

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

Two-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%.



The name Hess has always stood for excellent product quality. All the tree grates bear the designation "Made in Germany".

The manufacture of the tree grates, the materials and the workmanship are subject to regular, strict quality control, which is verifiable. This gives Hess the confidence to guarantee the high quality of the surfaces and environmentally friendly casting as well as the tested and certified wheel load capacity of 5 tonnes.

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.

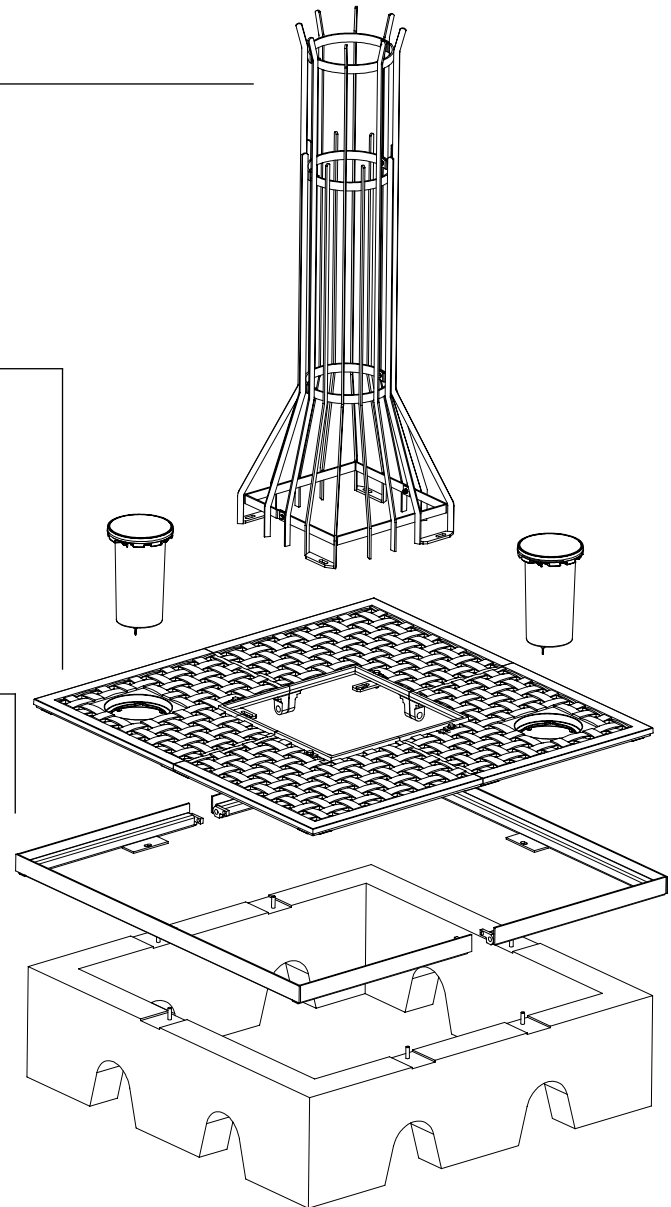
CANTILEVER FRAMES

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

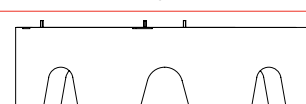
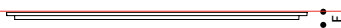
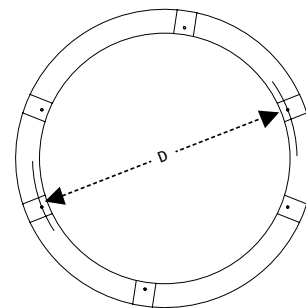
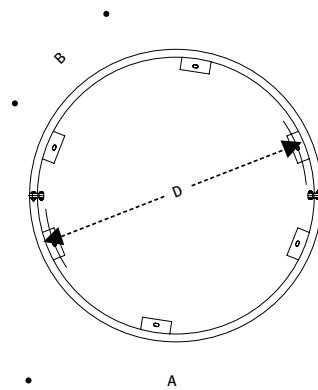
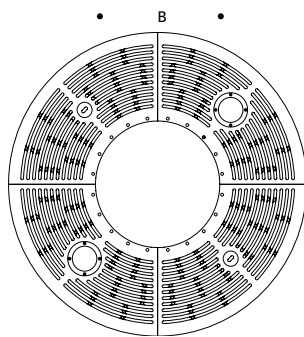
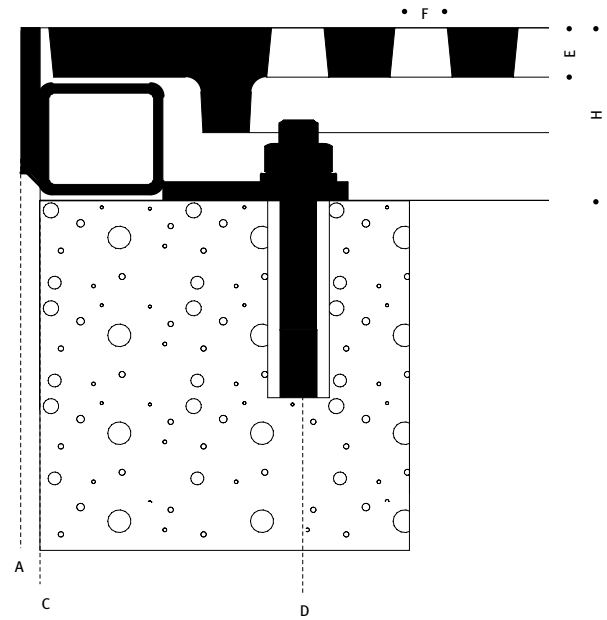
- Easy paving
- Completion of adjacent earth work and surfacing
- Planting after the completion of construction work
- Installation of the tree grates after the completion of construction work

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

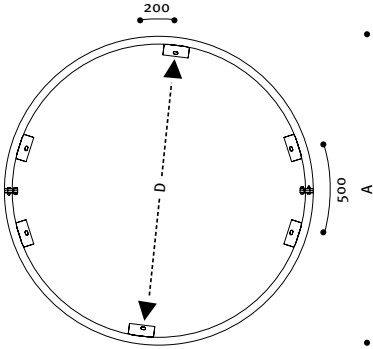
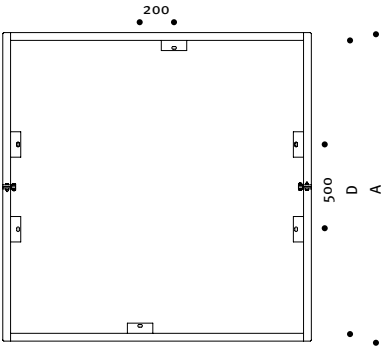


4 S – CANTILEVER FRAME

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



H



H

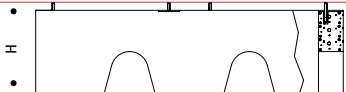
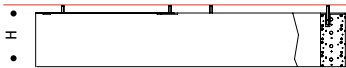
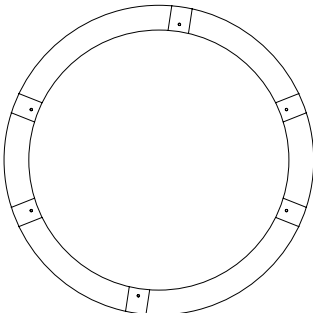
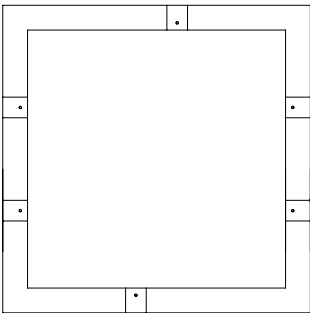
4 S – CONCRETE FOUNDATIONS

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





WASTE RECEPTACLES

.hess





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

4 . WASTE RECEPTACLES



VAREDO
154



CARPO
156



PUNTO
158

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

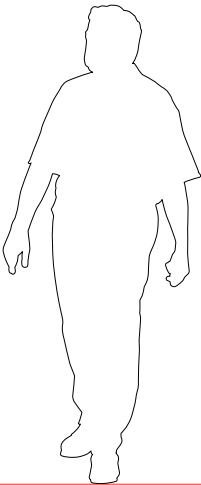
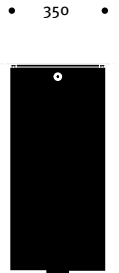
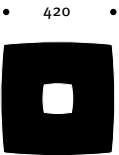
All RAL (classic unicolour shades), Hess DB and Hess glimmer colours.

