

LIGHT IN URBAN SPACES

PRODUCT RANGE FOR LIGHTING AND REFLECTIVE BOLLARDS



GH ◊ FORM

LIGHT IN URBAN SPACES

PRODUCT RANGE FOR LIGHTING AND REFLECTIVE BOLLARDS

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© HENNING LARSEN / PLAZA LAMP FOR ROADS AND PARKS / CHRISTIANSHAVN



The untreated cast iron Plaza Lamp for Roads and Parks and Plaza Bollard Lamp are both features of Copenhagen's Christianshavn district.



EPD-CERTIFIED PRODUCTS

FOR DGNB-CERTIFIED PROJECTS

Sustainability is a shared responsibility, so we spend every day trying to make our urban environment greener. DGNB and other environmentally certified builders all report increased demand for EPD-documented materials. We have therefore decided to prepare EPD certification for several of our products.

All our Plaza Lamps and the Moai Bollard Lamp are EPD-certified. EPD is an environmental declaration that was developed to follow recognised European and international standards as set out in EN 15804 requirements.

EPD is the acronym for Environmental Product Declaration and is a standardised methodology for providing information about energy and resource consumption, waste generation and the environmental impact of the production, use and disposal of a product used in construction.

Product-specific EPD certifications are our way of helping our customers by providing them with appropriate environmental documentation. Our EPD certifications can be looked up in the EPD Denmark database at epddanmark.dk.



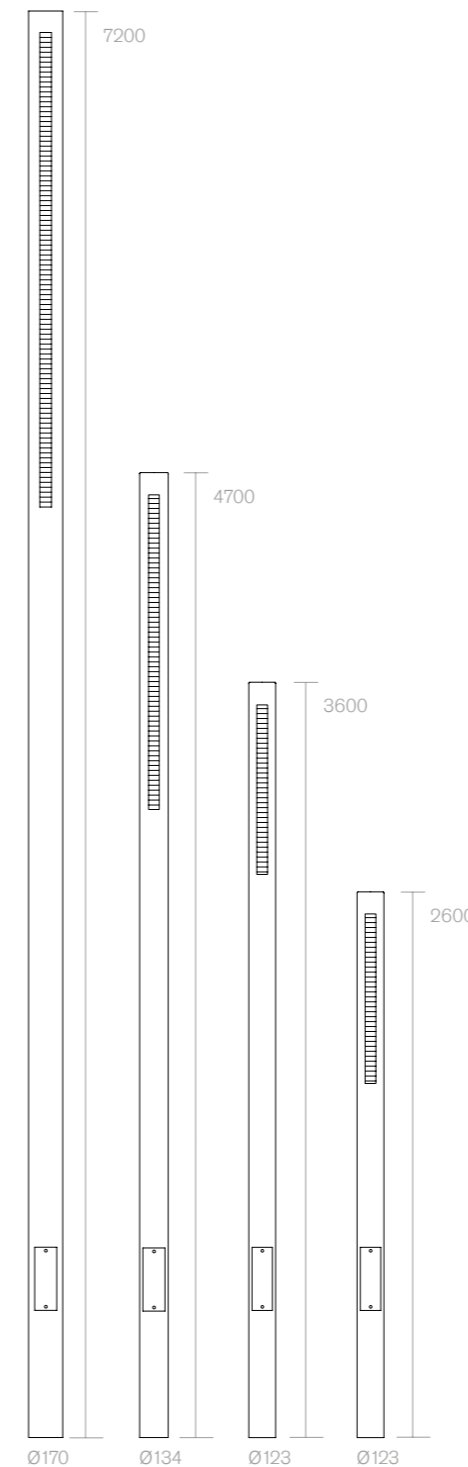


Plaza Lamp for Roads and Parks at the former Microsoft Headquarters at Tuborg Harbour in Hellerup, Copenhagen.

The Fløttmansplassen square in Bergen, Norway, features 27 Plaza Lamps for Roads and Parks. The project was designed by Oslo's TAG architects.

This is the only project of its kind to have played around a little with how high our Plaza Lamp can be installed.

The many lamps installed at the square are attractively positioned at heights of 2.6 metres, 3.6 metres and 4.7 metres.



PLAZA LAMP FOR ROADS AND PARKS

HENNING LARSEN

Our cast-iron lamp for roads and parks comes in 2600 mm, 3600 mm, 4700 mm and 7200 mm variants. All can be supplied in treated or untreated finishes. The lamp is also available in a treated steel tubed variant. The lamp has slits on three sides. The in-built reflectors direct the illumination downwards to prevent viewers from being blinded.

The surfaces of both the untreated cast iron and power-coated variants are well-suited to very demanding urban and/or coastal environments.

For compliance with road classification E2, the Plaza Lamp for Roads and Parks 3600 must be installed 17 m from each other along a 7 m wide road. All Plaza lamps are supplied with transient protection against lightning and overvoltage.

All our Plaza lamps are EPD-certified. EPD is an environmental declaration that was developed to follow recognised European and international standards as set out in EN 15804 requirements. Our EPD certifications can be looked up in the EPD Denmark database at epddanmark.dk.





You can see GH Form Plaza Lamps for Roads and Parks and Plaza Reflective Bollards in Copenhagen's Christiansbro district. Along the quay are 14 Christiansbro benches designed in collaboration with the Henning Larsen design studio and the Mobilia Waste Bin in an untreated cast iron finish designed by architect Erik Brandt Dam.

The Plaza Bollard Lamp can also be supplied with optional DALI light controllers. DALI light controllers make it possible to use a central control system to achieve optimum illumination with associated big energy savings.



PLAZA LAMP FOR ROADS AND PARKS

HENNING LARSEN

The Plaza Lamp for Roads and Parks is a one-piece execution with a robust thickness. This means that it has no individual components that can be damaged. The lamp is thus extremely hard-wearing in the face of vandalism. The lamp itself is enclosed in impact-resistant polycarbonate.

