

SITE FURNISHINGS

.hess

1	TREE GRATES	42
2	TREE GUARDS	98
3	BENCHES	118
4	WASTE RECEPTACLES	148
5	BICYCLE RACKS	162
6	BARRIER SYSTEMS	178
7	POWER/WATER BOLLARDS	202
8	PLANTERS	222
9	TECHNICAL INFORMATION	236

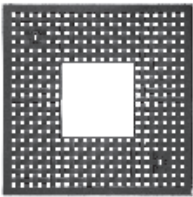
CONTENTS

PRODUCT OVERVIEW

1

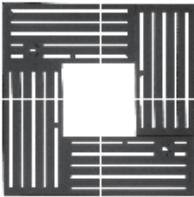
TREE GRATES

REGULUS



48

OCTA



52

SERPO Q



58

2

TREE GUARDS

FANO



100

SCULPO R . Q



102

METOR R . Q



104

ALGARVE R . RK . Q



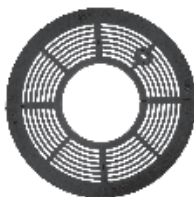
106

SERPO R



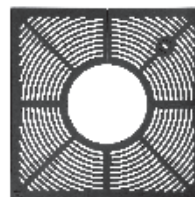
64

BELVEDERE



70

CONCORD



76

3

BENCHES

VAREDO



120

CORVUS



124

4

WASTE RECEPTACLES

VAREDO



150

CARPO



152

PUNTO



154

CASTELLO



128

AURIGA



132

POSITANO



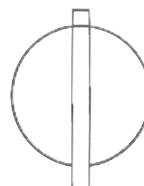
136

VAREDO



164

CERES



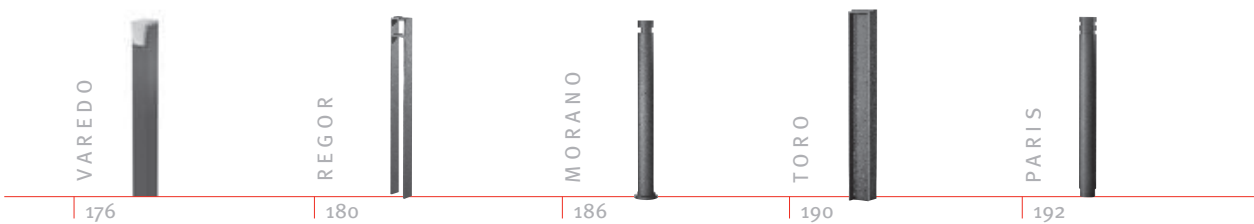
166

5

BICYCLE RACKS

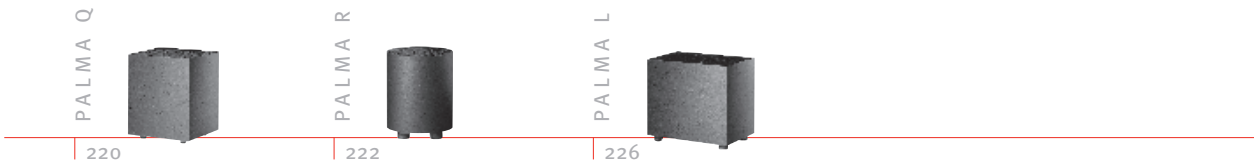
6

BARRIER SYSTEMS



8

PLANTERS



7

POWER/WATER BOLLARDS





HESS – WE DESIGN CITIES

Thanks to an extremely varied range of luminaires, Hess is able to fulfil every lighting design requirement in outdoor public spaces, as well as illuminating buildings both inside and out. Perfectly matching, high-quality street and site furnishings complete the product portfolio.

Light and form are part of our company name, and thus firmly anchored in our corporate philosophy and our very genes. Hess stands for the very best lighting solutions and an unparalleled expression of design. The combination of light and form is what makes our products unique.

Combining lighting and furnishings to optimum effect allows **integrated concepts** and **special customised solutions** to be implemented across urban and outdoor spaces in line with our slogan „Designing cities“.

Hess is a leading international brand built on a **design-led blend of innovation and tradition**. We support and assist architects, planners, cities, municipalities and building owners from the planning stage through to installation – throughout Europe and beyond.

With the main factory located in Villingen-Schwenningen (Germany), there are also manufacturing operations in Gaffney, South Carolina (USA). Hess has been a subsidiary of the Nordeon Group since 1 October 2013.

Our focus on high-quality materials, traditional craftsmanship and independent stylistic elements results in designs of distinction, day after day. Uniquely made by Hess.

Hess. Designing cities.

Bench . CORVUS
Luminaire . CITY ELEMENTS
Tree grate . OCTA
Spot projector . RAVENNA . SEDI

PERFECT LIGHTING

Lighting provides security, helps people to find their way and creates atmosphere. Light also promotes a sense of well-being.

These days, lighting is a key factor when it comes to improving people's living environments and quality of life. Lighting allows cities, towns and communities to differentiate themselves and to enhance their attractiveness.

Building on decades of experience and expertise, we provide lighting for any purpose, occasion and place.

The very best lighting.

Lighting by Hess.





LIGHT AND TECHNOLOGY

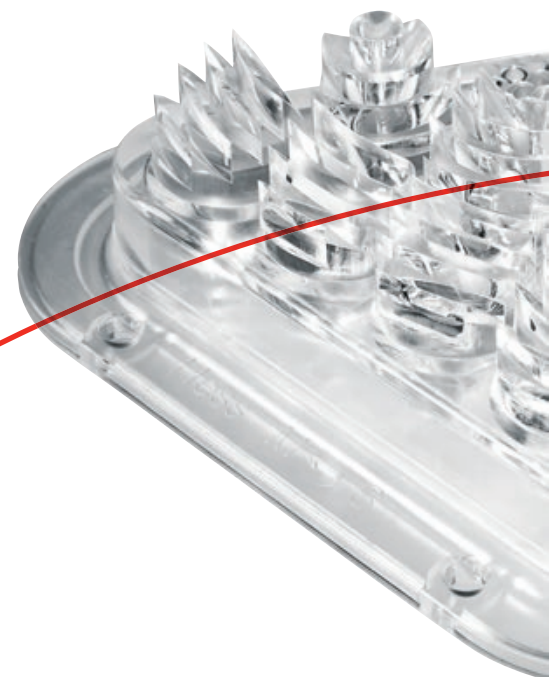
Hess delivers efficiency in the most attractive form. LED luminaires by Hess **consume less power** and thereby reduce CO₂ emissions along with energy costs. Economy is also considerably improved by the long service life of products and low maintenance expense.

We are able to achieve the desired lighting result through ingenious design and **optimum optical light control**.

Hess LED products are state of the art, offering low glare and good thermal management. We have also separated LED technology from optical light control. This allows luminaires to be effortlessly upgraded to meet the latest technical standards, while simultaneously keeping costs and effort low. It also takes into account the very short cycles of innovation associated with LED illuminants.

Our optimised reflector technology supports **conventional luminaires** and energy-efficient operation.

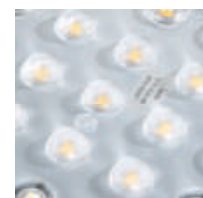
Hess provides lighting to suit every situation and requirement. The very best lighting.





LEVO

From streets to squares, from illuminating columns to pole top mounted or bracket mounted luminaires – by deploying special lenses and arranging LEDs in multiple configurations, the LEVO module is highly flexible and complies with a range of lighting classes.



LEVO Q

High-performance cluster LEDs on an interchangeable carrier. The reflector and prismatic glass are separate components which distribute and direct the light in an even, precise and glare-free way.



RAP MODULE

The RAP module from OSRAM combines pioneering LED technology with forward-looking lighting to meet the highest standards. Hess luminaires combined with the OSRAM LED module are ideal for a host of lighting requirements on streets, squares and pedestrian crossings.



XICATO

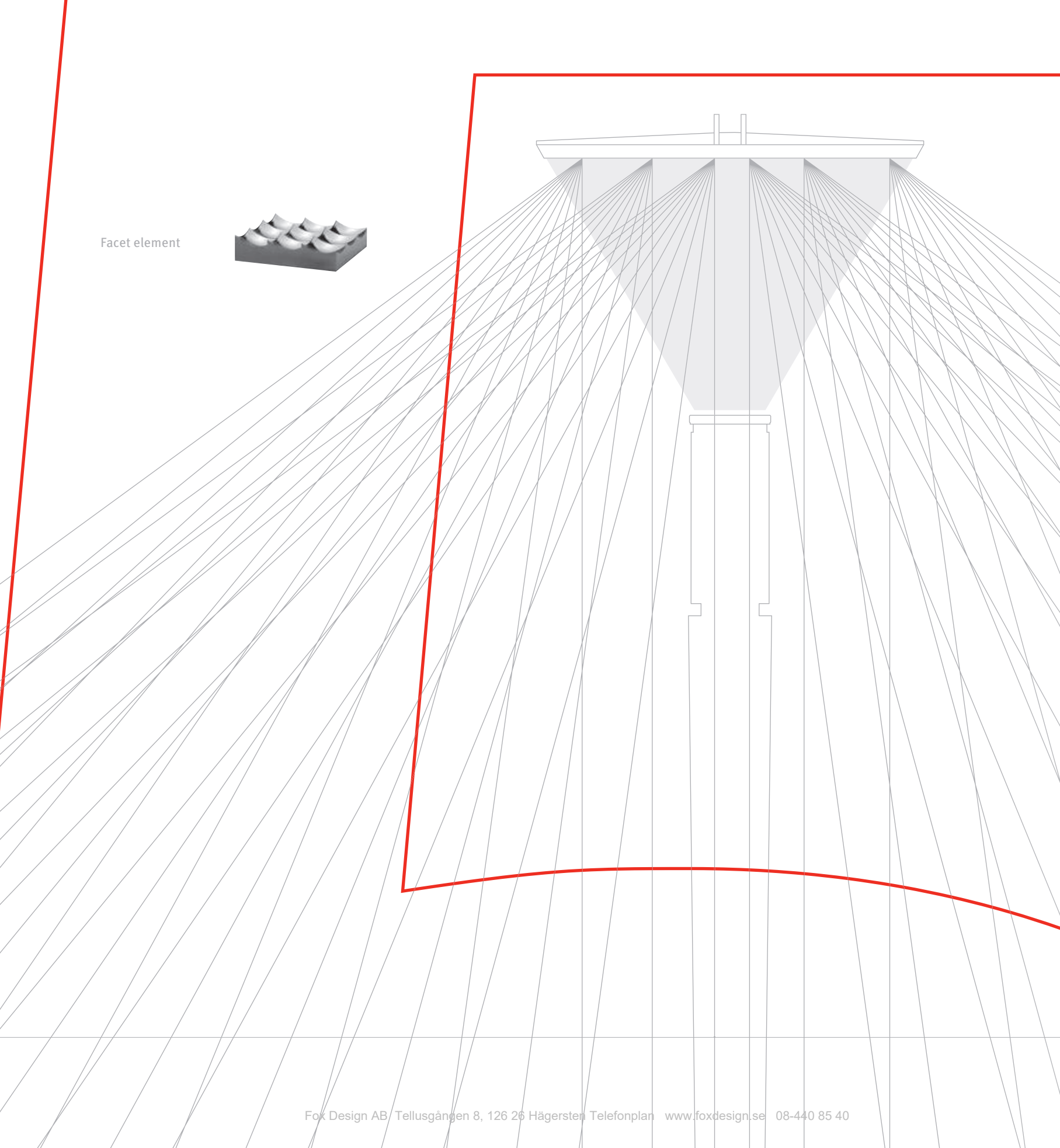
XICATO is a high-performance LED module. The special remote phosphor technology behind it ensures superior characteristics, such as very high colour fidelity, for example, throughout the product's service life. Superior colour rendering is a distinctive feature here, with a colour rendering index (CRI) of 80+.



cLED EASY

LED retrofit modules for heritage luminaires. Thanks to the bulb optics and warm light colour, these modules fit harmoniously into historic Old Town districts and make it easy to replace the mercury-vapour lamps, which are often still in use. Heritage lighting made by other manufacturers can also be converted using cLED easy.

Facet element





LIGHT BEAM IMAGE SPLITTING

GLARE - FREE

High illumination levels almost without glare are made possible by the principle of **light beam image splitting**. Light from one or more floodlights is directed onto a mirrored surface containing many individual mirror facets. The mirrored surface acts as a secondary reflector and distributes light onto the area for illumination very evenly and in a targeted way.

MULTI - FACETED

In order to illuminate a street or square to perfection, mirrored surfaces are fitted with **various facet shapes**. Similar facet shapes can also be used in different ways to focus light onto the mirrored area.

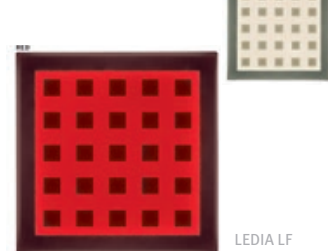
BRILLIANT

The fronts of special plastic facet are metallised using **pure aluminium**. As a result, the light does not need to pass through diffuse plastic. This increases efficiency and the precision of light direction. A multi-layer protective seal gives the mirrored surface its rugged quality.

CUSTOMISED

VEDO and FARO luminaires make **customised solutions** possible in various lighting situations – from small or large squares to combined square and street lighting, as well as illumination for roads and footpaths. Additional illumination is available for building facades.





DIFFERENT BY DESIGN

For atmosphere, structure and illumination. From arcades to squares and water features. Our illuminating strips and tiles help to create atmosphere, provide structure and produce impressive illuminations. **Areas** can be clearly differentiated with their **own structure** and **design characteristics**.

IDEAL SOLUTION

A suitable set for every type of building. Different kinds of buildings require different illumination solutions, which may be either horizontal or vertical in alignment. Hess provides the ideal solution for **illuminating** and **accentuating** any building.

SCOPE FOR CREATIVITY

LEDs open up a **wider range of creative options** when it comes to architectural lighting. Small, efficient, long-lasting and requiring virtually zero maintenance, they are available in various shades of white or controllable colour.

Hess LED lighting effects are more than just a decorative element.

LEDIA LL



HESS SHOWPLACES – NOTHING IS MORE COMPELLING THAN REALITY

We are well aware that paper is a forgiving medium.
That is why our two sites in Villingen and Gaffney both include a showplace.

These locations bring lighting to life. Prepare to be inspired
by the design, quality and diversity of our luminaires and site furnishings.

We look forward to welcoming you.

Hess showplaces – bringing light to life





VAREDO Street lighting

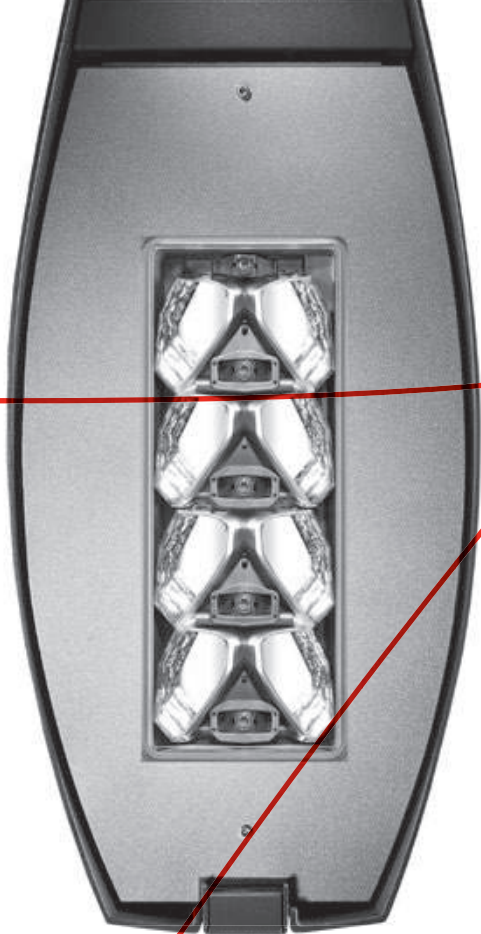
PERFECT COMBINATION

Luminaires and site furnishings

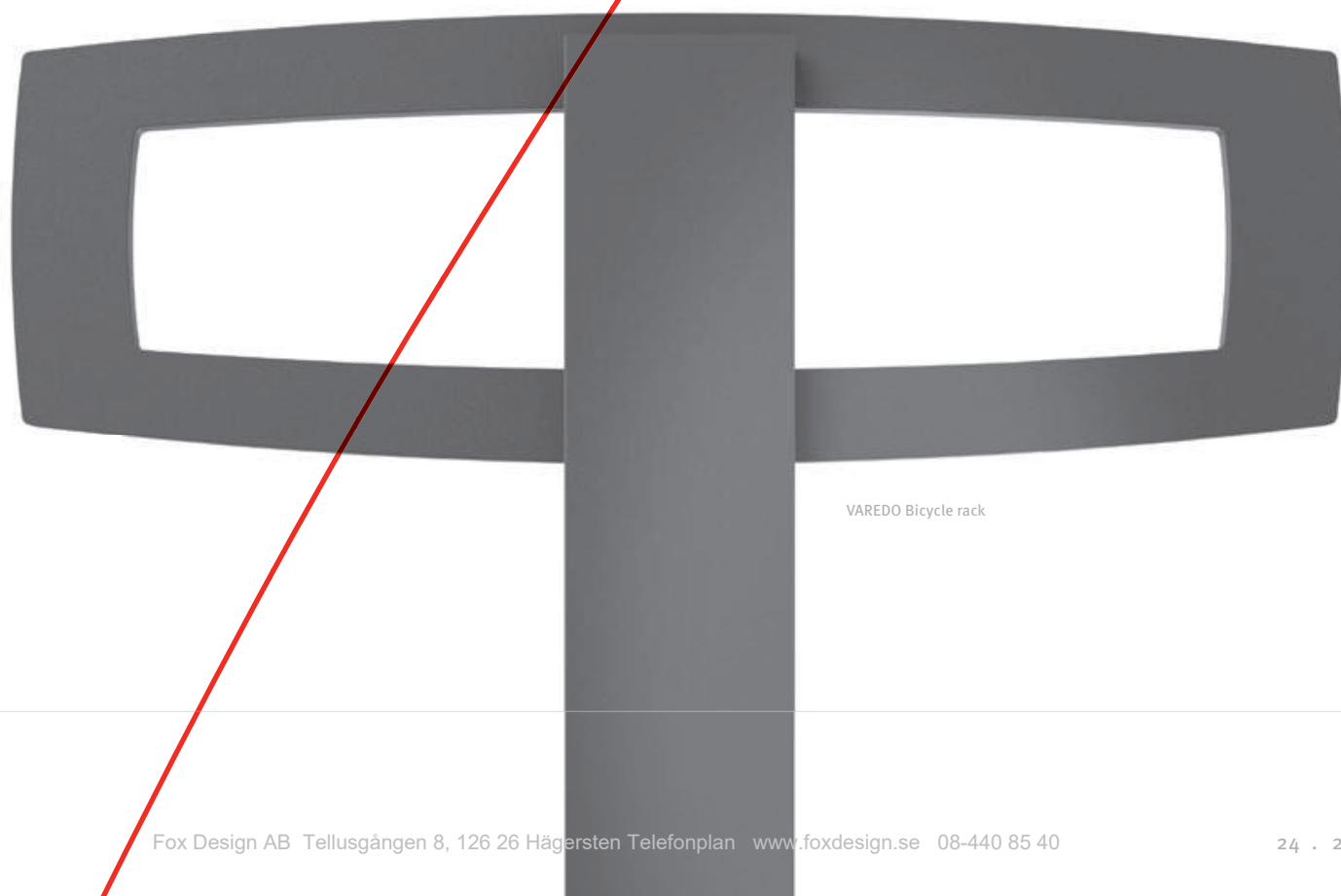
By combining luminaires and site furnishings in the ideal way, we facilitate integrated solutions and a holistic approach to the design of urban spaces.

Our customised solutions are perfect for creating individual looks.

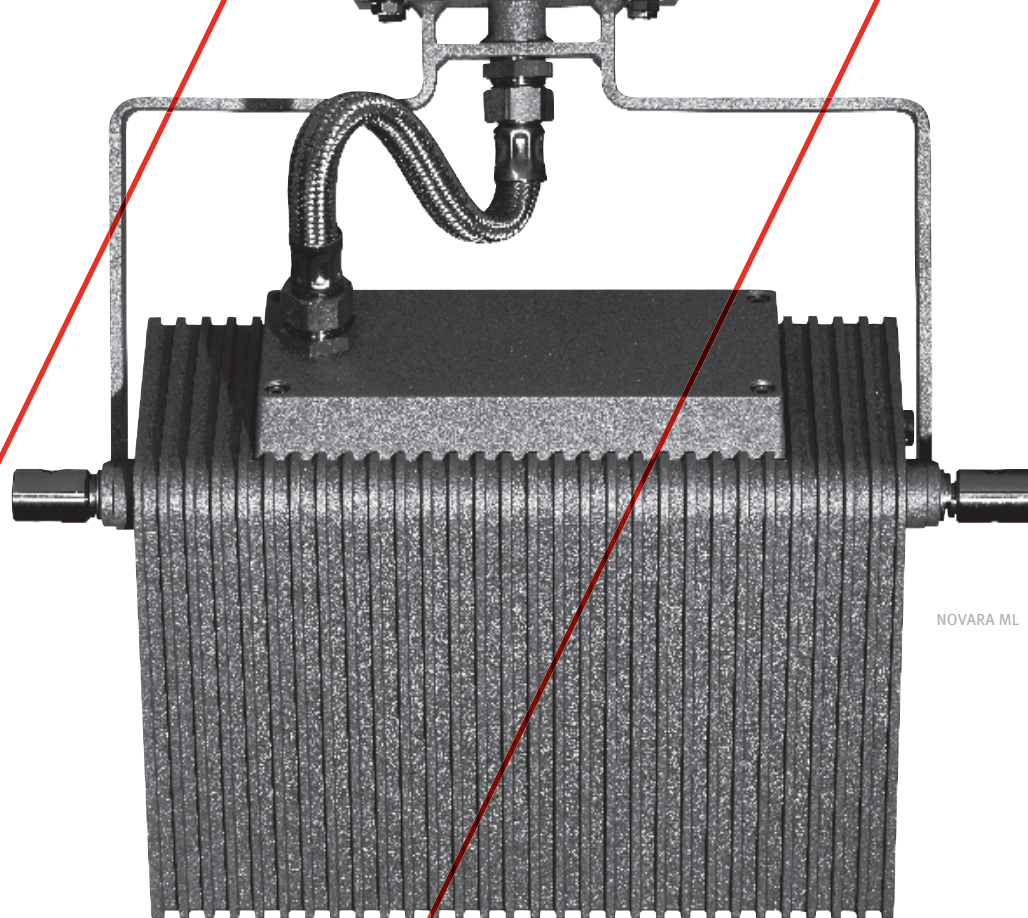
Hess. Integrated. Customised.



SERA Street lighting



VAREDO Bicycle rack



STYLE ELEMENTS

Hess products are unparalleled in terms of their expression of design, look and feel.

We work closely with **selected designers** to develop luminaires and street and site furnishings for creating urban spaces. Our luminaires and site furnishings last for decades.

Hess products are able to withstand even the toughest conditions for long periods of time. Because we select and work with **high-quality materials**, our products have a typical Hess look featuring an unparalleled finish.

Sophisticated processing techniques ensure the best possible resistance to weather conditions and corrosion. Comprehensive product families are available in a range of different sizes, offering the perfect solution for any application. Ideal form, ideal proportions.

Hess. Exclusive design and quality.



CORVUS



HESS. A FULL-SERVICE, CONTEMPORARY PROVIDER

Hess is a **turnkey solution provider**, delivering the perfect combination of luminaires and suitable site furnishings for designing urban spaces.

Efficient lighting solutions stem from an integrated lighting design process. Our specialists assist with the necessary lighting calculations and are able to advise on choosing the right illuminant, reflector and control system for both outdoor and indoor applications.

Using our proprietary optical systems we will divert light to where you want it and to where it is needed. Precisely and effectively.

We are your expert, one-stop partner for all lighting solutions.
Hess. From the planning stage through to implementation.
From idea to finished product.

Hess. Customer focus par excellence.



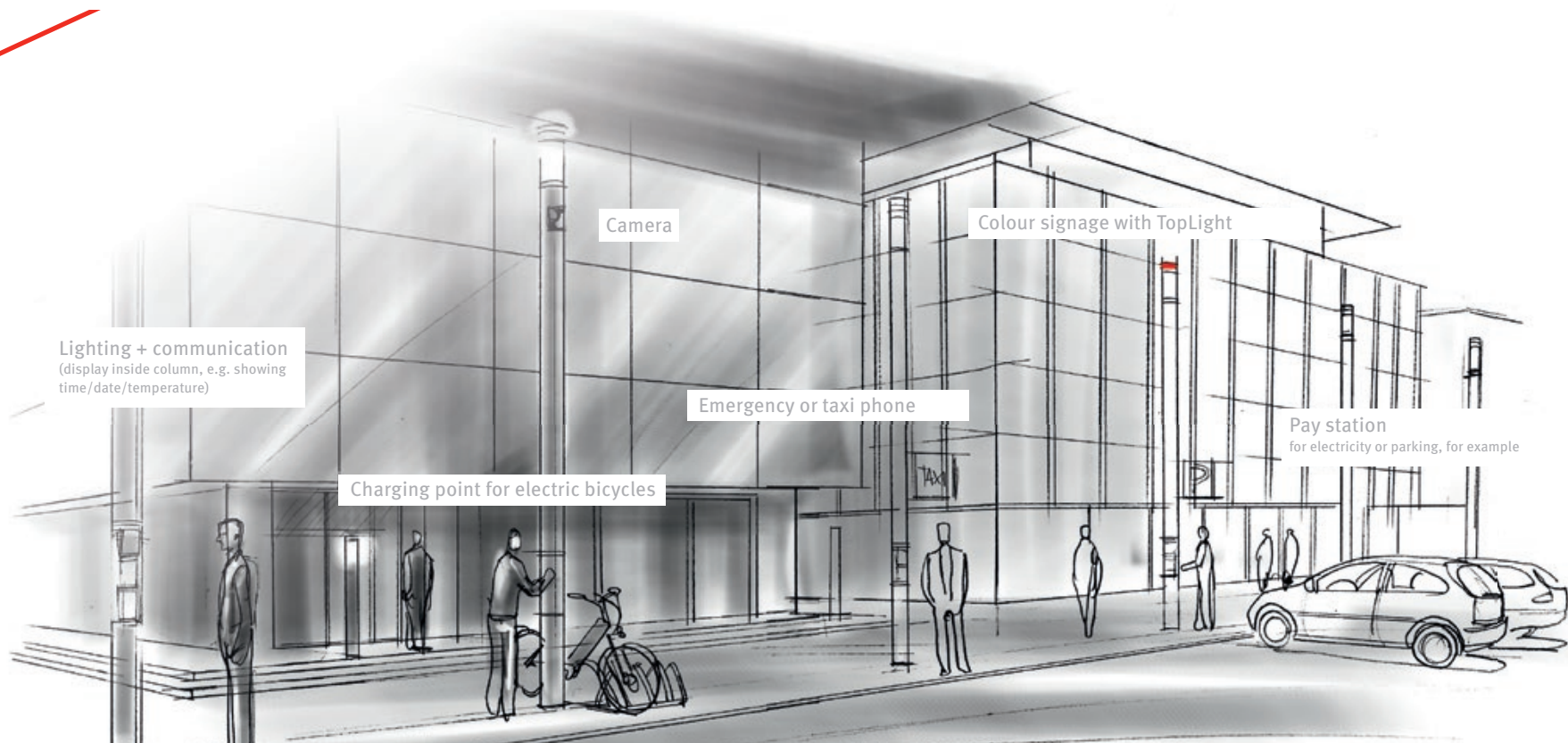


HESS COMBINES FORM AND FUNCTION – WITH CITY ELEMENTS

City Elements offer architects and urban planners a comprehensive lighting system to answer virtually every lighting need and more.

Because the **individual elements** can be **combined** as desired, the system **enables** a variety of **supply options**. Solutions include water supply, CCTV cameras and other inner-city requirements. The supply of power is, of course, a further possibility to meet the rising demand for e-mobility.

With two different column diameters and variable heights up to 9 m, City Elements work with existing proportions and fit perfectly into the urban environment.

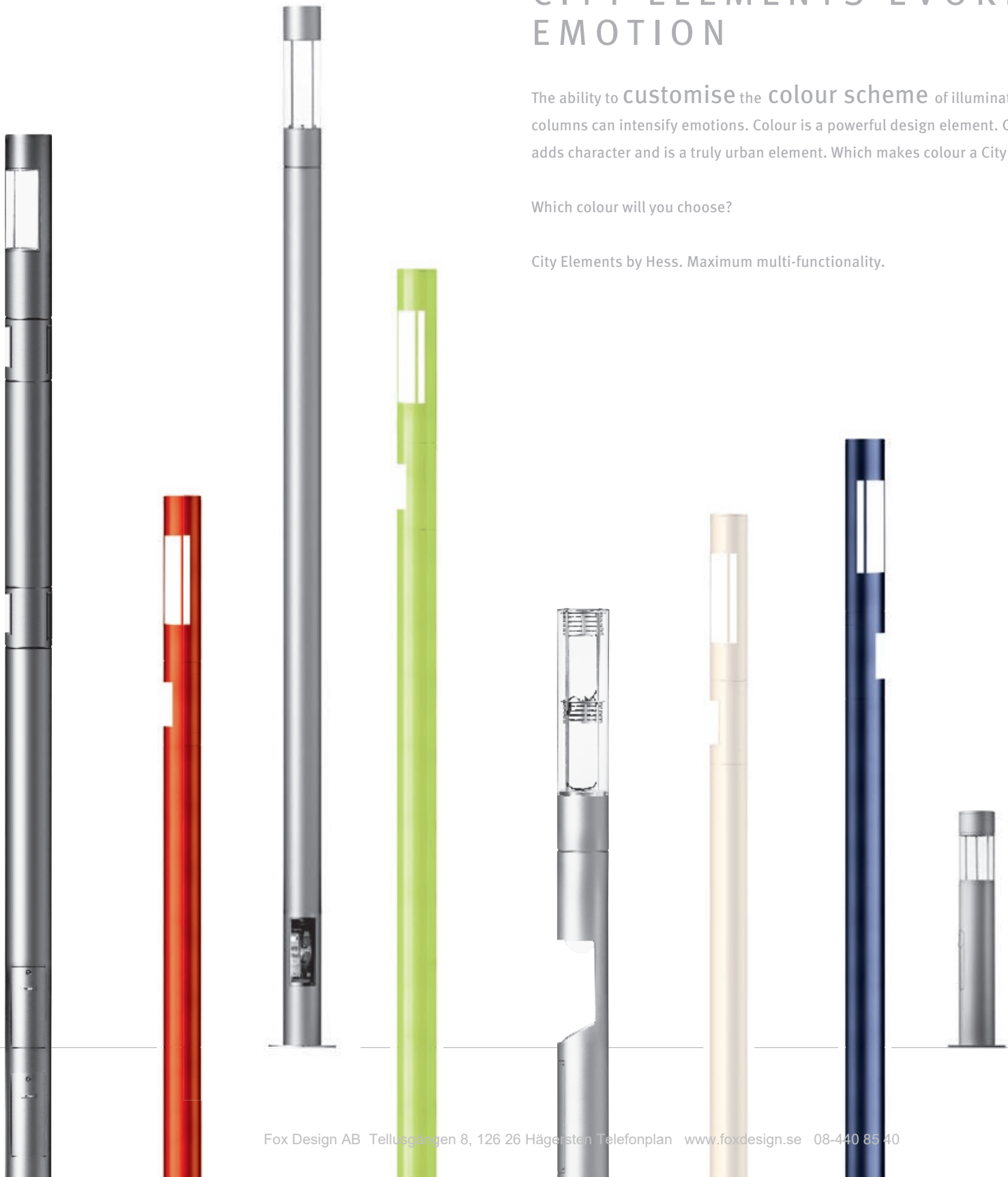


CITY ELEMENTS EVOKE EMOTION

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 multi-functionality.