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



Order No. 80.32200.0

80

750

900

500

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.

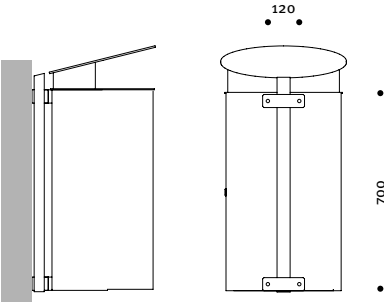
Capacity: 60 l or 90 l

Additional charge: Flange plate. Integrated ash receptacle.

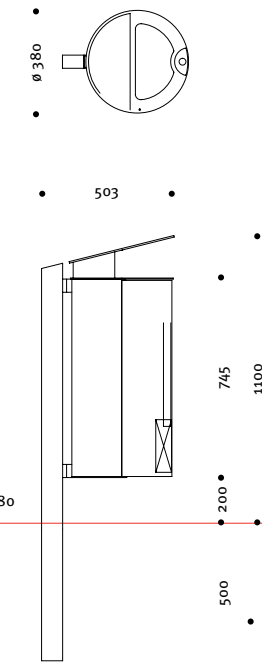


Product Name	Mounting	Order No.	Colour	Capacity
CARPO 380	ground	80.30500.0	RAL, mica or DB finish	60 l
CARPO 440	ground	80.30500.1	RAL, mica or DB finish	90 l
CARPO 380	wall	80.30500.3	RAL, mica or DB finish	60 l
CARPO 440	wall	80.30501.3	RAL, mica or DB finish	90 l

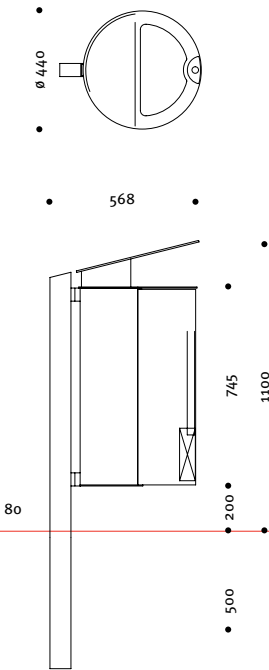
Product information
www.hess.eu/o310



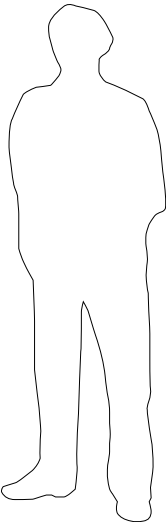
Order No. 80.30500.0



Order No. 80.30500.1



Order No. 80.30500.3



PUNTO

P U N T O . 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.

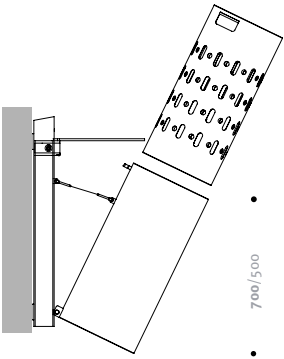


IndustrieForum Hannover:
if Seal for design excellence

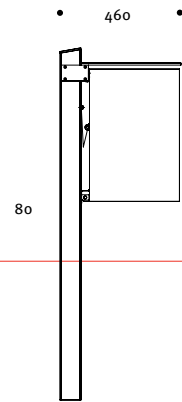
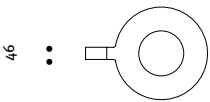


Product Name	Mounting	Order No.	Colour	Capacity
PUNTO 500	ground	80.30900.1	RAL, mica or DB finish	32 l
PUNTO 700	ground	80.30901.1	RAL, mica or DB finish	45 l
PUNTO 500	wall	80.30900.3	RAL, mica or DB finish	32 l
PUNTO 700	wall	80.30901.3	RAL, mica or DB finish	45 l

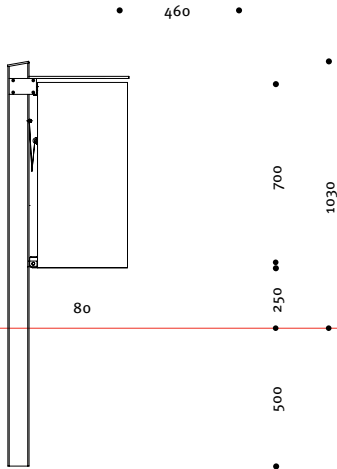
Product information
www.hess.eu/o301



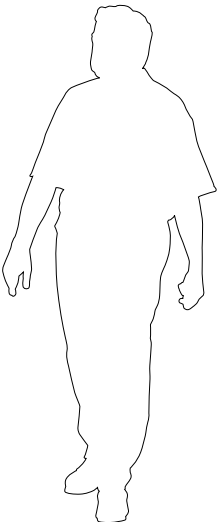
Order No. 80.30901.3
Order No. 80.30900.3



