



# TRAFFIC + SAFETY

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# beckstone®

THE NEW STANDARD OF INGROUND LIGHTING

## SAFETY

As outdoor designers we must also incorporate safety into our projects. Consider an innovative new option which illuminates public places, and efficiently directs the ever-increasing volume of automotive and pedestrian traffic.

Beckstone offers a solution for designers while meeting safety requirements. Beckstone marks traffic lanes, curbs and barriers clearly and does not interfere with current traffic light applications. Beckstone reduces the risk of claims and damages while upgrading the appearance of public spaces and facilities with a modern subdued design.

You don't have to compromise your design!

## COST-EFFICIENCY

Requirements for safety are on the rise, and so are budget cuts. The innovative Beckstone lighting system keeps the costs low. We deliver a ready to install lighting system. Each piece can be electrically installed within 5 minutes without a bed of mortar in the installation pattern of your project.

The durable product design requires no exchange of illuminants and protects the luminaire against vandalism keeping it a low maintenance product. Marking hazardous spots in traffic applications will give you short return on investment as the safety features limit accidental claims.

## TECHNOLOGY

Beckstone products are made for high-quality and long-life. The completely insulation-encased 0.5w LED-illuminant is protected against most environmental impacts like standing water with UL 1838 approval. The high-strength load carrying body is made of polymer concrete and protects the translucent body against impacts forced by surrounding pavers with drive-over capability for cars and delivery trucks. Safe 12 V d.c. low voltage technology realizes an easy and reasonable electrical installation with our supplied connector kit.

In a nutshell: Through durable and innovative product design Beckstone offers an affordable installation with longevity.

# Concept

2 . [www.jobe-lighting.com](http://www.jobe-lighting.com)



## Beckstone protects...

...pedestrians, cyclists, dampers, your tires and bumpers, passengers in public transport, cars in parking lots, traffic installations, roundabouts, budgets against claims, pathway edges in landscape architecture, disabled people, the appearance of architectural milestones and brings a safer feeling for residents and guests and your budget for energy, construction and maintenance!



# Impressions

# Hazardous Edges

Distracting light sources at night such as; signs and billboards can be hazardous in public traffic areas. This can often result in minor accidents. Even very bright street lighting may not create sufficient contrast in common greyish pavement and asphalt installations. Hazardous locations may be overlooked in these conditions.

Beckstone is a universal solution that creates more contrast on the ground. Hazardous spots are clearly marked for pedestrians and drivers. Beckstone illuminates high contrast in-ground markings which improve orientation for visually impaired and elderly people. Public facilities and places become easier to access.

At relatively low initial costs Beckstone protects signs, curbs, traffic islands and cars long-term. You save on maintenance and claim budgets and create a safer environment with a modern look and feel.



# Roundabouts

Many new roundabout installations confuse drivers. Recently created roundabouts become damaged with chipping edges, tire markings on the roundabouts curb and this causes issues for drivers and traffic authorities. In addition many of them have glaring light islands for pedestrian crossings right in front of them which makes the roundabout almost invisible. Beckstones help the situation by marking the otherwise invisible inner circle. In this application Beckstones are used as a warning indicator as well as routing marker for traffic flow.

It especially beneficial for bus and truck drivers since Beckstones make the curb visible so long-vehicles drivers can steer more precisely through those tight traffic installations. Damaged curbs caused by rear axle of long vehicles are a thing of the past.

Most roundabouts can be upgraded easily and reasonably with Beckstones. The inner curb can be extended by a line of additional pavers. This way the current installation can stay the way it was originally designed. Your return on investment results in fewer costs for landscaping, low energy bills, no exchange of illuminance, and a decreased number of damages and accidents. We have experience with using Beckstones along roundabout installations. Let us know your ideas and we get you sketches, technical drawings or edited pictures according to your project requirements.



## Areas of Application



# Airports, Train Stations

High traffic areas like airports and train stations intersecting traffic of all types. Even well-structured sidewalks in front of those buildings cannot separate pedestrians from the driving lanes entirely. In addition, arriving and departing passengers are stressed, in a rush, inattentive and therefore accident-prone.