VAREDO – BY HESS

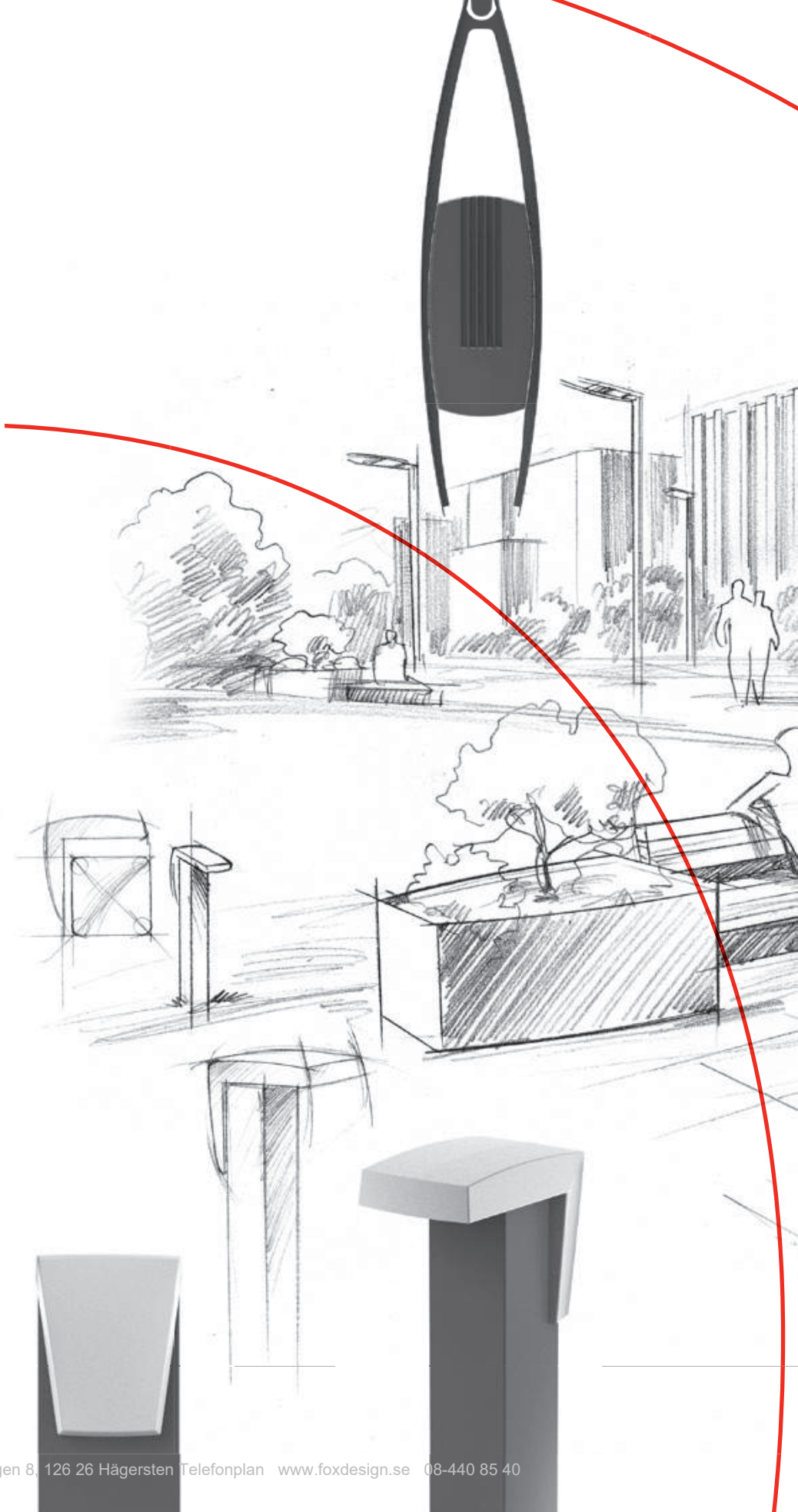
In the shape of VAREDO, we have created an entirely new generation of luminaires and site furnishings. A generation of solutions that gives landscape architects and lighting designers maximum freedom when arranging urban spaces.

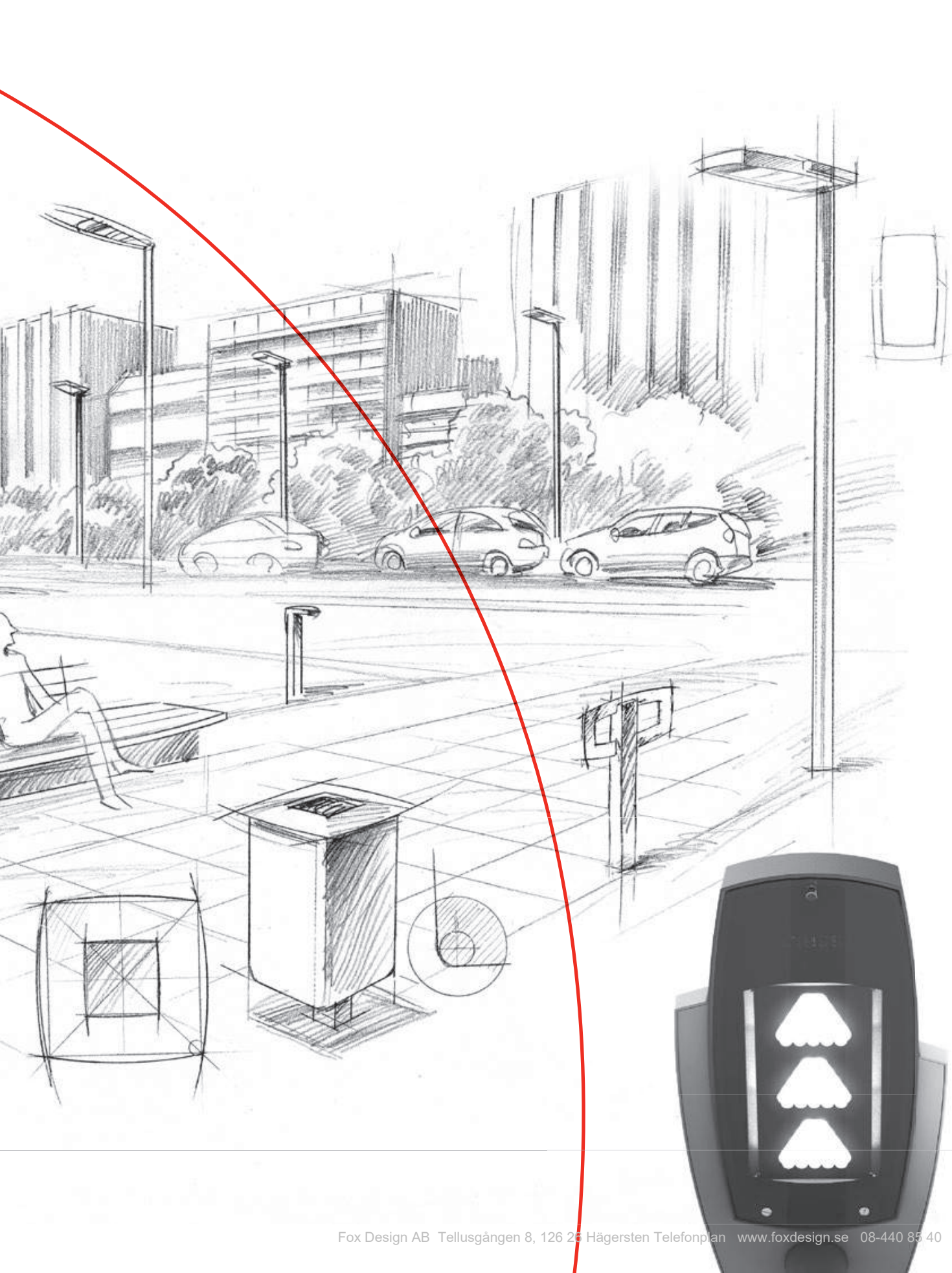
A wide array of products within the same family and a host of different materials are available, but always with a high-quality appearance and feel. Further benefits include quality craftsmanship and a compelling design idiom. This is VAREDO.

From outdoor lighting and illuminating or barrier bollards to benches and waste receptacles: prepare to be inspired by VAREDO.

VAREDO – By HESS.

Time for something exceptional.





WASTE RECEPTACLES



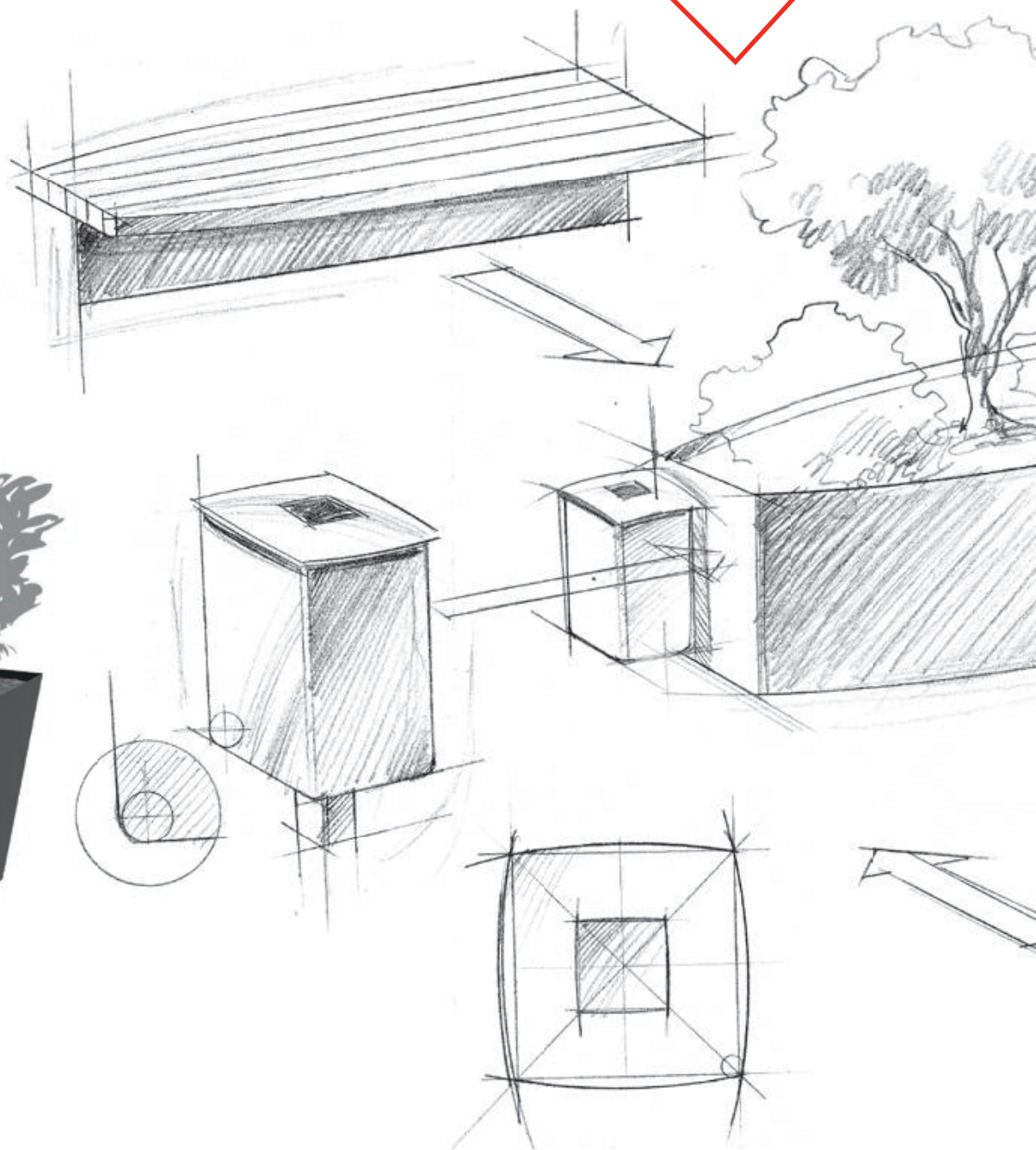
Stainless steel



Galvanised
sheet steel



FULLY FLEXIBLE COMBINATIONS – VAREDO

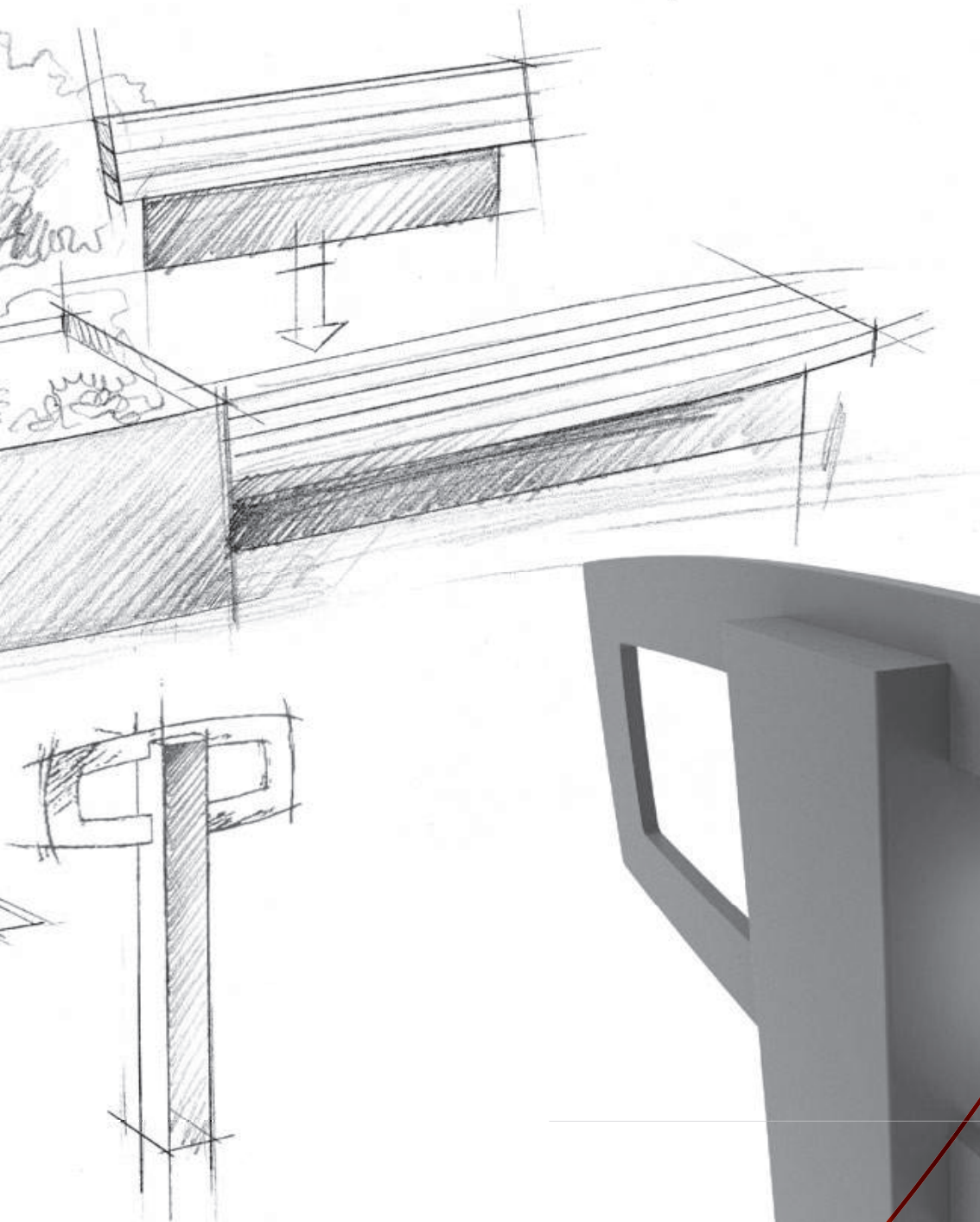


How would you like your bench?

Short or long? With an inbuilt waste receptacle? Or perhaps a planter?

Or combined with a bicycle rack? The choice is yours. It remains one (bench) system.

VAREDO By HESS.



DB 703



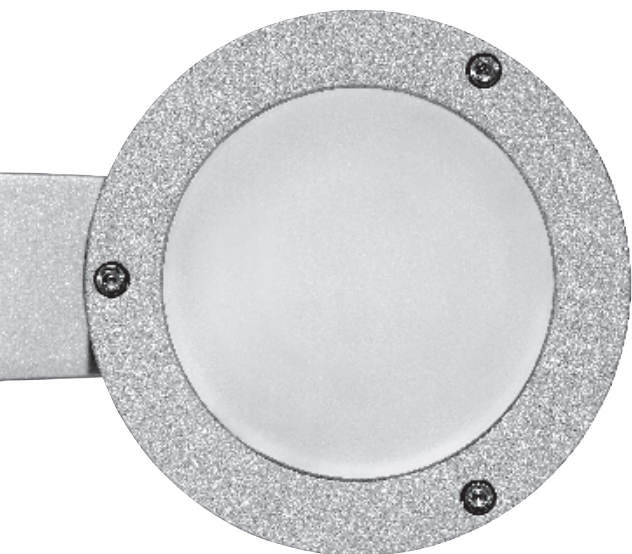
Corten steel



Ash



Pine



VARELLO

SOPHISTICATED LIGHTING CONCEPTS FOR BUILDINGS AND THE SURROUNDING AREAS

AVANGARDO 2 offers diversity in form, material and function.

The technology behind the Avangardo 2 collection has been further developed to give lighting designers, urban planners and architects **15 different luminaire families** to choose from in a range of high-quality treated surfaces. The special feature is that each luminaire family is comprised of several product groups – ranging from in-ground and wall luminaires to illuminating bollards – in an integrated and holistic design.

Value retention, durability and reliability are further key features. We use only the highest quality materials for our Avangardo luminaires, such as steel, aluminium and cast aluminium combined with borosilicate, polyacrylic or single-pane tempered safety glass.

Predestined for integrated lighting concepts.
AVANGARDO 2 by Hess.

PADUA

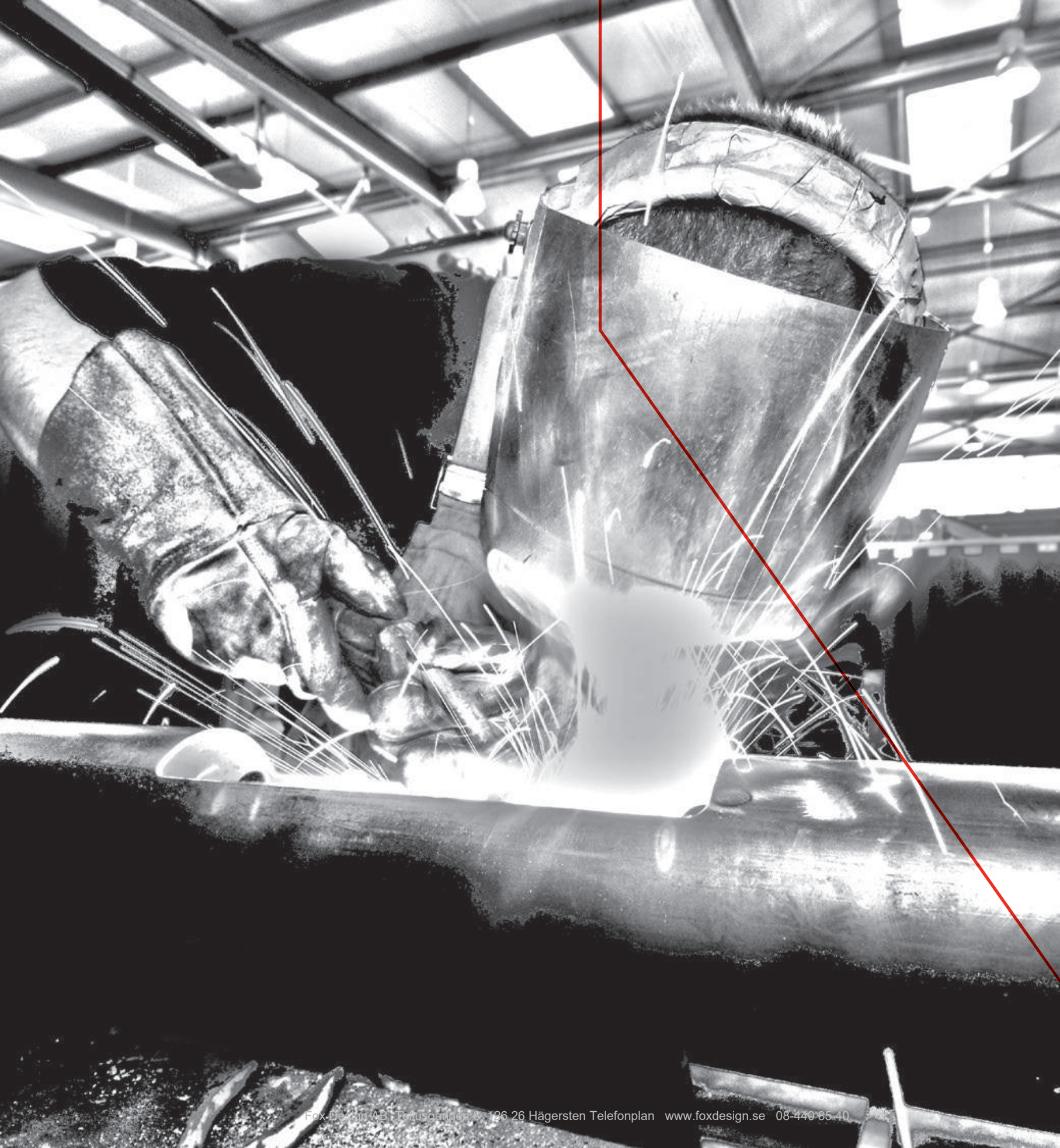


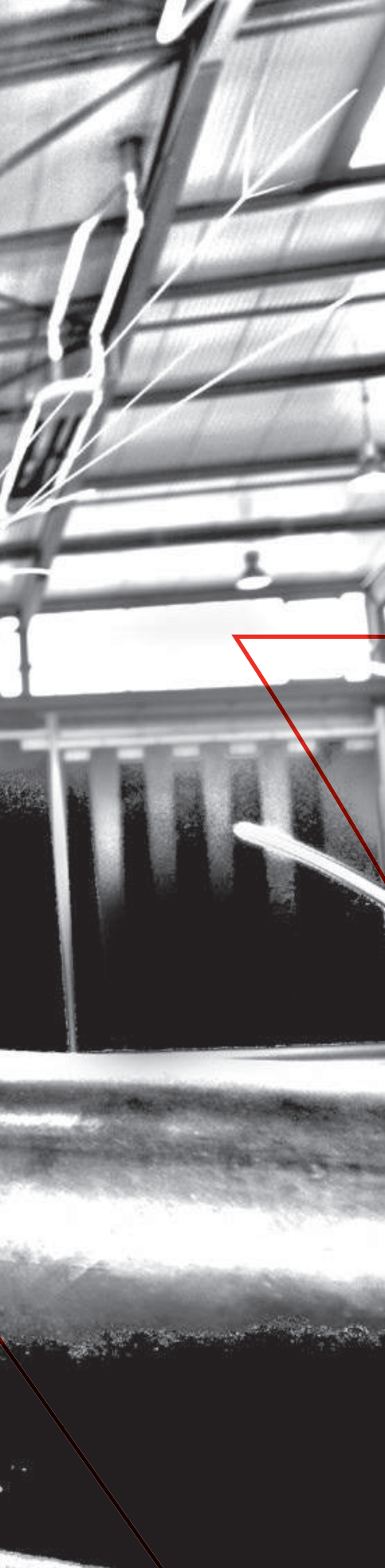


AVANGARDO

FERRARA

100%
LED





HESS. DESIGN AND INDIVIDUALITY

Innovative engineering meets professional craftsmanship from Germany's Black Forest. A perfect combination that enables virtually unlimited customisation and creativity.

Our **customised special solutions** are exceptional.
And designed for exceptional urban spaces. Creating an unexpected visual focal point, day and night.

SPECIAL luminaires, SPECIAL finishes, SPECIAL colours, SPECIAL glass.

SPECIAL solutions – MADE IN GERMANY – MADE BY HESS.

NORDEON GROUP

● Headquarters ■ Manufacturing ● Sales

- 1 NORDEON GROUP headquarters, Eindhoven (NL) . 2 NORDEON, Springe (GER)
2 Vulkan, Springe (GER) . 3 Hess, Villingen-Schwenningen (GER)
4 NORDEON, Chalon sur Saône/Dijon (FR) . 5 Hess America, Gaffney (SC/US)
6 Hess Scandinavia, Stockholm (SE) . 7 Hess Spain, Barcelona (ES)
8 Hess Belgium, Antwerp (BE)
9 Hess Austria, Götzis (AT)
10 Hess UK, London (UK)
11 Hess France (FR)
12 WILA, Iserlohn (GER) | WILA, Wantage (UK)
13 Griven, Castel Goffredo (IT) | Griven USA, Gaffney (SC/US)
14 Nordeon USA, Gaffney (SC/US)



A newcomer with lots of experience

Nordeon's history starts way more than 100 years ago and at the same time in 2012.

The Nordeon Group – a young name in the lighting industry. Well-established. Agile with the strength of an “established newcomer”.

- 7 manufacturing locations
- approx. 1000 employees
- way more than a century of experience

The lighting industry is undergoing intense change. Demand for energy efficiency is rising all the time, with efficient LED luminaires advancing in leaps and bounds. The Nordeon Group is helping to drive this development, while at the same time striving to conserve resources and advocating the use of energy-efficient LED lighting.

A proven track record

Nordeon became established in Springe, Germany, following the takeover of the production facility there from Philips in 2012. The Nordeon Group now brings together the high level of expertise and strong reputation of former Philips sites in Springe (Germany), Chalon-sur-Saône and Dijon (both in France) with two influential, established German companies specialising in outdoor lighting: Vulkan of Springe and Hess of Villingen.

Since March 2015, the Italian company Griven, located in Castel Goffredo, a leading enterprise in the growth market of architectural lighting, is part of the group of companies. And finally, since February 2016, the premium German indoor lighting company WILA is part of the Nordeon Group – an important step for us and our customers.

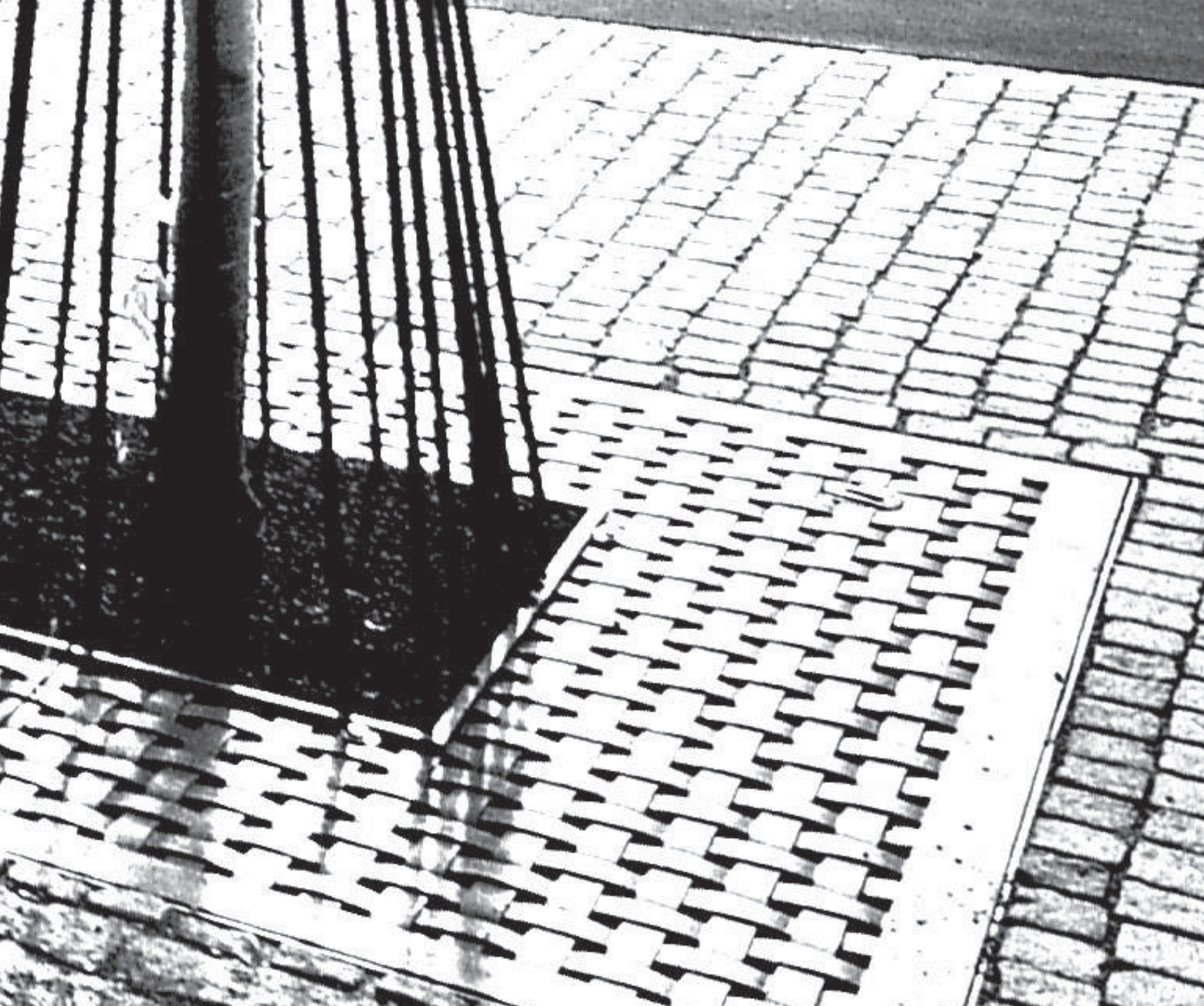
Launched in April 2013, InstallerDirect.com is a highly innovative new venture – an online wholesale platform for lighting and lighting-related products aimed exclusively at installers.