Order No. 80.30900.1



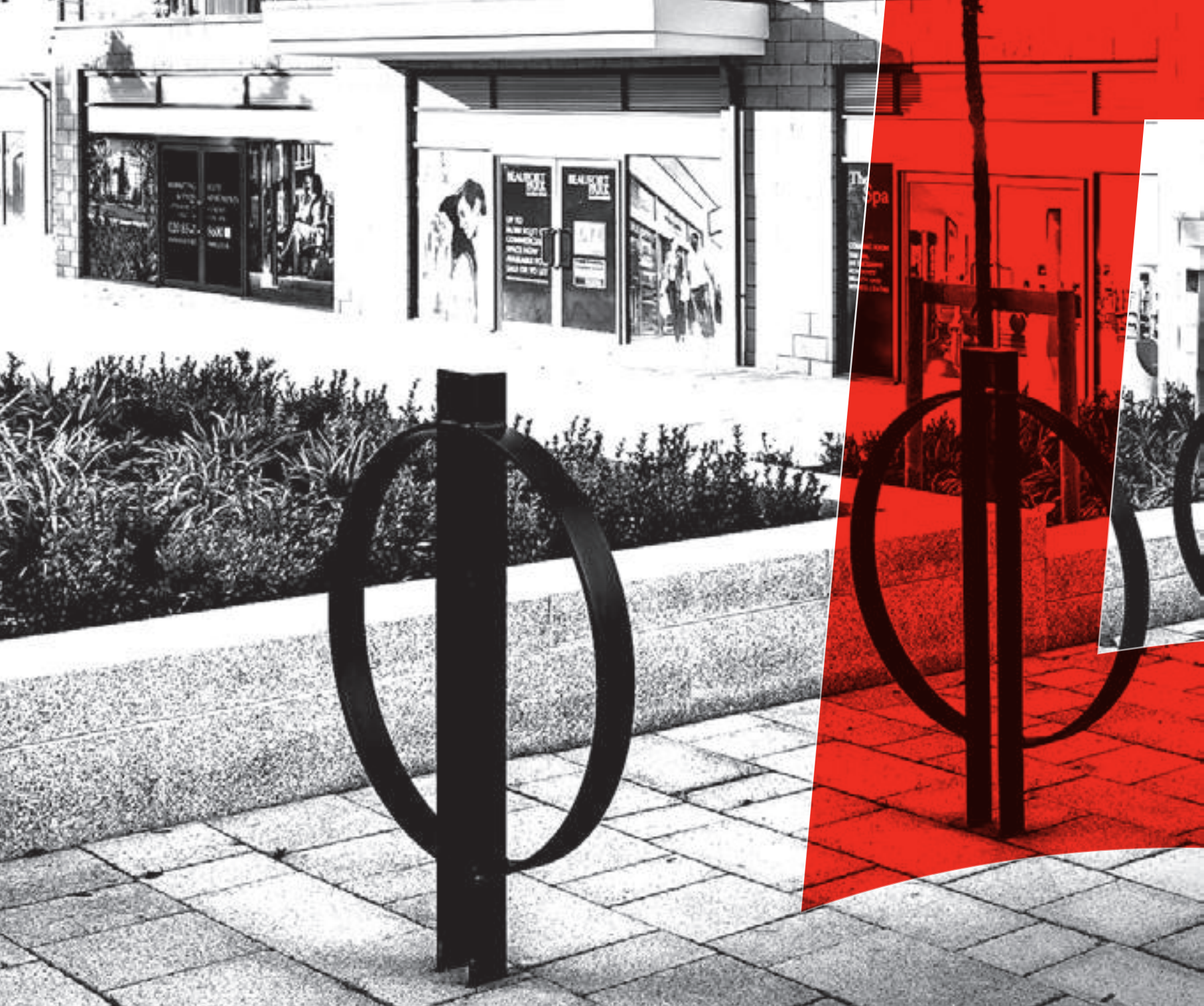
Order No. 80.30901.1





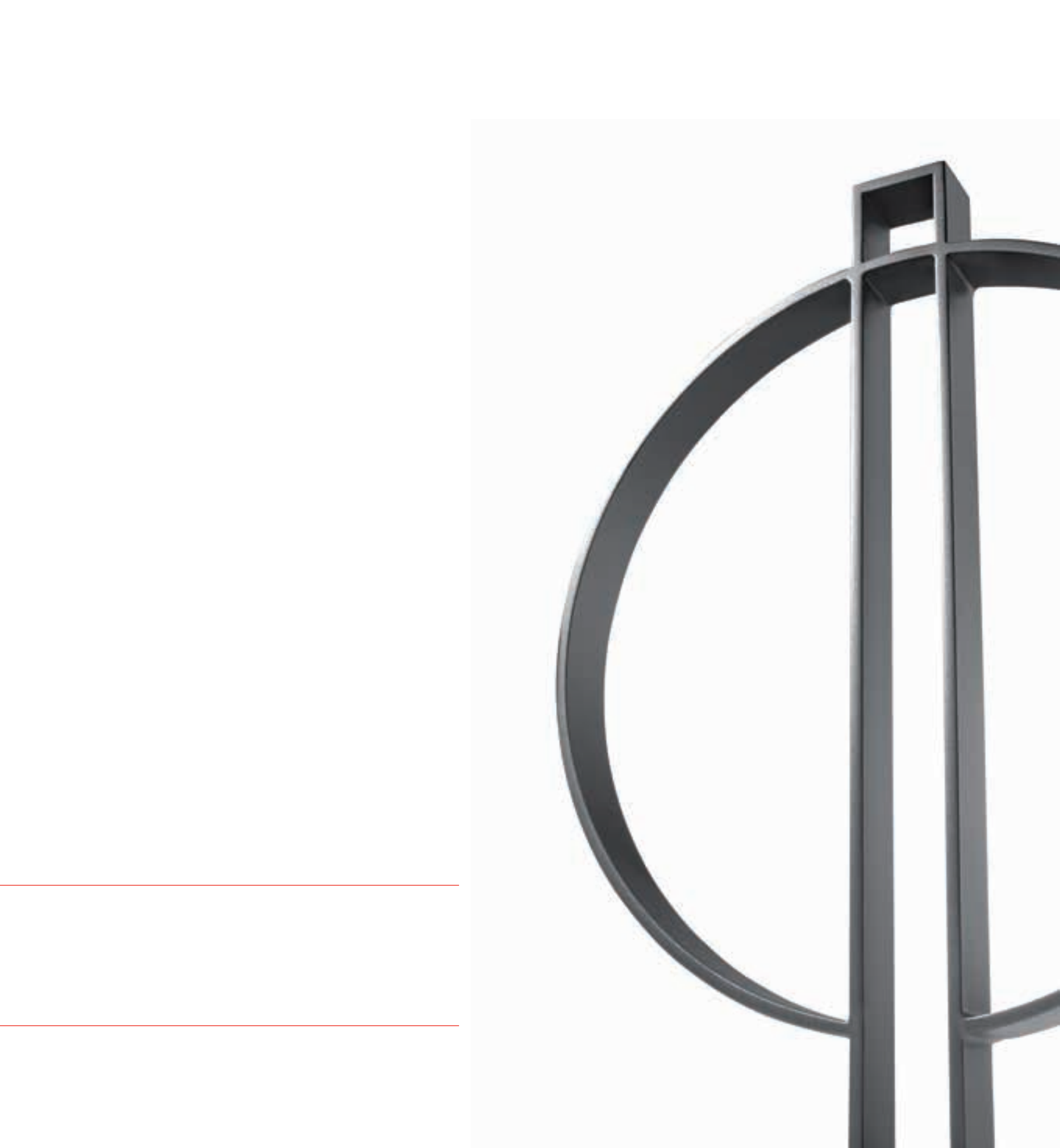
PUNTO
VILLINGEN-SCHWENNINGEN . GERMANY







BICYCLE RACKS



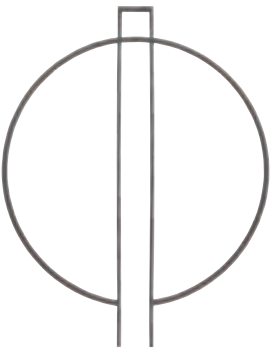


A welcome sight for bicyclists! Aesthetically pleasing and functionally oriented, Hess bicycle racks feature direct contact between the bike and rack for superior front wheel and theft protection. A must for the integration and accommodation of bicyclists in urban environments.

5 . BICYCLE RACKS



VAREDO
168



CERES
170



TENDO
174

VAREDO

VAREDO . Bicycle Rack

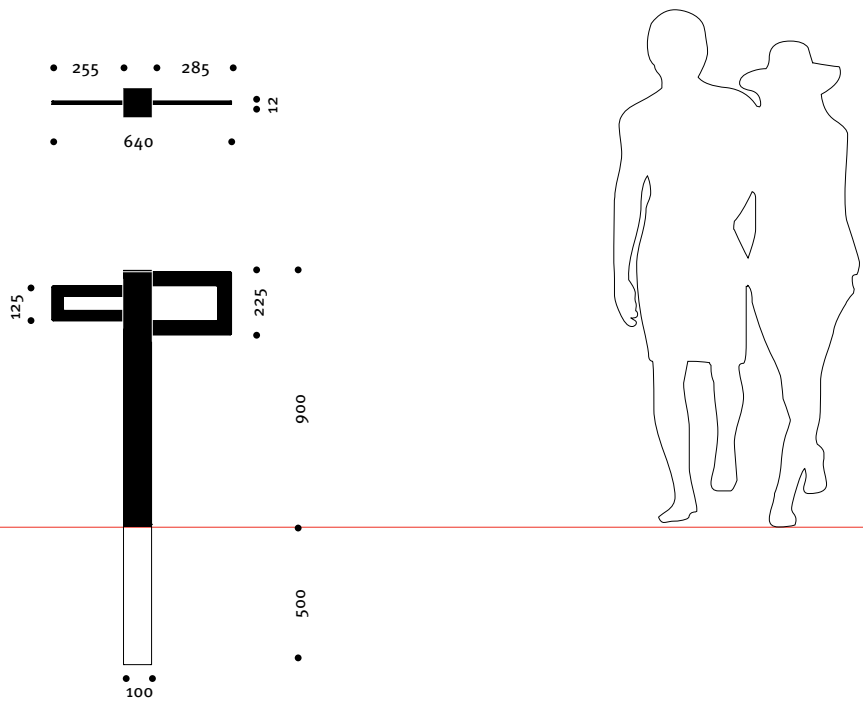
Bollard with square aluminium section and continuous embedded base. Aluminium U-bracket, welded on All RAL (classic unicolour shades), Hess DB and Hess glimmer colours.