All Plaza lamps are supplied with LEDs as standard. The LED insert is built using the latest technology and can be supplied with OSRAM AstroDIM. AstroDIM allows lighting to be dampened late at night according to requirements and preference. It has five unstepped intensity settings according to day and season.

| | | |
|---------------|-------------------------------------|---------------------|
| HL.11.2016-L | Plaza Lamp for Roads and Parks 2600 | Untreated cast iron |
| HL.11.2017-L | Plaza Lamp for Roads and Parks 2600 | Treated cast iron |
| HL.11.2012-L | Plaza Lamp for Roads and Parks 2600 | Treated steel |
| HL.11.2001-L | Plaza Lamp for Roads and Parks 3600 | Untreated cast iron |
| HL.11.2005-L | Plaza Lamp for Roads and Parks 3600 | Treated cast iron |
| HL.11.2011-L | Plaza Lamp for Roads and Parks 3600 | Treated steel |
| HL.11.2013-L | Plaza Lamp for Roads and Parks 4700 | Untreated cast iron |
| HL.11.2014-L | Plaza Lamp for Roads and Parks 4700 | Treated cast iron |
| HL.11.2015-L | Plaza Lamp for Roads and Parks 4700 | Treated steel |
| HLA.11.2016-L | Plaza Lamp for Roads and Parks 7200 | Untreated cast iron |
| HLA.11.2017-L | Plaza Lamp for Roads and Parks 7200 | Treated cast iron |
| HLA.11.2018-L | Plaza Lamp for Roads and Parks 7200 | Treated steel |

TECHNICAL SPECIFICATIONS

| | |
|---------------------|-----------------|
| Power | 30 W |
| Colour reproduction | CRI > 80 |
| Lumen / Watt | 120 lm/W |
| Colour temperature | 3000 K |
| Controller | AstroDIM / DALI |

epddanmark





Plaza Bollard Lamp 900, untreated cast iron.

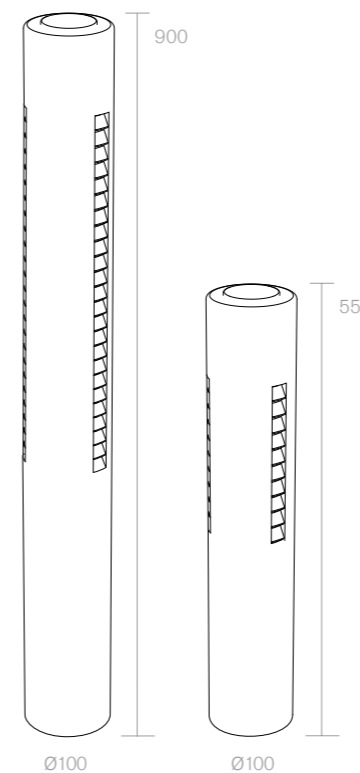
HL.10.4011-L

The Plaza Bollard Lamp is supplied with LED lighting and optional DALI light controllers. DALI light controllers make it possible to use a central control system to achieve optimum illumination with associated big energy savings.



PLAZA BOLLARD LAMP

HENNING LARSEN



The Plaza Bollard Lamp comes in two heights (550 and 900 mm) and has slits on three sides. The integrated reflectors direct light downwards to prevent blinding. One of the aperture slits in the casting can be blocked so light comes out of two slits, with a 120 degree spacing.

All Plaza lamps are supplied with LEDs as standard. The LED insert is built using the latest technology and can be supplied with OSRAM AstroDIM. AstroDIM allows lighting to be dampened late at night according to requirements and preference. It has five unstepped intensity settings according to day and season.

All Plaza lamps are supplied with transient protection against lightning and overvoltage to 20kV.

All our Plaza lamps are EPD-certified. EPD is an environmental declaration that was developed to follow recognised European and international standards as set out in EN 15804 requirements. Our EPD certifications can be looked up in the EPD Denmark database at epddanmark.dk.





The untreated cast iron Plaza Bollard Lamp 900 can be seen at Bakkedraget in Copenhagen's Tuborg Harbour.

HL.10.4011-L

All our Plaza lamps are EPD-certified. EPD is an environmental declaration that was developed to follow recognised European and international standards.



PLAZA BOLLARD LAMP

HENNING LARSEN

The Bollard Lamp is a one-piece casting with a robust thickness. This means that it has no individual components that can be damaged.

From experience, Plaza Bollard Lamps should be installed 7.5 m from each other along a 2.5 m wide path to achieve the E2 road classification. GH Form can do lighting calculations on the basis of the project materials you provide.

The surfaces of both the untreated cast iron and power-coated variants are well-suited to very demanding urban and/or coastal environments. The Bollard Lamp is fitted to a foundation / GH.13.1004. GH Form offers several alternative installation solutions if deep excavation is not possible.

| | | |
|---------------------|------------------------|--------------------------|
| HL.10.4001-L | Plaza Bollard Lamp 550 | Untreated cast iron |
| HL.10.4002-L | Plaza Bollard Lamp 550 | Treated cast iron |
| HL.10.4003-L | Plaza Bollard Lamp 550 | Treated steel |
| HL.10.4011-L | Plaza Bollard Lamp 900 | Untreated cast iron |
| HL.10.4012-L | Plaza Bollard Lamp 900 | Treated cast iron |
| HL.10.4013-L | Plaza Bollard Lamp 900 | Treated steel |
| HL.11.4022-L | Plaza Bollard Lamp 900 | Hot-dip galvanised steel |

TECHNICAL SPECIFICATIONS

| | | |
|---------------------|---------------|------------------|
| PLAZA | 900 mm | 550 mm |
| Power | 18 W | 15 W |
| Colour reproduction | CRI > 80 | CRI > 80 |
| Lumen / Watt | 120 lm/W | 120 lm/W |
| Colour temperature | 3000 K | 3000 K |
| Controller | DML022-0600Ad | BK-BDL030-0300Ad |





The Moai Lamp for Roads and Parks and the Bollard Lamps can be seen at Køge Waterworks near Copenhagen.