All in all, the Nordeon Group presents way more than one century of experience.

You can rely on us.

www.nordeon-group.com





TREE GRATES

.hess





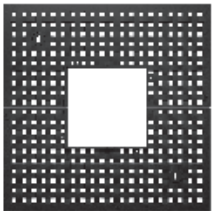
Every Hess tree grate is a complete, highly functional system and a very useful design element.

.hess

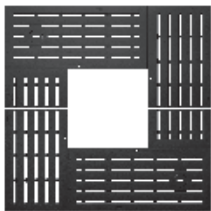
1 . TREE GRATES

MECHANICAL CAST TREE GRATES

The standard tree grates are cast via automation in green sand. Tree grates cast using this process are reasonably priced, have that signature Hess design and are available in the commonly required sizes.



REGULUS
48



OCTA
52



SERPO Q
58

In line with their function, tree grates are subject to constant, heavy demands imposed by both pedestrian and motor vehicular traffic. With this in mind, Hess manufactures its tree grates from cast iron (EN GJL 250 material). After being cast, every part of the tree grate is sandblasted and the edges deburred until the necessary surface character is attained.

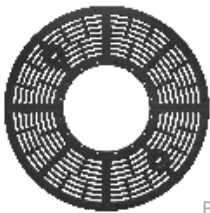
The immersion coating technique and prep work performed by Hess ensure exceptional adhesion of the RAL 9011 graphite black paint. However, in spite of the thickly applied layers of paint, the coat still may become slightly damaged through installation or the daily wear and tear of traffic. The damage usually manifests itself as a brown hue in the affected areas. With time, these areas develop a natural patina that normally blends in rather well with the urban surroundings.

ROLLOVER CAPACITY . 5 T

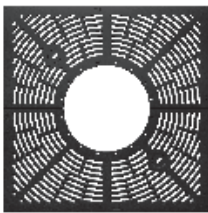
Hess 5 t tree grates are designed for 5 t rollover loads. The designation “rollover” means the tree grate can handle the occasional 5 t wheel load (in emergencies) of vehicles driving over them at max. 20 km/h. Turning, braking and acceleration on the tree grates must be avoided.



SERPO R
64



BELVEDERE
70



CONCORD
76

REGULUS

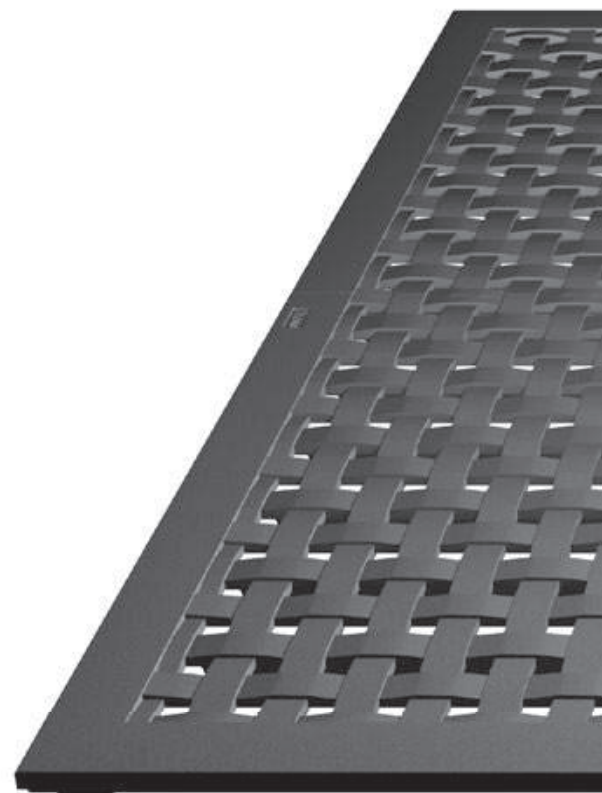
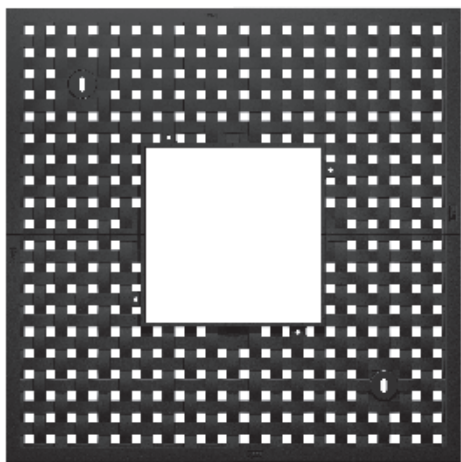
REGULUS 5 T – 4 S . Tree Grate

Tree grate manufactured from solid cast iron. Four segments assemble forming a square outer shape with square inner opening for the tree. Two of the segments come with watering openings and covers. The segments bolt together on their undersides and install loosely in a cantilever frame. Comes in RAL 9011 graphite black finish (immersion coating).

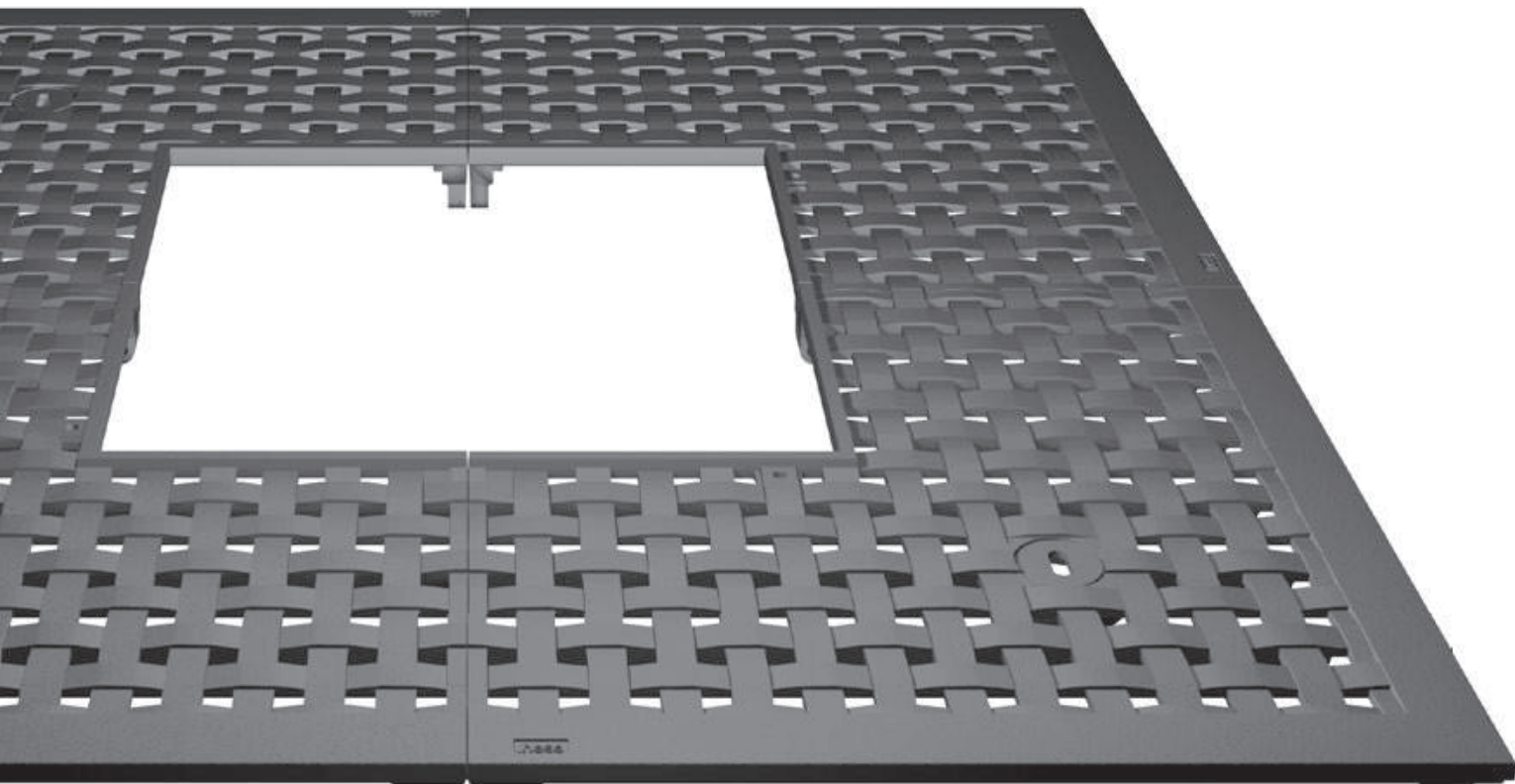
Additional charge: Segment fitted for PALERMO G 240 in-ground luminaire.
Tamper-proof hardware.

REGULUS 5 T – 4 S

Machine cast



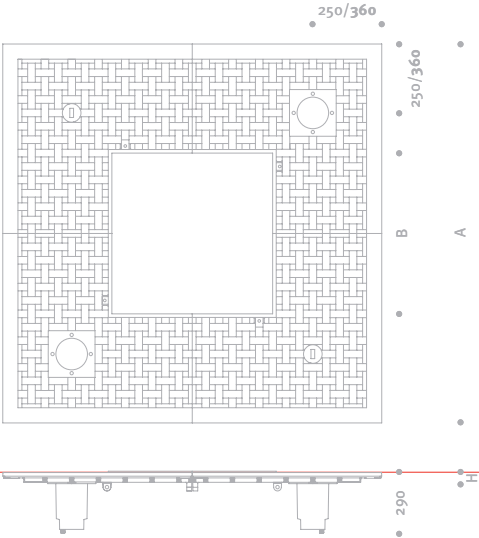
Product information
www.hess.eu/o104



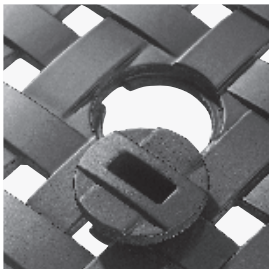
REGULUS 5 T – 4 S

Tree Grate						Frame	Concrete Foundation		
Order No.	Nominal Dimensions	Dimensions in mm					Order No.	Order No.	Order No.
		A	B	H	S	E	Height 260 mm		
30.12200.4	Q 1500 / Q 570	1480	570	70	30	30	30.41215.4	30.70015.4	30.70015.5
30.12202.4	Q 2000 / Q 840	1980	840	70	30	30	30.41220.4	30.70020.4	30.70020.5

Machine cast



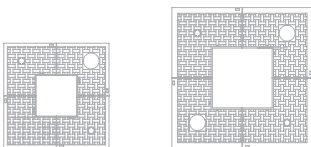
- A Outer grate measurement
- B Grate opening size
- H Height of the frame incl. tree grate
- S Width of grate slits
- E Inlay depth of the grate in the frame



TREE GRATES - 4S

Q 1500/
Q 570

Q 2000/
Q 840



MATCHING TREE GUARDS

SCULPO
Q 1

Q 2

METOR
Q 1

Q 2

ALGARVE
Q 1

Q 2



OCTA

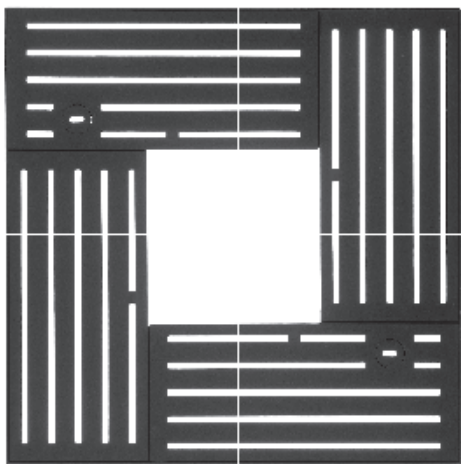
OCTA 5 T – 4 S . Tree Grate

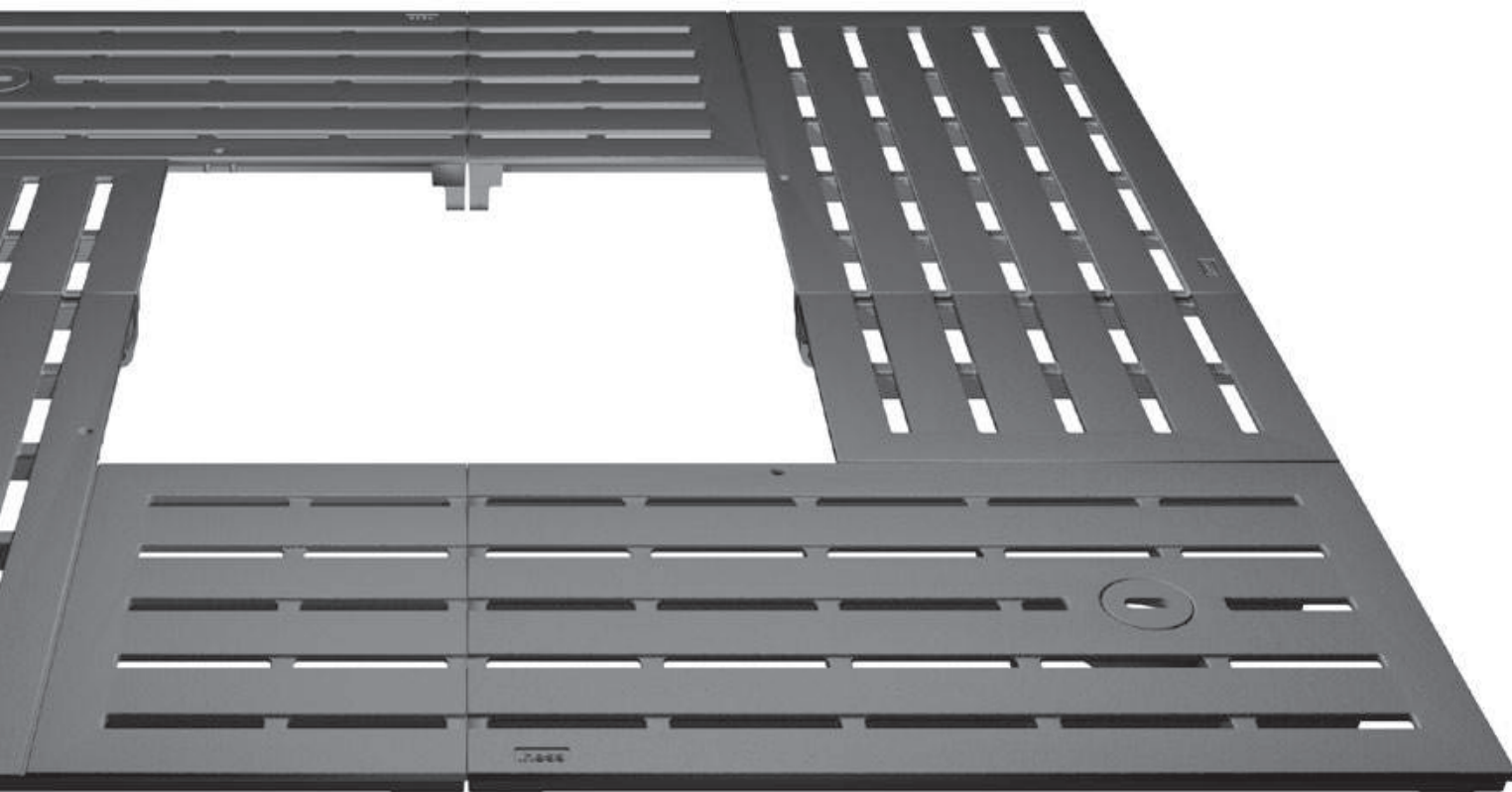
Tree grate manufactured from solid cast iron. Four segments assemble forming a square outer shape with square inner opening for the tree. Two of the segments come with watering openings and covers. The segments bolt together on their undersides and install loosely in a cantilever frame. Comes in RAL 9011 graphite black finish (immersion coating).

Additional charge: Segments fitted for RAVENNA G 220 in-ground luminaire. Tamper-proof hardware.

OCTA 5 T – 4 S

Machine cast

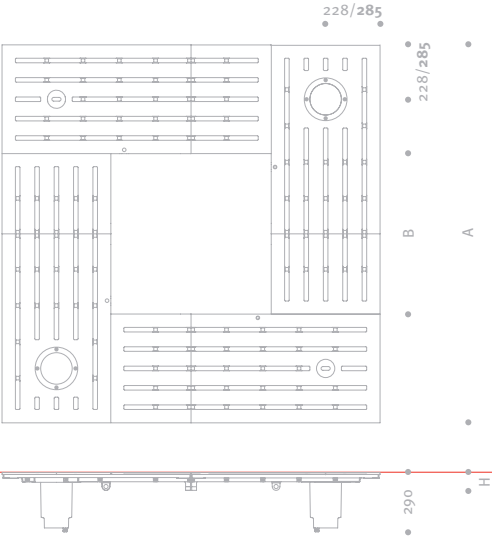




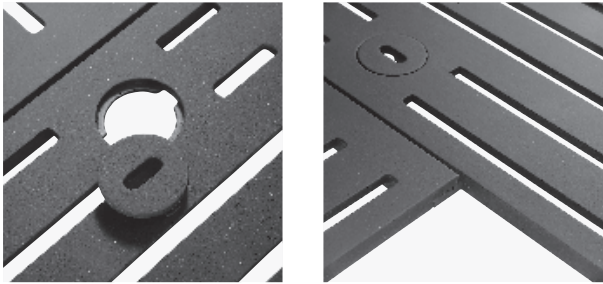
OCTA 5 t – 4 S

Tree Grate						Frame	Concrete Foundation	
Order No.	Nominal Dimensions	Dimensions in mm					Order No.	Order No.
		A	B	H	S	E	Height 260 mm	Height 400 mm
30.12300.4	Q 1500 / Q 570	1480	570	70	20	30	30.41215.4	30.70015.4
30.12302.4	Q 2000 / Q 840	1980	840	70	23	30	30.41220.4	30.70020.5

Machine cast



- A Outer grate measurement
- B Grate opening size
- H Height of the frame incl. tree grate
- S Width of grate slits
- E Inlay depth of the grate in the frame



TREE GRATES - 4S

Q 1500/
Q 570

Q 2000/
Q 840



MATCHING TREE GUARDS

SCULPO
Q 1



Q 2



METOR
Q 1



Q 2



ALGARVE
Q 1



Q 2





OCTA
BEAUFORT . ENGLAND

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SERPO Q

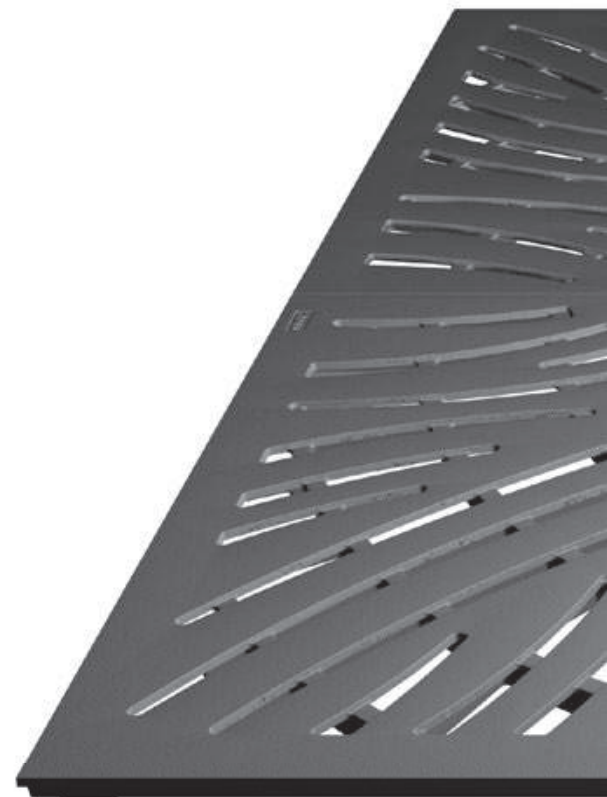
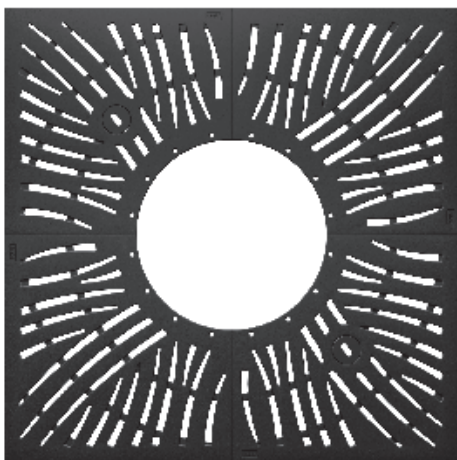
SERPO Q 5 T - 4 S . Tree Grate

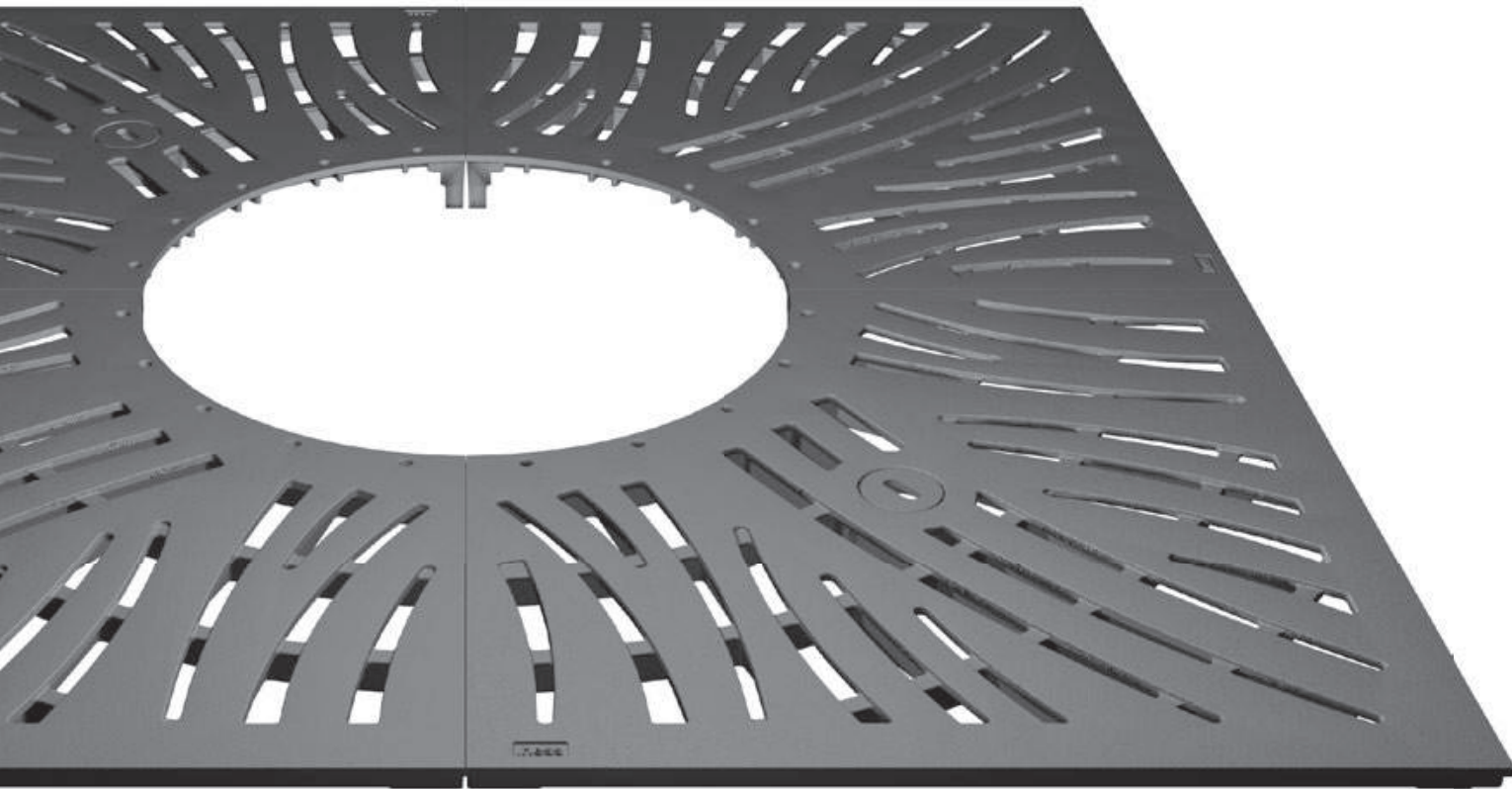
Tree grate manufactured from solid cast iron. Four segments assemble forming a square outer shape with round inner opening for the tree. Two of the segments come with watering openings and covers. The segments bolt together on their undersides and install loosely in a cantilever frame. Comes in RAL 9011 graphite black finish (immersion coating).

Additional charge: Segments fitted for RAVENNA G 220 in-ground luminaire. Tamper-proof hardware.

SERPO Q 5 T - 4 S

Machine cast

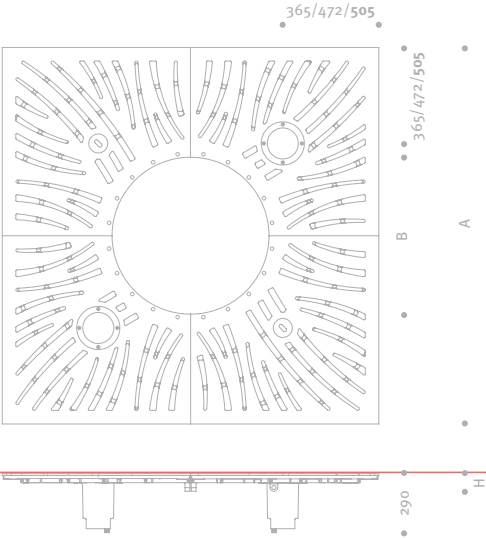




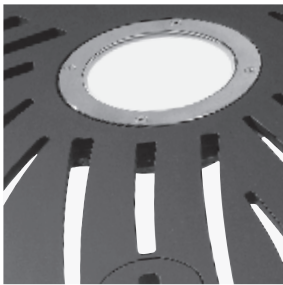
SERPO Q 5 t – 4 S

Tree Grate							Frame	Concrete Foundation	
Order No.	Nominal Dimensions	Dimensions in mm					Order No.	Order No.	Order No.
		A	B	H	S	E		Height 260 mm	Height 400 mm
30.12400.4	Q 1500 / R 620	1480	620	70	–	30	30.41215.4	30.70015.4	30.70015.5
30.12401.4	Q 1800 / R 620	1800	620	70	–	30	30.41218.4	30.70018.4	30.70018.5
30.12402.4	Q 2000 / R 825	1980	825	70	–	30	30.41220.4	30.70020.4	30.70020.5

Machine cast



- A Outer grate measurement
- B Grate opening size
- H Height of the frame incl. tree grate
- S Width of grate slits
- E Inlay depth of the grate in the frame



TREE GRATES - 4 S

Q 1500/
R 620

Q 1800/
R 620

Q 2000/
R 825



MATCHING TREE GUARDS

FANO
R 1

R 2

SCULPO
R 1

R 2

METOR
R 1

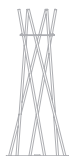
R 2

ALGARVE
R 1

R 2

RK 1

RK 2





SERPO Q
LAHR . GERMANY

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SERPO R

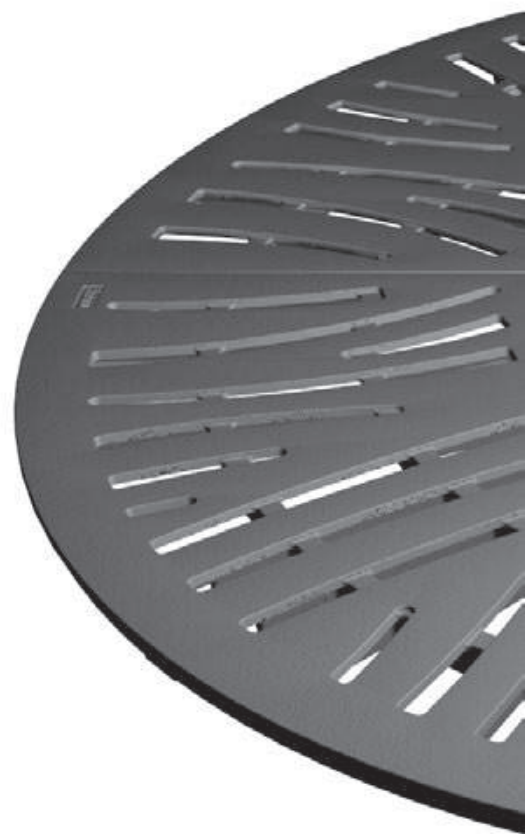
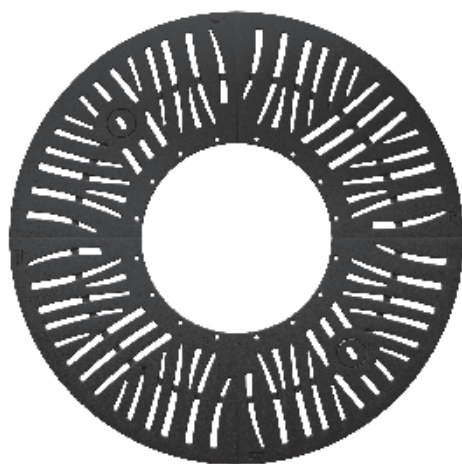
SERPO R 5 T – 4 S . Tree Grate

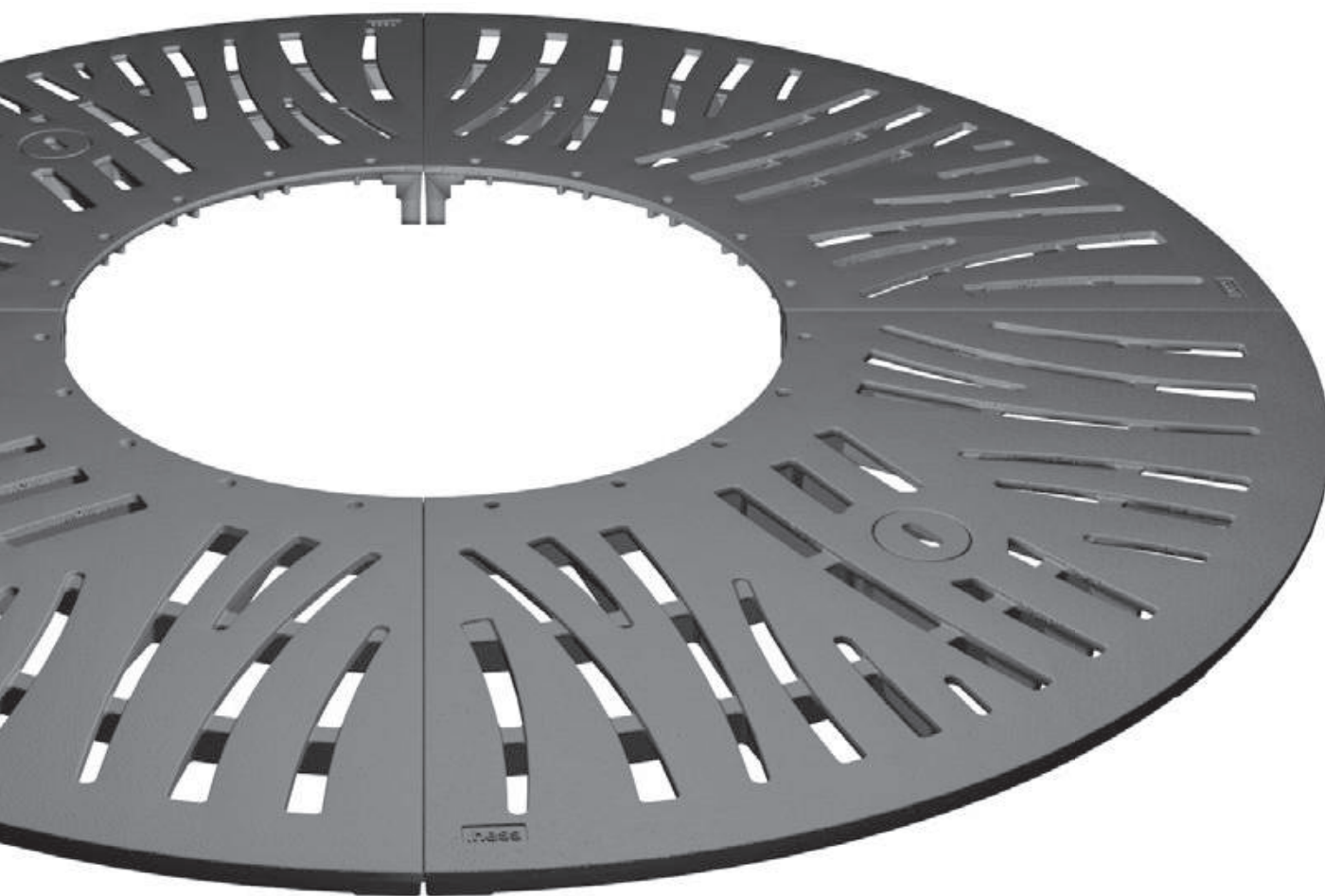
Tree grate manufactured from solid cast iron. Four segments assemble forming a round outer shape with round inner hole for the tree and two watering holes and covers. Segments bolt together on their undersides and install loosely in a cantilever frame. Comes in RAL 9011 graphite black finish (immersion coating).