Additional charge: Square flange plate



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

Product information
www.hess.eu/2630



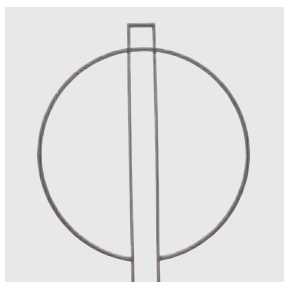
Order No. 61.12000.0

C E R E S

C E R E S . Bicycle Rack

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

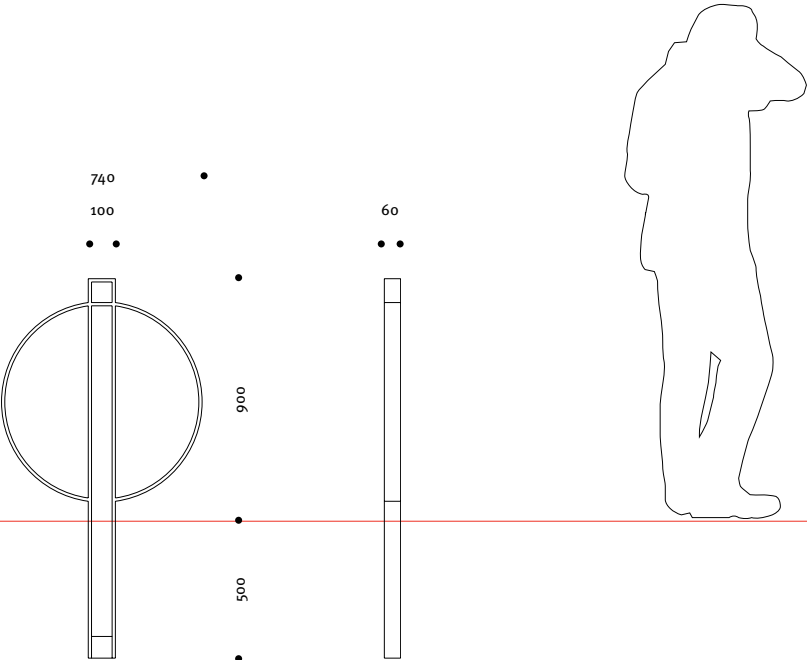
Additional charge: Flange plate.



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

Product information
www.hess.eu/o807

Order No. 61.11700.0





CERES
BAUEFORT . LONDON . ENGLAND



TENDO

TENDO . Bicycle Rack

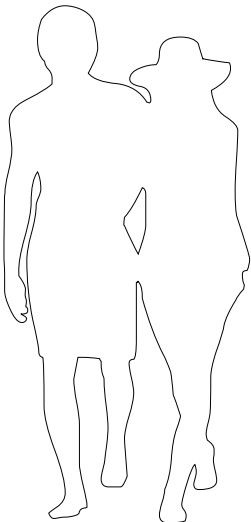
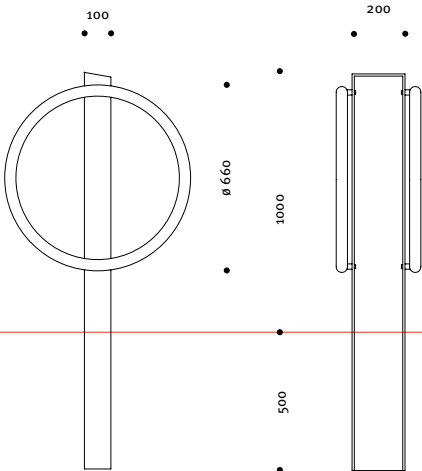
Galvanised steel construction. Choice of RAL, mica or DB finish.

Additional charge: Flange plate.



Product Name	Order No.	Colour
TENDO	61.00010.0	RAL, mica or DB finish

Product information
www.hess.eu/o801

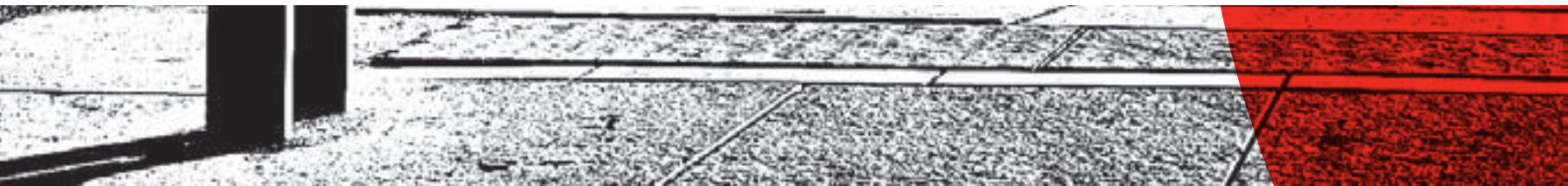


Order No. 61.00010.0



TENDO
LOS ANGELES . USA







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
184



REGOR
188



PARIS
200



MORANO
194



TORO
198

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.

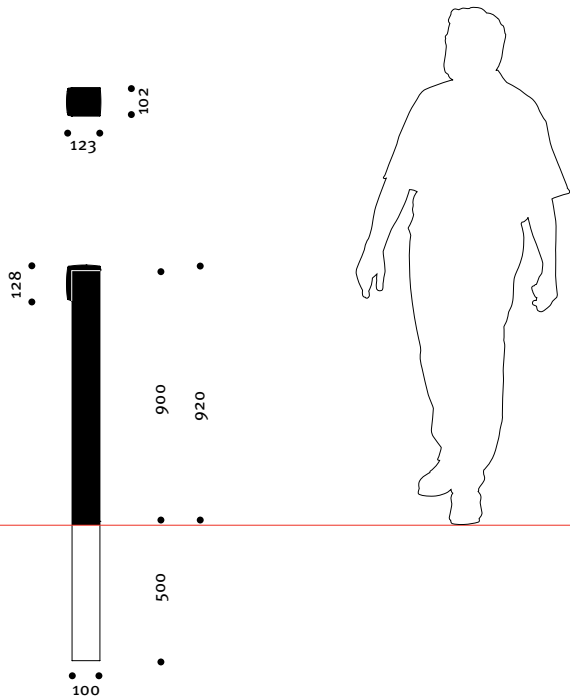
Additional charge: Square flange plate



Product Name	Height	Order No.	Order No.
		Type A	Type C
		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



REGOR

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

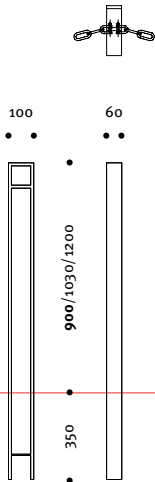
Additional charge: Bicoloured finish (consult factory).
Type C with subsurface flange plate (on request). Chain fastener. Chain