KH.11.2002



MOAI LAMP FOR ROADS AND PARKS

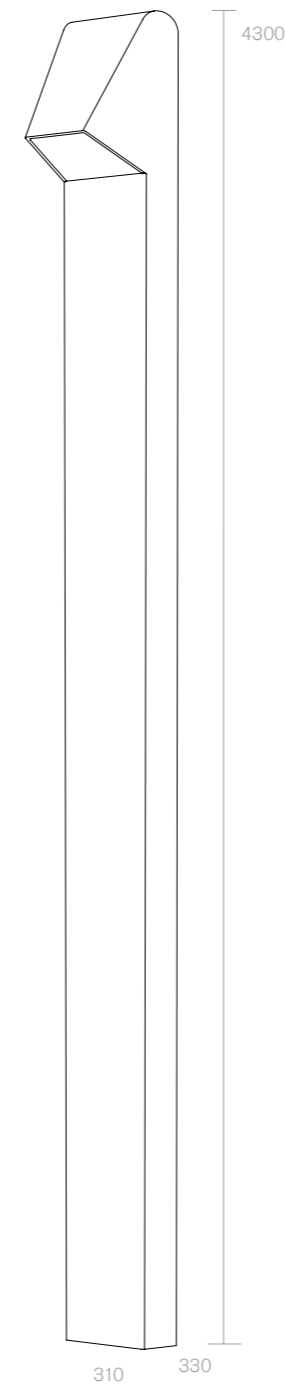
KNUD HOLSCHER DESIGN

The Moai Lamp for Roads and Parks presents a characteristic setting for the light fitting, combining the mast and lamp housing into a unified entity. The reflector optics were developed in collaboration with leading Danish lighting tech companies. They can be used in contexts requiring a high degree of robustness.

The Moai series includes a bollard lamp, a bollard with power socket, bollard with water access point and a wall lamp.

Various basing solutions are available, according to specific conditions. The Lamp for Roads and Parks requires an underground installation, which means that surfacing can be laid very close up to the mast.

The Moai Lamp for Roads and Parks uses reflector-controlled light diffusion, so it can be installed 22 m apart on an 8 m wide road. These values are only indicative. GH Form would be happy to perform light calculations for your project.



| | | |
|------------|------------------------------------|---------------------|
| KH.11.2002 | Moai Lamp for Roads and Parks 4300 | Untreated cast iron |
| KH.11.2003 | Moai Lamp for Roads and Parks | Treated cast iron |



The Bollard Lamp at the Skodsborg Strandpark waterfront. Moai Bollard Lamp 1000, untreated cast iron.

KH.10.3016

The Moai series was originally designed by Knud Holscher's Design Studio, Holscher Design and GH Form for the Danish armed forces.

The Bollard Lamp can be used in contexts requiring a high degree of robustness. Installation 10 m apart along a 2.5 m wide path allows the Moai Bollard Lamp to achieve compliance with road classification E2.

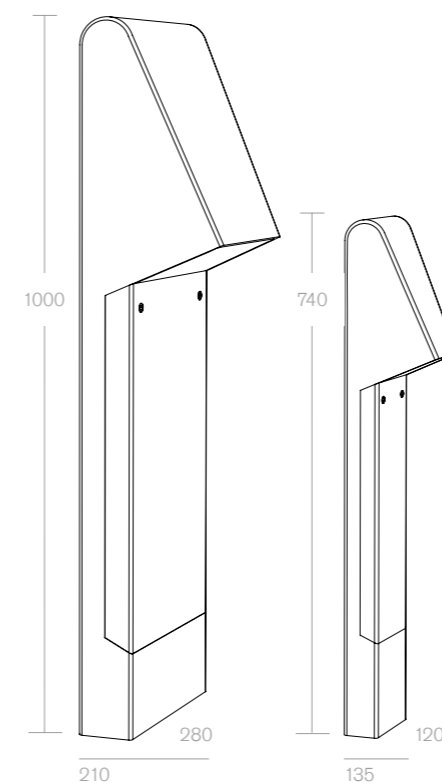


MOAI BOLLARD LAMP

KNUD HOLSCHER DESIGN

The MOAI Bollard Lamp comes in two heights: 1000 mm or 700 mm. The Bollard Lamp is one of three products that are constructed around the same bollard casing. The product's functionality depends on which insert is equipped: electrical, water or lighting. The lamps are supplied with LED bulbs and transient protection.

MOAI Bollard Lamps in cast iron are EPD-certified. EPD is an environmental declaration that was developed to follow recognised European and international standards as set out in EN 15804 requirements. Our EPD certifications can be looked up in the EPD Denmark database at epddanmark.dk.

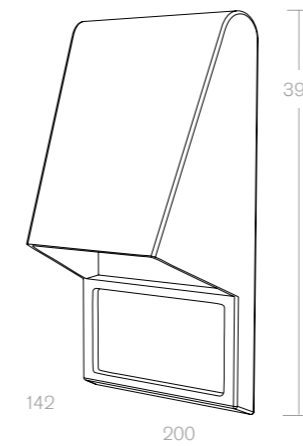
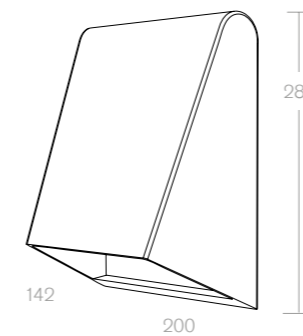


| | | |
|-------------------|------------------------|---------------------|
| KH.10.3016 | Moai Bollard Lamp 1000 | Untreated cast iron |
| KH.10.3017 | Moai Bollard Lamp 1000 | Treated cast iron |
| KH.10.3018 | Moai Bollard Lamp 740 | Untreated cast iron |
| KH.10.3019 | Moai Bollard Lamp 740 | Treated cast iron |





KH.10.4006



MOAI WALL LAMP

KNUD HOLSCHER DESIGN

The Moai Wall Lamp is part of the Moai series. The large aperture directs light downwards and does not cause blinding. A small aperture on the reverse of the lamp sheds dim light onto the wall behind to make the silhouette of the lamp become visible.

The illumination component of the Moai Wall Lamp is an independent unit made of stainless steel, in which a reflector, socket, electronic ballast and terminal block are mounted. This means that various types of illumination source can be fitted. As standard the wall lamp comes with a compact 9 watt light source, which provides homogeneous lighting without shadows and a high degree of colour reproduction.