Beckstone pathway lighting is the perfect routing indicator for dangerous spots like busy pedestrian crossings, intersections, drop-off lanes as well as bus and taxi stands. Good pathway lighting reduces personal and property damage. When leaving the airport or train stations, pedestrians are confronted with an overwhelming amount of light; signs and outdoor advertising which are distracting. Beckstone may prevent unaware pedestrians from possible accidents.

In addition, Beckstones are durable and have drive-over capability. They can be used to indicate driving lanes and parking lots for the intended usage. This way, drivers are routed easier through the facilities. Best of all, the upgrade with Beckstones enhances the appearance of your facilities with reasonable installation and operational costs - even for renovation projects. Your buildings and pavement get a unique touch that passengers keep remember.

# Public Transport

Curbs at bus stops and train stations can be risky especially for elderly and disabled people. The possibility of falling off the platform on to the train tracks that cause personal damage, or stepping outside a brightly lit train on to the dark platform is hazardous and affects the safety of all passengers. Non-glare Beckstone luminaires improve this situation when used as a platform indicator light.

Further, this safety routing indicator light can extend pathway lighting beyond the platform to form a pedestrian crossing. Noise-reduced cars, such as electric vehicles and trollies are more difficult to hear therefore. Designers of public traffic applications have to consider these issues when planning city projects. We can use lighting systems to warn passengers of the approaching traffic.

Beckstones are extremely energy efficient. 50 Beckstones can be run with the same amount of energy as one 25w light bulb. With the long-life LED-technology there is almost no maintenance cost. Therefore places can now be lit that were too expensive to light before.



## Areas of Application



# Pathway Marking

Naturally, walkways through parks and alleys are darker since the landscape is designed with plants and trees which have less reflection than common traffic installations. Therefore, uneven pathways have are a higher risk for tripping accidents, especially for visually impaired people.

Regular pole luminaries create light islands with dark areas around them. They are usually very bright and glare into the eyes of pedestrians. Therefore, the pathway is not visible enough to walk safely.

With a line lit with Beckstone, one pavestone placed every three feet along the pathway, Beckstone luminaries' are the ideal indicator light for landscape design. They are resistant to roots, as they consist of one block.

In winter, Beckstones still mark the edge of the pathway even under light snowfalls, which can limit accidents and claims. Beckstone costs are a small fraction of project budgets. The easy installation 12V d.c. system can be completed 4 inches under the surface. The installation with our heat-shrinkable connector set takes less than 5 minutes per piece. The long-life investment in energy efficiency and almost maintenance free Beckstones enables your pathway lighting to be affordable. With Beckstone you can create a modern and mystic atmosphere along your pathways where lighting could not have existed before.

# Crossing

Increasing safety for pedestrians by implementing traffic islands in the middle of the road, which slow down traffic is common practice in much of the world. Pedestrians can cross streets without the need of an actual pedestrian crossing marking. The advantages are improved traffic flow using a more natural look without white markings – beneficial for historic city centers, busy city areas and some designer landscapes.

These traffic islands are usually not well lit and drivers can overlook them easily. The consequence may result in damaged installations and even accidents at these intersections.

Beckstone luminaires clearly mark traffic islands for approaching traffic and Pedestrian crossings. More advantages include City Officials save on their budgets for maintenance and claims by reducing the number of cases for hit and run accidents.



## Areas of Application

# Drive Lanes & Walkways Traffic Islands

Urban designs sometimes include intersections where pedestrians are confronted with heavy traffic. The high amount of traffic signs, billboards, and outdoor advertising can be distracting, resulting in accidents and personal damages.

The unique light appearance of Beckstone can outline walkways, bike paths, and streets in a tile-like fashion, using a combination of bricks and Beckstones.

We focus on highlighting hazardous areas that may put pedestrians and bicyclists at risk. Beckstones are not traffic lights. They are a unique



and smart design that provide optical protection which creates safer conditions for drivers and pedestrians.