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

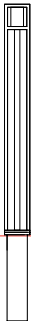
Product information
www.hess.eu/o711

TYP A



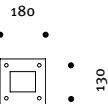
Order No. 60.14800.0

TYP B



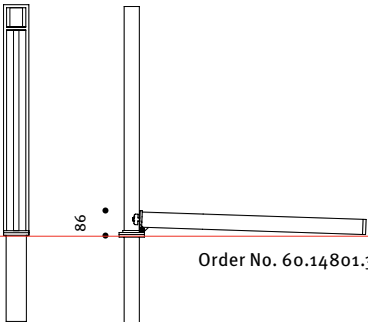
Order No. 60.14801.1

TYP C

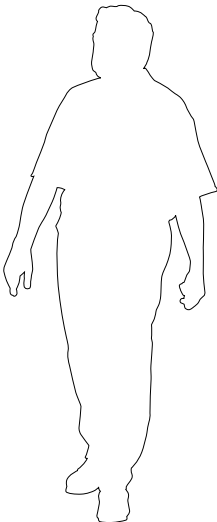


Order No. 60.14801.2

TYP D

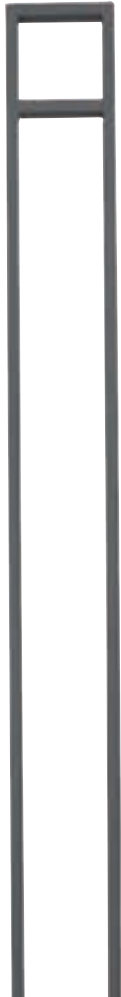


Order No. 60.14801.3



REGOR

TYPES OF MOUNTING



Fixed Bollards
TYPE A

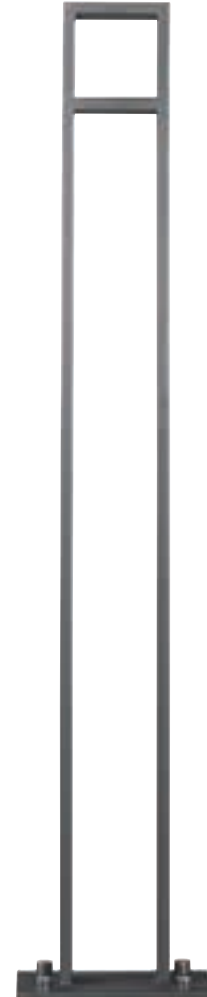
Designed with base that embeds in concrete. Detachment is not possible.



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.

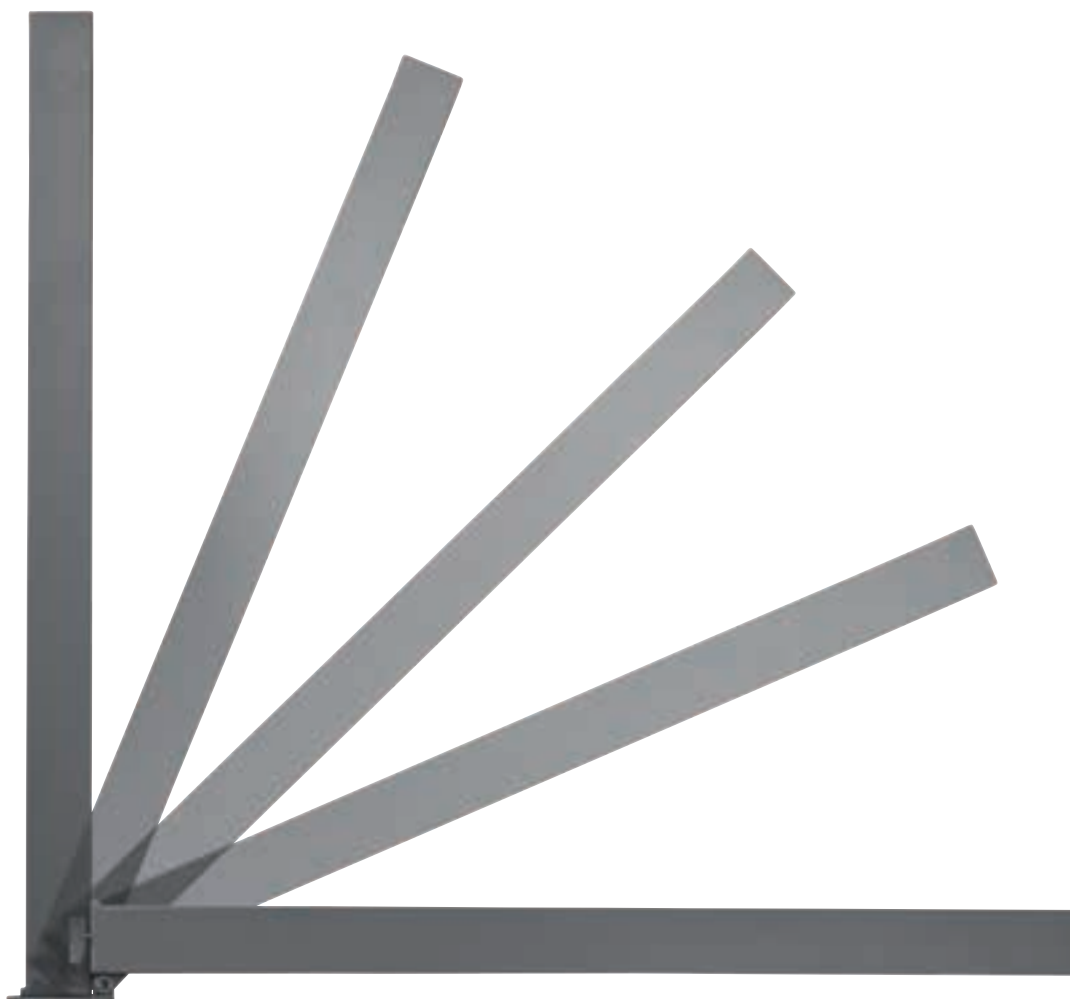
The head turns a camshaft engaging or disengaging the bollard in place. The embedded base installs grade flush in a permanent anchor footing.



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.

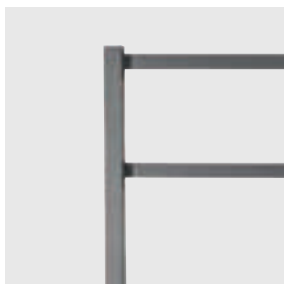
The head turns a camshaft releasing or locking the bollard in place. Embedded base installs grade flush in permanent anchor footing.

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.

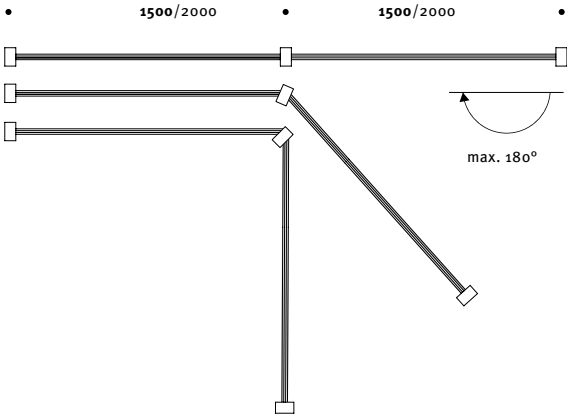


Product Name	Height	Post	Suitable for	Suitable for	Rail
	mm				
			1 Rail	2 Rails	(individual)
REGOR			REGOR 900-1	REGOR 900-2	REGOR B 1500
	900	Type A Fixed	60.14810.0	60.14820.0	60.64800.1
	900	Type C Flange Mount	60.14810.2	60.14820.2	60.64800.1
REGOR			REGOR 1030-1	REGOR 1030-2	REGOR B 2000
	1030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

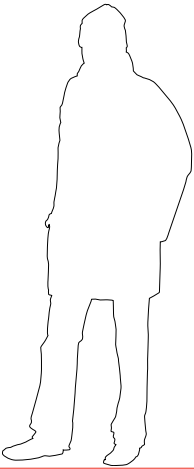
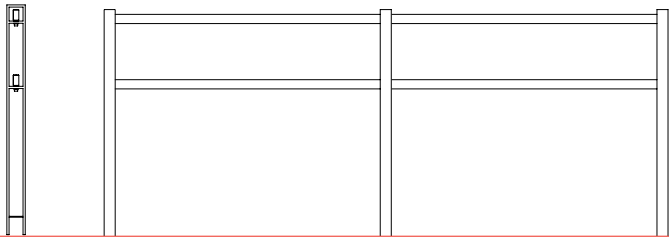
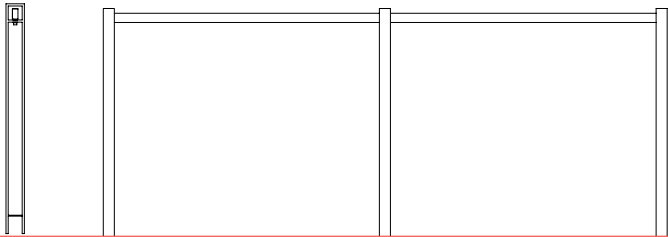
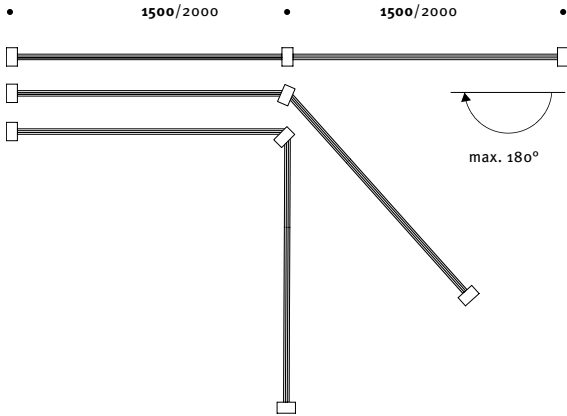
Post
REGOR 900-1

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.