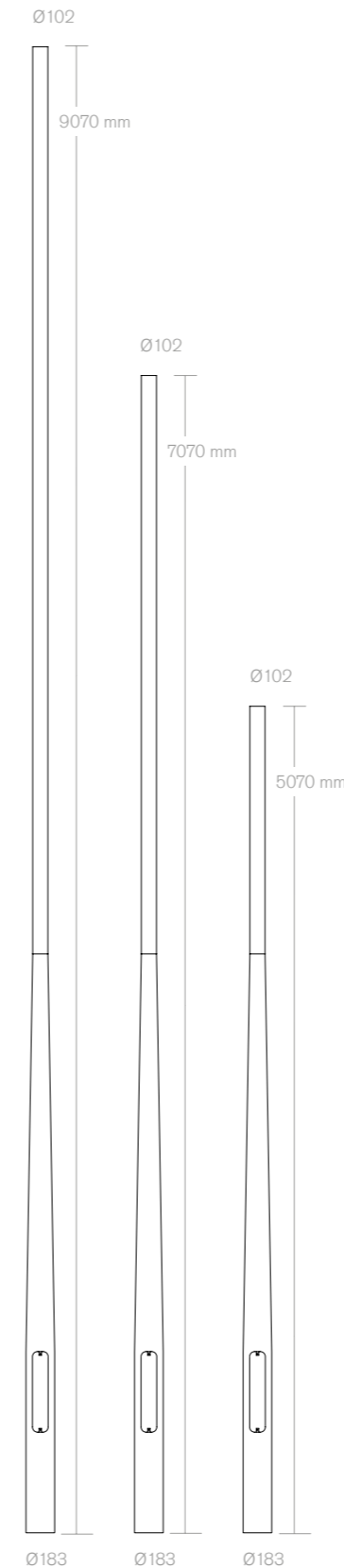
| | | |
|-------------------|--------------------------------|---------------------|
| KH.10.4001 | Moai Wall Lamp with text panel | Untreated cast iron |
| KH.10.4002 | Moai Wall Lamp with text panel | Treated cast iron |
| KH.10.4005 | Moai Wall Lamp | Untreated cast iron |
| KH.10.4006 | Moai Wall Lamp | Treated cast iron |





SEB building, Kalvebod Brygge, Copenhagen. The High-Light Mast was designed by SLA. It is made of a single piece of extruded aluminium with no welds.

SLA.12.4034



HIGH-LIGHT MAST

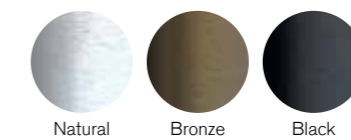
SLA ARKITEKTER

The High-Light Mast is made of aluminium and anodised in a natural finish, dark bronze or black. It can also be powder-coated in all RAL colours. It is intended to feature as a characteristic element of its environment. Its robust lower section allows multiple spotlights to be fitted.

The High-Light Mast comes in three heights: 5, 7 and 9 metres. The High-Light Mast combines a cylindrical base and top with a conical middle section, which gives it a visually characteristic slim silhouette.

The light mast is made of recyclable materials. The anodised aluminium surface means that it can go straight into another production when it reaches the end of its service life.

The fitting is an iGuzzini Maxi Woody Compact with a dimmable 36 Watt light source. 1-6 spotlights can be fitted to each mast.



Natural

Bronze

Black



Mærsk Tower / SLA

SLA.12.4032

The fitting used on the High-Light Mast is comprised of an iGuzzini Maxi Woody Compact with a dimmable 36 Watt light source. 1-6 spotlights can be fitted to each mast.



HIGH-LIGHT MAST

SLA ARCHITECTS

The mast has a long service hatch and can hold two separate mast inserts with a fuse element. The standard variant of the mast is made of 4 mm thick aluminium and is installed with a double-weld fully cast aluminium flange and strong bolts to a hot-dip galvanised wing-formed base. We make separate installation brackets for spotlights.

The mast is compliant with the guidelines set out in the Danish Road Directorate's rules for road lighting materials, general works description, masts, March 2004.

We keep a stock of the standard hot-dip galvanised steel wing bases but we would be pleased to accept proposals for other types of bases to suit your particular project.

HIGH-LIGHT MAST 5 M

| | |
|-------------------|---------------------------------------|
| GHP.90.5.1 | High-Light w. 1 spot + 1 mast insert |
| GHP.90.5.2 | High-Light w. 2 spots + 1 mast insert |
| GHP.90.5.3 | High-Light w. 3 spots + 1 mast insert |
| GHP.90.5.4 | High-Light w. 4 spots + 1 mast insert |
| GHP.90.5.5 | High-Light w. 5 spots + 1 mast insert |
| GHP.90.5.6 | High-Light w. 6 spots + 1 mast insert |

HIGH-LIGHT MAST 7 M

| | |
|--------------------|---------------------------------------|
| GHP.90.7.1 | High-Light w. 1 spot + 1 mast insert |
| GHP.90.7.2 | High-Light w. 2 spots + 1 mast insert |
| GHP.90.7.3 | High-Light w. 3 spots + 1 mast insert |
| GHP.90.7.4 | High-Light w. 4 spots + 1 mast insert |
| GHP.90.7.5* | High-Light w. 5 spots + 1 mast insert |
| GHP.90.7.6* | High-Light w. 6 spots + 1 mast insert |

HIGH-LIGHT MAST 9 M

| | |
|-------------------|---------------------------------------|
| GHP.90.9.1 | High-Light w. 1 spot + 1 mast insert |
| GHP.90.9.2 | High-Light w. 2 spots + 1 mast insert |
| GHP.90.9.3 | High-Light w. 3 spots + 1 mast insert |
| GHP.90.9.4 | High-Light w. 4 spots + 1 mast insert |
| GHP.90.9.5 | High-Light w. 5 spots + 1 mast insert |
| GHP.90.9.6 | High-Light w. 6 spots + 1 mast insert |



Path Lights along the quay as a feature of the Strandengen project at Copenhagen's Tuborg Harbour.

SLA.12.4005

Path Light was designed by SLA Landskabsarkitekter and is a very tough product for laying into road or path surfacing.



