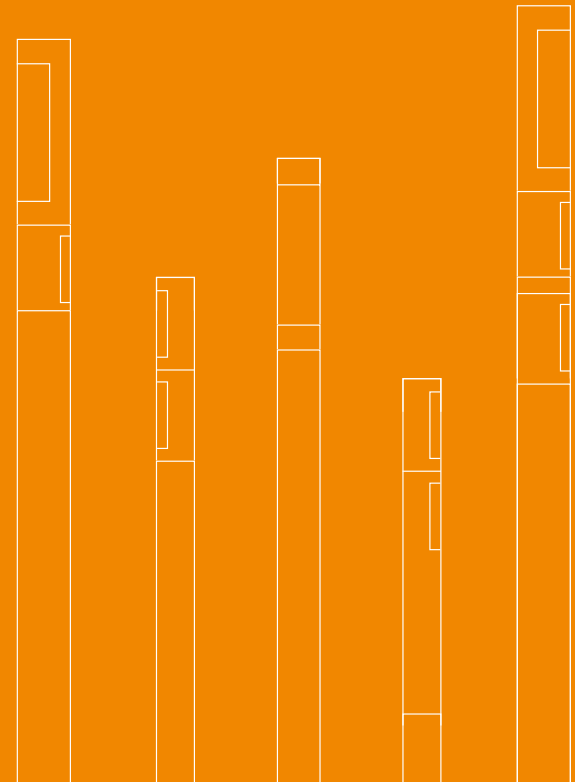
**Proportionate to its surroundings.**

Thanks to the variety and versatility of its elements, two diameters and up-to-9-metre height, the system easily configures to match its specific architectural environment proportionately.

**A holistic solution for cities.**

The CITY ELEMENTS product family's diversity, however, goes beyond just lighting, offering architects and planners an ideal means to place public utilities, such as WLAN, electricity, water, CCTV systems, etc., exactly where they're needed. The potential is unlimited!

CONFIGURATOR: [www.hess.eu/3400](http://www.hess.eu/3400)



# CITY ELEMENTS – THE LIGHTING SYSTEM



# CITY ELEMENTS CONFIGURATOR

Architects, lighting designers, cities, utilities and decision-makers can put together their own CITY ELEMENTS at [hess.eu/3400](http://hess.eu/3400).



SELECT THE ELEMENTS AND PUT THEM TOGETHER.

With the CITY ELEMENTS Configurator, you can select and combine the various elements and lighting technology based on your specific requirements.

CONFIGURE – PRINT PDF – ORDER YOUR LUMINAIRE

Once you have configured your own CITY ELEMENTS system, you can download a PDF with the data and order the system direct from Hess.

Configure your own CITY ELEMENTS system at  
[www.hess.eu/3400](http://www.hess.eu/3400)







1

Optimum integration in both modern and older architectural settings.

3

Extremely efficient due to high-efficacy electronic components and optics.

A nighttime photograph of the Rhein-Galerie building, a modern, curved structure with large glass windows and a prominent illuminated sign that reads "RHEIN-GALERIE". The building is lit from within, and the sign is brightly lit. In the foreground, there are several tall, slender lighting poles with multiple light fixtures. The sky is dark blue, and the overall scene is illuminated by the building's lights and the poles.

2

Two diameters, various column heights and configurable with multiple and varied optical systems.

4

Ideal for numerous lighting and utility functions, including water, power, CCTV systems, projectors, RGB, E-Car charging station, public address speakers, WLAN, etc.

AREA LIGHTING

FACADE LIGHTING

WALKWAY LIGHTING

STREET LIGHTING

ACCENT LIGHTING

POWER AND WATER SUPPLY

SECURITY

9 m

8 m

6 m

4 m

2 m



CITY ELEMENTS 230

Area lighting



CITY ELEMENTS 230

Street lighting  
and camera element



CITY ELEMENTS 230

Street and  
facade illumination





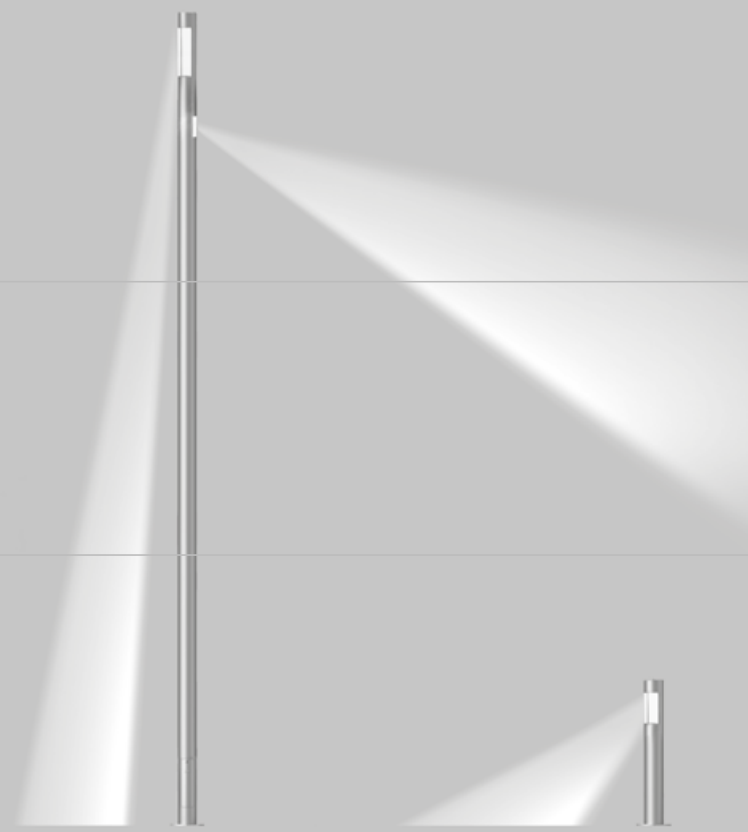
CITY ELEMENTS 230

Street lighting and projector element



CITY ELEMENTS 230

Ground bollard



CITY ELEMENTS 180

Street and facade illumination



CITY ELEMENTS 180

Illuminating bollard for walkway illumination

## CITY ELEMENTS – BE CREATIVE!

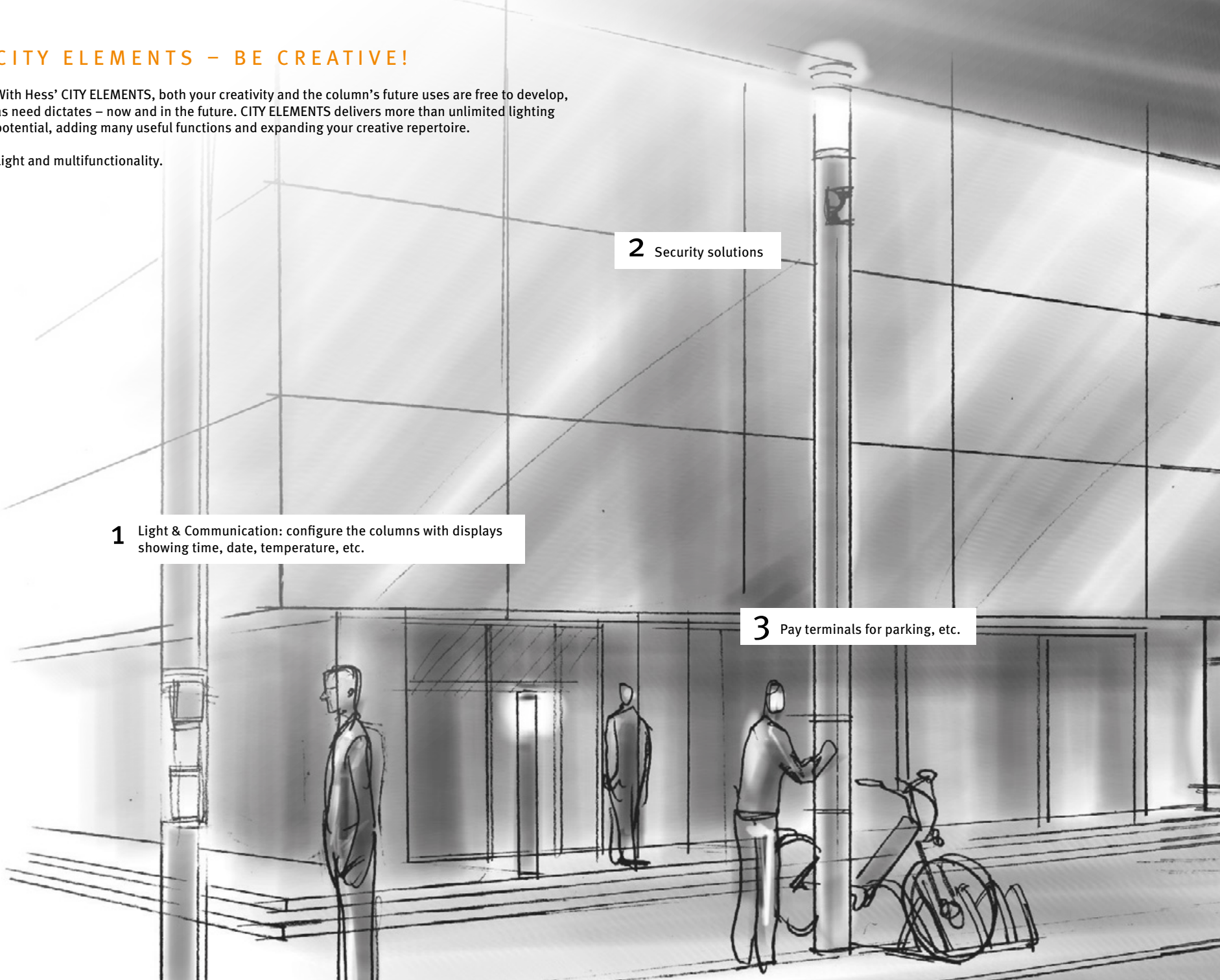
With Hess' CITY ELEMENTS, both your creativity and the column's future uses are free to develop, as need dictates – now and in the future. CITY ELEMENTS delivers more than unlimited lighting potential, adding many useful functions and expanding your creative repertoire.