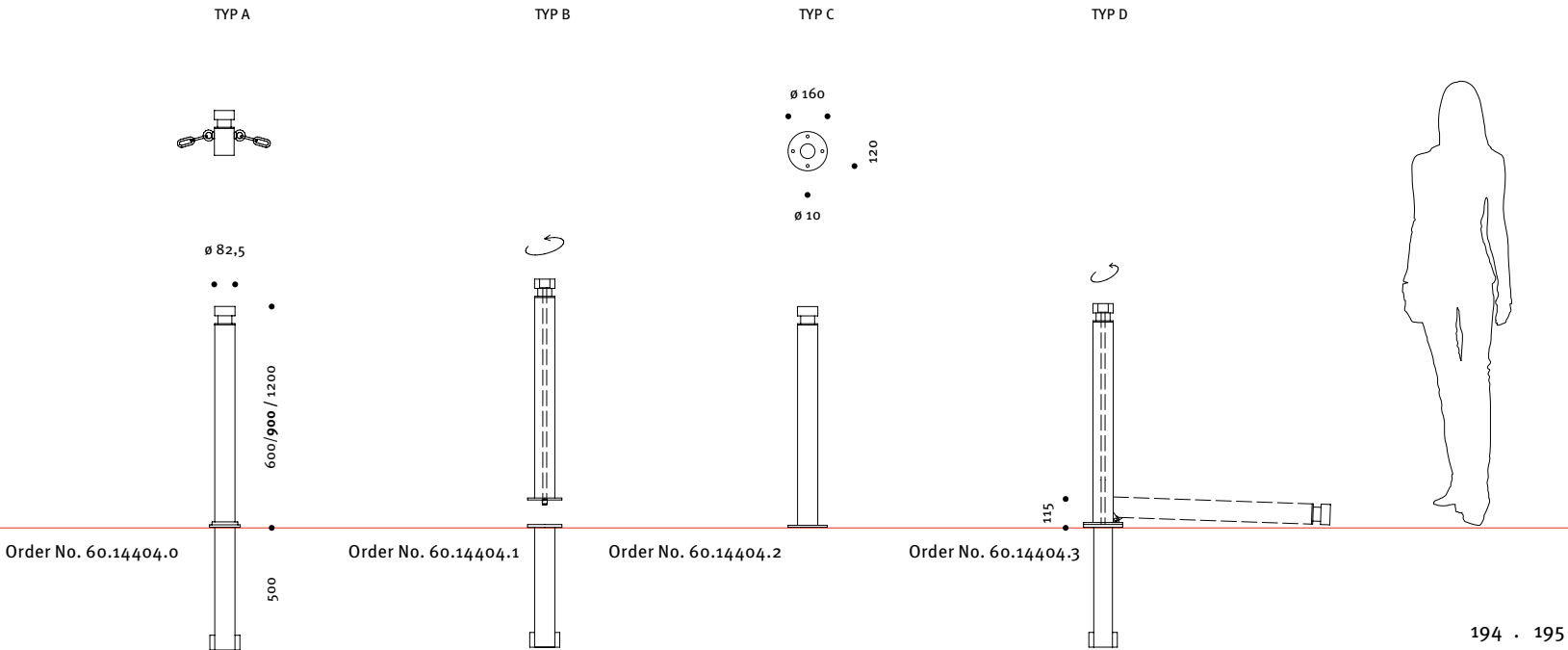
Choice of RAL, mica or DB finish.

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



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







T O R O

T O R O . Barrier Bollard

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

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

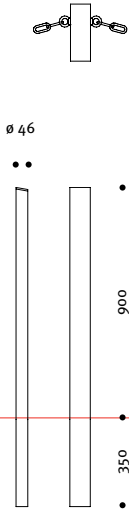


Product Name	Height	Order No.	Order No.	Order No.	Order No.
		Type A	Type B	Type C	Type D
	mm	fixed	detachable	flange mount	collapsible
TORO	600	60.14201.0	60.14201.1	60.14201.2	60.14201.3
	900	60.14200.0	60.14200.1	60.14200.2	60.14202.4
	1200	60.14203.0	60.14203.1	60.14203.2	60.14203.4

Product information

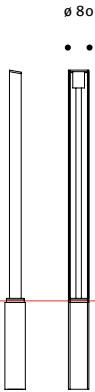
www.hess.eu/o771

TYP A



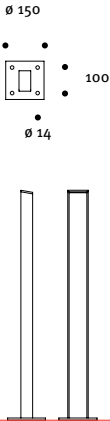
Order No. 60.14200.0

TYP B



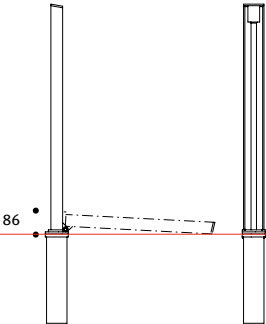
Order No. 60.14200.1

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).

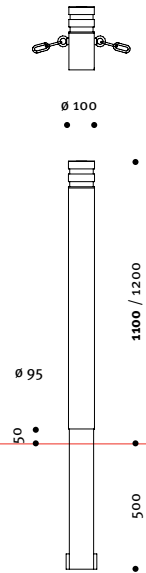


Product Name	Height	Order No.	Order No.	Order No.	Order No.
		Type A	Type B	Type C	Type D
	mm	fixed	detachable	flange mount	collapsible
PARIS 600	600	60.10301.0	60.10301.1	60.10301.2	–
PARIS 1100	1100	60.10302.0	60.10302.1	60.10302.2	60.10302.3
PARIS 1200	1200	60.10303.0	60.10303.1	60.10303.2	60.10303.3

Product information

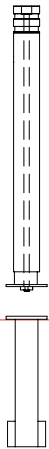
www.hess.eu/o702

TYP A



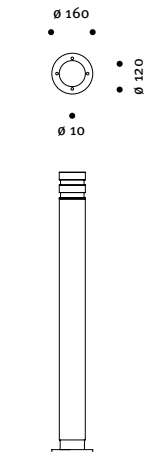
Order No. 60.10302.0

TYP B



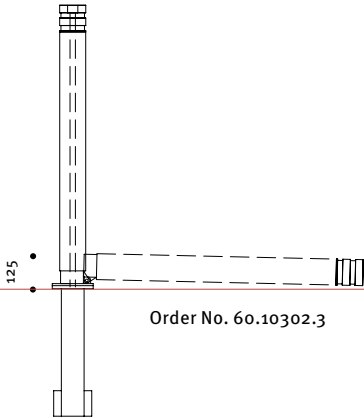
Order No. 60.10302.1

TYP C

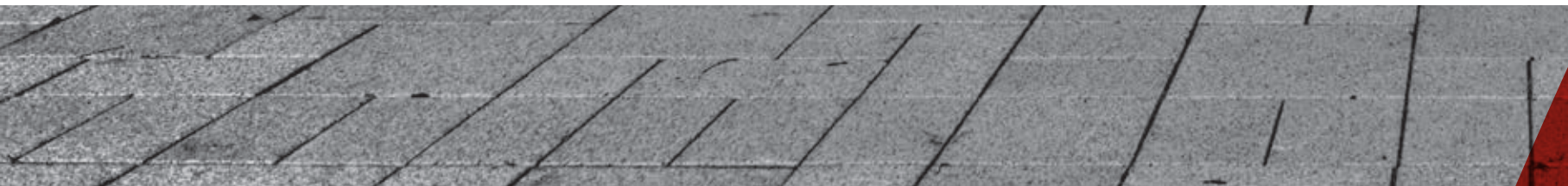


Order No. 60.10302.2

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.