Residential areas where children play, homes for the elderly with visually impaired people are just some of the applications where Beckstones can improve safety. The picture above shows another application where visual barriers create a clear structure. The reasonable and simple installation is one of the major advantages of our product design, making Beckstone one of a kind.

Applying rules and regulations for traffic signage is no guarantee accidents will be avoided. Traffic islands are subject to damage since they are not visible enough at night and high-beams are not allowed within city limits. Therefore, it is difficult to notice grey colors and non-lit traffic islands. Reflectors are sometimes used to increase visibility, but more often they are run-over, and reflection decreases over time.

Usually safety delineators and additional traffic signage are implemented to traffic islands after the first accident occurs. Without steady maintenance the reflection will fade and visibility will suffer. Beckstones are powered by 12 V d.c.. This system can be easily adapted to most



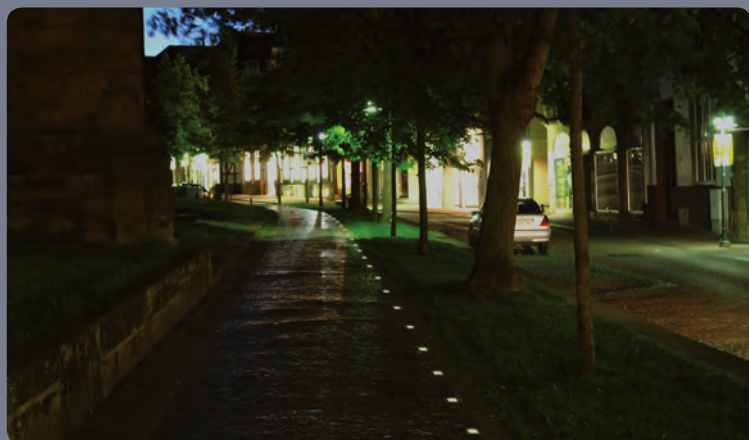
traffic island applications. Beckstones blend perfectly during daylight and do not destroy the overall appearance of historic city centres or particular landscape designs in busy downtown areas. Renovating with Beckstones on existing traffic islands can be done by adding an additional row of pavers and bricks.

# Landscape Lighting

Naturally, walkways through parks and alleys are darker since the landscape design with plants and trees offer less reflection than common traffic installations. Therefore, uneven pathways will offer more risk for tripping hazards especially for visually impaired pedestrians.

Regular pole luminaries create light islands with dark areas around them. They are usually very bright and can blind pedestrians, leaving the pathway with minimal visibility which compromises safety.

Placing Beckstones every three feet along the pathway can create safer walking conditions, making Beckstone luminaries' an ideal solution lan-



dscape design. The lights are one single block making them resistant to damage caused by roots.

Even with light snowfall Beckstone still visibility shines through revealing the edge of the pathway and therefore may avoid accidents and claims.

Beckstones are easy to add during renovation. They can simply be added in an extra line of pavers or natural stone on each edge of the walkway. A very reasonable upgrade with big benefits.

Public parks and recreational space for citizens and visitors can benefit from Beckstone. Designers now have more options with urban design plans. With various surface textures "NATURE", "STYLE" and "HISTORIC" we can match any application. Beckstone surface textures are designed to blend in perfectly with regular pavestones during the day.

# Parking Lots



Design sensitive environments include; White markings in parking lots, in historic city centres or downtown areas and can be disturbing to the overall aesthetic appearance.

To correct this, materials with a strong contrast are sometimes used instead of white, marking stripes. At night they are almost invisible and lead to poorly parked cars. Up to 25 % of the parking lot space in urban areas are wasted.

Beckstone can help solve this situation:

Adding five to six Beckstones to the white marking stripe for each



parking lot, can indicated the best possible parking space. During daytime the granite-like surface texture of our "NATURE" models will blend in as will "STYLE" models making Beckstone invisible. They do not disturb the intended project design.

Paver lines for parking lot markings are usually not incorporated in the pattern of the main surface structure. It is very easy and inexpensive to install Beckstones as a retrofitting.