Light and multifunctionality.

**1** Light & Communication: configure the columns with displays showing time, date, temperature, etc.

**2** Security solutions

**3** Pay terminals for parking, etc.






4 Emergency or taxi phone

5 Colour coded identifier top lights

6 E-mobility charging infrastructure.



## CITY ELEMENTS EVOKE EMOTION

The ability to customise the colour scheme of illuminating columns can intensify emotions. Colour is a powerful design element. Colour adds character and is a truly urban element. Which makes colour a CITY ELEMENT.

Which colour will you choose?

CITY ELEMENTS by Hess. Maximum multifunctionality.

Dark Blue

Hess Lime



Metallic Red



White Aluminium



Hess Cream



Metallic Blue



DB 703

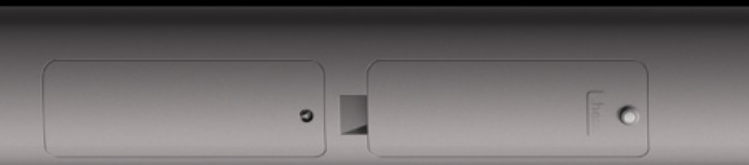
## CITY ELEMENTS

With common tools and minimum effort, CITY ELEMENTS, like building blocks, quickly and easily ...

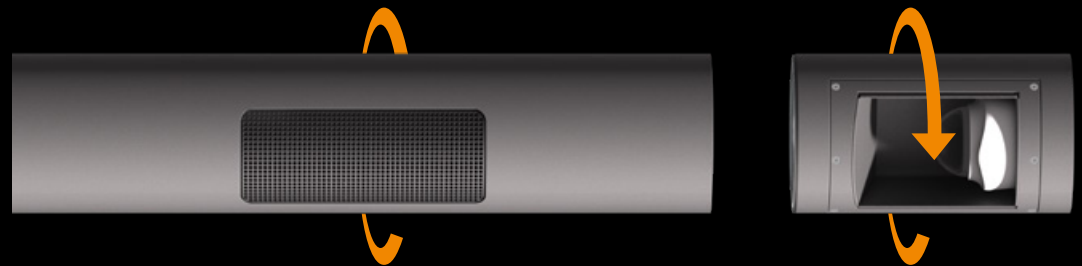
assemble, expand, reduce and retrofit.

All elements come pre-assembled upon request. The infinite adjustment of the elements remains unaffected by pre-assembly.

CITY ELEMENTS by Hess – the lighting system.



BASE ELEMENT



INTERMEDIATE

## SUPPLY

The base elements may also serve as power or water subdistribution.

## DESIGN

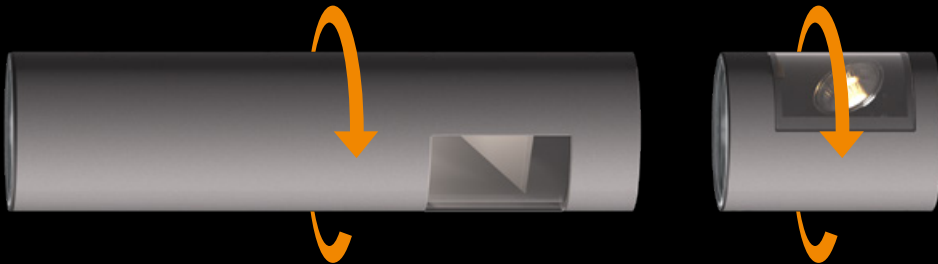
Optional spread lenses or shielding may be added.

## LAMPING

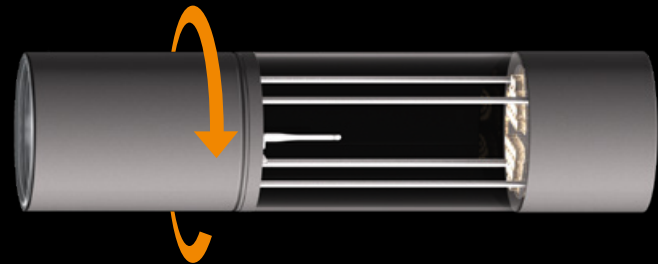
Lamping and relamping possible via access doors in the intermediate elements or from above in the top elements.

## PIVOTING

All of the top and intermediate elements turn with the assistance of an inner mechanism through  $360^\circ$  on their vertical axes to provide the required adjustment.



ELEMENT



TOP ELEMENT





## CITY ELEMENTS and DALVIK – the perfect combination

The CITY ELEMENTS stand for the most diverse multifunctionality – and that at its best. Due to the impressive combination of the illuminating column with the DALVIK S LED luminaire, the CITY ELEMENTS offer even more possibilities for holistic lighting solutions.

CITY ELEMENTS and DALVIK – for holistic lighting  
and infrastructure solutions.