PATH LIGHT

SLA ARKITEKTER

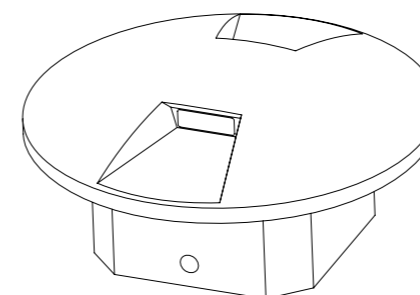
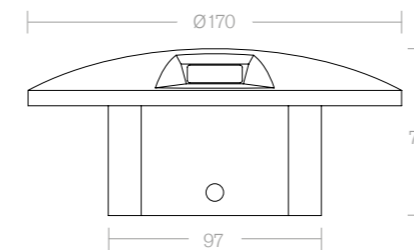
Path Light is designed to frame and indicate pathways in public spaces. Path Light has hard-wearing details and is made of materials that will ensure a long service life in urban spaces. It can be used to indicate quayside edges, footpaths, cycle paths and other traffic zones. The light can be made in colours and dimmed to suit a specific project.

Path Light can be supplied with unidirectional or twin-directional lighting. The standard variant of Path Light comes with an untreated surface.

The base should be fitted to a foundation that is suited to conditions at the installation site. The upper surface of the base is level with surrounding surfacing. Path Lights should be installed after surfacing has been laid.

We recommend that each Path Light has its own separate power supply cable. Path Light can be ordered with variable cable lengths or connected in a junction box that is placed in the base underneath the Path Light itself.

The standard Path Light runs on 230V, but can also be supplied for 12VDC or 24VDC. The light source, reflector and driver, hermetically sealed into a single unit. The product is air and watertight to IP67 classification.



- SLA.12.4005** Path Light with twin-directional lighting Ø170 x H15 mm Untreated cast iron
- SLA.12.4006** Path Light with unidirectional lighting Ø170 x H15 mm Untreated cast iron
- SLA.12.4007** Path Light with twin-directional lighting Ø170 x H15 mm Rust-resistant steel



Project with bronze demarcation studs with LEDs.

The Demarcation Studs are made as a solid casting, which means they can be driven over by heavy vehicles without deformation.

Demarcation Studs with LEDs come in dimensions from Ø25-150 mm and are glued to paving stones. The diodes are connected to a shared transformer.

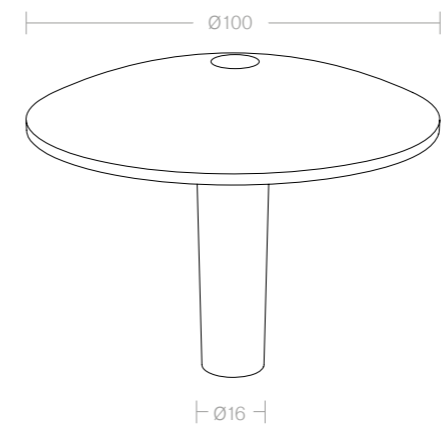


DEMARICATION STUDS WITH LEDs

GH FORM

Demarcation Studs with LEDs are mainly used to indicate parking spaces, as boundaries between footpaths and cycle paths and to indicate discretionary borders. They can also be used for purely decorative purposes.

Demarcation Studs with LEDs come in several sizes and in three different materials, each of which has its own distinct character. Bronze, rust-resistant steel and cast iron.



| | | |
|-------------------|--------------------------------|----------------------|
| GH.10.5020 | Demarcation Stud Ø170 with LED | Untreated cast iron |
| GH.10.5013 | Demarcation Stud Ø150 with LED | Untreated cast iron |
| GH.10.5014 | Demarcation Stud Ø150 with LED | Bronze |
| GH.10.5015 | Demarcation Stud Ø150 with LED | Rust-resistant steel |
| GH.10.5007 | Demarcation Stud Ø100 with LED | Bronze |
| GH.10.5008 | Demarcation Stud Ø100 with LED | Untreated cast iron |
| GH.10.5009 | Demarcation Stud Ø100 with LED | Rust-resistant steel |
| GH.10.5021 | Demarcation Stud Ø50 with LED | Bronze |
| GH.10.5022 | Demarcation Stud Ø50 with LED | Untreated cast iron |
| GH.10.5023 | Demarcation Stud Ø50 with LED | Rust-resistant steel |
| GH.10.5024 | Demarcation Stud Ø26 with LED | Bronze |
| GH.10.5025 | Demarcation Stud Ø26 with LED | Rust-resistant steel |



Linköping pedestrian street, Sweden. Campus Lighting Strip is a cast iron paving slab with integrated lighting that is used to indicate special routes or locations in an urban space.

SLA.12.4002

The lighting strip is based on the kiss-and-ride zone in Frederiksberg Town Centre, to which GH Form provided the cast iron elements.



CAMPUS LIGHTING STRIP

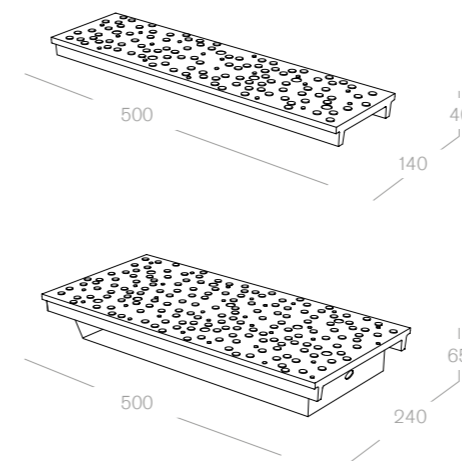
SLA ARKITEKTER

Our Lighting Strip makes it possible to produce up to 30 metres of light per module. As standard, the Lighting Strip panels are intended to be installed in a straight line, but can be made to radius according to specific project requirements. The Lighting Strip is laid into the paving as a full concept installation.

The slabs use a standard surface pattern but it is possible to add individual character to a surface. The system is comprised of a cast iron cover panel with points of illumination cast into clear acrylic.

A polymer concrete drain gutter is used to route the LEDs and install the cast iron elements. All component parts are sourced from leading suppliers to produce a final product of the highest quality.

The Lighting Strip is resistant to both moisture and condensation, which are diverted away along the drain gutter underneath. The Lighting Strip is installed using GH Form's polymer concrete gutter system.



| | | |
|--------------------|---|---------------------|
| SLA.12.4001 | Campus Lighting Strip L140 x B500 x H40 | Untreated cast iron |
| SLA.12.4002 | Campus Lighting Strip L240 x B500 x H65 | Untreated cast iron |



Several cast iron Plaza Reflective Bollards 900 can be seen in Copenhagen's Christiansbro district.