7 . POWER AND WATER BOLLARDS



TOLEDO 250
210



TOLEDO 350
214



MORANO
218

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.

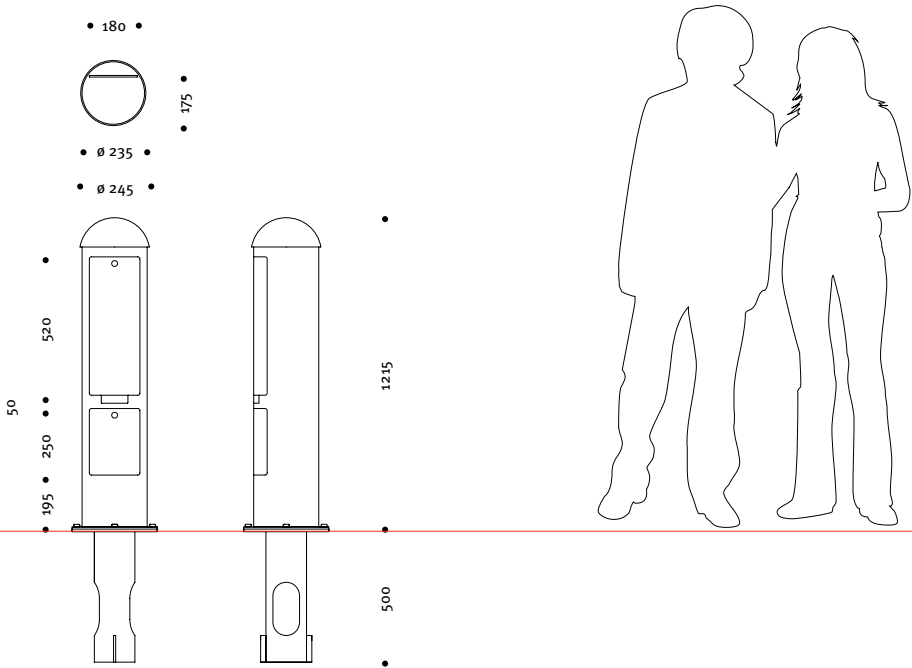


Fig.: Configuration examples

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

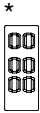
Order No.: Housing Art. No. + Configuration

Product information
www.hess.eu/0791







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

				
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.

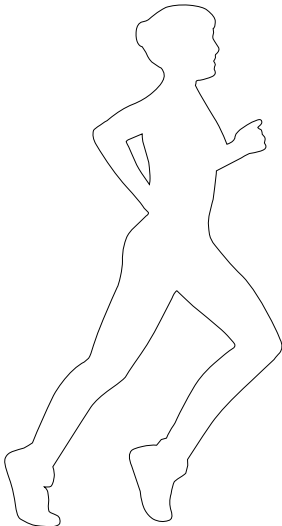
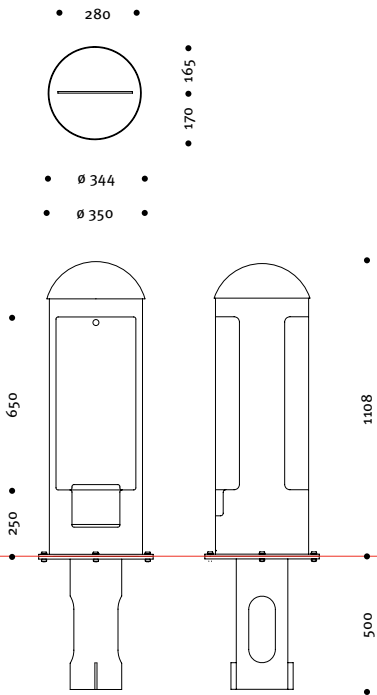


Fig.: Configuration examples

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	16 A	32 A
					1p.	3p.	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.