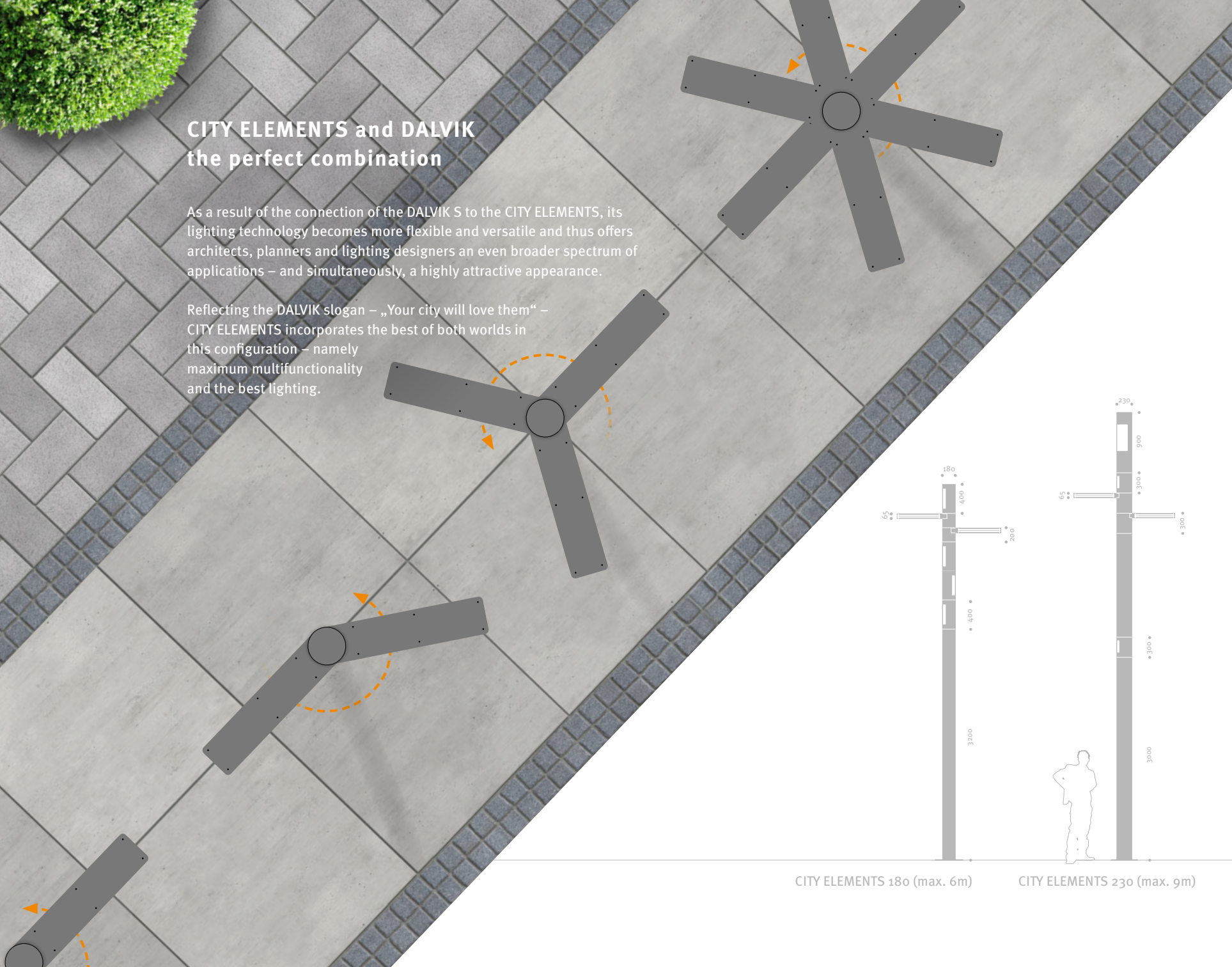
[www.hess.eu/dalvik](http://www.hess.eu/dalvik)



## CITY ELEMENTS and DALVIK the perfect combination

As a result of the connection of the DALVIK S to the CITY ELEMENTS, its lighting technology becomes more flexible and versatile and thus offers architects, planners and lighting designers an even broader spectrum of applications – and simultaneously, a highly attractive appearance.

Reflecting the DALVIK slogan – „Your city will love them“ – CITY ELEMENTS incorporates the best of both worlds in this configuration – namely maximum multifunctionality and the best lighting.



CITY ELEMENTS 180 (max. 6m)

CITY ELEMENTS 230 (max. 9m)

Featuring 2 diameters, the CITY ELEMENTS are adaptable to every surrounding and every requirement.

**CITY ELEMENTS 180 with DALVIK S**

In combination with the DALVIK S, the CITY ELEMENTS 180 is designed for heights of up to 6 meters. The 180 model can be fitted with up to 6 DALVIK S luminaire heads.

**CITY ELEMENTS 230 with DALVIK S**

In combination with the DALVIK S, the CITY ELEMENTS 230 is designed for heights even up to 9 meters. The 230 model can also be fitted with up to 6 DALVIK S luminaire heads.

**TECHNICALLY FLEXIBLE – ENTIRELY ACCORDING TO YOUR NEEDS**

A choice of 1 to 3 LEVO Q modules, each providing a system capacity of 30 watts, can be fitted with the DALVIK S. The modules are available with asymmetrical as well as rotationally symmetrical optics.

Cluster optics of polymethyl methacrylate (PMMA) thereby ensures optimum light control. For need-based control of light, the DALVIK can of course be coupled with various Hess control systems that enable an individual and intelligent control.

The light colours 3000 K, 4000 K and, upon request, 5600 K are available.

**CITY ELEMENTS and DALVIK – the best light!**



1 x LEVO Q asymmetric

3 x LEVO Q rotationally symmetric

## GRIVEN and Hess – Lighting solutions par excellence

GRIVEN and Hess offer an impressive and virtually unique product and solution portfolio:

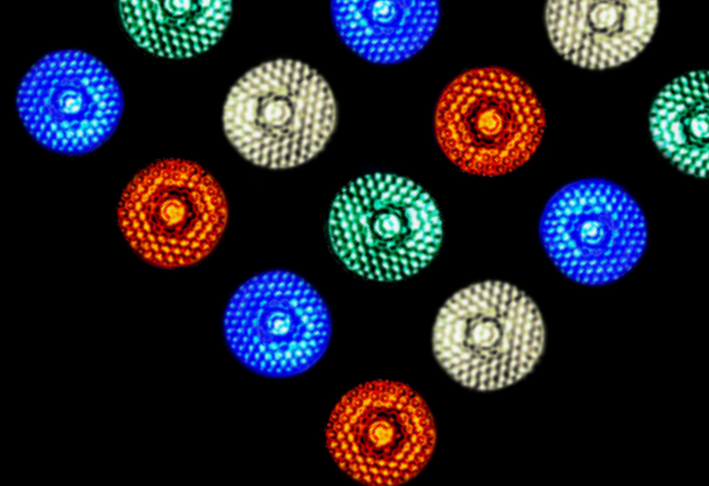
From sophisticated architectural solutions to holistic concepts for the design of urban spaces.

Attractive outdoor areas, impressive buildings and an outstanding lighting and luminaire design are playing an increasingly important role in public spaces as well as in the private and commercial sector. For cities and municipalities, industry and private sectors, light is proving to be an important instrument in staging areas and features attractively and with presence.

GRIVEN and Hess offer the complete spectrum, to enable attractive and special lighting scenarios to become a reality, whether they are spectacular or conservative, multi-coloured or white. Attractiveness at night; and also during the day. With their high design aesthetics Hess luminaires set accents during the night and become design features themselves during the day.

Architects, planners, lighting designers, municipal decision-makers and building owners are offered products and solutions for different requirements – anything from a single source to many and with comprehensive consulting and project support from the Hess and Griven team.

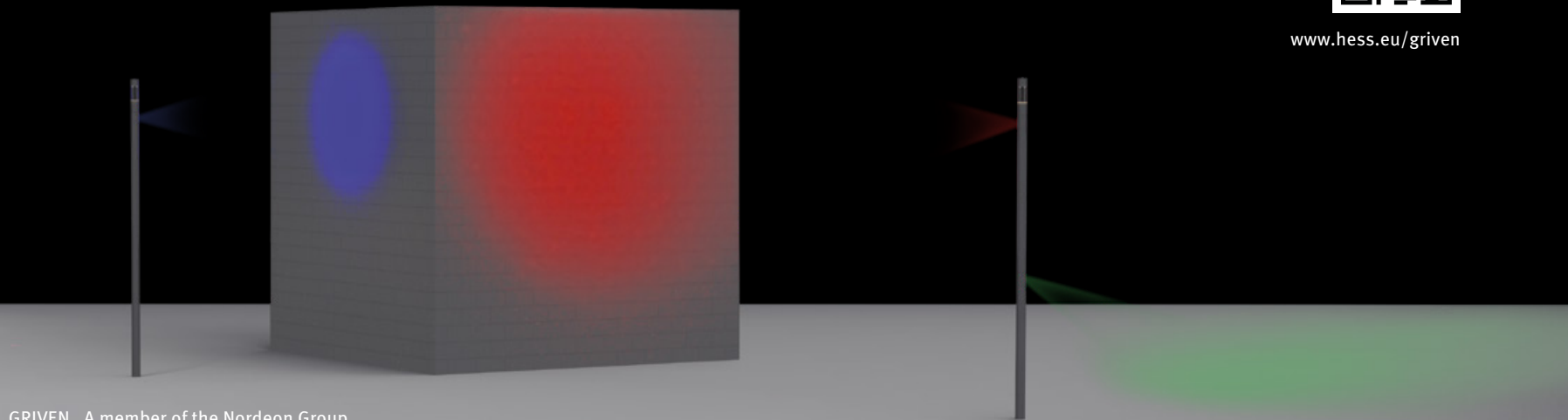
GRIVEN and Hess – the perfect combination.