Additional charge: Segments fitted for RAVENNA G 220 in-ground luminaire.
Tamper-proof hardware.

SERPO R 5 T – 4 S

Machine cast

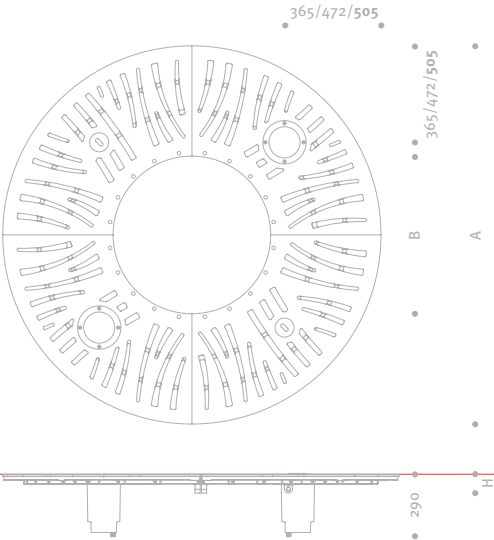




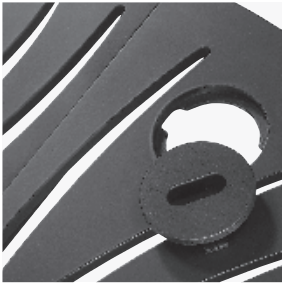
SERPO R 5 t – 4 S

Tree Grate							Frame	Concrete Foundation	
Order No.	Nominal Dimensions	Dimensions in mm					Order No.	Order No.	Order No.
		A	B	H	S	E		Height 260 mm	Height 400 mm
30.12400.6	R 1500 / R 620	1480	620	70	–	30	30.41215.6	30.70015.6	30.70015.7
30.12401.6	R 1800 / R 620	1800	620	70	–	30	30.41218.6	30.70018.6	30.70018.7
30.12402.6	R 2000 / R 825	1980	825	70	–	30	30.41220.6	30.70020.6	30.70020.7

Machine cast



- A Outer grate measurement
- B Grate opening size
- H Height of the frame incl. tree grate
- S Width of grate slits
- E Inlay depth of the grate in the frame



TREE GRATES - 4 S

R 1500/
R 620



R 1800/
R 620



R 2000/
R 825

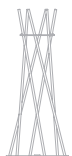


MATCHING TREE GUARDS

FANO
R 1



R 2



SCULPO
R 1



R 2



METOR
R 1



R 2



ALGARVE
R 1



R 2



RK 1



RK 2





OCTA
MADRID . SPAIN

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BELVEDERE

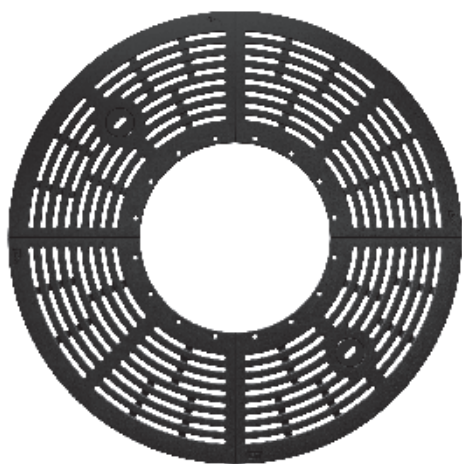
BELVEDERE 5 T – 4 S . Tree Grate

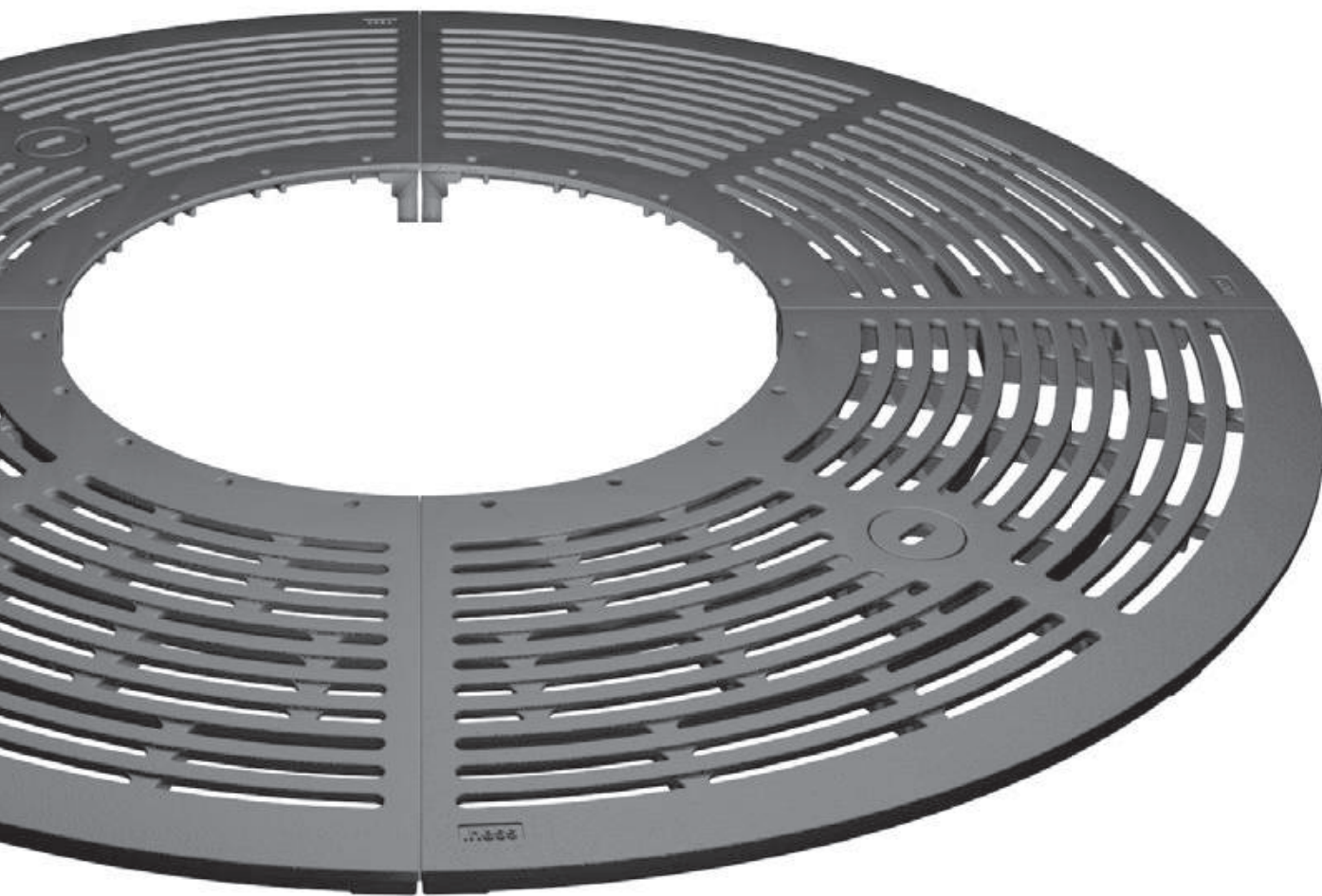
Tree grate manufactured from solid cast iron. Four segments assemble forming a round outer shape with round inner opening for the tree. Two of the segments come with watering openings and covers. The segments bolt together on their undersides and install loosely in a cantilever frame. Comes in RAL 9011 graphite black finish (immersion coating).

Additional charge: Segments fitted for RAVENNA G 220 in-ground luminaire. Tamper-proof hardware.

BELVEDERE 5 T – 4 S

Machine cast

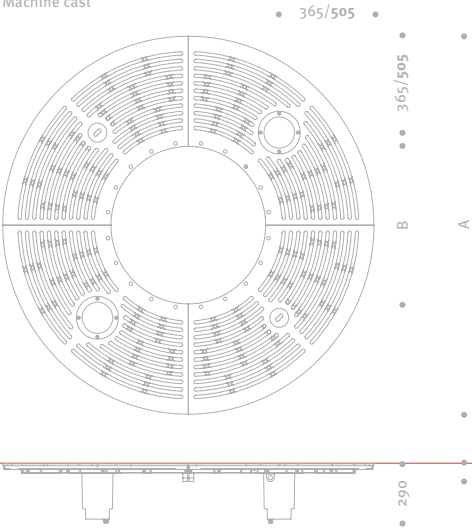




BELVEDERE 5 T – 4 S

Tree Grate							Frame	Concrete Foundation	
Order No.	Nominal Dimensions	Dimensions in mm					Order No.	Order No.	Order No.
		A	B	H	S	E		Height 260 mm	Height 400 mm
30.10012.6	R 1500 / R 620	1480	620	70	17	30	30.41215.6	30.70015.6	30.70015.7
30.10014.6	R 2000 / R 825	1980	825	70	17	30	30.41220.6	30.70020.6	30.70020.7

Machine cast



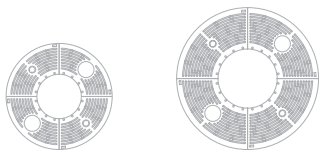
- A Outer grate measurement
- B Grate opening size
- H Height of the frame incl. tree grate
- S Width of grate slits
- E Inlay depth of the grate in the frame



TREE GRATES - 4 S

R 1500/
R 620

R 2000/
R 825



MATCHING TREE GUARDS

FANO
R 1

R 2

SCULPO
R 1

R 2

METOR
R 1

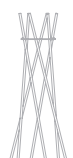
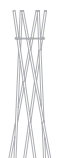
R 2

ALGARVE
R 1

R 2

RK 1

RK 2





BELVEDERE
GÜNZBURG . GERMANY

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CONCORD

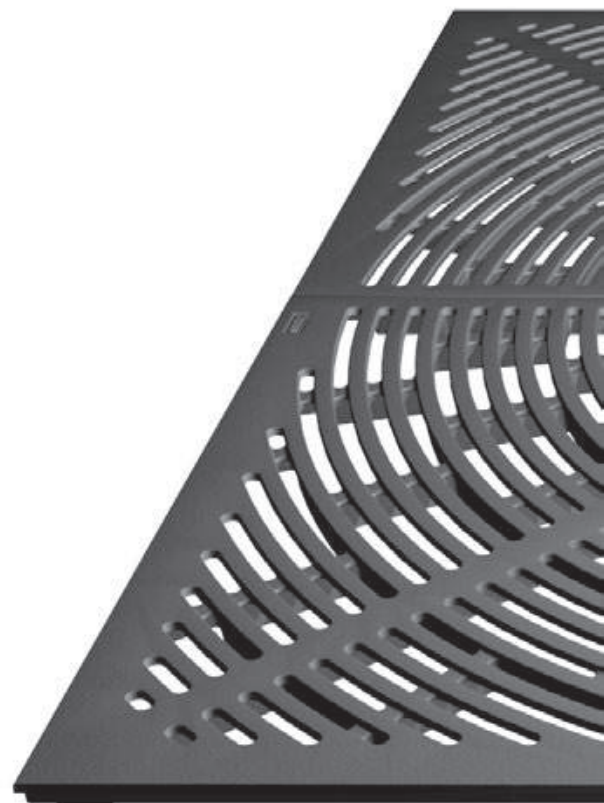
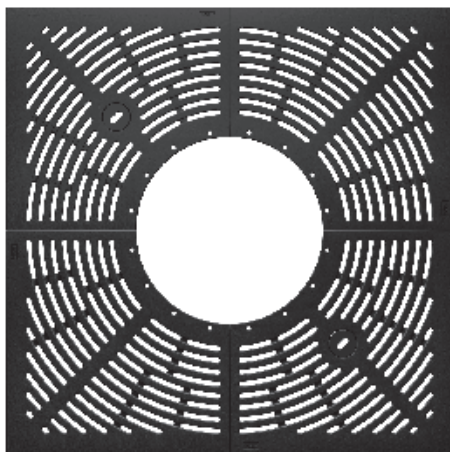
CONCORD 5 T – 4 S . Tree Grate

Tree grate manufactured from solid cast iron. Four segments assemble forming a square outer shape with round inner opening for the tree. Two of the segments come with watering openings and covers. The segments bolt together on their undersides and install loosely in a cantilever frame. Comes in RAL 9011 graphite black finish (immersion coating).

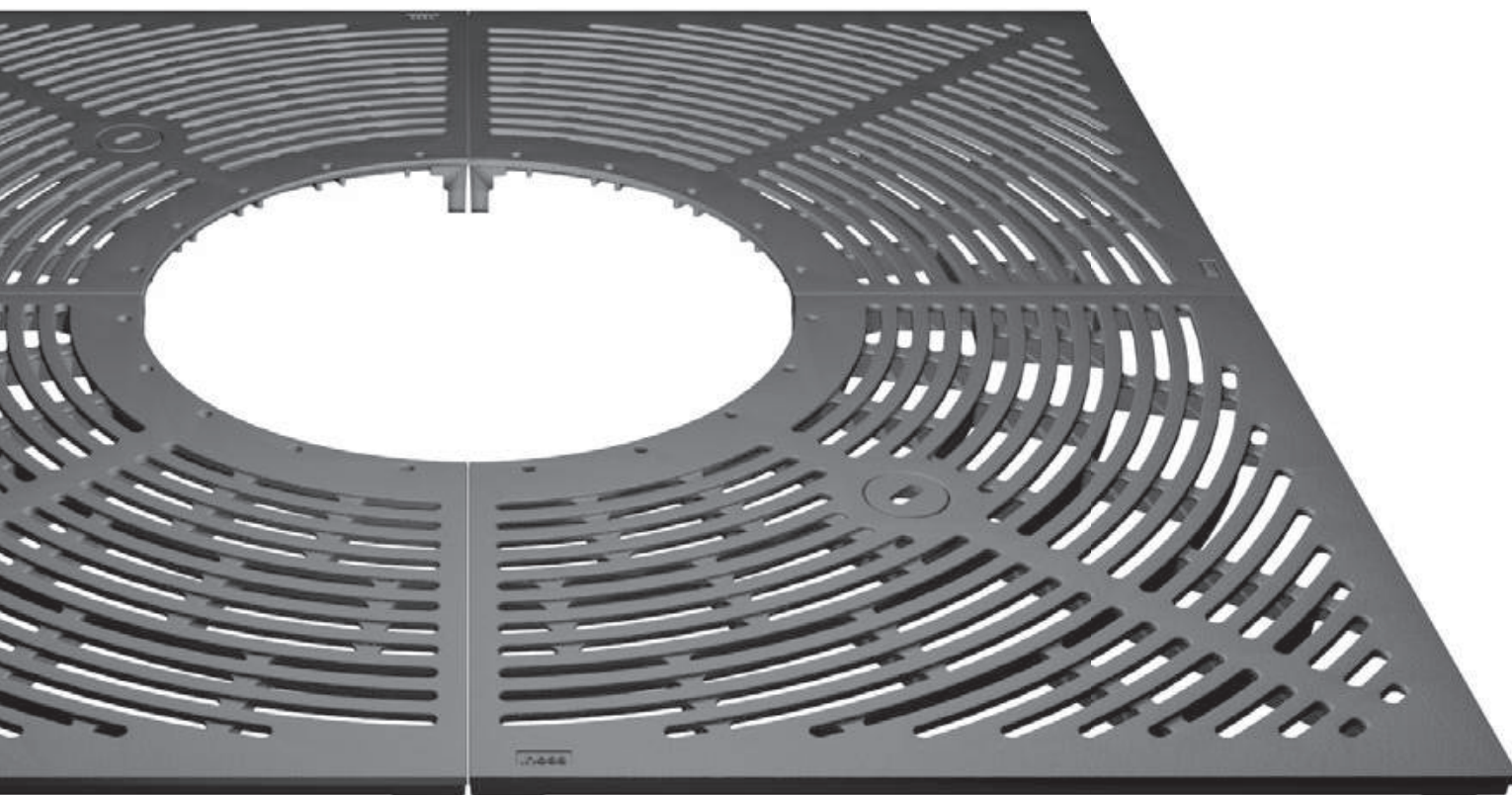
Additional charge: Segments fitted for RAVENNA G 220 in-ground luminaire. Tamper-proof hardware.

CONCORD 5 T – 4 S

Machine cast



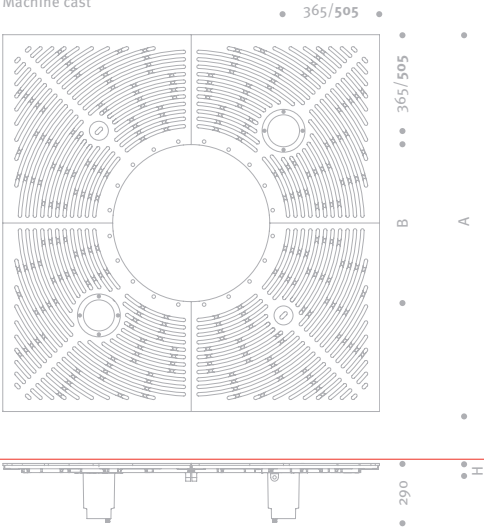
Product information
www.hess.eu/o140



CONCORD 5 T – 4 S

Tree Grate						Frame	Concrete Foundation		
Order No.	Nominal Dimensions	Dimensions in mm					Order No.	Order No.	Order No.
		A	B	H	S	E		Height 260 mm	Height 400 mm
30.10012.4	Q 1480 / R 620	1500	620	70	17	30	30.41215.4	30.70015.4	30.70015.5
30.10014.4	Q 1980 / R 825	2000	825	70	17	30	30.41220.4	30.70020.4	30.70020.5

Machine cast



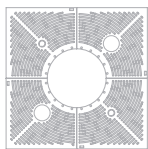
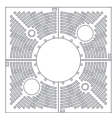
- A Outer grate measurement
- B Grate opening size
- H Height of the frame incl. tree grate
- S Width of grate slits
- E Inlay depth of the grate in the frame



TREE GRATES - 4 S

Q 1500/
R 620

Q 2000/
R 825



MATCHING TREE GUARDS

FANO
R 1

R 2

SCULPO
R 1

R 2

METOR
R 1

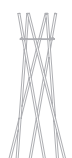
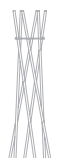
R 2

ALGARVE
R 1

R 2

RK 1

RK 2





CONCORD
VALENCE . FRANCE

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RAVENNA G

RAVENNA G 110 LED In-ground Luminaire

Single-pane, tempered safety glass enclosure with coated inner mask. Stainless steel housing. Comes pre-wired. Luminaire opens for maintenance via bolts located on the underside. LED (HP) 3000 or 4000 K.
◆▲Ingress protection IP67 · ⚡Safety class I · CE⚡10/⚡

Options: Concentric-ringed, anti-slip surface.



RAVENNA G 220 In-ground Luminaire

Single-pane, tempered safety glass enclosure with coated inner mask. Cast aluminium luminaire housing (Anticorodal) treated with special anti-corrosive coat. Newly developed high-build coating with superior corrosion protection.
◆▲Ingress protection IP67 · ⚡Safety class I · CE⚡10/⚡

NOTE: Surface temperature: HIT 20 W symm. 55° C; HIT 35 W symm. 65° C; HIT 70 W symm. 70° C;
HIT 20 W asymm. 50° C; HIT 35 W asymm. 55° C; HIT 70 W asymm. 65° C; HST-DE 70 W 70° C; HIT-DE 70 W 70° C
Options: Concentric-ringed, anti-slip surface.

RAVENNA G 220 LED In-ground Luminaire

Single-pane, tempered safety glass enclosure with coated inner mask. Cast aluminium luminaire housing (Anticorodal) treated with special anti-corrosive coat. Newly developed high-build coating with superior corrosion protection.
◆▲Ingress protection IP67 · ⚡Safety class I · CE⚡10/⚡

NOTE: Light colours: LED EL: red, yellow, green, blue, amber, warm white (3000 K), neutral white (4000 K), cool white (5700 K)
LED HP: white (3000 K, 4000 K, 5600 K).
Surface temperature: LED HP 35°C; LED EL 30°C
Options: Concentric-ringed, anti-slip surface.

Product Name	Article No.	Beam Angle	Reflector	Horizontal Adjustment	Vertical Adjustment	Lamp								
						HIT-CE			HIT-DE-CE	HST-DE	LED EL	LED HP	TC-TEL	
						20 W	35 W	70 W	70 W	70 W	8 W	5 W	16 W	26 W
						G12	G12	G12	Rx7s	Rx7s	GX24q-3			
RAVENNA G 110 LED	11.10110.0	16° / 35° / 40°	symmetric		•	-	-	-	-	-	-	•	-	-
RAVENNA G 220 1,5 / 5 t	12.33801.3		asymmetric	•		•	•	•	•	•	-	-	-	-
RAVENNA G 220 1,5 / 5 t	12.33801.1	16° / 35° / 55°	symmetric	•	•	•	•	•	•	•	-	-	-	•
RAVENNA G 220 EL-LED 1,5 / 5 t	12.33801.1		symmetric			-	-	-	-	-	•	-	•	-
RAVENNA G 220 HP-LED 1,5 / 5 t	12.33801.1	19° x 48°	asymmetric	•	•	-	-	-	-	-	•	-	•	-
RAVENNA G 220 HP-LED 1,5 / 5 t	12.33801.1	9° / 24° / 38°	symmetric	•	•	-	-	-	-	-	-	-	•	-

Order No.: Article No. + Concentric Louvre System / Vertical / Horizontal Adjustment + Lamp + (if LED + Light Colour) + Installation sleeve



• Ø 230 •



• Ø 108 •



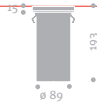
• Ø 220 •



• Ø 170 •



• Ø 155 •



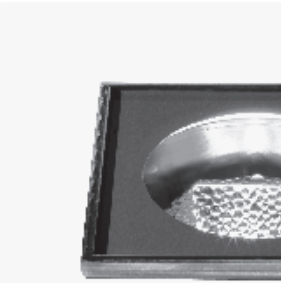
• Ø 89 •



PALERMO G

P A L E R M O G 2 4 0 B . In-ground Luminaire
Machined stainless steel top edging. All fastening components manufactured from stainless steel. Cast aluminium housing coated with RAL 7037 PE. Clear, single-pane tempered safety glass enclosure.
◆▲Ingress protection IP67 · ⊕Safety class I · CEE10/▲

NOTE: Surface temperature: HIT 20 W sym. is 55° C; HIT 35 W symm. is 55° C; HIT 20 W asym. is 55° C.
Options: Anti-slip surface treatment. Integral concentric-ringed shield system for glare control. Colour filter.



P A L E R M O G 2 4 0 B L E D . In-ground Luminaire
Machined stainless steel top edging. All fastening components manufactured from stainless steel. Cast aluminium housing coated with RAL 7037 PE. Clear, single-pane tempered safety glass enclosure.
◆▲Ingress protection IP67 · ⊕Safety class I · CEE10/▲

Light colours: LED EL: warm white (3000 K); LED HP: warm white (3000 K).
Surface temperature: LED HP 35° C; LED EL 30° C
Options: Anti-slip surface treatment. Integral concentric-ringed shield system for glare control. Colour filter.

Product Name	Article No.	Beam Angle	Reflector	Horizontal Adjustment	Vertical Adjustment	Lamp			
						HIT-CE		LED EL	LED HP
						20 W	35 W	8 W	16 W
						G12	G12		
PALERMO G 240B	12.33911.3		asymmetric	•	-	•	-	-	-
PALERMO G 240B	12.33911.1	16° / 35°	symmetric	•	•	•	•	-	-
PALERMO G 240B LED	12.33911.1	38°	symmetric	•	•	-	-	•	•

Order No.: Article No. + Concentric Louvre System / Vertical / Horizontal Adjustment + Lamp + (if LED + Light Colour)



□ 240



• 240



TECHNICAL INFORMATION

INSTALLATION OF

IN-GROUND LUMINAIRES

Hess in-ground luminaires are designed for 5 t or 1.5 t rollover loads, depending on the model. “Rollover” means that tree grates can be driven over only if unavoidable and then subject to the specified wheel load limit. Turning, braking, acceleration and speeds exceeding 20 km/h must be avoided.

Electrical installation requires a cable junction box. The in-ground luminaires come equipped with a 2 m connecting cable for connection to a distribution box, e.g. cable junction box (supplied by others).

For added safety in wet conditions, special glass plates are available for public areas with special anti-slip application (DIN 51130 R 11-compliant).

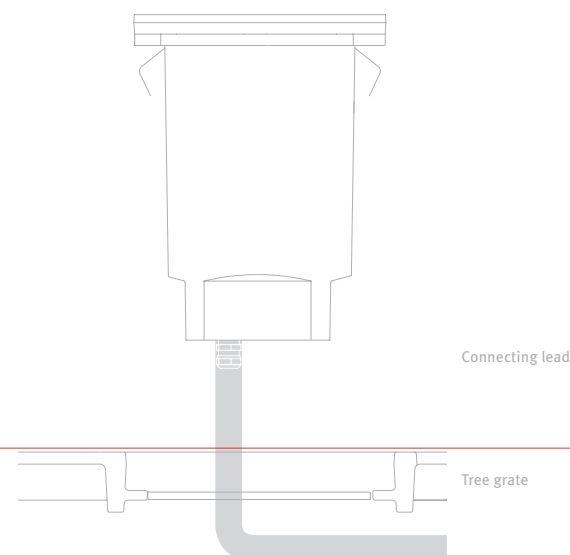
Avoid contact with corrosive chemicals, substances and materials. Read the assembly instructions carefully before beginning with installation or maintenance.

4 S – IN-GROUND LUMINAIRE

INSTALLATION

RAVENNA G 110, RAVENNA G 220 or PALERMO G 240 for 5 tonne loads.

The luminaire installs from above in the tree grate and forms a uniform transition with the tree-grate’s surface.





GENERAL INFORMATION

TREE GRATE SYSTEMS



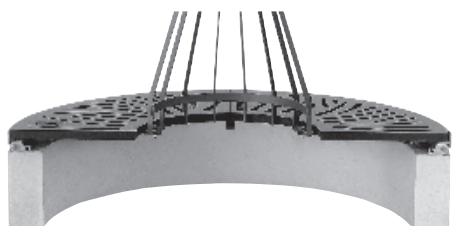
1. Concrete Foundation



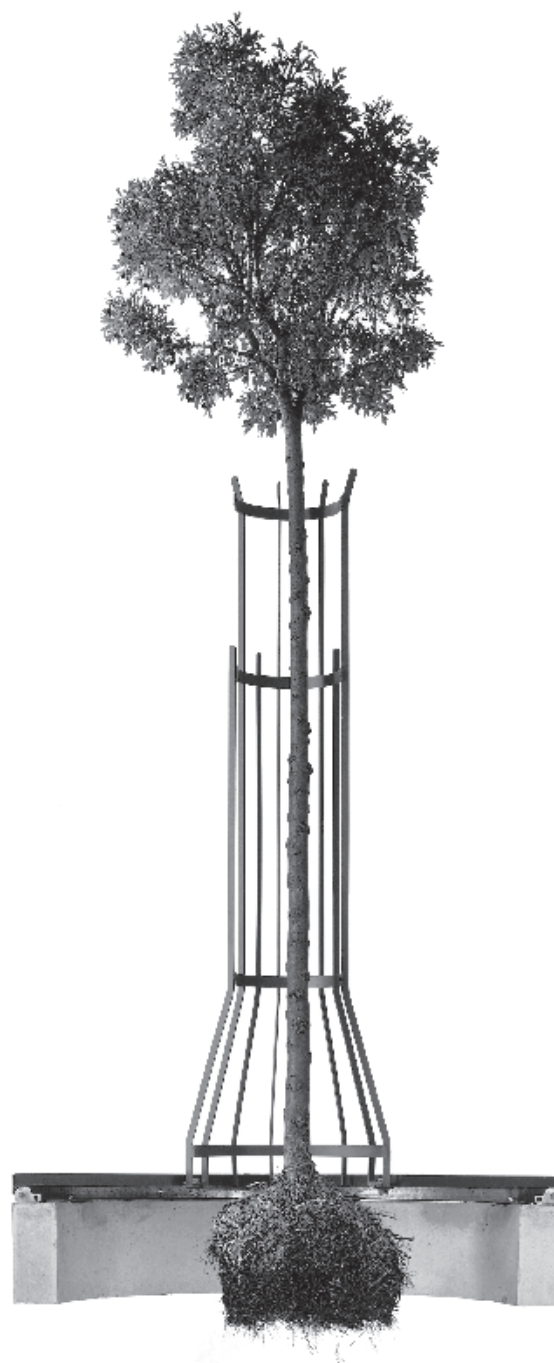
2. Cantilever Frame



3. Tree Grate



4. Tree Guard



1. CONCRETE FOUNDATIONS

Protect the ground around the tree roots from becoming compacted. Designed for the respective tree grate's size and form, the foundations have a single-component construction with notched openings to allow the growth of roots. Fitted with threaded studs for frame attachment. Choice of 260 mm or 400 mm height.