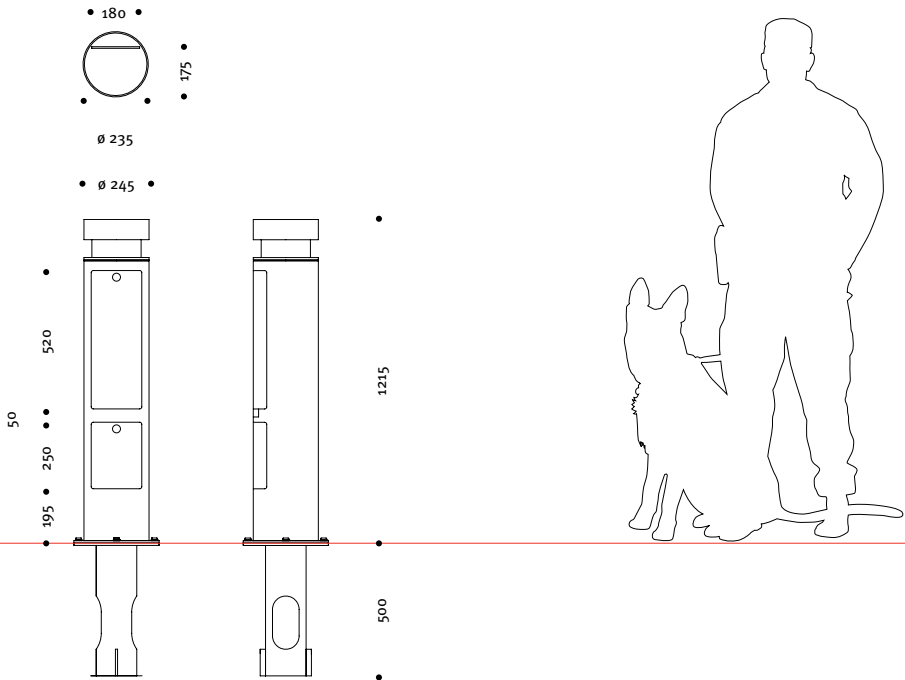


Fig.: Configuration examples

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

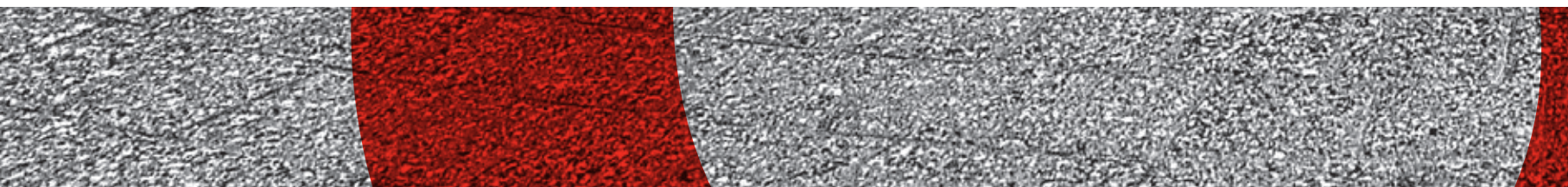
				
GS 0	–	–	–	–
GS 1	6	–	–	–
GS 2	–	6	–	–
GS 3	3	–	1	–
GS 4	3	–	–	1
GS 5	3	–	1	–
GS 6	–	3	–	1

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 8



PALMA R
2 3 0



PALMA L
234

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

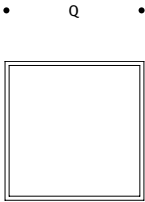
Product information
www.hess.eu/o890



Palma Q 400



Palma Q 300



PALMA R

P A L M A 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

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

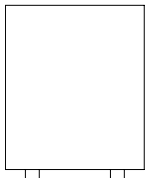
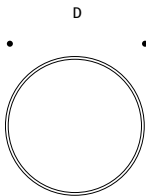
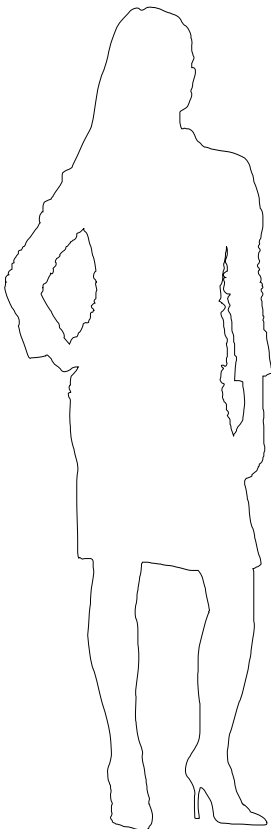
Product information
www.hess.eu/o895



Palma R 400



Palma R 300





PALMA Q
DONAUESCHINGEN . GERMANY



PALMA L

P A L M A 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.

Design: Klaus Begasse



Palma L 800/600



Palma L 600/400

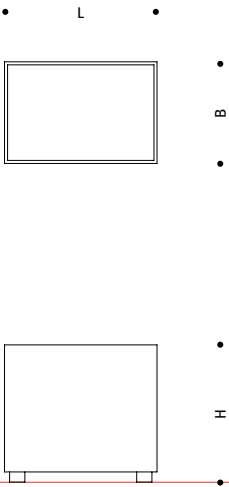
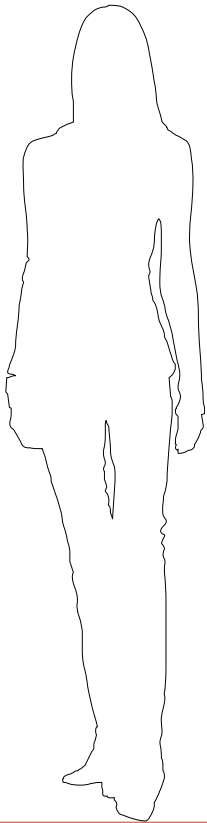
Product Name	Order No.		Colour	Dimensions in mm		
				L	B	H
	Version A - INDOOR	Version B - OUTDOOR				
PALMA L 450/300	90.21700.0	90.21700.0	RAL, mica or DB finish	450	300	375
PALMA L 600/400	90.21700.1	90.21701.1	RAL, mica or DB finish	600	400	540
PALMA L 800/600	90.21700.2	90.21702.1	RAL, mica or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

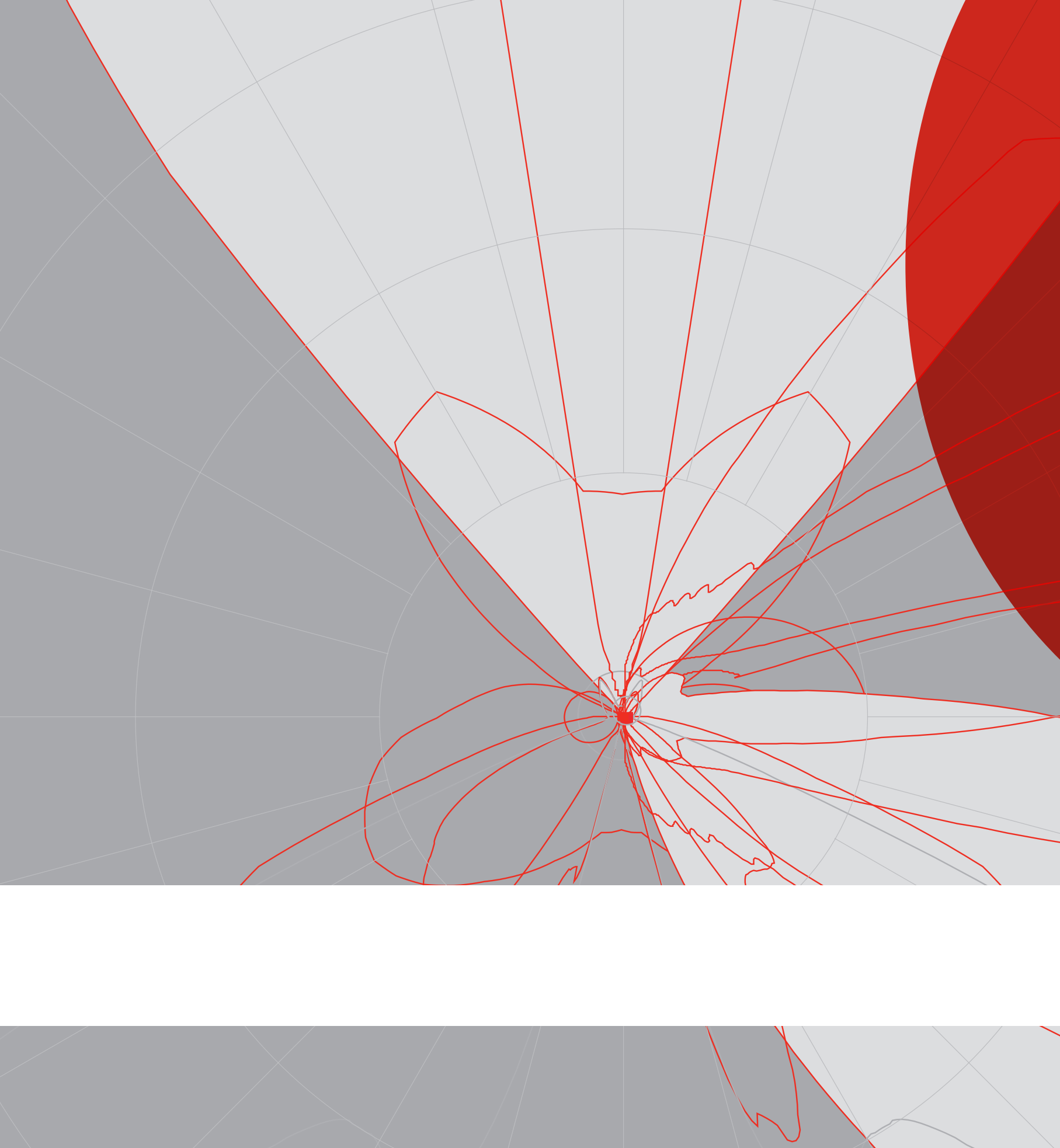
L Length
B Width
H Height

Product information
www.hess.eu/o891



Palma L 450/300





The background of the page is an abstract composition of red and grey shapes. A large, dark red, curved shape dominates the upper right and center. A lighter grey, curved shape is positioned to its left. Several thin, red, irregular lines crisscross the entire page, creating a sense of movement and complexity. The overall aesthetic is modern and technical.

TECHNICAL INFORMATION

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 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

Imprint

Design & Typesetting

ZWEI14 GmbH
www.zwei14.de

Photography

Ralf Ganter, Maik Goering,
Hans-Jürgen Haffa, Stefanie Heublein,
Max Schulz, Die Arge Lola,
Johann Lichtl, Oliver Christen,
hess Archiv.

Printing

Holzer Druck und Medien

Edition

First Edition, April 2014





Hess GmbH
Licht + Form
Lantwattenstraße 22
D 78050 Villingen-Schwenningen
Tel. + 49 (0) 7721 920-0
E-mail: info@hess.eu
www.hess.eu

For a listing of Hess offices
and the nearest sales agent,
please visit:
www.hess.eu/o100