HL.10.3015

The Plaza Bollards come in two sizes: 550 and 900 mm. They are part of our Plaza series, which also features Bollard Lamps and Lamps for Roads and Parks.



PLAZA REFLECTIVE BOLLARD

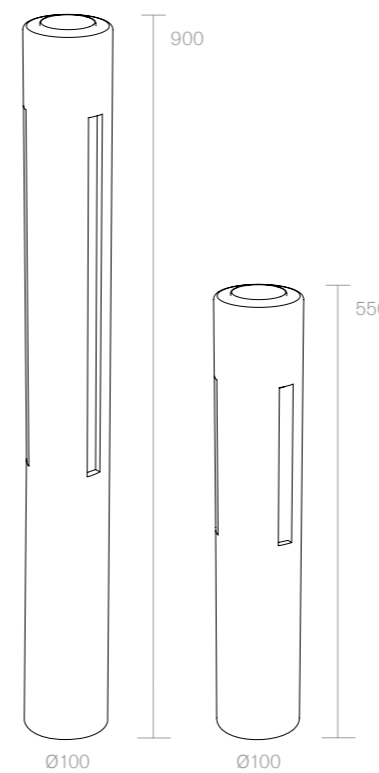
HENNING LARSEN

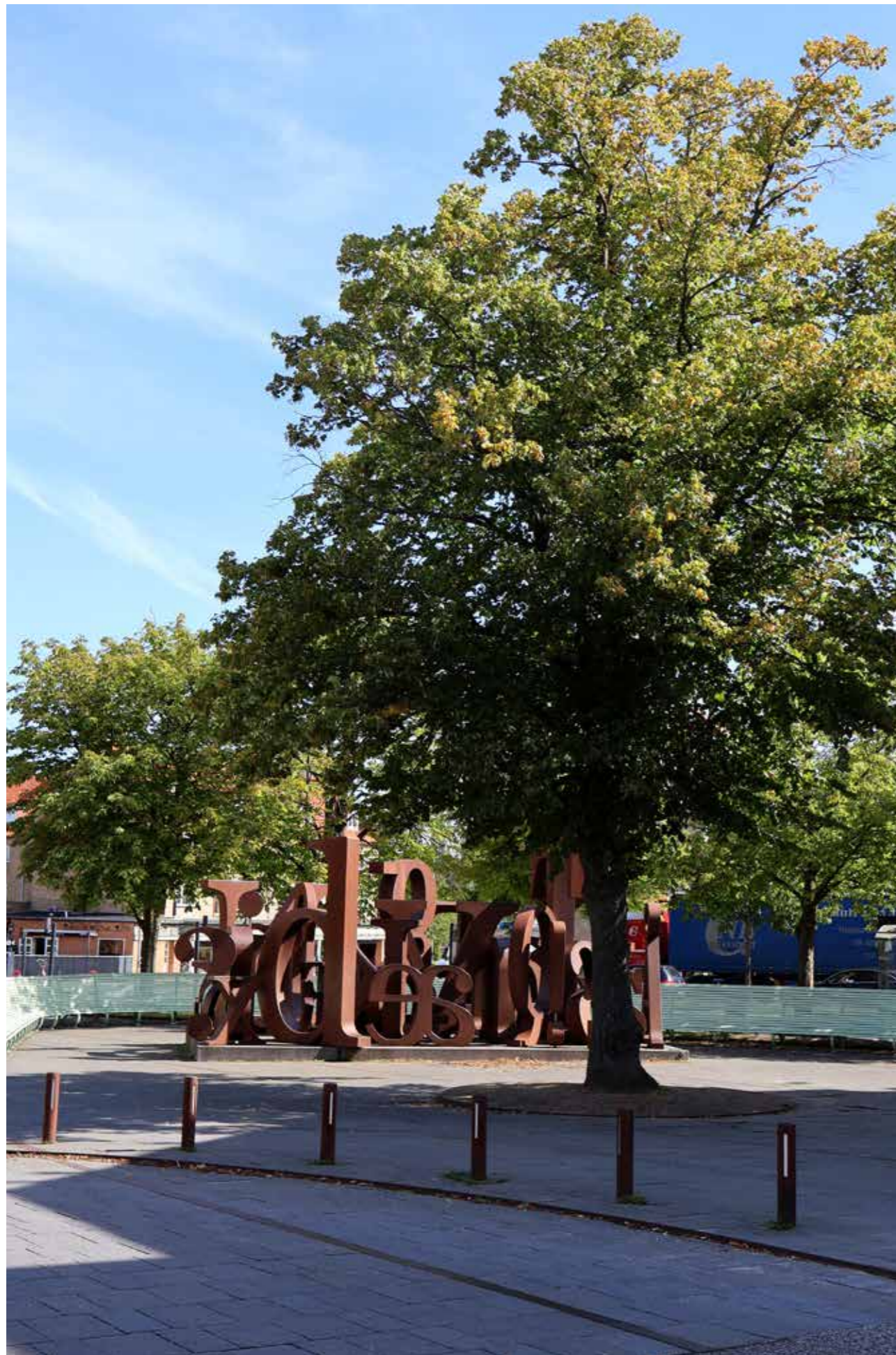
The Plaza Reflective Bollard is used to separate traffic flows. It comes as standard in steel and cast iron in two height variants. The bollard can also be supplied in cast bronze and stainless steel. The cast iron bollard is particularly hard-wearing because the bollard tubing is not damaged in a collision.

Where occasional traffic through the blocked zone is required, the bollard is also available in removable or collapsible variants. The Plaza Reflective Bollard also comes with a flexible pin between the bollard and its base. If impacted, this bollard can bend up to 45 degrees downwards and will then return to position.

The bollard has slits on three sides, housing built-in reflective material. It is a one-piece casting with a robust thickness. This means that it has no individual components that can be damaged.

Cast iron Plaza Bollards are EPD-certified. EPD is an environmental declaration that was developed to follow recognised European and international standards as set out in EN 15804 requirements.





Dan Turélls Plads / Plaza Reflective Bollard 550 in untreated cast iron.