2. CANTILEVER FRAMES

The two-part construction bolts to concrete foundation and enables:

- Easy paving
- Completion of adjacent earth work and surfacing
- Planting after the completion of construction work
- Installation of the tree grates after the completion of construction work

3. TREE GRATES

Four-segment construction sits unfastened in the frame. Holes drilled into the inner rim of the grates permit the attachment of any Hess tree guard. All of the tree grates come with watering holes and covers. May be ordered with openings and hardware to accommodate in-ground luminaires.

4. TREE GUARDS

Serve both protective and decorative functions. Two-part construction bolts together and fastens with provided screw set and fasteners. Grade compensation easily accommodates differences of up to 3%.

CANTILEVER TREE GRATE SYSTEM

The tree grate system spans the earth around the tree, preventing the ground from becoming compacted.

TREE GUARDS

Serve both protective and decorative functions. Two-part construction bolts together and fastens with Screw Set 2 to the tree grate. Grade compensation easily accommodates grade slopes of up to 3%.

TREE GRATES

Four-segment construction bolts together and sits unfastened in the frame. Holes drilled into the inner rim of the grates permit the attachment of any Hess tree guard. All the tree grates come with watering holes and covers. May be ordered with openings and hardware to accommodate luminaires.

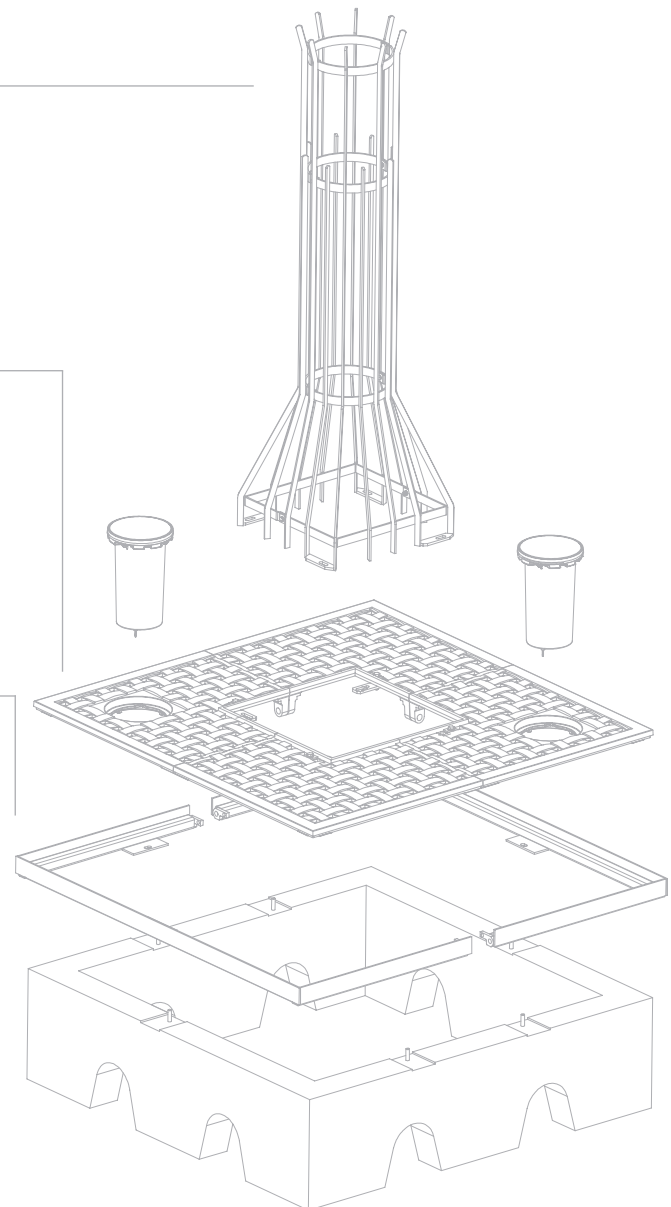
CANTILEVER FRAMES

The two-part construction bolts to concrete foundation and enables:

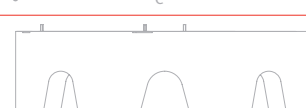
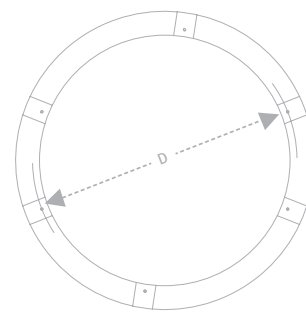
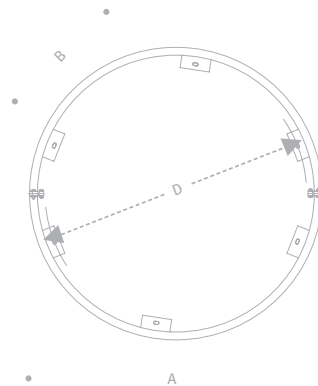
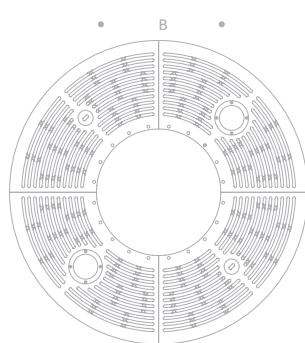
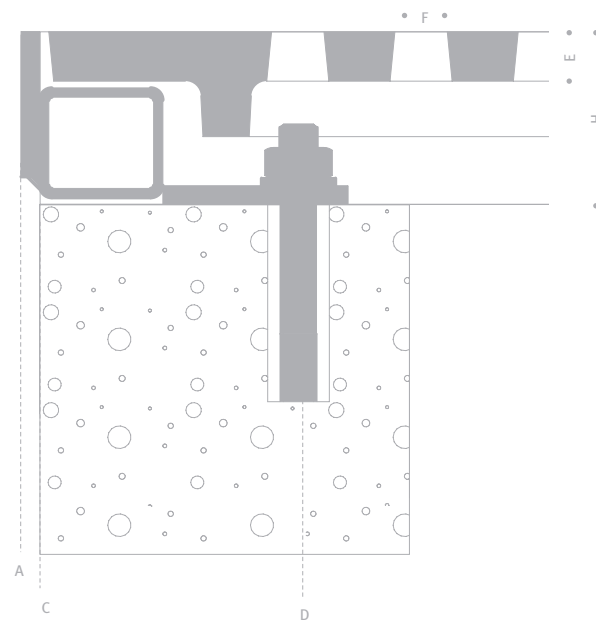
- Easy paving
- Completion of adjacent earth work and surfacing
- Planting after the completion of construction work
- Installation of the tree grates after the completion of construction work

CONCRETE FOUNDATIONS

Protect the ground around the tree roots from becoming compacted. Designed for the respective tree grate's size and form, the foundations have a single-component construction with notched openings to allow the growth of roots. Fitted with threaded studs for frame attachment. Choice of 260 mm or 400 mm height.



- A Outer measurement of frame
- B Grate opening size
- C Outer measurement of concrete foundation
- D Fastening reference
- E Inlay depth of the grate in the frame
- H Installation height of the frame incl. cast grate
- S Width of grate slits

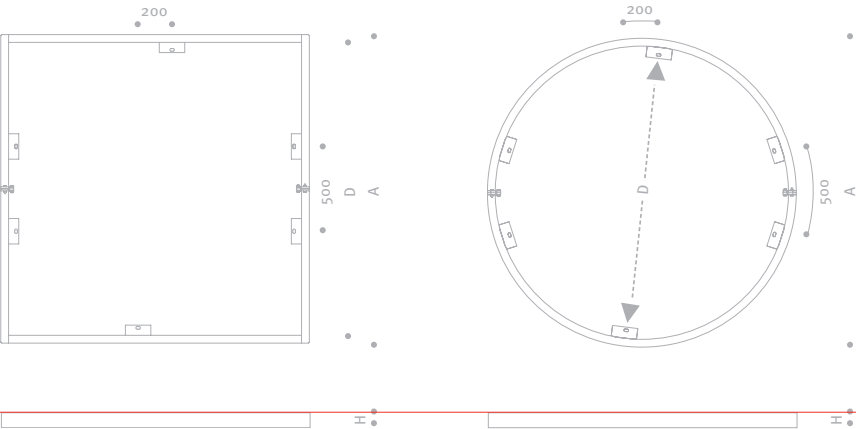


4 S – CANTILEVER FRAME

Constructed from flat galvanised steel section. Available in square or round shape. Two-part construction bolts together and enables surface work to be performed easily. Fitted for mounting to Hess concrete foundations.

Order No.	Nominal Dimensions	Dimensions in mm		
		A	H	D
30.41215.4	Q 1500	1500	70	1320
30.41218.4	Q 1800	1800	70	1640
30.41220.4	Q 2000	2000	70	1780
30.41110.0	R 1000	1000	70	825
30.41218.6	R 180	1800	70	1620
30.41215.6	R 1500	1500	70	1330
30.41220.6	R 2000	2000	70	1780

- A Outer measurement
- H Height
- D Fastening reference



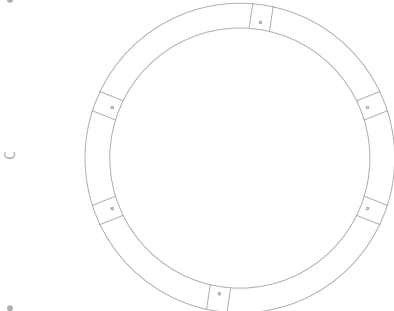
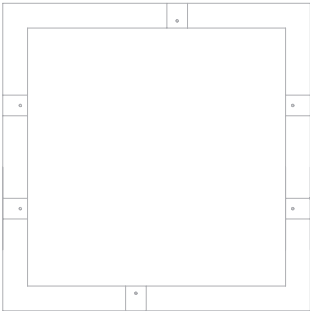
4 S – CONCRETE FOUNDATIONS

Serve as foundations for the steel frame construction in which Hess tree grates are installed. Fitted with threaded studs protruding from the top of the foundation for attachment of the frame. Single-element poured construction. Available in either round or square form and in two heights, 260 and 400 mm. Additional charge: Two-element foundation.

Order No.	Nominal Dimensions	Dimensions in mm	
Height 260 mm		C	D
30.70015.4	Q 1500	1490	1320
30.70018.4	Q 1800	1810	1640
30.70020.4	Q 2000	1990	1780
30.70010.0	R 1000	995	825
30.70015.6	R 1500	1500	1330
30.70018.6	R 1800	1790	1620
30.70020.6	R 2000	1990	1780

Order No.	Nominal Dimensions	Dimensions in mm	
Height 400 mm		C	D
30.70015.5	Q 1500	1490	1320
30.70018.5	Q 1800	1810	1640
30.70020.5	Q 2000	1990	1780
30.70010.2	R 1000	995	825
30.70015.7	R 1500	1500	1330
30.70018.7	R 1800	1790	1620
30.70020.7	R 2000	1990	1780

- C Outer measurement
- H Height
- D Fastening reference

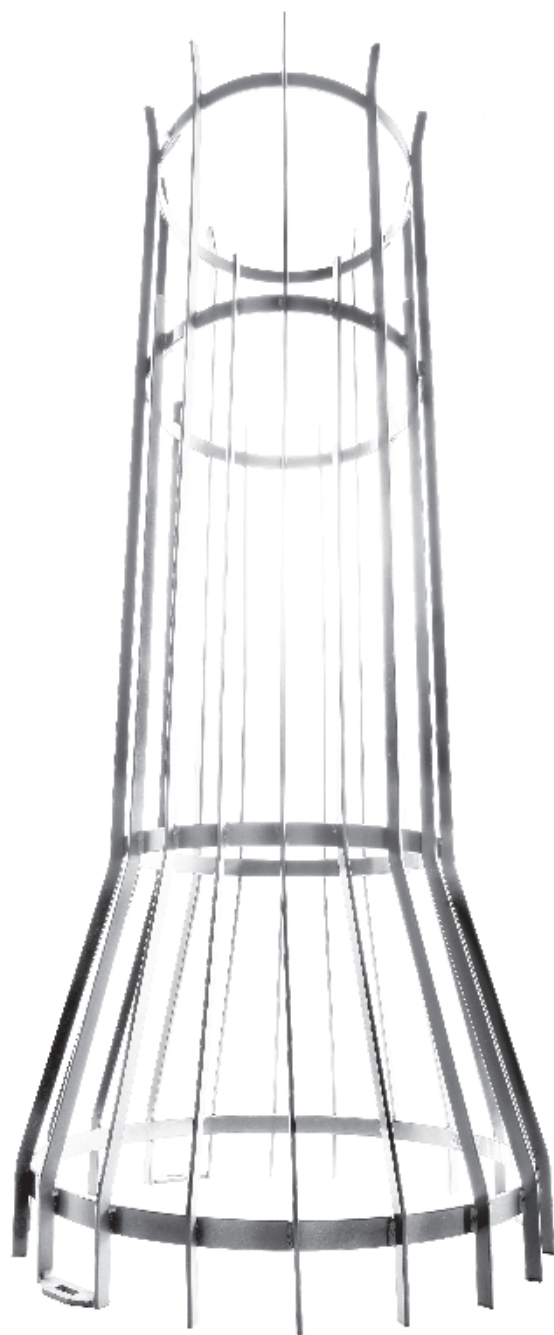






TREE GUARDS

.hess

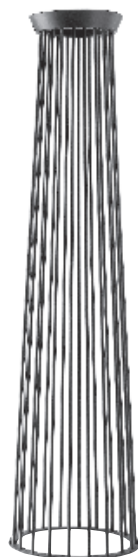


Tree guards are both protective and decorative, underscoring the natural beauty of the trees they serve and perfectly complementing Hess tree grates in function and design.

2 . TREE GUARDS



FANO
100



SCULPO
102



METOR
104



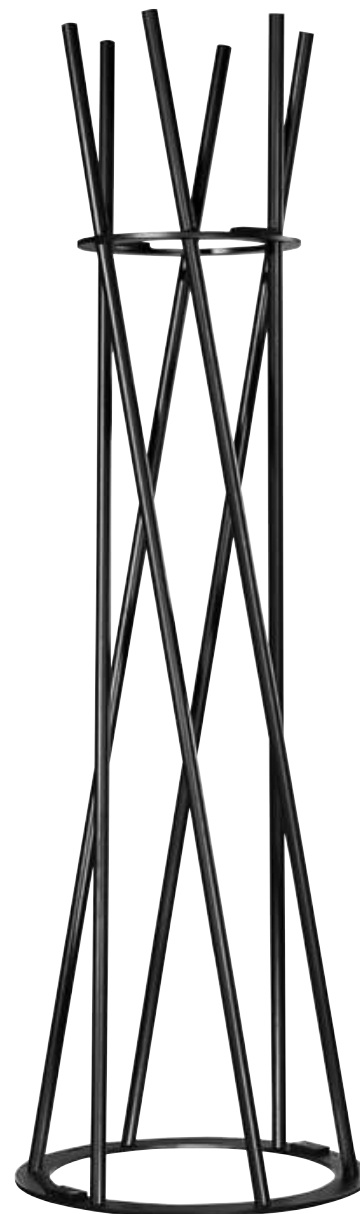
ALGARVE
106

F A N O

F A N O . Tree Guard . Round

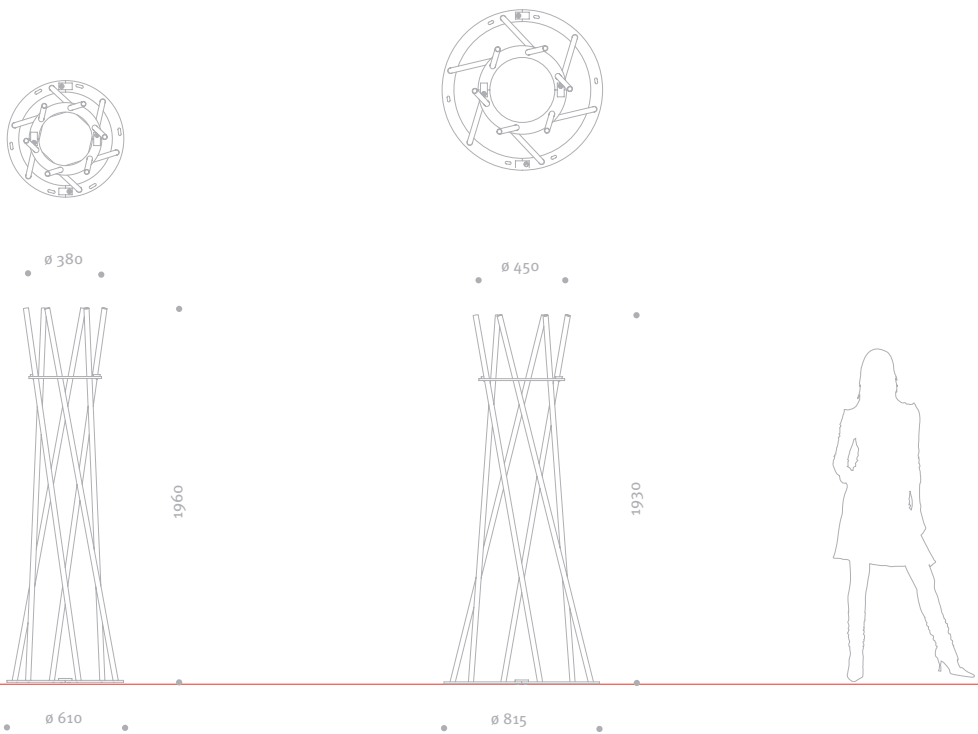
Suitable for all tree grates with round inner openings. Galvanised steel construction bolts to tree grate. Comes with level compensation system. Choice of RAL, mica or DB finish.

Additional charge: Soft or RAL finish.



	Order No.	Size	High
FANO R 1	30.30901.0	Ø 620	1960 mm
FANO R 2	30.30902.0	Ø 825	1930 mm

Product information
www.hess.eu/o230



Order No. 30.30901.0

Order No. 30.30902.0

SCULPO

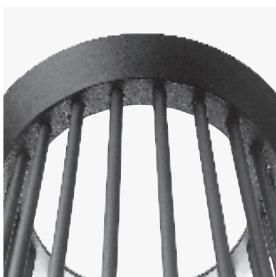
SCULPO R . Tree Guard . Round

Suitable for all tree grates with round inner openings. Galvanised steel construction bolts to tree grate. Comes with level compensation system. Choice of mica or DB finish.

SCULPO Q . Tree Guard . Square

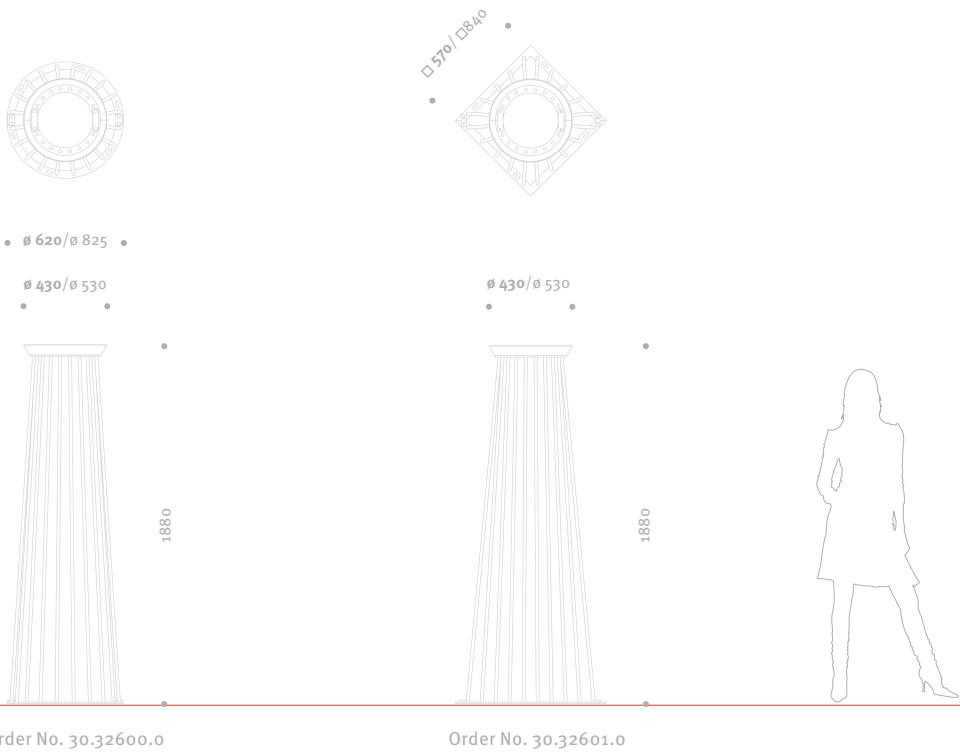
Suitable for all tree grates with square inner opening. Galvanised steel construction bolts to tree grate. Comes with level compensation system. Choice of mica or DB finish.

Additional charge: Soft or RAL finish.



	Size	Order No.
SCULPO R 1	Ø 620	30.32600.0
SCULPO R 2	Ø 825	30.32600.1
SCULPO Q 1	□ 570	30.32601.0
SCULPO Q 2	□ 840	30.32601.1

Product information
www.hess.eu/o211



METOR

METOR R . Tree Guard . Round

Suitable for all tree grates with round inner openings. Galvanised steel construction bolts to tree grate. Comes with level compensation system. Choice of mica or DB finish.

METOR Q . Tree Guard . Square

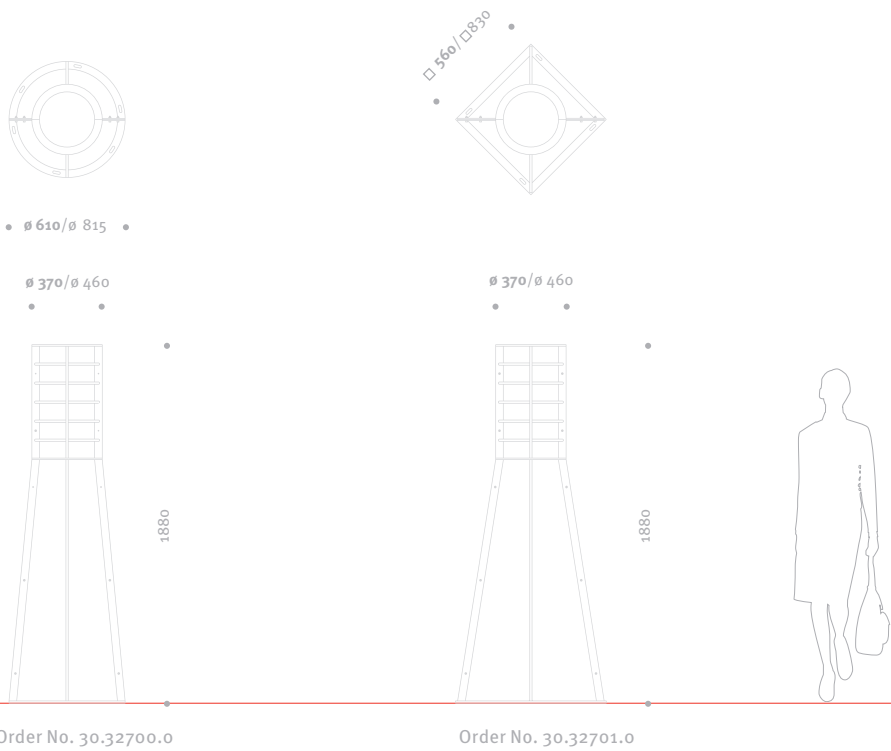
Suitable for all tree grates with square inner opening. Galvanised steel construction bolts to tree grate. Comes with level compensation system. Choice of mica or DB finish.

Additional charge: Soft or RAL finish.



	Size	Order No.
METOR R 1	Ø 620	30.32700.0
METOR R 2	Ø 825	30.32700.1
METOR Q 1	□ 570	30.32701.0
METOR Q 2	□ 840	30.32701.1

Product information
www.hess.eu/o205



ALGARVE

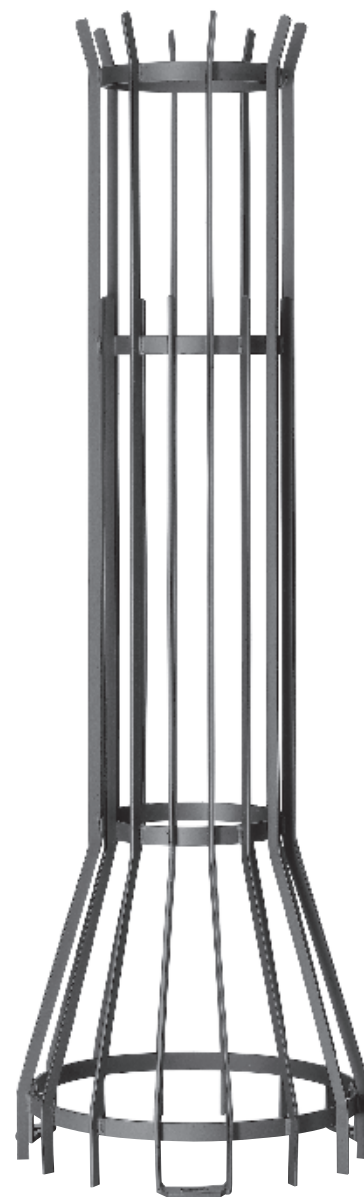
ALGARVE R . R K . Tree Guard . Round

Suitable for all tree grates with round inner openings. Galvanised steel construction bolts to tree grate. Comes with level compensation system. Choice of mica or DB finish.

ALGARVE Q . Tree Guard . Square

Suitable for all tree grates with square inner opening. Galvanised steel construction bolts to tree grate. Comes with level compensation system. Choice of mica or DB finish.

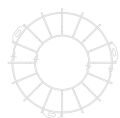
Additional charge: Soft or RAL finish.



	Size	Order No.
ALGARVE R 1	Ø 620	30.31001.0
ALGARVE R 2	Ø 825	30.31002.0
ALGARVE RK 1	Ø 620	30.31101.0
ALGARVE RK 2	Ø 825	30.31102.0
ALGARVE Q 1	□ 570	30.31301.0
ALGARVE Q 2	□ 840	30.31302.0

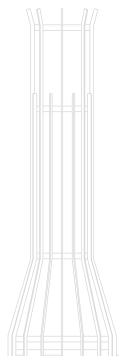
Product information
www.hess.eu/o210

Algarve R



• Ø 567/Ø 777 •

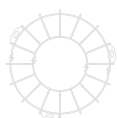
Ø 278/Ø 488



1820

Order No. 30.31001.0

Algarve RK



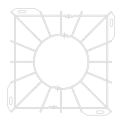
• Ø 567/Ø 777 •



1375

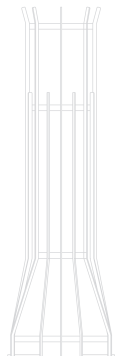
Order No. 30.31101.0

Algarve Q



• 527/777 •

Ø 278/Ø 488



1820

Order No. 30.31301.0




























ALGARVE
LEUVEN . BELGIUM

Fox Design AB Tellusgängen 8, 126 26 Hägersten Telefonplan www.foxdesign.se 08-440 85 40



TREE GUARDS

		SCULPO				METOR			
		R 1	R 2	Q 1	Q 2	R 1	R 2	Q 1	Q 2
									
									
									
REGULUS	4 S								
	1500	Q1500 / Q570	-	-	•	-	-	•	-
	2000	Q2000 / Q840	-	-	-	•	-	-	•
OCTA									
	1500	Q1500 / Q570	-	-	•	-	-	•	-
	2000	Q2000 / Q840	-	-	-	•	-	-	•
SERPO Q									
	1500	R1500 / R620	•	-	-	-	•	-	-
	1800	R1800 / R620	•	-	-	-	•	-	-
	2000	R2000 / R825	-	•	-	-	-	•	-
SERPO R									
	1500	R1500 / R620	•	-	-	-	•	-	-
	1800	R1800 / R620	•	-	-	-	•	-	-
	2000	R2000 / R825	-	•	-	-	-	•	-
BELVEDERE									
	1500	R1500 / R620	•	-	-	-	•	-	-
	2000	R2000 / R825	-	•	-	-	-	•	-
CONCORD									
	1500	Q1500 / R620	•	-	-	-	•	-	-
	2000	Q2000 / R825	-	•	-	-	-	•	-

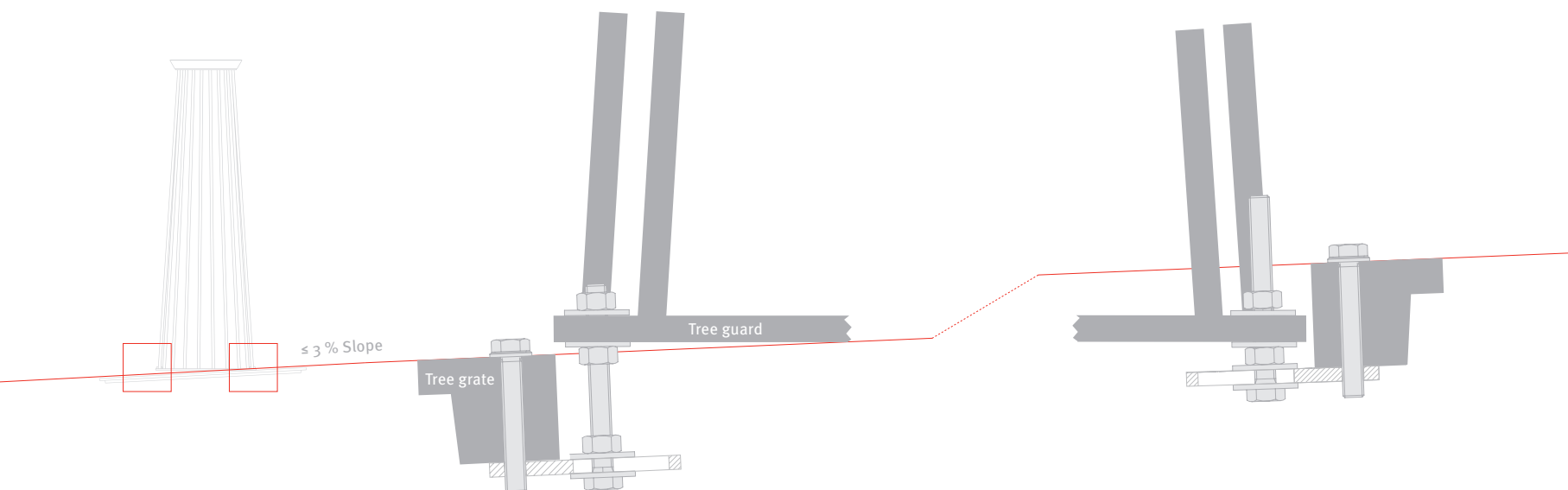
ALGARVE						FANO	
R1	R2	RK1	RK2	Q1	Q2	R1	R2
							
							
-	-	-	-	•	-	-	-
-	-	-	-	-	•	-	-
-	-	-	-	•	-	-	-
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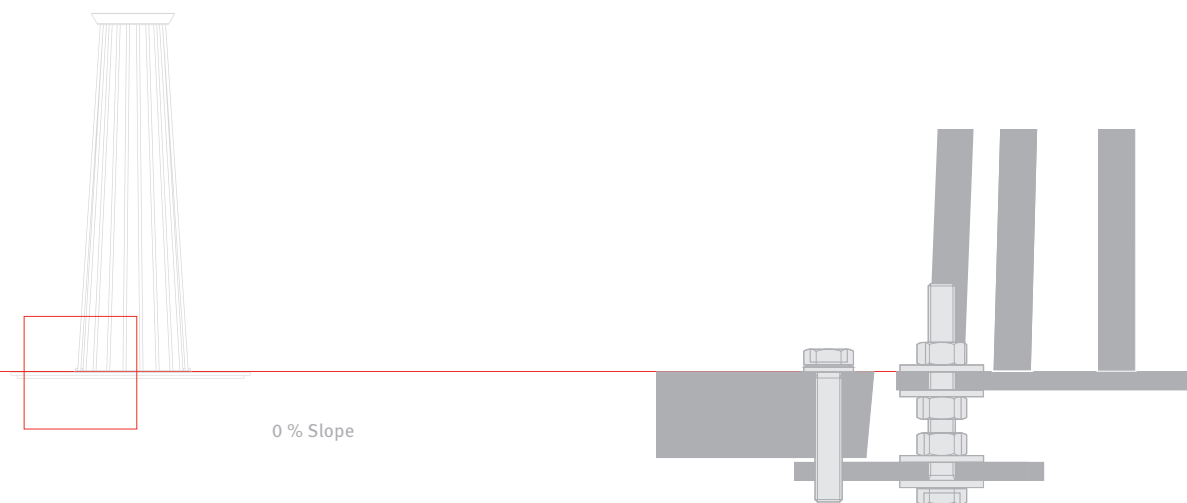
TREE GUARD FASTENING

The tree guard mounts to a bolt that is secured in upright position to a fastener. Up to 3 % horizontal adjustment in both directions permits level compensation.