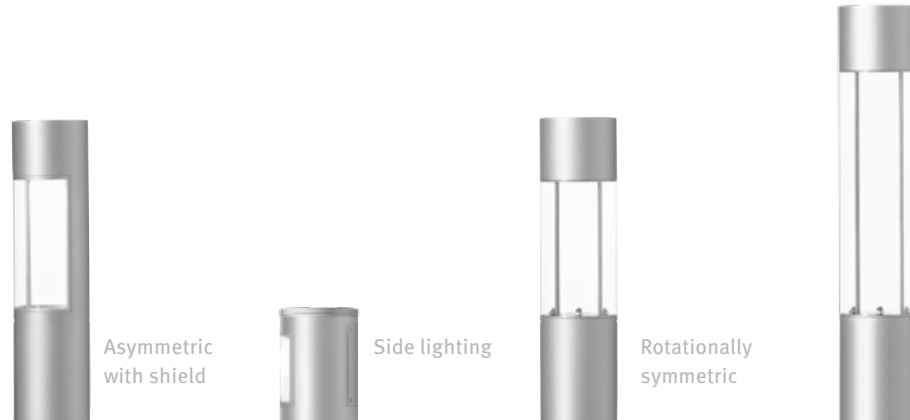
 **GRIVEN**  
world lighting challenge



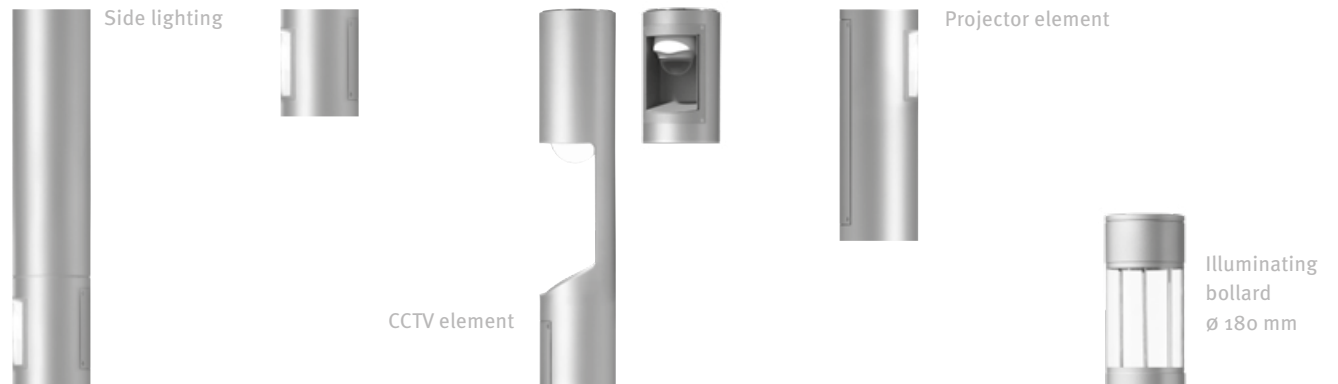
[www.hess.eu/griven](http://www.hess.eu/griven)



TOP ELEMENT



INTERMEDIATE ELEMENT



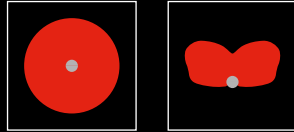
BASE ELEMENT



# L1

## OPTICAL SYSTEM 1 downwards

### L1.8 / LEVO Q

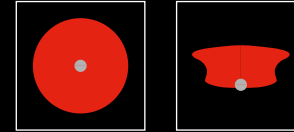


rot. sym.

asym.

LED module for asym. & sym.  
street-, area- oder walkway lighting

### L1.9 / LEVO3



rot. sym.

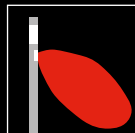
asym.

LED module for asym. & sym.  
street-, area- oder walkway lighting

# L3

## OPTICAL SYSTEM 3 lateral

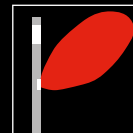
### L3.1



Asym. reflector, downward wide distr. area/  
walkway lighting

LED

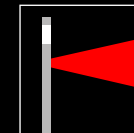
### L3.2



Asym. reflector, upward for  
facade lighting

LED

### L3.3



Rot. sym. spot for facade lighting

LED

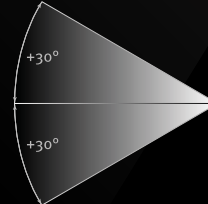
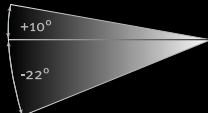
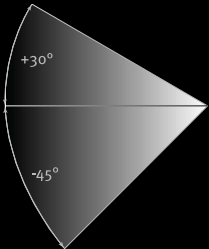
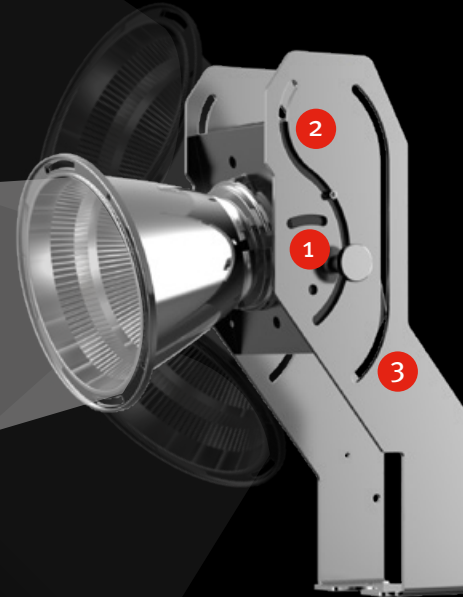
# Illuminating with CITY ELEMENTS

The new lighting technologies are used in the CITY ELEMENTS 180 as well as in the CITY ELEMENTS 230. Concretely, they are used in the AS and BS elements AS/BS300 (Ø 230 mm) and AS/BS400 (Ø 180 mm), as well as the BHS 600+x element (Ø 230 mm).

The new electrical equipment of the CITY ELEMENTS illuminating elements enables architects and planners to use various ways of distributing light, whether in a way that is rotationally symmetric or asymmetric. Now, they can take advantage of the different tracks to optimally adjust the setting angle within an element.

The use of the newest and even more powerful LED technology from CREE is also new.

Via the different tracks ( 1 2 3 ), the maximum use of the setting angle within the housing is ensured for each lighting technology. The optimal track for each lighting technology is determined and already installed upon delivery. Subsequent changes on site are possible.