HL.10.3005

The Plaza Reflective Bollard is made of cast iron and can be supplied untreated or with surface treatment. It can also be supplied in steel, which can be either galvanised or painted.



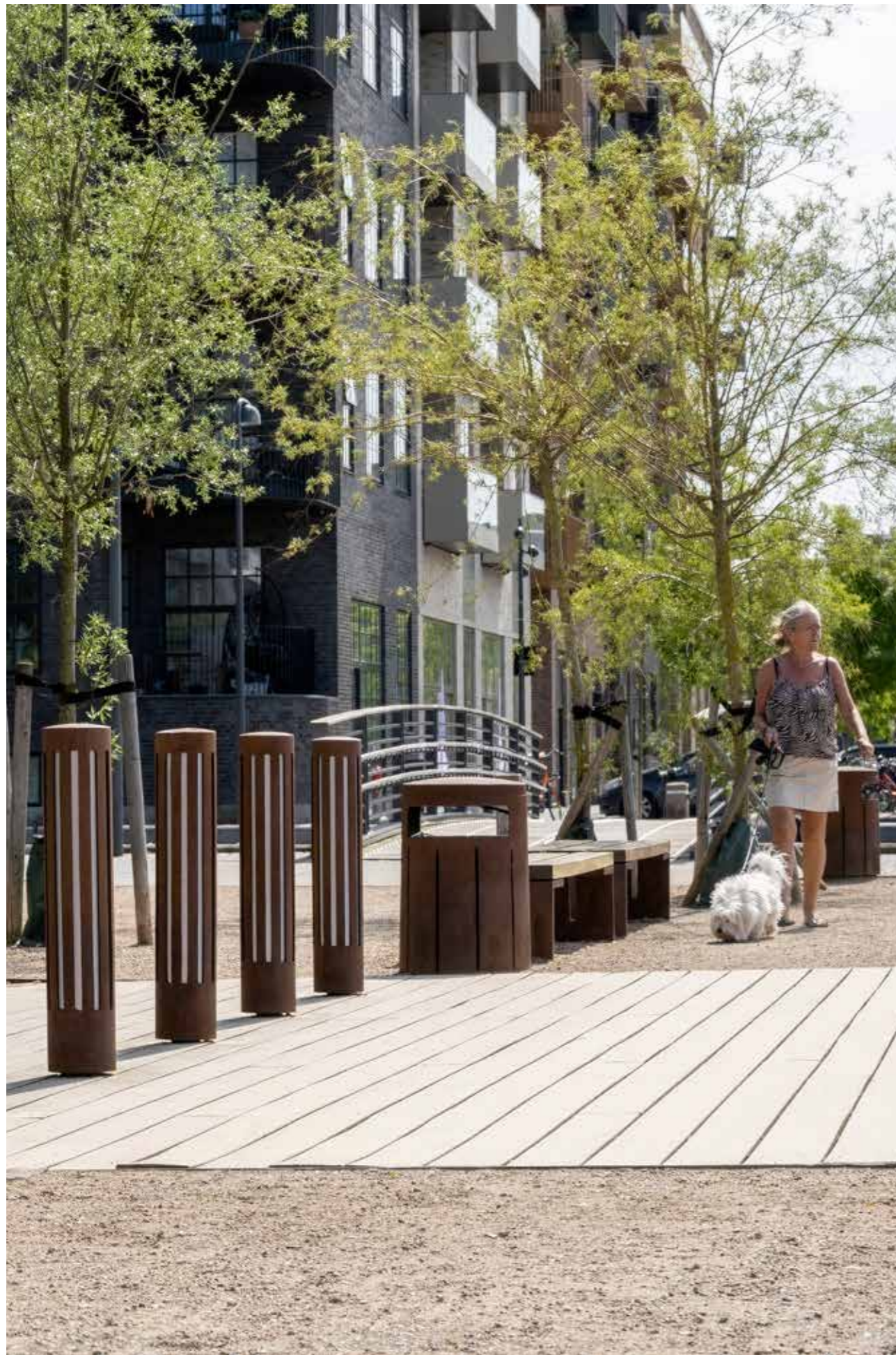
PLAZA REFLECTIVE BOLLARD

HENNING LARSEN

The fracture protection on the standard model means that the bollard can be set up again after impact without having to re-excavate or extract it.

The bollard is fitted to a base (product number GH.13.1004). All variants of the Plaza Reflective Bollard also come in treated steel.

| | | |
|-------------------|---|--------------------------|
| HL.10.3005 | Plaza Reflective Bollard 550 with fracture protection | Untreated cast iron |
| HL.10.3006 | Plaza Reflective Bollard 550 with fracture protection | Treated cast iron |
| HL.10.3008 | Plaza Reflective Bollard 550 collapsible | Untreated cast iron |
| HL.10.3009 | Plaza Reflective Bollard 550 collapsible | Treated cast iron |
| HL.10.3010 | Plaza Reflective Bollard 550 collapsible | Treated steel |
| HL.10.3024 | Plaza Reflective Bollard 550 removable | Untreated cast iron |
| HL.10.3025 | Plaza Reflective Bollard 550 removable | Treated cast iron |
| HL.10.3026 | Plaza Reflective Bollard 550 removable | Treated steel |
| HL.10.3028 | Plaza Reflective Bollard 550 with flexible base | Untreated cast iron |
| HL.10.3029 | Plaza Reflective Bollard 550 with flexible base | Treated cast iron |
| HL.10.3015 | Plaza Reflective Bollard 900 with fracture protection | Untreated cast iron |
| HL.10.3016 | Plaza Reflective Bollard 900 with fracture protection | Treated cast iron |
| HL.10.3017 | Plaza Reflective Bollard 900 with fracture protection | Treated steel |
| HL.10.3018 | Plaza Reflective Bollard 900 collapsible | Untreated cast iron |
| HL.10.3019 | Plaza Reflective Bollard 900 collapsible | Treated cast iron |
| HL.10.3020 | Plaza Reflective Bollard 900 collapsible | Hot-dip galvanised steel |
| HL.10.3021 | Plaza Reflective Bollard 900 removable | Untreated cast iron |
| HL.10.3022 | Plaza Reflective Bollard 900 removable | Treated cast iron |
| HL.10.3023 | Plaza Reflective Bollard 900 removable | Treated steel |
| HL.10.3030 | Plaza Reflective Bollard 900 with flexible base | Untreated cast iron |
| HL.10.3031 | Plaza Reflective Bollard 900 with flexible base | Treated cast iron |



The Dock-Line Bollard was originally designed for Copenhagen's Sluseholmen district. It is part of the Dock-Line series, which also features a bench, a bicycle stand, a tree grate, linear dewatering, single point dewatering and a waste bin.