ATTACHMENT TO A CANTILEVER TREE GRATE

Fasteners bolt to the tree grates (holes in grate provided).









BENCHES

hessy.





Designed by leading designers, Hess benches are the focal points of parks, squares and other public sites.

.hess

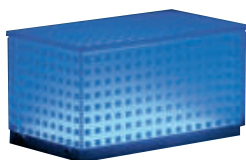
3 . BENCHES



VAREDO
120



CORVUS
124



POSITANO
136



CASTELLO
128



AURIGA
132

VAREDO

VAREDO . Bench

Steel backless bench base frame, galvanised, varnished. Weather resistant ash slats, high-pressure impregnated Slot width 15 mm

Additional charge: Pine slats, waxed, Corten steel bench frame



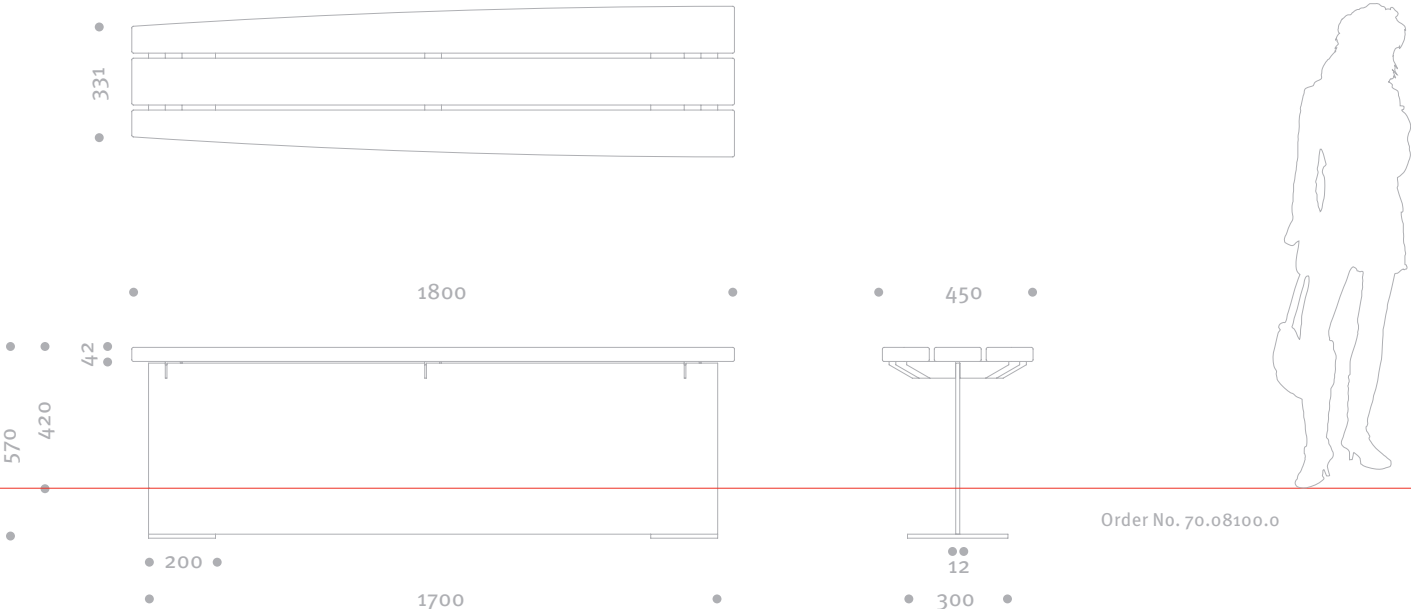
Design: Jean-Marc Schneider

Product information
www.hess.eu/2660



VAREDO

Product Name		Order No.	Colour	Planking
VAREDO	backless	70.08100.0	RAL, mica or DB finish	ash



Order No. 70.08100.0



CORVUS

CORVUS . Bench

Cast aluminium sides. Choice of RAL, mica or DB finish. High-pressure impregnated, weather resistant ash seat and backrest.

CORVUS . Backless Bench

Additional charge: Kambala



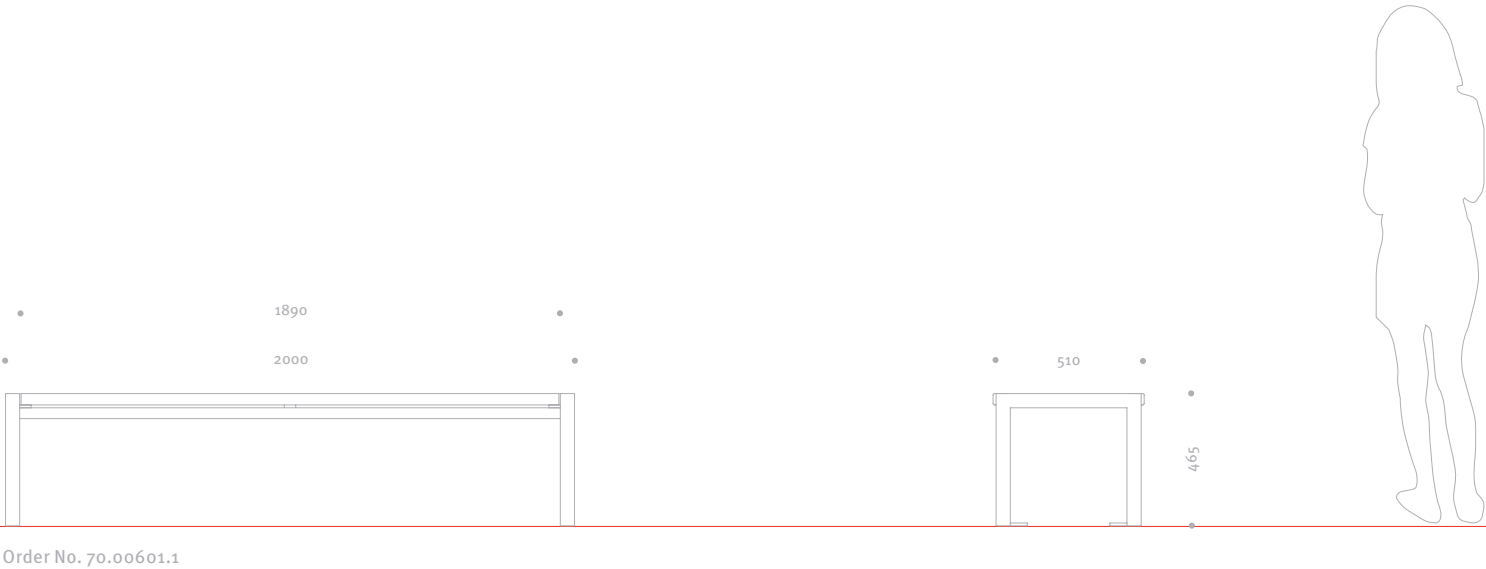
Design: Jean-Michel Wilmotte

Product information
www.hess.eu/0370

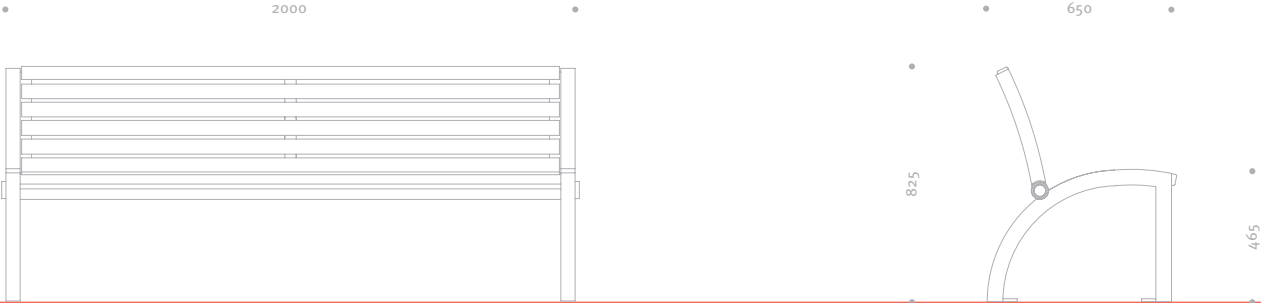


CORVUS

Product Name		Order No.	Colour	Planking
CORVUS	with backrest	70.00600.1	RAL, mica or DB finish	ash
	backless	70.00601.1	RAL, mica or DB finish	ash



Order No. 70.00601.1



Order No. 70.00600.1



CASTELLO

CASTELLO . Bench

Galvanised steel frame. Choice of RAL, mica or DB finish. High-pressure impregnated, weather resistant ash seat and backrest.

CASTELLO . Backless Bench

Additional charge: Kambala.



Product information
www.hess.eu/0377

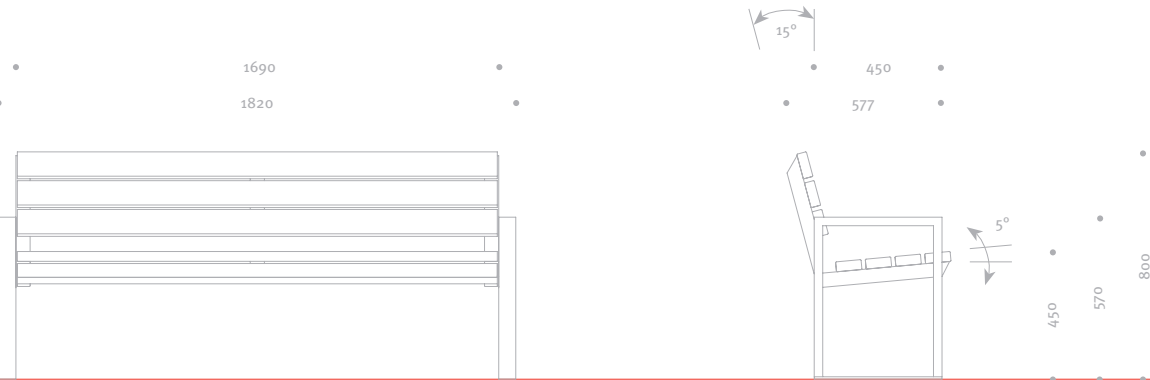


CASTELLO

Product Name		Order No.	Colour	Planking
CASTELLO	with backrest	70.02800.0	RAL, mica or DB finish	ash
	backless	70.02800.1	RAL, mica or DB finish	ash



Order No. 70.02800.1



Order No. 70.02800.0



AURIGA

AURIGA . Bench

Cast aluminium and aluminium section construction. Choice of RAL, mica or DB finish.



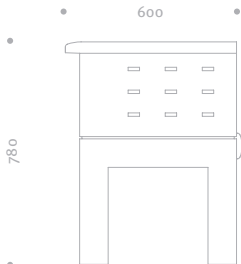
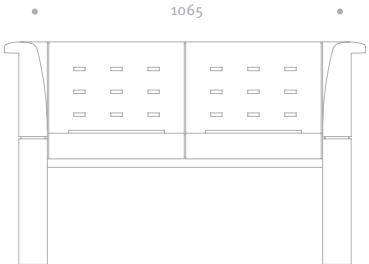
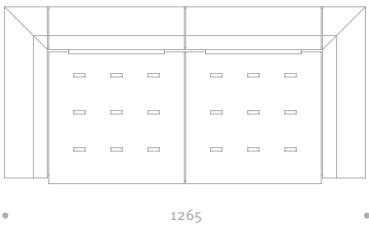
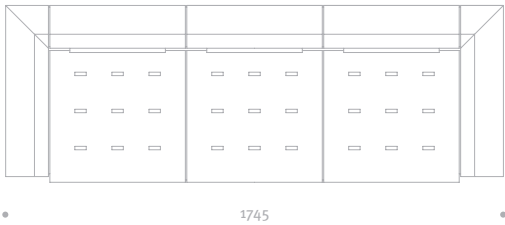
Design: Jean-Michel Wilmotte

Product information
www.hess.eu/0399



AURIGA

Product Name		Order No.
AURIGA	2-seater	70.00500.2
	3-seater	70.00500.3





POSITANO

POSITANO . Illuminating Seat

Single-pane, tempered safety glass housing. Outer glass surface features anti-slip squares in quadratic arranged pattern. Inner glass surface frosted with pattern of squares exactly identical to outer surface for intriguing 3D effect. Stainless steel base (actual luminaire housing) designed for flush installation. 500 kg static load capacity. Light colours: red, green, blue, yellow, white. Fitted for 2 T26 – 18 W (white, red, green, blue, yellow). Each seat has its own fuse.

◆ ▲ Ingress protection IP54 · ⚡ Safety class I · CE

POSITANO LED . Illuminating Seat

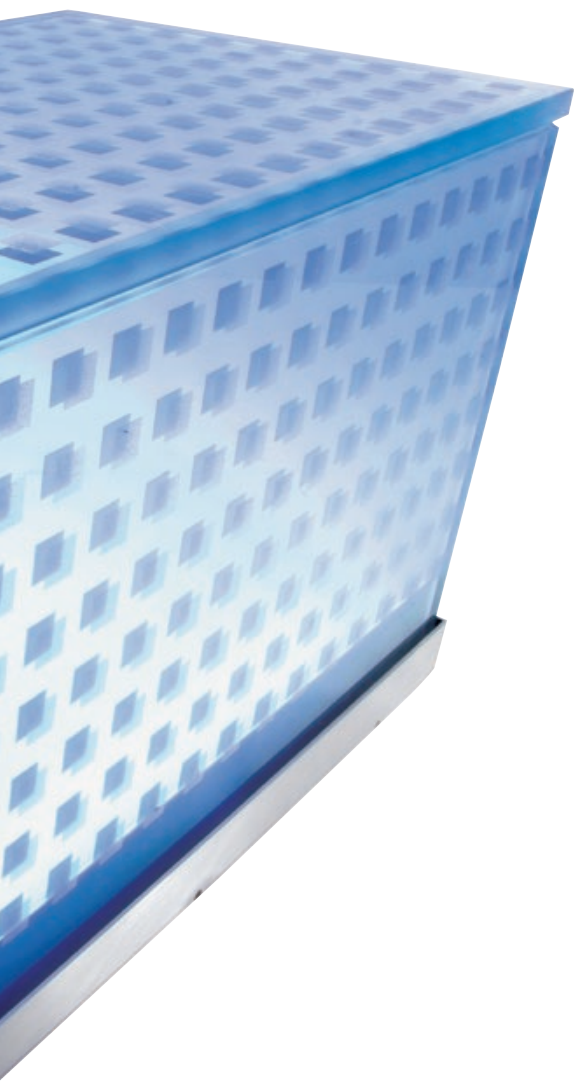
Single-pane, tempered safety glass housing. Outer glass surface features anti-slip squares in quadratic arranged pattern. Inner glass surface frosted with pattern of squares exactly identical to outer surface for intriguing 3D effect. Stainless steel base (actual luminaire housing) designed for flush installation. Static load capacity is 500 kg. Wired and configured for 120 RGB LEDs. Each seat has its own fuse.

◆ ▲ Ingress protection IP54 · ⚡ Safety class I · CE 10/



Design: Karsten Winkels

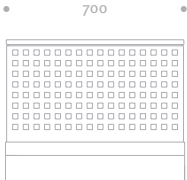
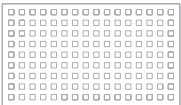
Product information
www.hess.eu/7900



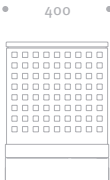
POSITANO

Product Name	Article No.	Lamp	
		LED RGBW	T 26
		45 W	18 W
		G13 2x	
POSITANO Illuminating Seat	12.16400.0	-	•
POSITANO LED Illuminating Seat	12.16400.0	•	-

Order No.: Article No. + Light Colour



• 405 •
• 560 •



Article No. 12.16400.0





POSITANO
LEIPZIG . GERMANY

Fox Design AB Tellusgängen 8, 126 26 Hägersten Telefonplan www.foxdesign.se 08-440 85 40



PLANKING

Treatment of Natural Wood

Kambala and ash are high-grade woods crafted according to the highest standards. All natural wood planking is planed to shape and rough-sanded once before being fine-sanded.

ASH

To achieve weather resistant surface protection, the ash planking is impregnated using the vacuum tank pressure method. Afterwards, the wood swells slightly. It is then sanded again and allowed to age under controlled conditions before use.

Type of Wood:	ash obtained from European plantations, PEFC certified
Wood colour:	greenish following treatment silver following extended time outdoors
Surface finish:	smooth sanded wood absorbs and releases moisture, which may cause spots of mildew to appear on the wood that with time disappear if the wood is outdoors
Wood preservation:	DIN 68800
Wood preservative:	liquid, chromium-free wood protecting salt of inorganic copper-borate compounds and organic agents that protect against fungal decay and mildew fungi as well as against wood-destroying insects
Dimensional stability:	dimensionally stable, with excellent dent and wear resistance
Disposal:	problem-free, thermally recyclable

ROBINIA

Type of Wood:	Robinia, also: false acacia, PEFC-zertifiziert
Wood colour:	Varies from yellowish green over green brown to dark brown
Surface finish:	smooth sanded
Wood preservative:	Very resistant to decay and insect infestation. No pretreatment needed.
Dimensional stability:	dimensionally stable, with excellent dent and wear resistance
Disposal:	problem-free, thermally recyclable

WOOD FROM SUSTAINED FOREST MANAGEMENT

The ash used for the benches has been obtained from sources using PEFC certified forest management practices. PEFC is the world's leading certification organisation for sustainable forestry.



KAMBALA

Type of Wood:	Kambala, also called Iroko
Wood colour:	golden brown
Surface finish:	smooth sanded
Wood preservation:	naturally resistant to weathering and decay, only treated with oil
Dimensional stability:	dimensionally stable, with excellent dent and wear resistance
Disposal:	problem-free, thermally recyclable







WASTE RECEPTACLES

.hess





Impressive in their function and appearance, Hess litter receptacles are a welcome addition to any site.

.hess

4 . WASTE RECEPTACLES



VAREDO
150



CARPO
152



PUNTO
154

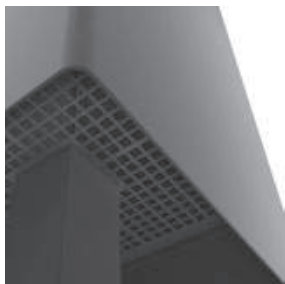
VAREDO

VAREDO . Waste Receptacles

Square container, steel, galvanised, varnished. Centred stand. Upward opening container for emptying. Stainless steel cover with triangular locking mechanism. 60 L capacity

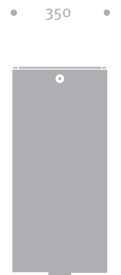
All RAL (classic unicolour shades), Hess DB and Hess glimmer colours.

Additional charge: Equipped with integrated ashtray.



Product Name	Mounting	Order No.	Colour	Capacity
VAREDO	ground	80.32200.0	RAL, mica or DB finish	60 l

Product information
www.hess.eu/2640

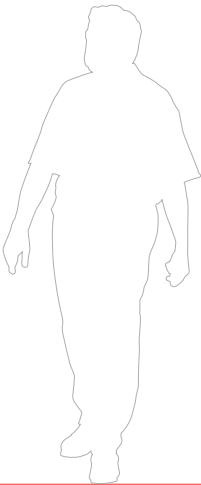


750

900

500

80



Order No. 80.32200.0

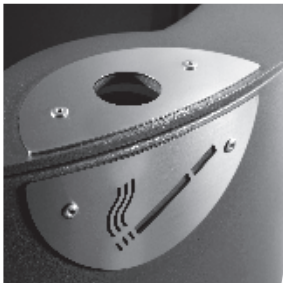
CARPO

CARPO . Waste Receptacles

Galvanised steel post and container. Reduced mouth size and rain-protected opening. Container opens to the side for emptying. Triangular locking mechanism. Includes inner mounted retainer ring for litter bags. Choice of RAL, mica or DB finish.

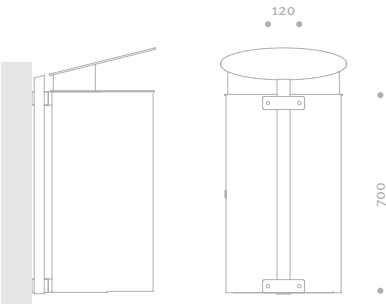
Capacity: 60 l or 90 l

Additional charge: Flange plate. Integrated ash receptacle.

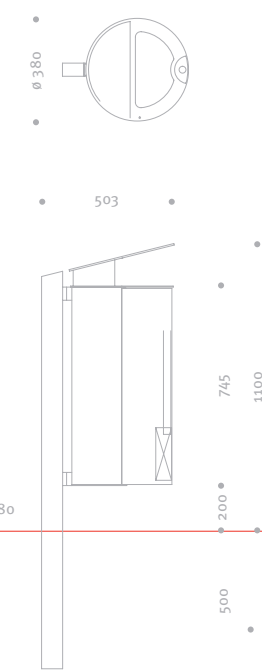


Product Name	Mounting	Order No.	Colour	Capacity
CARPO 380	ground	80.30500.0	RAL, mica or DB finish	60 l
CARPO 440	ground	80.30500.1	RAL, mica or DB finish	90 l
CARPO 380	wall	80.30500.3	RAL, mica or DB finish	60 l
CARPO 440	wall	80.30501.3	RAL, mica or DB finish	90 l

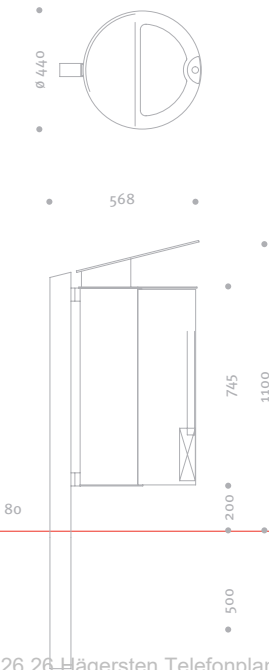
Product information
www.hess.eu/o310



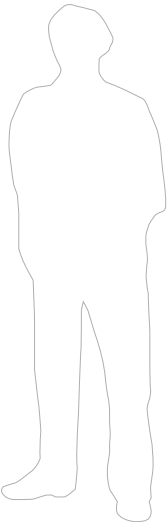
Order No. 80.30500.0



Order No. 80.30500.1



Order No. 80.30500.3



PUNTO

PUNTO . Waste Receptacle

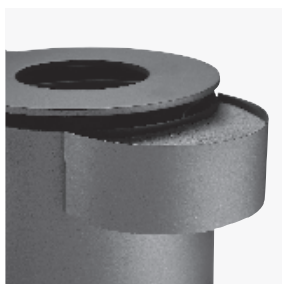
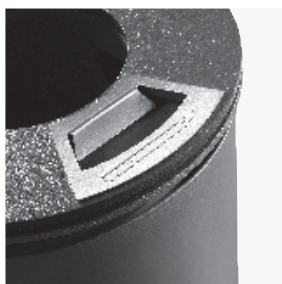
Galvanised steel post and container. Reduced mouth size. Tip function eases emptying. Triangular locking mechanism. PE liner. Choice of RAL, mica or DB finish.

Capacity: Punto 500 = 32 l; Punto 700 = 45 l

Additional charge: Flange plate. Metal liner. Integrated ash receptacle.



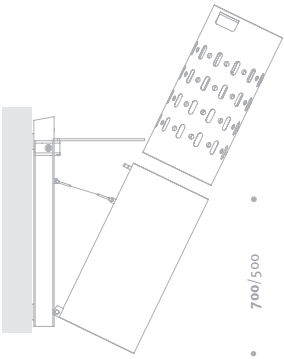
Industrieforum Hannover:
if Seal for design excellence



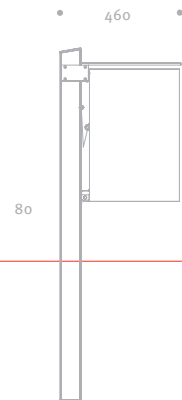
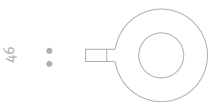
Design: Karsten Winkels

Product Name	Mounting	Order No.	Colour	Capacity
PUNTO 500	ground	80.30900.1	RAL, mica or DB finish	32 l
PUNTO 700	ground	80.30901.1	RAL, mica or DB finish	45 l
PUNTO 500	wall	80.30900.3	RAL, mica or DB finish	32 l
PUNTO 700	wall	80.30901.3	RAL, mica or DB finish	45 l

Product information
www.hess.eu/o301



Order No. 80.30901.3
Order No. 80.30900.3



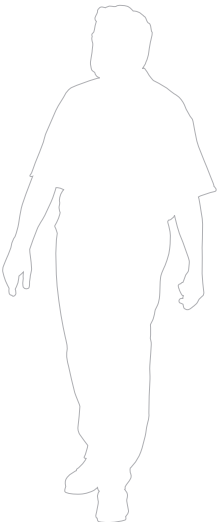
Order No. 80.30900.1



460



Order No. 80.30901.1





PUNTO

VILLINGEN-SCHWENNINGEN . GERMANY

Fox Design AB Tellusgängen 8, 126 26 Hägersten Telefonplan www.foxdesign.se 08-440 85 40

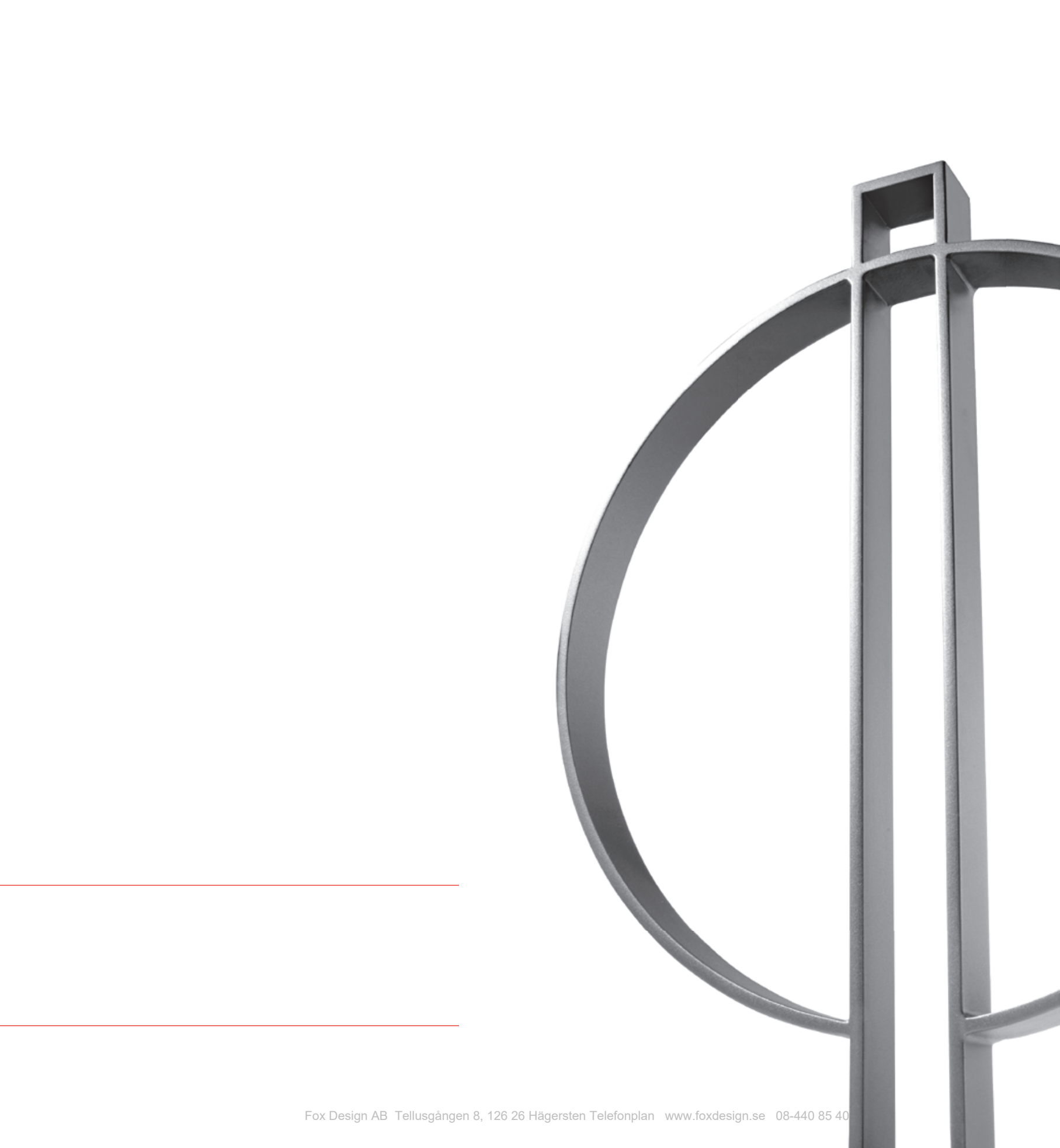






BICYCLE RACKS

.hess





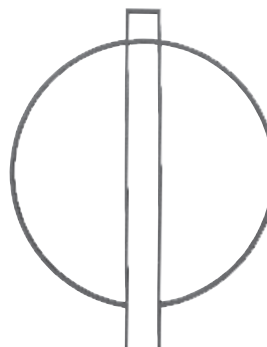
A welcome sight for bicyclists! Aesthetically pleasing and functionally oriented, Hess bicycle racks feature direct contact between the bike and rack for superior front wheel and theft protection. A must for the integration and accommodation of bicyclists in urban environments.