## Areas of Application

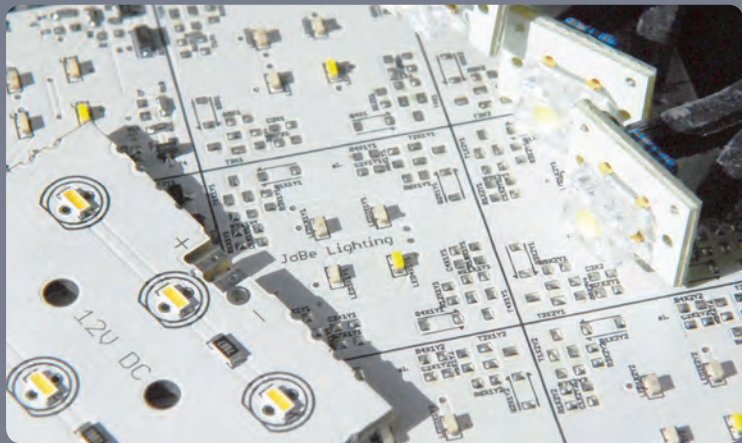
# LED-Technology

Beckstone state of the art LED –modules offer reliable LED-technology for long-life and high-performance. They are by far the most efficient light source and recommended by world-wide city officials and lighting associations.

The power consumption of a standard 20w halogen bulb can run up to 40 standard Beckstones.

Under ideal conditions our LED-modules have 70% of the original luminous flux after 80,000 hrs of operational time (LED-manufacturer’s specification).

We exclusively use LEDs from leading brand manufacturers with specified color-bins according to your project needs. The savings on maintenance with no exchange of illuminants are a plus.



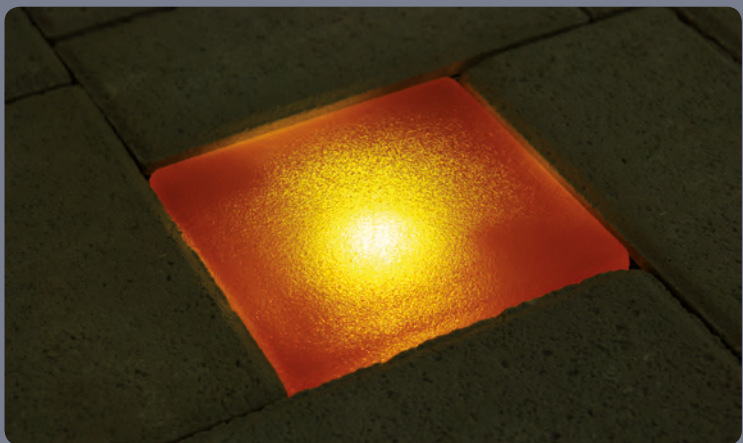
Beckstone is the only product than can be installed without a mortar jointing because of its unique protective edge. In addition the protective edge creates a uniform joint around each piece and reduces the installation costs in sand and gravel.

The translucent luminaire encasing is protected by a load carrying body that protrudes the translucent encasing by 0.1 inch. The durable, white load carrying body is made of high-strength polymer concrete. This feature of Beckstone takes the impact forced on the luminaire from surrounding pavers (e.g. during the braking process of cars).

# Luminous Flux

Our LED-modules have specifications up to 100 lm/watt and are continuously improving. Our standard module consumes only 0.5w and is the ideal mix of a non-glare luminaire and luminous flux.

While common lighting systems create glaring light islands with dark areas between the fixtures, Beckstones, mark the edge of a pathway, curb and square. The reasonable installation and operation of Beckstones widens the areas of application for lighting design beyond bollard and pole lights.



Beckstone is ideal for retrofitting projects as it can be installed at a depth of less than 4 inches, allowing it to be incorporated in the existing structure. One line of pavers can be removed along parking lot marking, the power line can be run and installed underneath the pavers, some of the removed pavers are replaced with Beckstones and integrated into the existing structure.

The 12V d.c. power line can be run in a bed of sand underneath the removed pavers. Even large size patio plate installation can be upgraded with Beckstones easily by cutting the shape of Beckstone out of the patio plate.