1 L3.1 | asym. downwards  
L3.3 | rotationally symmetric  
(Reflector 18° | 28° | 46°)

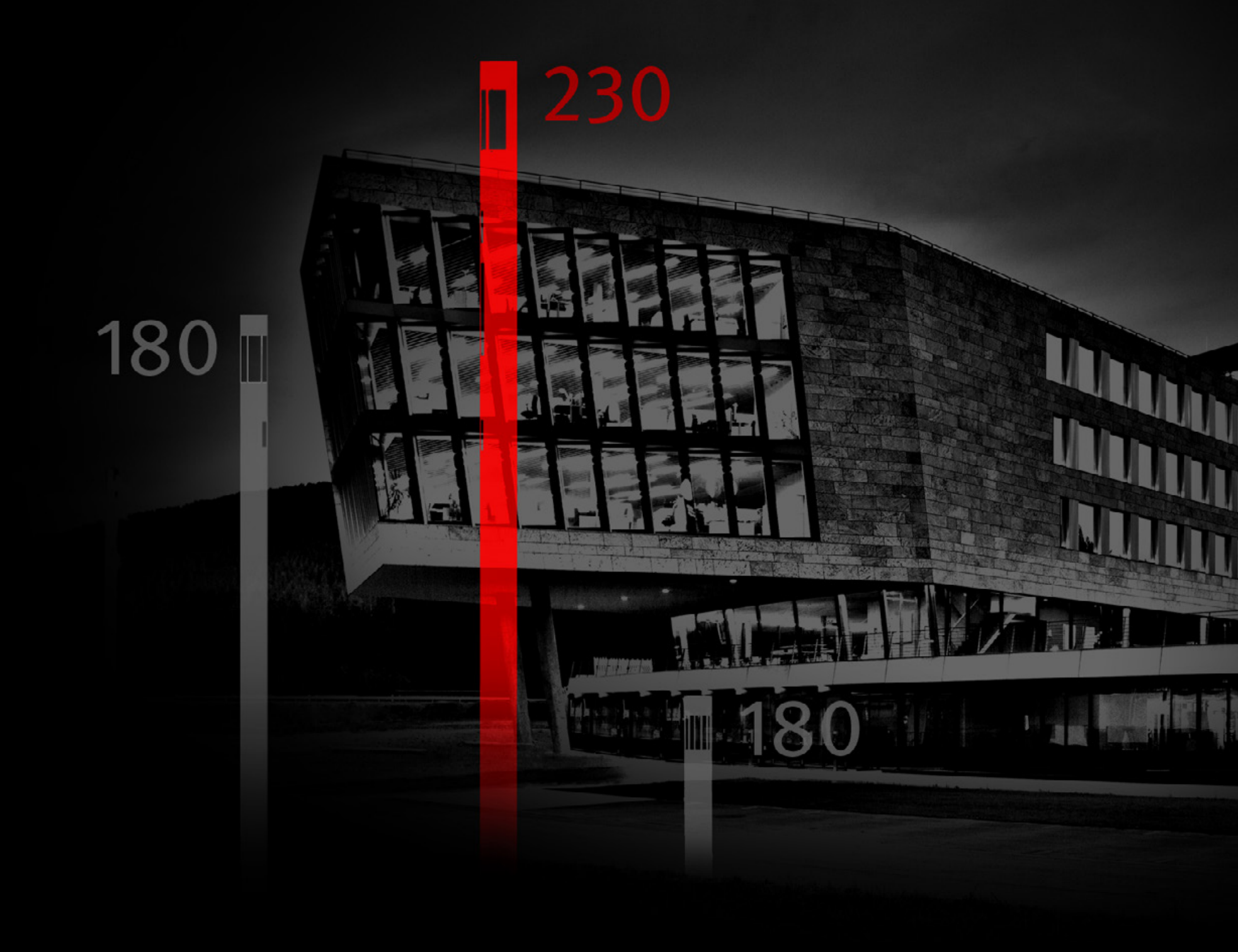
2 L3.2 | asym. upwards

3 For project solutions upon request, for example for large reflectors, or more narrow beam reflectors

230

180

180





# CITY ELEMENTS 230

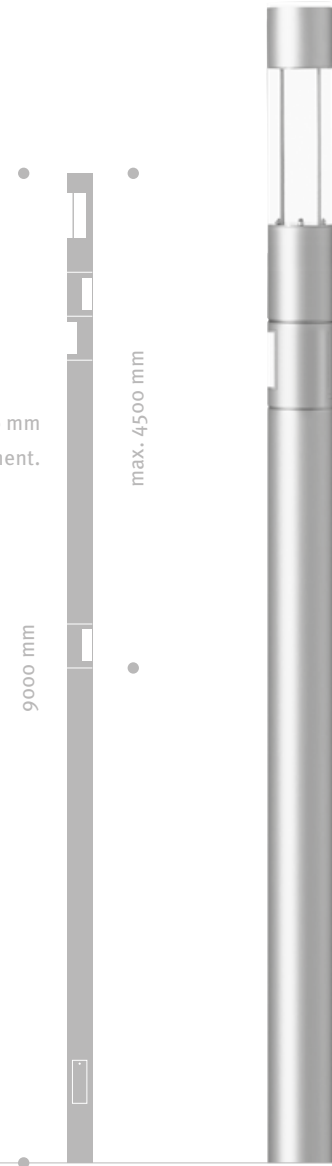


Product information  
[www.hess.eu/3400](http://www.hess.eu/3400)

Hess columnar lighting system with top, base and, if required, intermediate extension elements. Constructed from round aluminium section. 230 mm diameter, for a maximum height of 9 m. All of the elements pivot through 360°. Colour: DB 703.

For a total height of 3500 mm, the embedded base's required length is 600 mm. If the total height is 6000 mm, a 800-mm embedded base is necessary. Heights up to 8000 mm require embedded bases with 1000-mm length, and up to 9000 mm high columns should have 1200-mm long embedded bases.

From Base Element connection max. 4500 mm  
until ending of Top Element.



## CITY ELEMENTS 230 AA Top Element



Aluminium and PMMA housing construction with 230-mm diameter, 900-mm length and 120° shielding. Element is for asymmetric area or street lighting. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

Options: Night economy feature with or without control lead. DALI dimming and special forms. Anti-glare enclosure.

## CITY ELEMENTS 230 AR Top Element



Aluminium and PMMA housing construction with 230-mm diameter, 900-mm length or longer on request and side access hatch. Includes optical system for rotationally symmetric area or street lighting. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

Options: Night economy feature with or without control lead. DALI dimming and special forms. Anti-glare enclosure.

## CITY ELEMENTS 230 AS Top Element



Cast aluminium housing with 230-mm diameter, 325-mm length, access hatch and clear mineral glass side enclosure. Colour: DB 703.

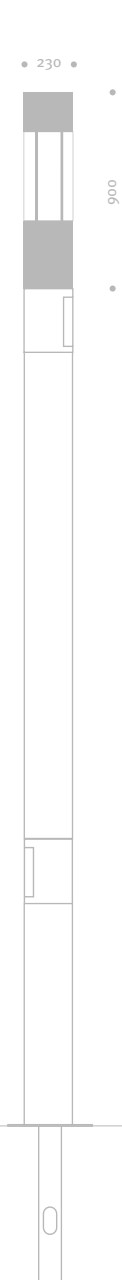
◆💧💧 Ingress protection IP65 · Safety class I or II · CE NOTE: Symmetric and asymmetric reflectors available for LED.

Options: Spread lens.

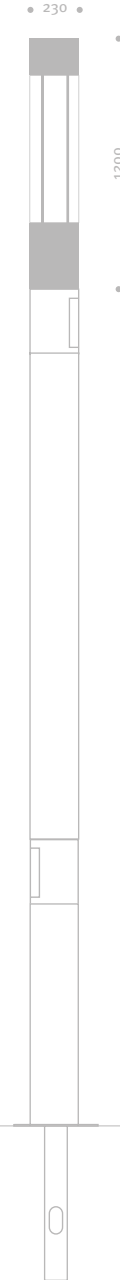
230 AA Top Element



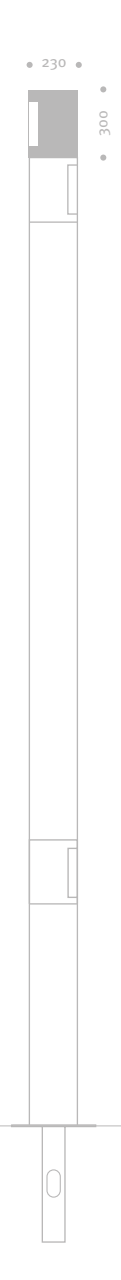
230 AR Top Element



230 AR Top Element



230 AS Top Element



## CITY ELEMENTS 230 BS300 Intermediate Element



230-mm diameter aluminium housing with clear mineral glass side enclosure, side access hatch and 300-mm length. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

NOTE: Symmetric and asymmetric reflectors available for LED.

Options: Spread lens.

## CITY ELEMENTS 230 BK Intermediate Element



Constructed from round aluminium section, ready to accommodate a Bosch AutoDome 7000 Series Intelligence PTZ camera or comparable.

Camera field of view is 240° and the element's length is 1500 mm. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

NOTE: Only mounts to CRK base element. No other BS Elements possible below. 900 mm can be positioned above.

## CITY ELEMENTS 230 BPR Intermediate Element



Intermediate projector element for facade or ground display includes extra long access hatch for added convenience, projector unit, customer-specified gobo motif.

Length is 900 mm and diameter is 230 mm. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

NOTE: May be used with AR, AA or APR top elements, but a maximum of 3 projector elements are possible per column. Planning configuration and combining of the projector elements only with Hess' assistance.

## CITY ELEMENTS 230 BHS Intermediate Element



230-mm diameter aluminium housing with clear mineral glass side enclosure. Customer-specified lengths must exceed minimum of 600 mm and are to span the height required to reach the top element's specified mounting height. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

Options: Element extensions in 300-mm increments. Spread lens.

NOTE: Symmetric and asymmetric reflectors available for LED.