.hess

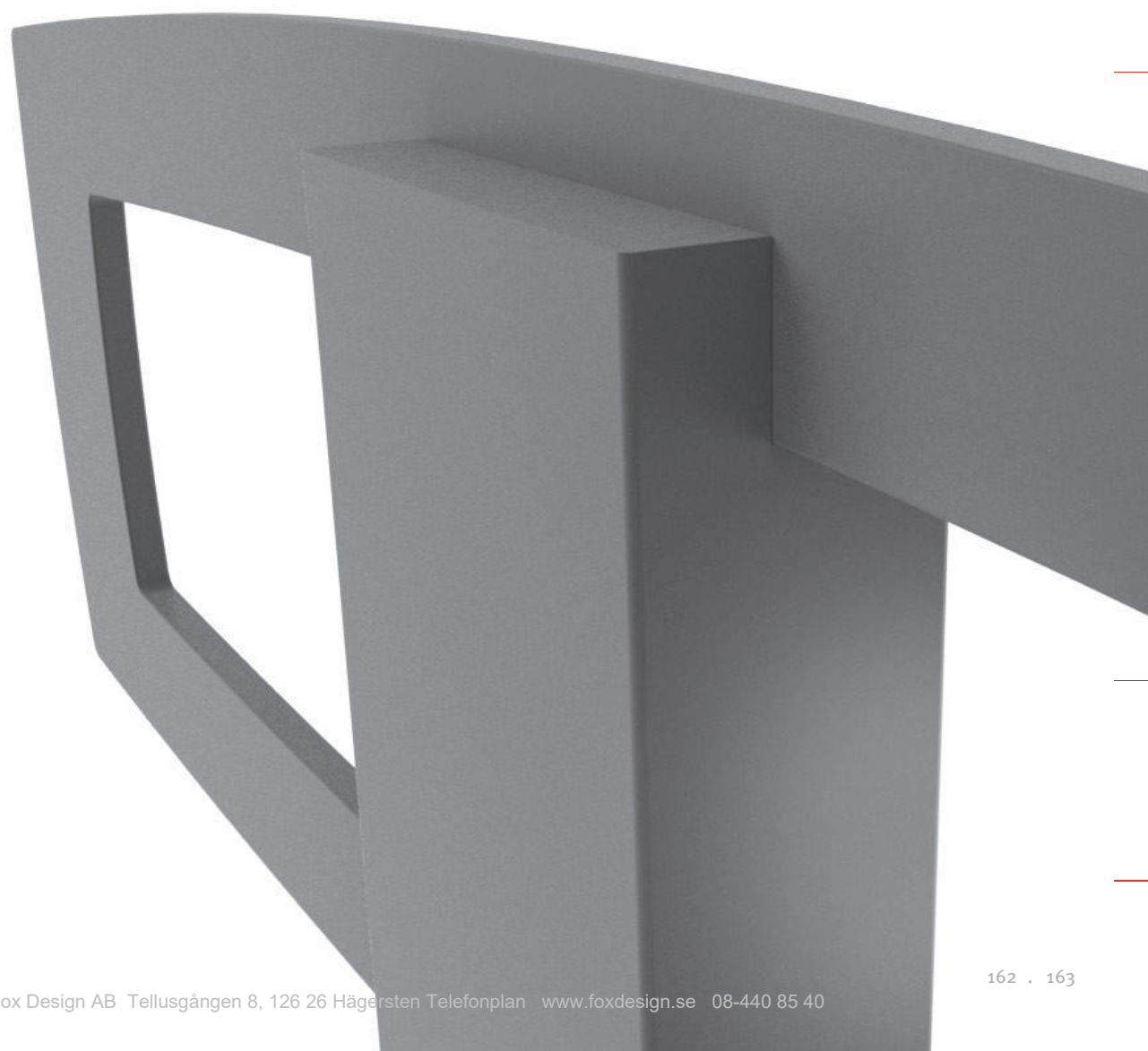
5 . BICYCLE RACKS



VAREDO
164



CERES
166

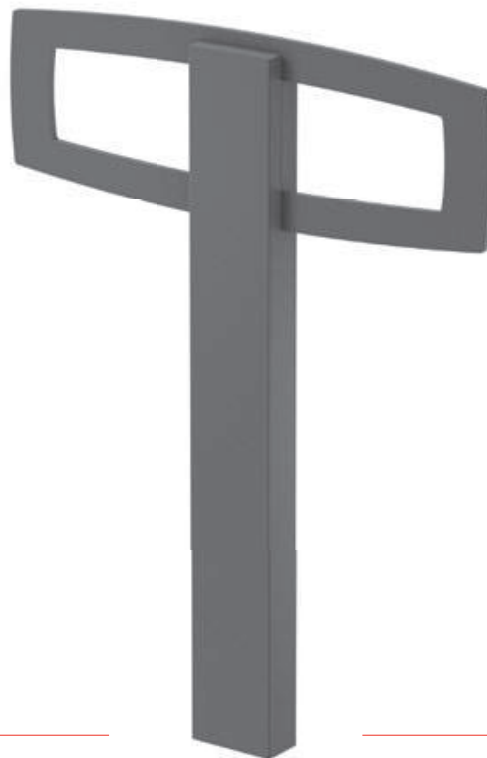


VAREDO

VAREDO . Bicycle Rack

Bollard with square aluminium section and continuous embedded base. Aluminium U-bracket, welded on All RAL (classic unicolour shades), Hess DB and Hess glimmer colours.

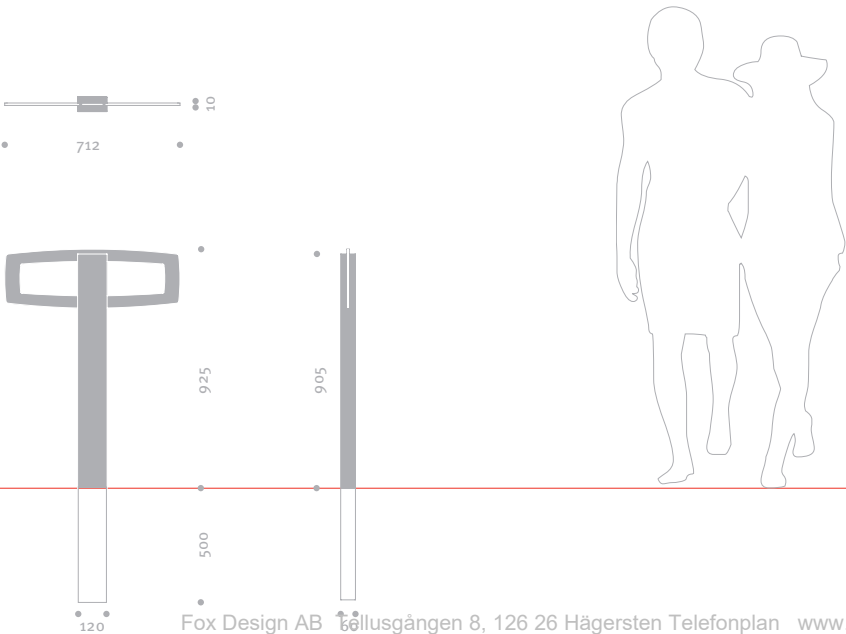
Additional charge: Square flange plate



Design: Jean-Marc Schneider

Product Name	Order No.	Colour
VAREDO	61.12000.0	RAL, mica or DB finish

Product information
www.hess.eu/2630



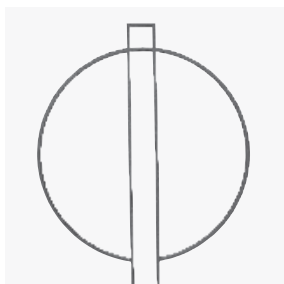
Order No. 61.12000.0

CERES

C E R E S . Bicycle Rack

Galvanised steel construction. Choice of RAL, mica or DB finish.

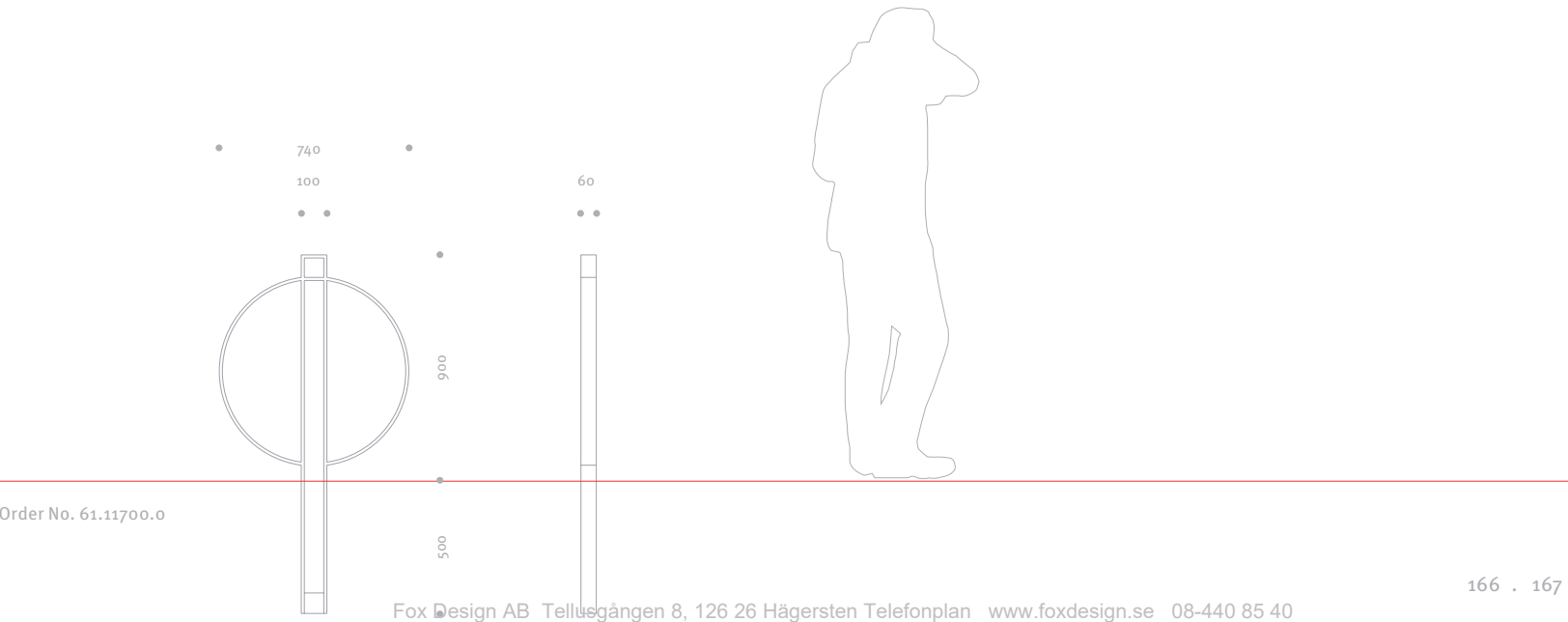
Additional charge: Flange plate.



Design: Jean-Michel Wilmotte

Product Name	Order No.	Colour
CERES	61.11700.0	RAL, mica or DB finish

Product information
www.hess.eu/o807

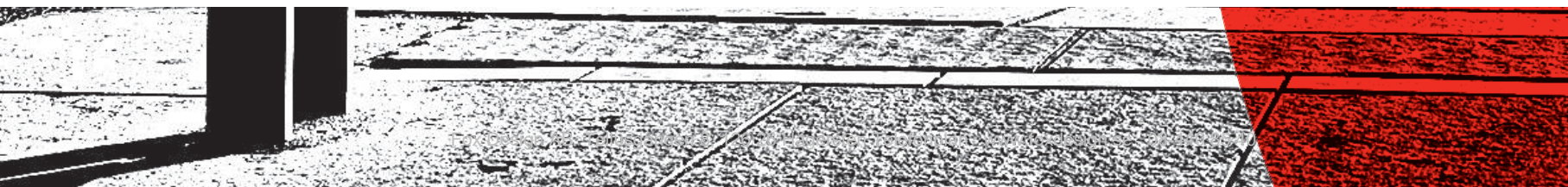




CERES
BEAUFORT . LONDON . ENGLAND

Fox Design AB Tellusgången 8, 126 26 Hägersten Telefonplan www.foxdesign.se 08-440 85 40

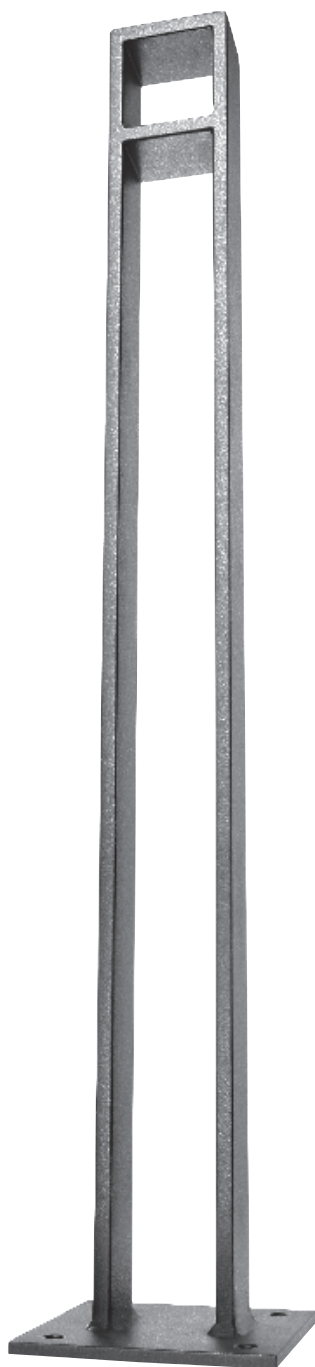






BARRIER SYSTEMS

.hess



Hess's range of bollards is distinguished by variety and includes vintage, classic, modern minimalist and avant-garde forms in cast metals or steel. There's something to match every architectural style.

6 . BARRIER SYSTEMS



VAREDO
176



REGOR
180



PARIS
192



MORANO
186



TORO
190

VAREDO

VAREDO . Barrier Bollard

Blocking bollard with square aluminium tube for fixed installation with continuous embedded base. L-shaped cast-aluminium cap. All RAL (classic unicolour shades), Hess DB and Hess glimmer colours.

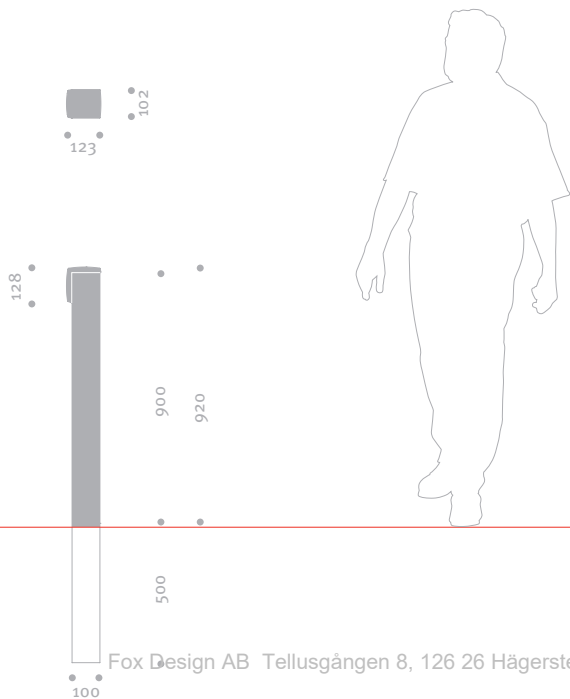
Additional charge: Square flange plate



Design: Jean-Marc Schneider

Product Name	Height	Order No.	Order No.
		Type A	Type C
	mm	fixed	flange mount
VAREDO	900	60.15000.0	60.15000.2

Product information
www.hess.eu/2650



Order No. 60.14801.2



REGOR
VICHY . FRANCE

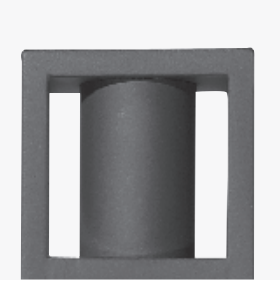
Fox Design AB Tellusgången 8, 126 26 Hägersten Telefonplan www.foxdesign.se 08-440 85 40



REGOR

REGOR . Barrier Bollard
Galvanised steel construction. Choice of RAL, mica or DB finish.

Additional charge: Bicoloured finish (consult factory).
Type C with subsurface flange plate (on request). Chain fastener. Chain

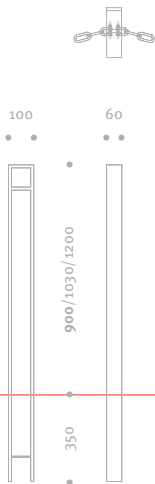


Design: Jean-Michel Wilmotte

Product Name	Height	Order No.	Order No.	Order No.	Order No.
		Type A	Type B	Type C	Type D
	mm	fixed	detachable	flange mount	collapsible
REGOR	900	60.14800.0	60.14800.1	60.14800.2	60.14800.3
	1030	60.14801.0	60.14801.1	60.14801.2	60.14801.3
	1200	60.14802.0	60.14802.1	60.4802.2	60.14802.3

Product information
www.hess.eu/o711

TYP A



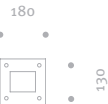
Order No. 60.14800.0

TYP B



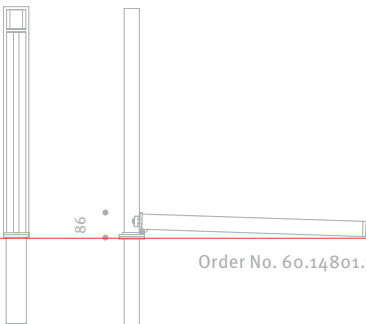
Order No. 60.14801.1

TYP C

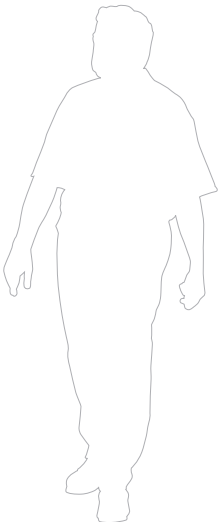


Order No. 60.14801.2

TYP D



Order No. 60.14801.3



REGOR

TYPES OF MOUNTING



Fixed Bollards
TYPE A

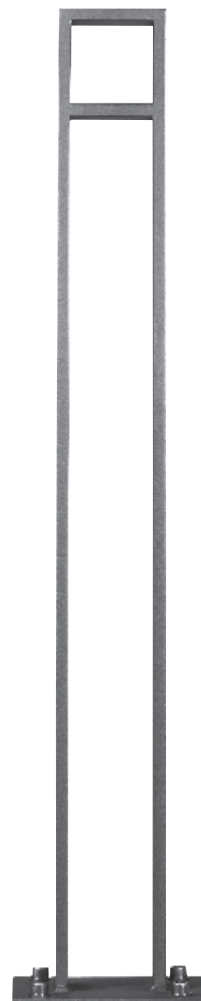
Designed with base that embeds in concrete. Detachment is not possible.



Detachable Bollards
TYPE B

Mount to separate embedded base from which they detach via triangular locking mechanism. Recessed in the top of the bollard, the triangular lock head engages and disengages with a special tool.

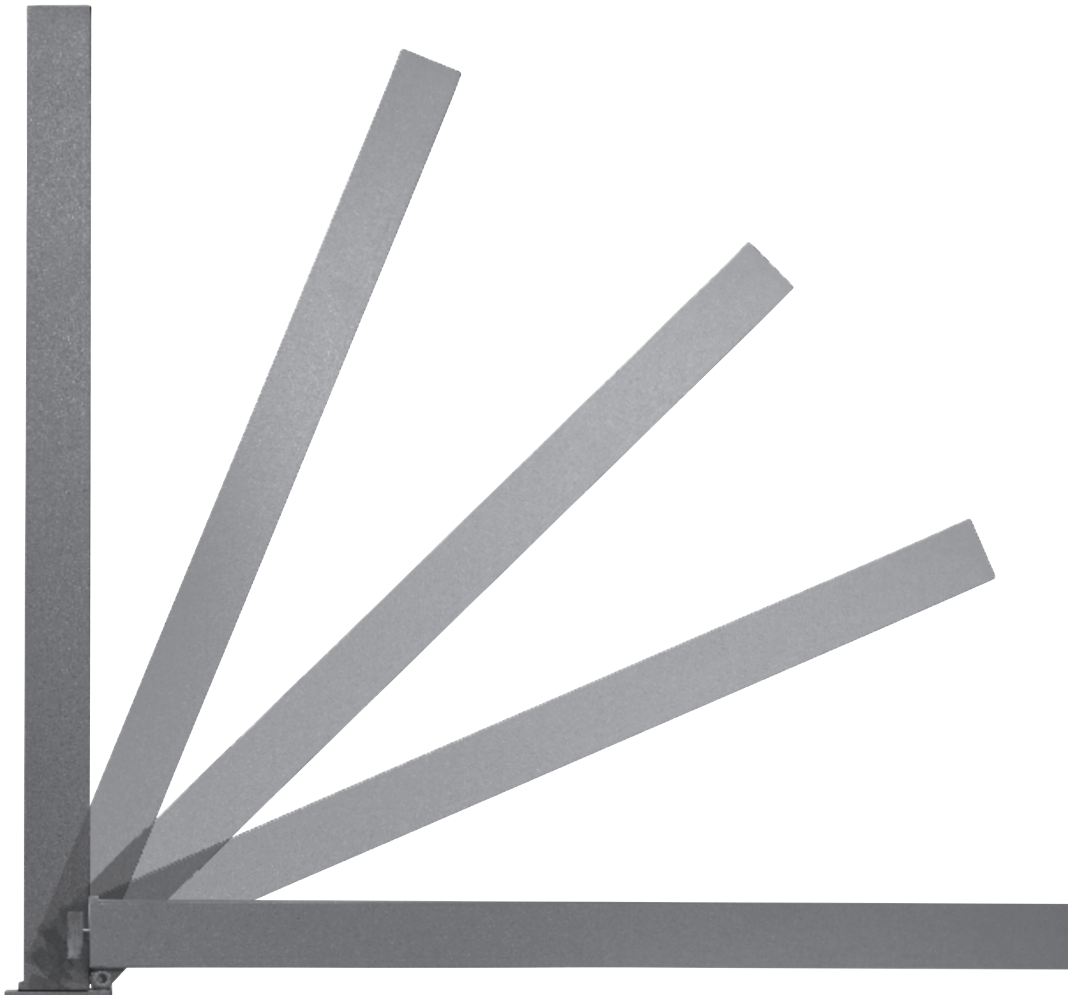
The head turns a camshaft engaging or disengaging the bollard in place. The embedded base installs grade flush in a permanent anchor footing.



Flange Mount Bollards
TYPE C

Employ a flanged base mounting plate instead of embedded base, which mounts via bolts and screw anchors.

Also available with flange plate that installs 200 mm below grade to enable surfacing, paving, etc.



Collapsible Bollards
TYPE D

Come with separate embedded base. Collapse at the joint after being disengaged by means of the triangular keyed locking mechanism.

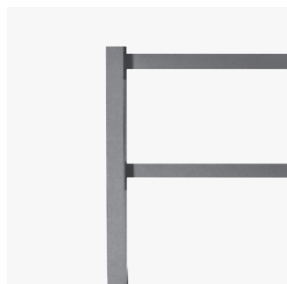
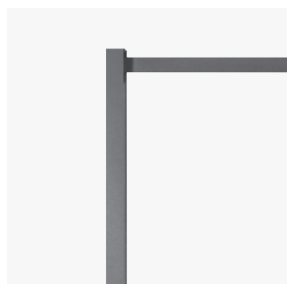
Recessed in the top of the bollard, the triangular lock head operates with a special tool.

The head turns a camshaft releasing or locking the bollard in place. Embedded base installs grade flush in permanent anchor footing.

REGOR

REGOR . Barrier System

Galvanised steel rail and post elements combine as site requirements dictate.
90° - 180° post-to-post placement. Choice of RAL, mica or DB finish.



Design: Jean-Michel Wilmotte



Product Name	Height	Post	Suitable for	Suitable for	Rail
	mm				
		Mounting	1 Rail	2 Rails	(individual)
			REGOR 900-1	REGOR 900-2	REGOR B 1500
REGOR	900	Type A Fixed	60.14810.0	60.14820.0	60.64800.1
	900	Type C Flange Mount	60.14810.2	60.14820.2	60.64800.1
			REGOR 1030-1	REGOR 1030-2	REGOR B 2000
REGOR	1030	Type A Fixed	60.14811.0	60.14821.0	60.64801.1
	1030	Type C Flange Mount	60.14811.2	60.14821.2	60.64801.1

Product information

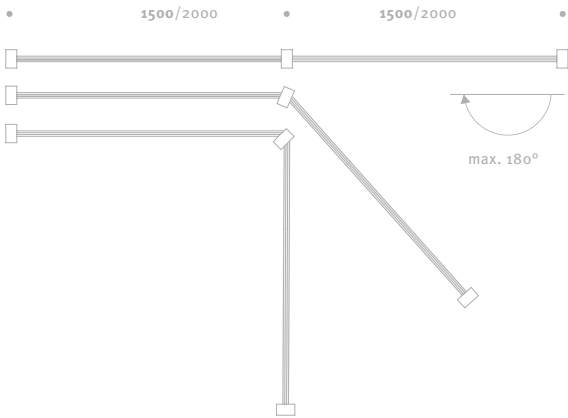
www.hess.eu/o712

Post

REGOR 900-1

Railing

REGOR B 1500, single

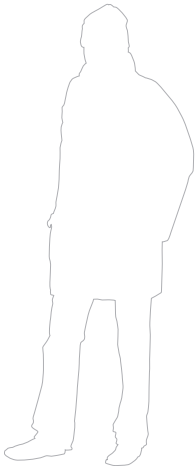
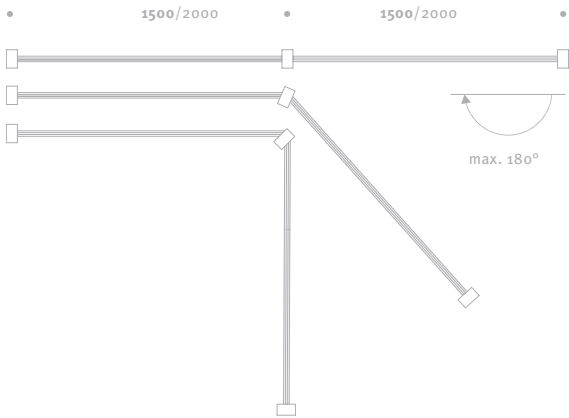


Post

REGOR 900-2

Railing

REGOR B 1500, double



MORANO

MORANO . Barrier Bollard

Galvanised steel bollard construction and aluminium cap.

Choice of RAL, mica or DB finish.

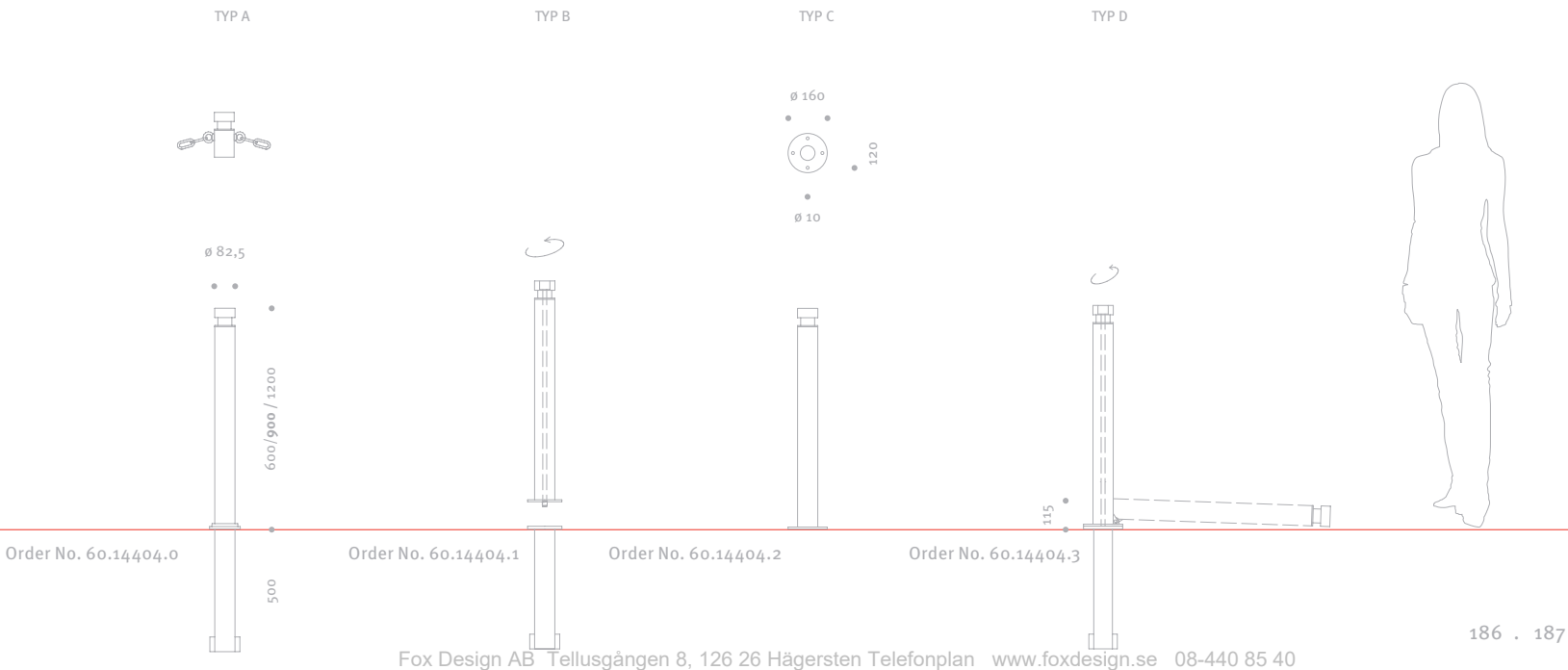
Additional charge: Bicoloured finish (consult factory). Chain fastener. Chain



Design: Karsten Winkels

Product Name	Height	Order No.	Order No.	Order No.	Order No.
		Type A	Type B	Type C	Type D
	mm	fixed	detachable	flange mount	collapsible
MORANO	600	60.14403.0	60.14403.1	60.14403.2	60.14403.3
	900	60.14404.0	60.14404.1	60.14404.2	60.14404.3
	1200	60.14405.0	60.14405.1	60.14405.2	60.14405.3

Product information
www.hess.eu/o720





MORANO
KINTZHEIM . FRANCE

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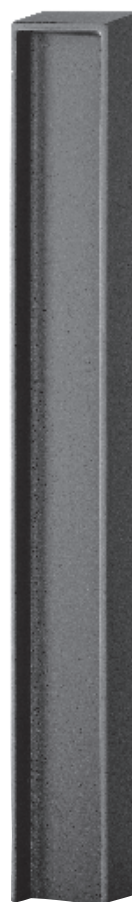


TORO

TORO . Barrier Bollard

Galvanised steel construction. Choice of RAL, mica or DB finish.