It is easiest to remove the outer row of pavers to run the cable underneath or next to the paver installation.

# Protective Edge

# Retrofitting

# Installation

Compared to most lighting systems, Beckstone is installed with a 12V d.c. low voltage system at reasonable costs. We supply heat-shrinkable connectors that solder, seal and shrink each connection within 5 Min. using a professional electronic heat-gun. This way you can install the 12V d.c. power line from one Beckstone to the next one in a flexible fashion. An additional heat-shrinkable end cap seals the connection again and protects it against mechanical impacts. Beckstones are delivered ready for installation and conductors cut to the appropriate length for our connectors so you save on installation cost. The necessary remote power supply runs up to 50 pieces per connection and can simply be connected at the same electrical source as streetlamp or a direct burial enclosure box. We deliver a complete package with UL-listed components that ensures your final project inspection will go smooth.

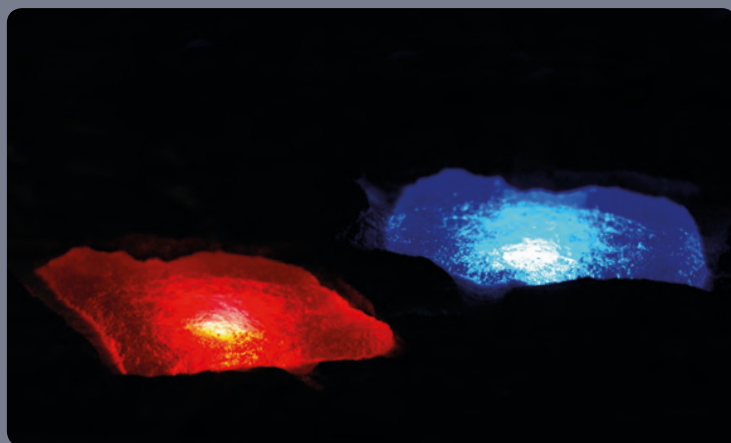


Beckstones can be incorporated in traffic applications and pathways for renovation projects without destroying the existing building structure. Pathways and squares with sunken pavers caused by weather and environmental influence can be renovated by a supporting concrete toe and an additional row of pavers that have some Beckstones integrated. Driving marks from cyclists in park areas are a common issue, and can be solved by an elevated row of pavers on the outer edge of pathways and squares.

# Drive-over



The load-carrying body and the protective edge allow Beckstones to be installed without a bed of mortar or mortar joints. They can be used along driving lanes and parking lots where speed limits are max. 20mph (30 km/h) and where vehicles with inflated tires are allowed. Setting Beckstone in a bed of gravel and sand reduces the installation costs to a minimum and the overall appearance of the installation pattern is not interfered by any mortar joints. If Beckstones are installed as a lane marking the standard white marking stripes can be eliminated completely. This feature enables Beckstone to be used as a parking lot indicator, visual barrier for residential streets and in many other traffic applications without affecting the overall urban and landscape design at daylight.



JoBe Lighting covers the complete production and sales process for its customers. From mould development to installation tools – customers receive full service from one source. We are very flexible and happy to offer many customizing options to our customers with appropriate lead times.

We are able to create individual corporate colors, custom shapes, relief logos and inscriptions that fit your design needs and add value to your light installation. We are happy to make suggestions, so don't be shy to ask us for terrific options on your project!