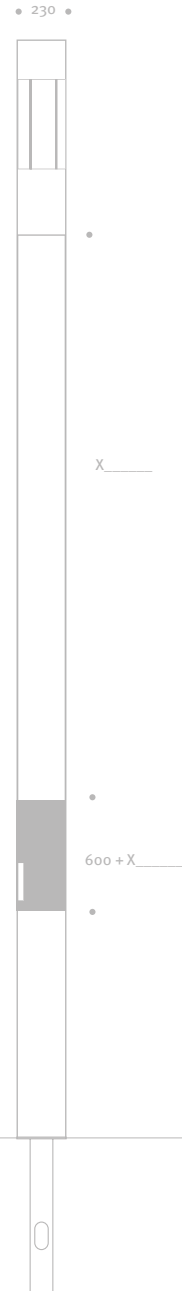
230 BS 300 Intermediate Element



230 BK Intermediate Element



230 BHS Intermediate Element



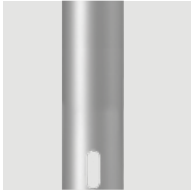
### CITY ELEMENTS 230 CR 04 Base Element



Constructed from 230-mm diameter round aluminium section and comes with access opening and C-channel to accommodate junction box provided by others. Element length is minimum 800 mm above grade. Attaches on the exterior via welded-on flange. Fits to separate galvanised steel embedded base CR 02. Colour: DB 703.

Options: Base element extensions in 100-mm increments. Fitting for Christmas lighting.

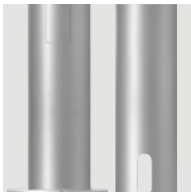
### CITY ELEMENTS 230 CR03 Base Element



Constructed from 230-mm diameter round aluminium section and comes with access opening and C-channel to accommodate junction box provided by others. Element length is minimum 800 mm above grade. Anchors via integral embedded base. Embedded base length may be 600, 800, 1000 or 1200 mm, depending on specific static requirements. Colour: DB 703.

Options: Base element extensions in 100-mm increments. Fitting for Christmas lighting.

### CITY ELEMENTS 230 CRVE/CRVW 04 + 03 Base Element

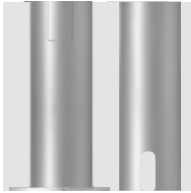


Constructed from 230-mm diameter round aluminium section. Comes with access opening for a junction box provided by others and a door for the supply unit. Element length is min. 1300 mm above grade, painted. Attaches on the exterior via welded-on flange with CRV 02/04. Separate galvanised steel embedded base. Anchors via integral embedded base with CRV. Embedded base length: 600, 800, 1000 or 1200 mm depending on static load requirements according to the total height of the column. Colour: DB 703.

\* Power supply with CRVE: Door with cable outlet and safety lock for second access door. Operation with closed door.

Options: Base element extensions in 100-mm increments. Fitting for Christmas lighting.

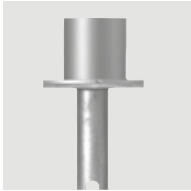
### CITY ELEMENTS 230 CRK 04 + 03 Base Element



Constructed from 230-mm diameter round aluminium section. For a total column height of 9000 mm. The element height is customer specific, however, min. 2500 mm, painted. With cable routing for the camera element. Comes with access opening for a junction box provided by others. Attaches on the exterior via welded-on flange with CRK 02/04. Separate galvanised steel embedded base. Anchors via integral embedded base with CRK 03. Embedded base length: 800, 1000 or 1200 mm depending on static load requirements according to the total height of the column. Colour: DB 703.

Options: Base element extensions in 100-mm increments.

### CITY ELEMENTS 230 Co5 Base Element



230-mm round aluminium section with flange plate. Minimum element height is 150 mm. Top elements attach via interior hardware in the base element. Includes separate 600-mm long galvanised steel embedded base. Colour: DB 703.

### CITY ELEMENTS 230 Co7 Base Element



150-mm long, 230-mm diameter round aluminium section with integral 600-mm through embedded base and two cable openings. Top elements attach via interior hardware in the base element. Colour: DB 703.

### CITY ELEMENTS 230 Co8 Base Element



230-mm round aluminium section with flange plate. Minimum element height is 150 mm. Top elements attach via interior hardware in the base element. Colour: DB 703.

### CITY ELEMENTS 230 Separate Order Item: CR02/CRV02/CRK02 Embedded Base



Separate galvanised steel embedded base for 230 CR04/CRV04/CRK04. Includes bolts for mounting and two cable openings.