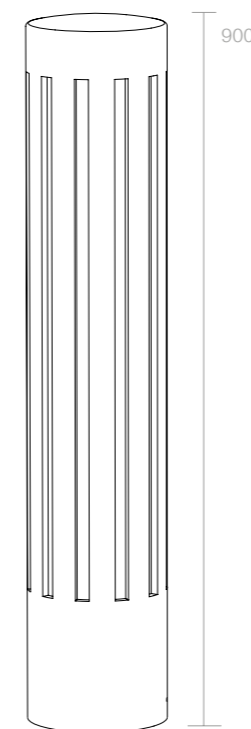
AT.10.3001

The bollard also features fracture protection and is fixed to a foundation base.



DOCK-LINE REFLECTIVE BOLLARD

ARKITEMA



The Dock-Line Bollard keeps pedestrians apart from vehicles. It has a large reflective area that lights up in the dark if light from traffic headlights shines on it. It is a one-piece casting with no assembly points.

The Dock-Line Bollard is made of cast iron or treated steel. It features 800 mm long slits all the way round with reflective material inlays that are highly visible when light shines on them. The reflective tape used is of the best grade for outdoor use. The model features integrated fracture protection, which means that the bollard can be put back up after a collision without damage to the base.

| | | |
|-------------------|------------------------------|---------------------|
| AT.10.3001 | Dock-Line Bollard 900 x Ø180 | Untreated cast iron |
| AT.10.3002 | Dock-Line Bollard 900 x Ø180 | Treated cast iron |
| AT.10.3003 | Dock-Line Bollard 900 x Ø180 | Treated steel |



Main entrance of the Tivoli Hotel.

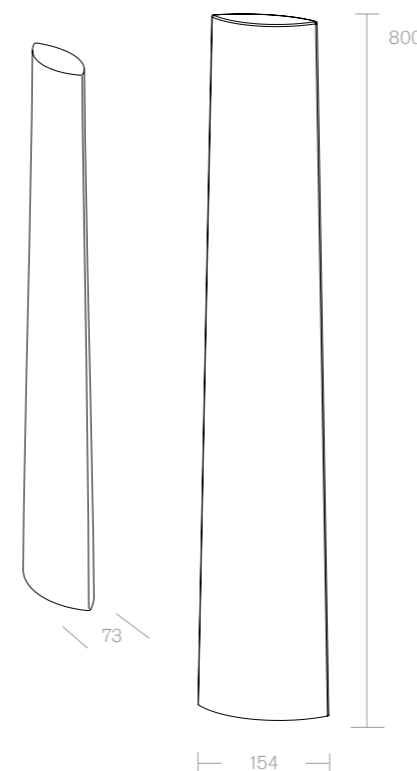
SLA.10.3008

The bollard, originally designed for Frederiksberg Town Centre, is illuminated from below by small LED units sunk into the surface to highlight bollards when it is dark.



CAMPUS BOLLARD

SLA ARKITEKTER



The Campus Bollard is made to a design that exploits the characteristics of cast iron to the full. The bollard, originally designed by SLA Arkitekter for Frederiksberg Town Centre, is illuminated from below by small LED units sunk into the surface to highlight bollards when it is dark.

The bollard can be equipped with reflective tape according to preference. The Campus Bollard is conical for its entire length and measures 800 mm.

The Campus Bollard is an iron casting. The bollard is fitted to a buried foundation which can be levelled without regard to the foundation. A bollard foot is bolted to the foundation underground. Surfacing can be laid all the way up to the foot. The bollard is secured to the foot with a fracture bolt.

It can be supplied untreated or surface treated to corrosion grade IV in the RAL colour of your choice.

| | | |
|--------------------|--------------------|---------------------|
| SLA.10.3007 | Campus Bollard 800 | Untreated cast iron |
| SLA.10.3008 | Campus Bollard 800 | Treated cast iron |



GH FORM

FURNITURE FOR URBAN SPACES

We have a vision of safe and green urban spaces, focusing on quality, design and sustainability. We are a family-owned company from Denmark that started out in the town of Holbæk on Zealand, which was our first iron casting facility. We now have our own factory in Borup (also on Zealand) where we manufacture all our products for urban spaces.

Sustainability is a shared responsibility, so GH Form spends every day trying to make our urban environment greener. Our cast iron products are all made at our own iron casting facility on Zealand. We only use 100% recycled iron to make our products.

All our Plaza Lamps and the Moai Bollard Lamp are EPD-certified. EPD is an environmental declaration that was developed to follow recognised European and international standards as set out in EN 15804 requirements. Our EPD certifications can be looked up in the EPD Denmark database at epddanmark.dk.

The GH Form range of furniture for urban spaces has been developed in close collaboration with various architects. Our extensive range of products is made of solid materials like cast iron, steel and wood. Cast iron products are tough and have a long service life. The material has been a feature of urban spaces for centuries.

Do you need our advice?

Contact us by phone on (+45) 59 44 09 90
or by email at mail@ghform.dk

epddanmark

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RAINWATER DRAINAGE



BENCHES IN URBAN SPACES
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FURNITURE FOR URBAN SPACES

SELECTED REFERENCES

LIGHTING FOR URBAN SPACES

Amager Strandpark
Christiansbro, Copenhagen
Clarion Hotel, Copenhagen Airport
Frederiksberg Town Centre
Fløttmannspladsen, Norway
B&O Torvet, Herning
Mærsk Headquarters
Mærsk Tårnet
Nordhavnen, Copenhagen
Novo Nordisk Headquarters
Odense City Centre
Odense Harbour
Opera House, Copenhagen
SEB Building, Copenhagen
Skodsborg Strandpark
Sluseholmen, Copenhagen

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