Additional charge: Bicoloured finish (consult factory). Chain link.



Design: Karsten Winkels

Product Name	Height	Order No.	Order No.	Order No.	Order No.
		Type A	Type B	Type C	Type D
TORO	mm	fixed	detachable	flange mount	collapsible
	600	60.14201.0	60.14201.1	60.14201.2	60.14201.3
	900	60.14200.0	60.14200.1	60.14200.2	60.14202.4
	1200	60.14203.0	60.14203.1	60.14203.2	60.14203.4

Product information
www.hess.eu/o771

TYP A



Order No. 60.14200.0

TYP B



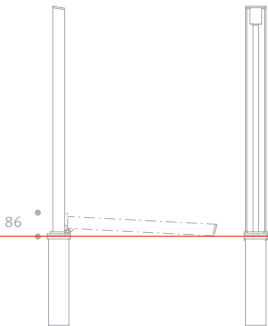
Order No. 60.14200.1

TYP C



Order No. 60.14200.2

TYP D



Order No. 60.14200.3



PARIS

PARIS 1100 . Barrier Bollard
Galvanised steel construction with aluminium cap. Choice of RAL, mica or DB finish.

Additional charge: Bicoloured finish (consult factory).

PARIS 1200 . Barrier Bollard
Galvanised steel construction with aluminium cap. Choice of RAL, mica or DB finish.

Additional charge: Bicoloured finish (consult factory).



Design: Jean-Michel Wilmotte

Product Name	Height	Order No.	Order No.	Order No.	Order No.
		Type A	Type B	Type C	Type D
		fixed	detachable	flange mount	collapsible
PARIS 600	600	60.10301.0	60.10301.1	60.10301.2	–
PARIS 1100	1100	60.10302.0	60.10302.1	60.10302.2	60.10302.3
PARIS 1200	1200	60.10303.0	60.10303.1	60.10303.2	60.10303.3

Product information
www.hess.eu/o702

TYP A



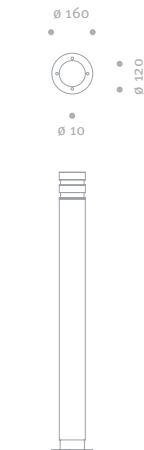
Order No. 60.10302.0

TYP B



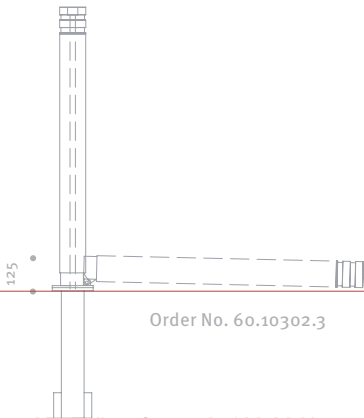
Order No. 60.10302.1

TYP C



Order No. 60.10302.2

TYP D



Order No. 60.10302.3





POWER AND WATER BOLLARDS

.hess



Function is the first quality on which power and water bollards are measured. For Hess, packaging function in an attractive suit is by no means of little importance, as is readily apparent.

.hess

7 . POWER AND WATER BOLLARDS



TOLEDO 250
202



TOLEDO 350
206

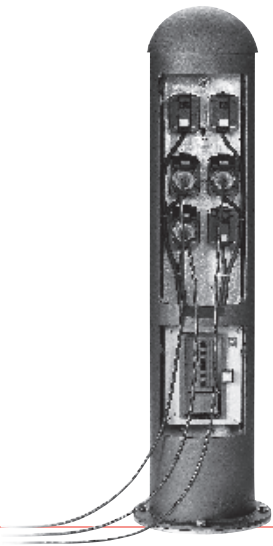


MORANO
210

INSTALLATION

Description of power bollard installation using TOLEDO 250 as an example.

Installation Description



Open Door Operation
During operation, the door remains open and the power cable extends out of the bollard.



Closed Door Operation
The door remains closed during operation with power cable running out of the outlet in the closed door.



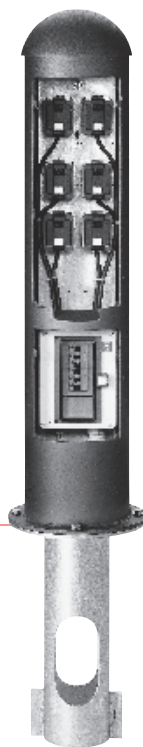
1. First, the embedded base installs in the ground.



2. The electrical assembly mounts to the embedded base. Electrical assembly wires to mains. Bollard housing and electrical assembly plate require earthing.



3. Bollard housing slips over the electrical assembly plate.



4. Housing bolts to the embedded base and the assembly plate bolts to the housing (near the door).



5. Out of service

TOLEDO 250

TOLEDO 250 GS . Power Bollard

Designed for closed door operation. Comes with two access doors and cable outlet. Steel housing galvanised in and out. Includes separate bolt-on embedded base with two cable openings. Access doors come with cylinder locks for reliable safety and security. Electrical assembly plate provided for configuration by others. Choice of RAL, RAL, mica or DB finish.

Additional charge: Electrical configuration GS 1 – GS 6, pre-wired and ready for connection.

TOLEDO 250 W . Water Bollard

Designed for open door operation. Comes with two access doors.

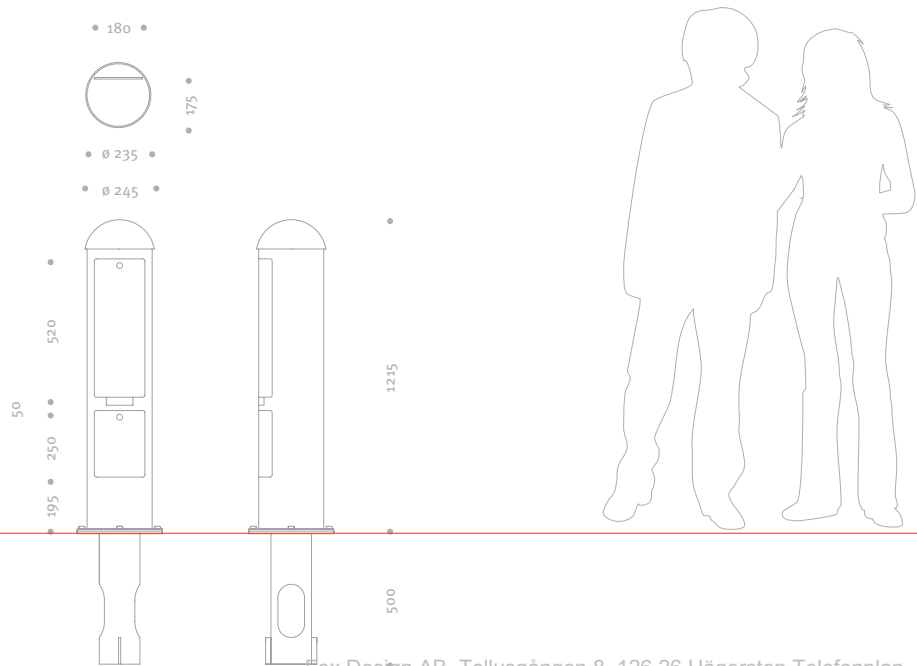


Fig.: Configuration examples

Product Name	Housing Art. No.	Colour
TOLEDO 250 GS	60.12405.0	RAL, mica or DB finish
TOLEDO 250 W	60.12412.0	RAL, mica or DB finish

Order No.: Housing Art. No. + Configuration

Product information
www.hess.eu/o791







TOLEDO 250

IMPORTANT: Operation of the power bollard shall be subject to applicable local and national codes, guidelines and laws. The electrical assembly plate is designed for configuration by others (GS o). Any other configurations shown here serve solely as examples of potential configurations.

Configuration Schuko 250 V / 16 A CEE 250 V / 16 A 3p. 6 h CEE 400 V / 16 A 5p. 6 h CEE 400 V / 32 A 5p. 6 h



Configuration				
GS 0	—	—	—	—
GS 1	6	—	—	—
GS 2	—	6	—	—
GS 3	3	—	1	—
GS 4	3	—	—	1
GS 5	—	3	1	—
GS 6	—	3	—	1

Configuration Water Faucet 3/4" Water Metre 3/4" cold Shut-off Valve 5/4"



W 1 2 2 1

* For illustration purposes only

	Automatic Circuit Breaker			Underground Cable
	B Type			Max.
	16 A	16 A	32 A	1 x
	1p.	3p.	3p.	5 x 16 ²
	—	—	—	—
	6	—	—	1
	6	—	—	1
	3	1	—	1
	3	—	1	1
	3	1	—	1
	3	—	1	1

TOLEDO 350

TOLEDO 350 GS . Power Bollard

Designed for closed door operation. Comes with two access doors and cable outlet. Steel housing galvanised in and out. Includes separate bolt-on embedded base with two cable openings. Access doors come with cylinder locks for reliable safety and security. Electrical assembly plate provided for configuration by others. Choice of RAL, mica or DB finish.

Additional charge: Electrical configuration GS 7 – GS 12, pre-wired and ready for connection.

TOLEDO 350 W . Water Bollard

Designed for open door operation. Comes with one access door.

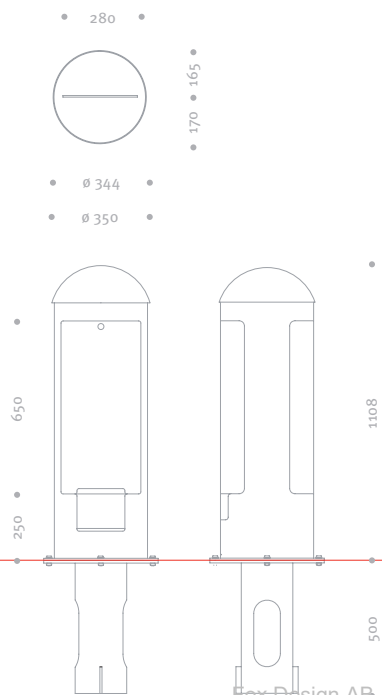


Fig.: Configuration examples

Product Name	Housing Art. No.	Colour
TOLEDO 350 GS	60.12404.0	RAL, mica or DB finish
TOLEDO 350 W	60.12421.0	RAL, mica or DB finish



Order No.: Housing Art. No. + Configuration




Product information
www.hess.eu/o792



TOLEDO 350

IMPORTANT: Operation of the power bollard shall be subject to applicable local and national codes, guidelines and laws. The electrical assembly plate is designed for configuration by others (GS o). Any other configurations shown here serve solely as examples of potential con-figurations.

Configuration	Schuko 250 V / 16 A	CEE 250 V / 16 A 3p. 6 h	CEE 400 V / 16 A 5p. 6 h	CEE 400 V / 32 A 5p. 6 h	Automatic Circuit Breaker B Type		
					16 A 1p.	16 A 3p.	32 A 3p.
GS 0	—	—	—	—	—	—	—
GS 7	10	—	—	—	10	—	—
GS 8	—	10	—	—	10	—	—
GS 9	6	—	2	—	6	2	—
GS 10	6	—	—	2	6	—	2
GS 11	—	4	2	—	4	2	—
GS 12	—	4	—	2	4	—	2

Configuration	Water Faucet 3/4"	Water Metre 3/4" cold	Shut-off Valve 5/4"
			
W 1	3	3	1

* For illustration purposes only

RCD Bodily Injury Protection 30 mA		Underground Cable Max.	
40 A	63 A	2 x	2 x
4p.	4p.	5 x 16 ²	5 x 25 ²
–	–	–	–
2	–	1	A
2	–	1	A
2	–	1	A
1	1	1	A
2	–	1	A
1	1	1	A

A = on request

MORANO

MORANO GS . Power Bollard

Designed for closed door operation. Comes with two access doors and cable outlet. Steel housing galvanised in and out. Includes separate bolt-on embedded base with two cable openings. Electrical assembly plate provided for configuration by others. Access doors come with cylinder locks for reliable safety and security. Choice of RAL, mica or DB finish.

Additional charge: Electrical configuration GS 1 – GS 6, pre-wired and ready for connection.

MORANO W . Water Bollard

Designed for open door operation. Comes with two access doors.

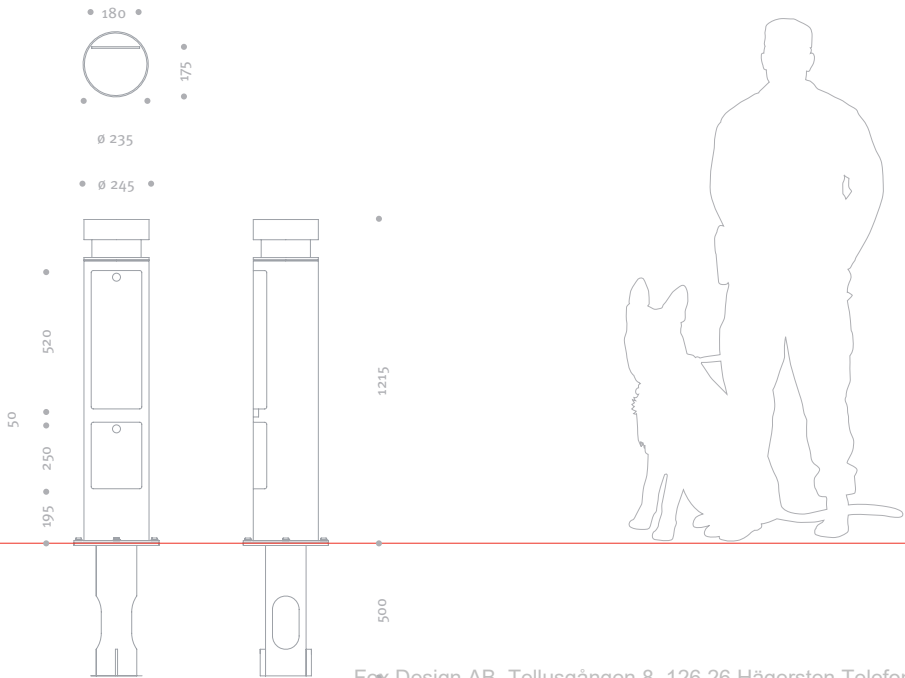


Fig.: Configuration examples

Product Name	Housing Art. No.	Colour
MORANO GS	60.14401.0	RAL, mica or DB finish
MORANO W	60.14410.0	RAL, mica or DB finish

Order No.: Housing Art. No. + Configuration





Product information
www.hess.eu/0795





MORANO

IMPORTANT: Operation of the power bollard shall be subject to applicable local and national codes, guidelines and laws. The electrical assembly plate is designed for configuration by others (GS o). Any other configurations shown here serve solely as examples of potential configurations.

Configuration Schuko 250 V / 16 A CEE 250 V / 16 A 3p. 6 h CEE 400 V / 16 A 5p. 6 h

				
GS 0	—	—	—	—
GS 1	6	—	—	—
GS 2	—	6	—	—
GS 3	3	—	1	—
GS 4	3	—	—	1
GS 5	3	—	1	—
GS 6	—	3	—	1

Configuration Water Faucet 3/4" Water Metre 3/4" cold Shut-off Valve 5/4"

			
W 1	2	2	1

* For illustration purposes only

Automatic Circuit Breaker B Type			Underground Cable Max.
16 A	16 A	32 A	1 x
1p.	3p.	3p.	5 x 16 ²
–	–	–	–
6	–	–	1
6	–	–	1
3	1	–	1
3	–	1	1
3	1	–	1
3	–	1	1





PLANTERS

.hess



Decoratively useful shapes and proportions – Hess makes public design complete and all-encompassing. Available in different sizes, Hess planters beautify streetscapes and add green vitality to urban and corporate environments.

8 . PLANTERS



PALMA Q
2 2 0



PALMA R
2 2 2



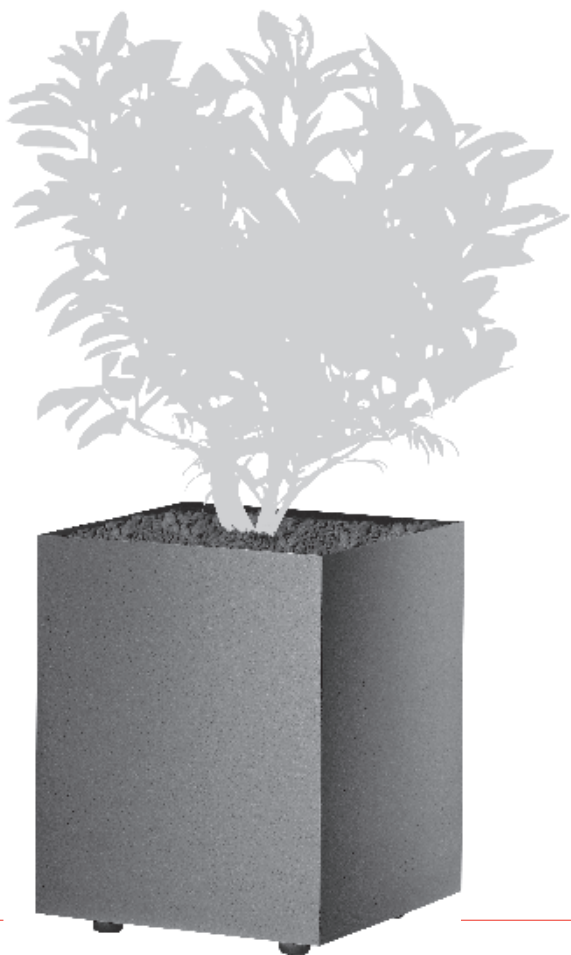
PALMA L
2 2 6

PALMA Q

PALMA Q . Planter . Square

Aluminium construction with closed bottom. Includes non-adjusting feet.
Choice of RAL, mica or DB finish.

NOTE: Version B-Outdoor - Comes with drain pipe assembly and
plug for outdoor use.



Palma Q 800/900



Palma Q 600



Palma Q 800/540

Product Name	Order No.	Colour	Dimensions in mm	
			Q	H
	Version A-INDOOR	Version B-OUTDOOR		
PALMA Q 300	90.21600.0	90.21601.0	RAL, mica or DB finish	□ 300 375
PALMA Q 400	90.21600.1	90.21601.1	RAL, mica or DB finish	□ 400 540
PALMA Q 600	90.21600.2	90.21601.2	RAL, mica or DB finish	□ 600 750
PALMA Q 800/540	90.21600.3	90.21601.3	RAL, mica or DB finish	□ 800 540
PALMA Q 800/900	90.21600.4	90.21601.4	RAL, mica or DB finish	□ 800 900

Product information
www.hess.eu/o890



Palma Q 400



Palma Q 300



PALMA R

PALMA R . Planter . Round

Aluminium construction with closed bottom. Includes non-adjusting feet.
Choice of RAL, mica or DB finish.

NOTE: Version B-Outdoor - Comes with drain pipe assembly and plug for outdoor use.



Palma R 800/900



Palma R 600



Palma R 800/540

Design: Klaus Begasse

Product Name	Order No.	Colour	Dimensions in mm	
			D	H
	Version A - INDOOR	Version B - OUTDOOR		
PALMA R 300	90.21500.0	90.21500.0	RAL, mica or DB finish	Ø 300 375
PALMA R 400	90.21500.1	90.21501.1	RAL, mica or DB finish	Ø 400 540
PALMA R 600	90.21500.2	90.21501.2	RAL, mica or DB finish	Ø 600 750
PALMA R 800/540	90.21500.3	90.21501.3	RAL, mica or DB finish	Ø 800 540
PALMA R 800/900	90.21500.4	90.21501.4	RAL, mica or DB finish	Ø 800 900

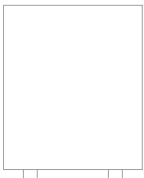
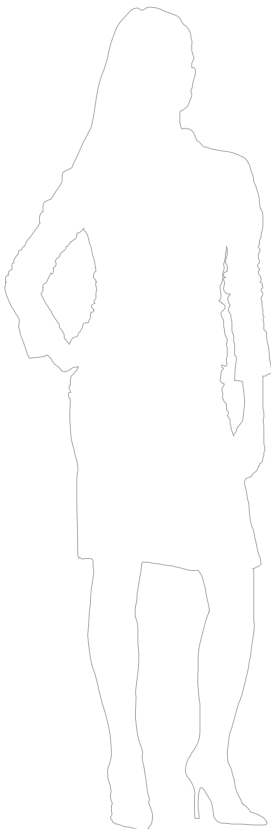
Product information
www.hess.eu/o895



Palma R 400



Palma R 300





PALMA Q
DONAUESCHINGEN . GERMANY

Fox Design AB Tellusgängen 8, 126 26 Hägersten Telefonplan www.foxdesign.se 08-440 85 40



PALMA L

PALMA L . Planter . Long

Aluminium construction with closed bottom. Includes non-adjusting feet.
Choice of RAL, mica or DB finish.

NOTE: Version B-Outdoor - Comes with drain pipe assembly and plug for outdoor use.



Palma L 800/600



Palma L 600/400

Design: Klaus Begasse

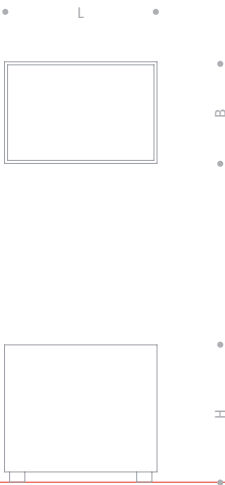
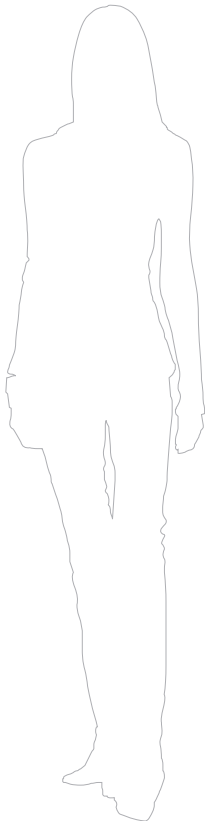
Product Name	Order No.		Colour	Dimensions in mm		
				L	B	H
	Version A - INDOOR	Version B - OUTDOOR				
PALMA L 450/300	90.21700.0	90.21700.0	RAL, mica or DB finish	450	300	375
PALMA L 600/400	90.21700.1	90.21701.1	RAL, mica or DB finish	600	400	540
PALMA L 800/600	90.21700.2	90.21702.1	RAL, mica or DB finish	800	600	75

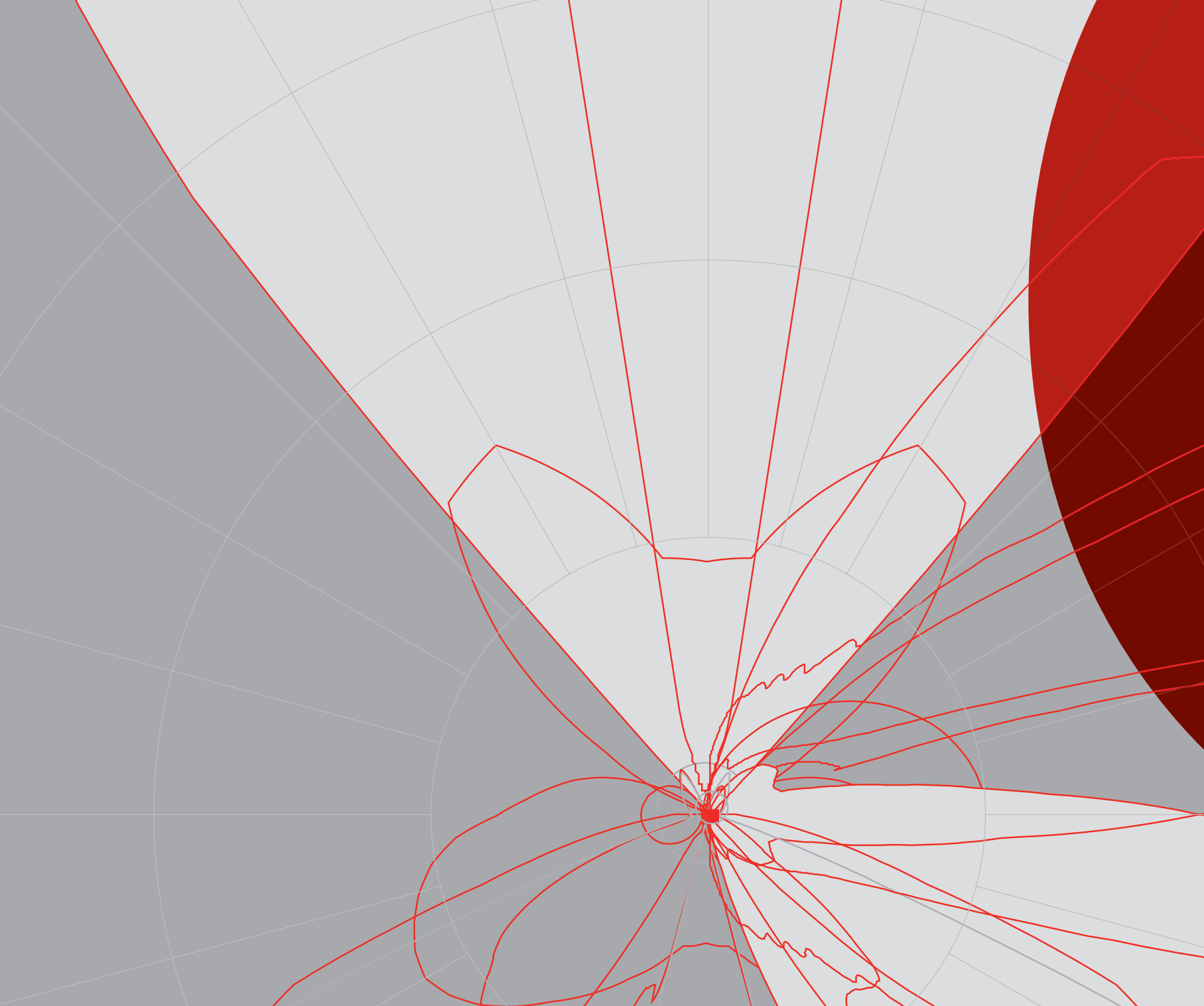
Product information
www.hess.eu/o891

L Length
B Width
H Height



Palma L 450/300





TECHNICAL INFORMATION

.hess

SYMBOLS

With the purchase of Hess luminaires, the customer obtains the assurance of excellent quality and enduring durability. Hess's DIN ISO 9001 certification is evidence of its commitment to providing high quality service and products. Hess GmbH commits itself to compliance with all existing environmental laws and regulations. Hess's DIN EN ISO 9001 certification verifies our compliance.

Hess lighting systems comply with national and international safety regulations. The applicable indications are displayed on the rating plates.

Excluding the luminaires with Class III protection rating, all Hess luminaires are designed to operate with 230 V, 50 Hz supply voltage in compliance with DIN-IEC 38.

SAFETY SYMBOLS



ENEC

The ENEC mark (European Norms Electrical Certification) is a European approval and certification marking for lighting fixtures and electrical components used in lighting systems. It certifies that a product complies with currently applicable European standards and signifies that inspection by the respective testing institute has been performed. The ENEC marking appears together with the identification number of the national testing institute and is often displayed with the institute's logo. Every Hess product is CE-compliant. ENEC certificates are available for selected models in the various product families.



CE

The CE marking signifies that the product conforms to all the essential requirements of all relevant EU directives. It is applied to the luminaire, packaging or accompanying documents by the manufacturer or importer. It is not the mark of any particular approval institute.



F Mark

Luminaires suitable for mounting on normally combustible surfaces.

TECHNICAL SYMBOLS



Minimum distance to illuminated surface



Nominal temperature of cables



High pressure sodium lamp requires an external ignitor.



High pressure sodium lamp requires an internal ignitor.

SAFETY CLASSIFICATIONS

The luminaires are designated in three classes according to the protection they provide against high contact voltage.



Protection rating I: Luminaires in this class have basic electrical insulation and all of their potentially electrically conductive parts are connected to a protective conductor. The protective conductor displays this marking.



Protection rating II: Live parts are fitted with additional insulation. Connection to a protective conductor is not permitted.



Protection rating III: Luminaires in this class operate on safety low voltage (SELV) and require no extra protective measures.



Wood from sustained forest management: The ash and robinia used for the benches has been obtained from sources using PEFC certified forest management practices. PEFC is the world's leading certification organisation for sustainable forestry.

INGRESS PROTECTION SYMBOLS



Splash water protected
Ingress protection IPX4



Multi-directional nozzle projected water protection
Ingress protection IPX5



Watertight (immersible under limited conditions)
Ingress protection IPX7



Submersible (prolonged submersion under pressure)
Ingress protection IPX8



Dust protected
Ingress protection IP5X



Dust tight
Ingress protection IP6X

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www.zwei14.de

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