230 CR04 Base Element

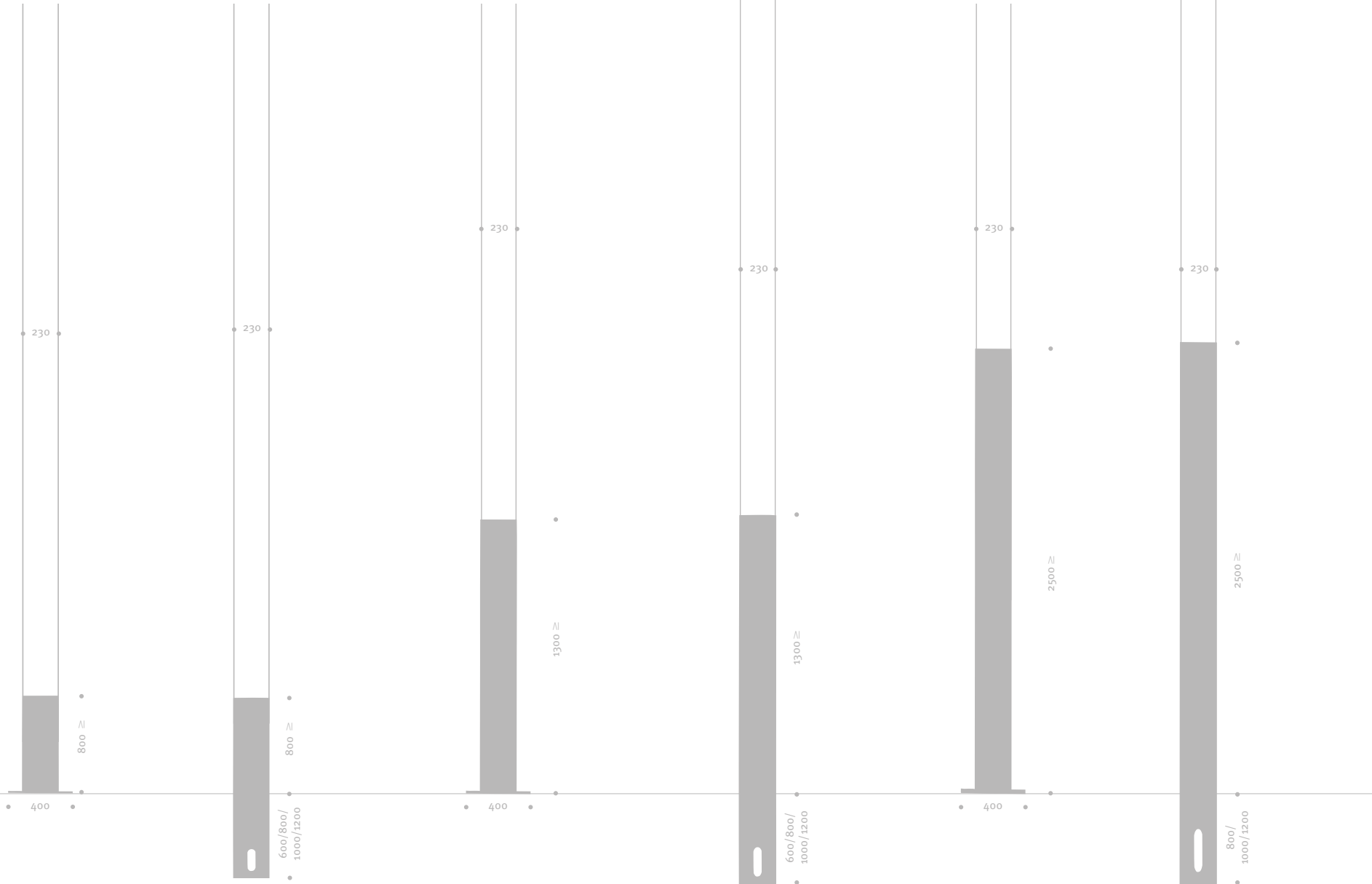
230 CRV04 Base Element

230 CRK04 Base Element

230 CR03 Base Element

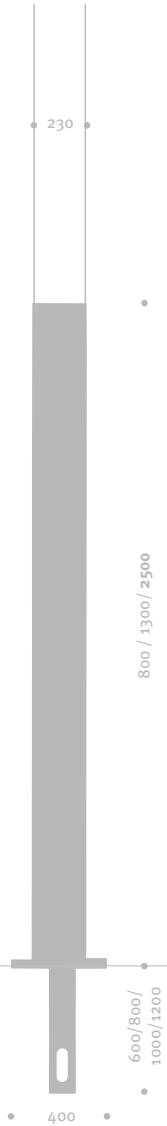
230 CRV03 Base Element

230 CRK03 Base Element





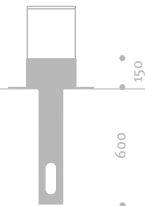
CR02/04  
Base Element



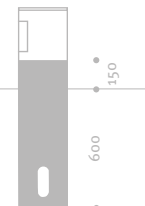
230 CR02/CRV02/CRK02  
Embedded Base



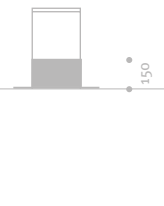
230 Co5 Base Element



230 Co7 Base Element



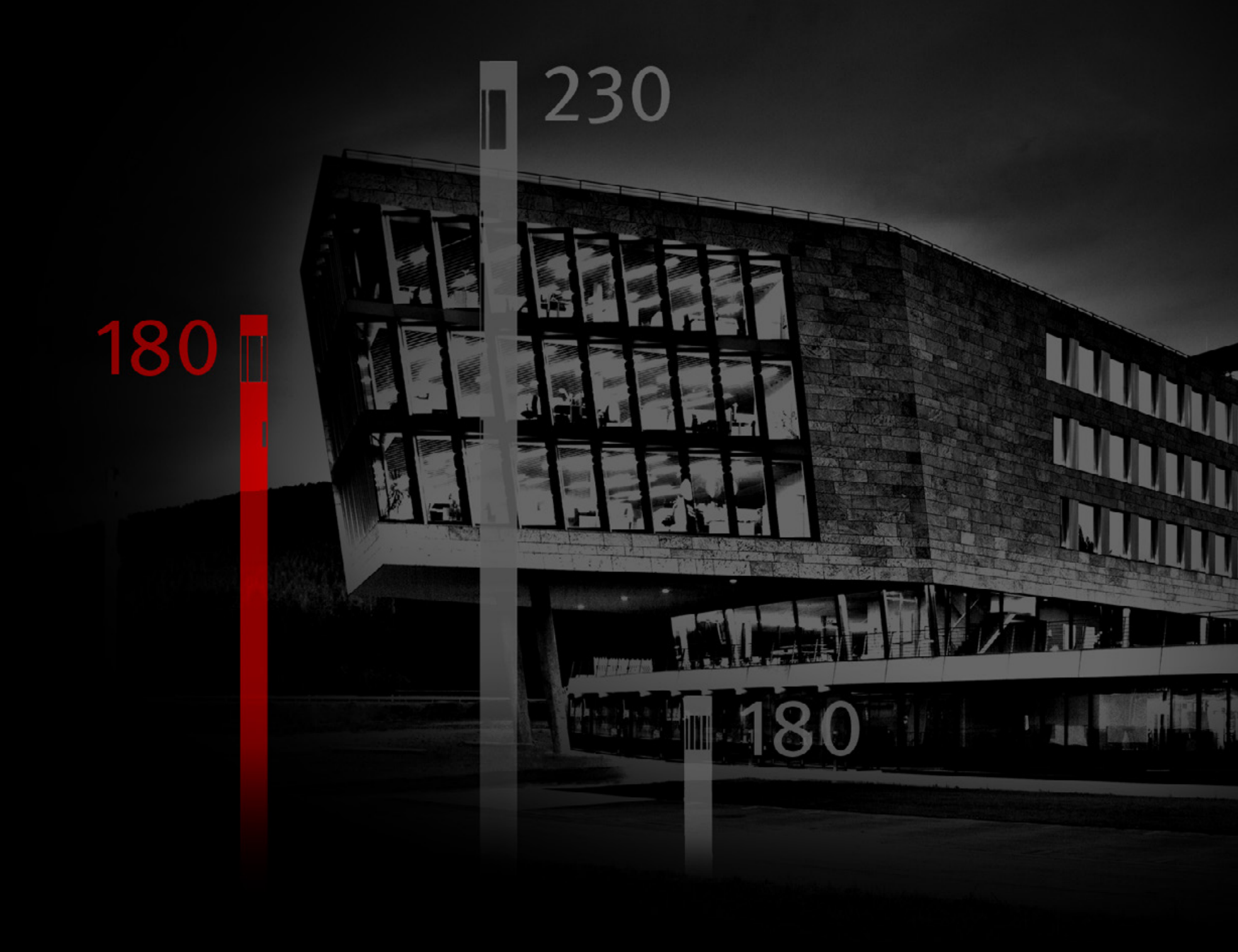
230 Co8 Base Element



230

180

180



# CITY ELEMENTS 180



Product information  
[www.hess.eu/3400](http://www.hess.eu/3400)

Hess columnar lighting system with top, base and, if required, intermediate elements.  
Constructed from 180-mm round aluminium section for a maximum length of 6000 mm  
and a maximum total wattage of 300 W. All elements horizontally pivot through 360°.  
Colour: DB 703.

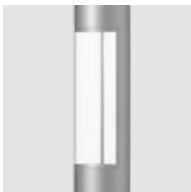
From Base Element connection max. 2000 mm  
until ending of Top Element.

6000 mm

max. 2000 mm



## CITY ELEMENTS 180 AA Top Element

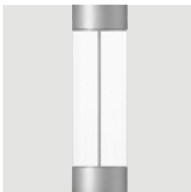


Aluminium and PMMA luminaire construction with 180-mm diameter, 800-mm length and 120° shielding. Element is for asymmetric area or street lighting with shield. Does not include access hatch. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

Options: Night economy feature with or without control lead. DALI dimming and special forms.

## CITY ELEMENTS 180 AR Top Element



Aluminium and PMMA luminaire construction with 180-mm diameter and 800-mm length. Element is for rotationally symmetric area or street lighting. Does not include access hatch. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

Options: Night economy feature with or without control lead. DALI dimming and special forms.

## CITY ELEMENTS 180 AS Top Element



Aluminium housing with 180-mm diameter, 400-mm length, clear plastic side enclosure and access hatch. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

NOTE: Symmetric and asymmetric reflectors available.  
Options: Spread lens.

## CITY ELEMENTS 180 BS400 Intermediate Element



Aluminium housing with 180-mm diameter, 400-mm length, clear plastic side enclosure and access hatch. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

NOTE: Symmetric and asymmetric reflectors available.  
Options: Spread lens.

180 AA Top Element



180 AR Top Element



180 AS Top Element



180 BS 400  
Intermediate Element



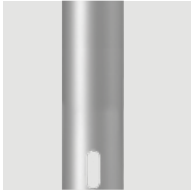
### CITY ELEMENTS 180 CRo4 Base Element



180-mm round aluminium section with access opening and C-channel to accommodate junction box provided by others. Element height is minimum 1200 mm above grade. Attaches on the exterior via welded-on flange. Fits to separate galvanised steel embedded base CR o2. Colour: DB 703.

NOTE: Flange plate welded on to pole for anchoring.  
Options: Base element extensions in 100-mm increments. Fitting for Christmas lighting.

### CITY ELEMENTS 180 CRo3 Base Element



Constructed from 180-mm round aluminium section and suitable for columns with total above grade height of 6000 mm. Element height to be specified by customer and exceed 1200 mm. Anchors via 800-mm long separate galvanised steel embedded base with two openings for electrical cables. Includes access door and C-channel for junction box. Colour: DB 703.

NOTE: Anchors via integral embedded base  
Options: Base element extensions in 100-mm increments. Fitting for Christmas lighting.

### CITY ELEMENTS 180 CRVo4 Base Element

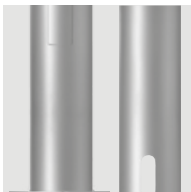


Constructed from 180-mm diameter round aluminium section. Comes with access opening for a junction box provided by others and a door for the power supply. Element height is minimum 1700 mm above grade. Attaches on the exterior via welded-on flange. Fits to separate galvanised steel embedded base CRV o2. Colour: DB 703.

\* Power supply: Second access door with cable outlet and safety lock for closed door operation.

Options: Base element extensions in 100-mm increments. Fitting for Christmas lighting.