# Renovation

# Colors and Logos

## NATURE rough, for natural stone



**5 x 5 x 6cm**  
50 x 52/48 x 60 mm  
1 LED/ 0,5W  
Mod.-Nr. 520506xx

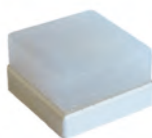


**7 x 7 x 6cm**  
69 x 69 x 60 mm  
1 LED/ 0,5W  
Mod.-Nr. 520706xx

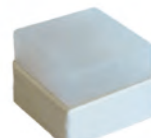


**10 x 10 x 6cm**  
97 x 97 x 60 mm  
1 LED/ 0,5W  
Mod.-Nr. 521006xx

## STYLE Surface flat, for concrete



**10 x 10 x 6cm**  
97 x 97 x 60 mm  
1 LED/ 0,5W  
Mod.-Nr. 541006xx



**10 x 10 x 8cm**  
97 x 97 x 80 mm  
1 LED/ 0,5W  
Mod.-Nr. 541008xx



**7 x 15 x 6cm**  
146 x 70 x 60 mm  
2 LED/ 1,0W  
Mod.-Nr. 540706xx



**Ø 8 x 8cm**  
Ø 76 x 80 mm  
1 LED/ 0,5W  
Mod.-Nr. 550808xx



**Ø 10 x 8cm**  
Ø 96 x 80 mm  
1 LED/ 0,5W  
Mod.-Nr. 551008xx

Round formats  
for core bit

## “NATURE” and “STYLE”

Beckstone offers “NATURE” and “STYLE” surface texture options for many applications:  
NATURE has a rough surface texture that fits in perfectly with basalt, sandstone and marble pavers.

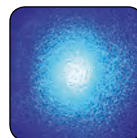
The matted surface makes Beckstone “NATURE” subdued during daylight so it does not interfere with the overall design concept.

STYLE has a pearly surface texture so it goes well with interlocking concrete paving stones and large size patio plates. The pearly structure can utilize dust from the environment to blend perfectly into the interlocking installation. A wide selection of standard sizes and colors gives you creative options for the installation in common pavestone patterns.

## COLORS



**CRYSTAL**  
Farb-Nr. xxxxxx08



**BLUE**  
Farb-Nr. xxxxxx07



**AMBER**  
Farb-Nr. xxxxxx03



Surface texture  
bush-hammered

Surface texture  
bush-hammered



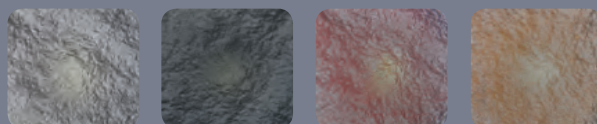
## HISTORIC “invisible” by day



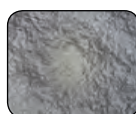
Lit up Beckstones in preferred colors accent the pavestone installation, the new “HISTORIC”-color option makes Beckstone unobtrusive in daylight. The matted translucent body and the patented load carrying body match the color and surface textures of four commonly used pavestone and natural stone. For individual projects the color appearance can be adjusted to the pavers being used.

**The luminous color remains white at night, no matter what color Beckstone is used.**

Beckstone “HISTORIC” is the only in-ground lighting system that does not interfere with your historic or modern design pavestone installations.



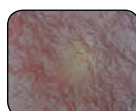
## HISTORIC (in Daylight)



**GRANITE GREY**  
Farb-Nr. xxxxxx11 (Hell)



**BASALT GREY**  
Farb-Nr. xxxxxx10 (Dunkel)



**PORPHYRED**  
Farb-Nr. xxxxxx12



**SAND BEIGE**  
Farb-Nr. xxxxxx19

## Safety / Manuals

**Please read our installation manuals with safety hints as well as our data sheets for more details.**

The mentioned sizes are nominal dimensions. Specifications subject to change without notice.

**Custom sizes and colors  
Custom sizes and colors for projects  
upon request.**

## Assortment

## Beckstone Key Facts:

- Safe traffic routing and marking of hazardous spots and edges with non-glare effect
- Wide assortment of three surface textures "STYLE", "NATURE", "BUSH-HAMMERED" and seven different colors
- Square and rectangle shape from 2x2" to 6x6"
- Ambient lighting without glare
- High-performance, long-life LED-technology with no change of illuminants
- UL + CUL 1838 listing
- Low energy consumption (0.5w/LED-module)
- Drive-over capability without mortar joint
- Reasonable installation costs and secure operation with 12V d.c. system
- Versatile for many architectural and landscape designs
- Ideal for retrofitting and renovation projects with low installation depth and
- IP68 rated, non-slip surface
- High-quality and market experience for many years
- 100% - Made in Germany

Certified Sales Representative:




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