### CITY ELEMENTS 180 CRKo4 + o3 Base Element



Constructed from 180-mm diameter round aluminium section. For a total column height of 6000 mm. The element height is customer specific, however, min. 2500 mm, painted. With cable routing for the camera element. Comes with access opening for a junction box provided by others. Attaches on the exterior via welded-on flange with CRK o2/o4. Separate galvanised steel embedded base. Anchors via integral embedded base with CRK o3. Embedded base length: 800 mm. Colour: DB 703.

Options: Base element extensions in 100-mm increments. Fitting for Christmas lighting.

## CITY ELEMENTS 180 CRV03 Base Element



Constructed from 180-mm diameter round aluminium section. Comes with access opening for a junction box provided by others and a door for the power supply. Element height is minimum 1700 mm above grade. Anchors via integral embedded base. Colour: DB 703.

Options: Base element extensions in 100-mm increments. Fitting for Christmas lighting.

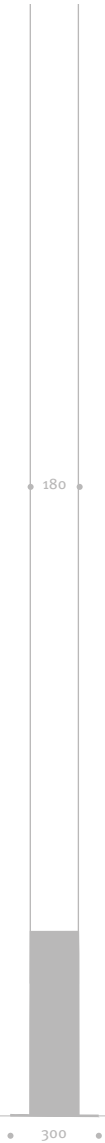
\* Power supply: Second access door with cable outlet and safety lock for closed door operation.

## CITY ELEMENTS 180 Separate Order Item: CR 02/CRV02 Embedded Base



CR02/CRV02 is a 800-mm long separate galvanised steel embedded base. Includes bolts for mounting and two cable openings. Fits to CR 04 and CRV 04, CRK 04.

180 CRo4 Base Element



180 CRVo4 Base Element



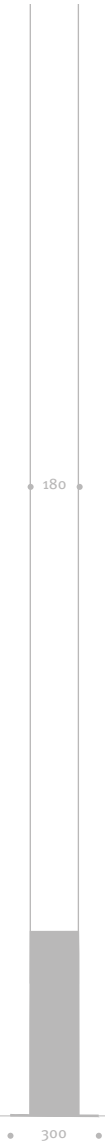
180 CRo2/CRVo2 Embedded Base



180 CRo3 Base Element

180 CRVo3 Base Element

180 CRo2/o4 Base Element



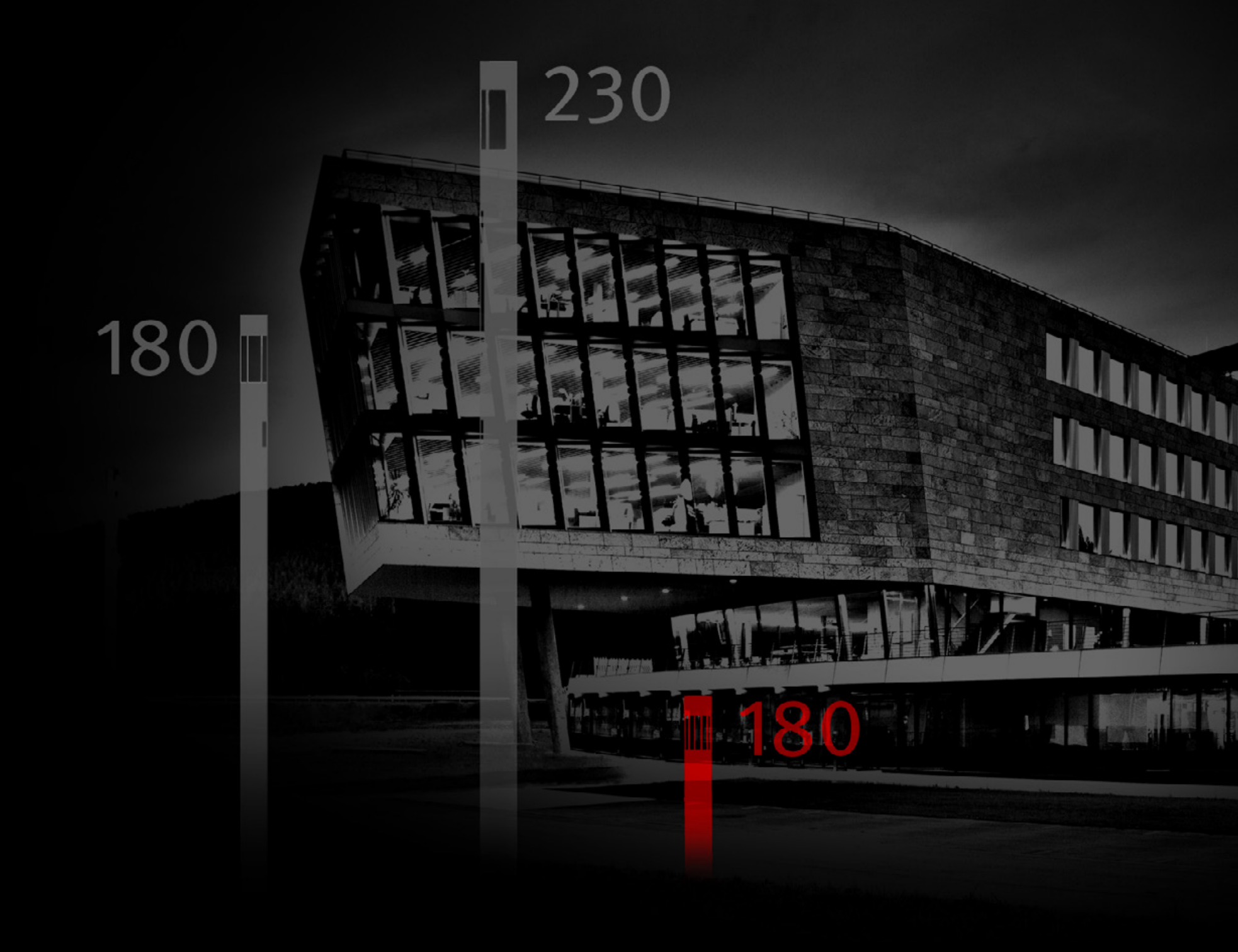




230

180

180



# CITY ELEMENTS 180 ILLUMINATING BOLLARD



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Product information  
[www.hess.eu/7510](http://www.hess.eu/7510)

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Hess illuminating bollard manufactured from 180-mm diameter round aluminium section.  
Total height of 1200 mm. Colour: DB 703.



### CITY ELEMENTS 180 P-AA02/04 Illuminating Bollard



1200-mm high bollard housing constructed from 180-mm diameter round aluminium section. Aluminium top with clear PMMA side enclosure. Includes asymmetric optics, shield and access opening. Attaches on the exterior via welded-on flange. Fits to separate galvanised steel embedded base CR 02. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

Options: Safety class II. Separate embedded base.

### CITY ELEMENTS 180 P-AA03 Illuminating Bollard



1200-mm high bollard housing constructed from 180-mm diameter round aluminium section. Aluminium top with clear PMMA side enclosure. Includes asymmetric optics, shield, access opening and through embedded base. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

Options: Safety class II.

### CITY ELEMENTS 180 P-AR02/04 Illuminating Bollard



1200-mm high bollard housing constructed from 180-mm diameter round aluminium section. Aluminium top with clear PMMA side enclosure. Includes rotationally symmetric optics and access opening. Attaches on the exterior via welded-on flange. Fits to separate galvanised steel embedded base CR 02. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

Options: Safety class II. Separate embedded base.

### CITY ELEMENTS 180 P-AR03 Illuminating Bollard



1200-mm high bollard housing constructed from 180-mm diameter round aluminium section. Aluminium top with clear PMMA side enclosure. Includes rotationally symmetric optics and access opening. Colour: DB 703.

◆💧💧 Ingress protection IP65 · Safety class I or II · CE

Options: Safety class II.

### CITY ELEMENTS 180 Separate Order Item: P-AA 02 / P-AR 02 Embedded Base



180 P-AA 02 / P-AR 02 is a 600-mm long separate galvanised steel embedded base. Includes bolts for mounting and two cable openings.

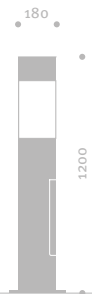
180P-AA04  
Illuminating Bollard



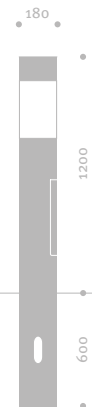
180P-AA03  
Illuminating Bollard



180P-AR04  
Illuminating Bollard



180P-AR03  
Illuminating Bollard



180P-AA/P-AR02  
Embedded Base







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