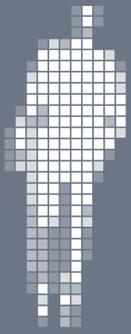




Traffic + Safety



beckstone™

light your way

VERSATILE, COST-EFFICIENT, PATHBREAKING

SAFETY

We're all dealing with changes that affect how we design outdoor spaces. Now more than ever, a key element in any outdoor design needs to be with respect to safety. Let's consider an innovative new option to illuminate public places, and efficiently direct the ever-increasing volume of automotive and pedestrian traffic.

Beckstone offers an intuitive routing system that marks traffic lanes, curbs and barriers clearly and does not interfere with current traffic light applications. Beckstones reduces the risk of claims and damages and it upgrades the appearance of public spaces and facilities with a modern subdued design.

COST-EFFICIENCY

On one hand, the requirements for safety increase in many situations. On the other hand, budgets are cut. The Beckstone innovative lighting system keeps the costs low. We deliver a ready to install lighting system. Each piece can be electrically installed within 5 min. 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 to keep your maintenance as low as possible. Marking hazardous spots in traffic applications will give you short return on investment when the first damage or claim is prevented.

TECHNOLOGY

Beckstone products are made high-quality for long-life. The completely insulation-encased 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 dc 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 and longevity.

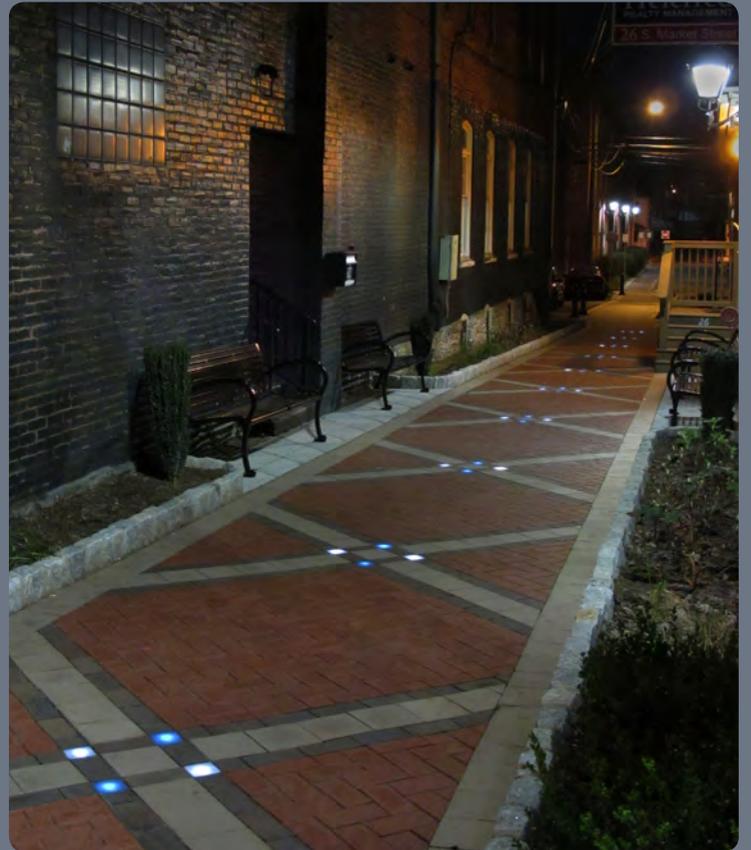




Beckstone protects...

...pedestrians, cyclists, dampers, your tires and bumpers, passengers in public transport, cars in parking lots, traffic installations, roundabouts, budget for claims, pathway edges in landscape architecture, disabled people, the appearance of architectural milestones and the safe feeling for residents and guests....

...and last but not least your budget for energy, construction and maintenance!



Hazardous Edges

Have you had enough of dark and dangerous bus and train stations? Let's face it, more often than not, bus and train stations can be either way to dark or almost invisible to see. New electric vehicles and less noisy cars are more difficult to hear. At many public transport stations exiting bright lit buses and trains becomes a challenge at unlit transit stations. Let's avoid falls, injuries and the headache of compensating for senseless damages resulting from poor light lighting. We can make it so much simpler.

- Increase orientation at safety with non-glare Beckstone.
- With Beckstone crosswalks and lanes get a better visibility for fewer accidents.
- Beckstone can feature special effects, such as blinking light for the approaching train or bus.
- One of the best features is: Beckstone is free of maintenance and energy-efficient.

Now, Beckstone makes safety more affordable than ever. The power consumption of a 20w Halogen bulb runs 50 Beckstones paver lights. So you can protect passengers also at spots where it was not cost-efficient up to now.



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 Beckstone functions as a warning indicator as well as routing marker for traffic flow.

It especially beneficial for all 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 beveled line of additional pavers. This way the current installation can stay the way it was originally designed. You will have a return on investment right away by less cost for landscaping, low energy bills, no exchange of illuminants and the first avoided damages and accidents.

We have experience with the usage of Beckstones along roundabout installations. Let us know your ideas and we get you sketches, technical drawings or edited picture according to you project requirements. Beckstones uses energy efficiently LED-technology. So you do not need to worry about the prohibition of incandescent bulbs in the future.



Areas Of Application

Airports, Train Stations



Traffic hubs like airports and train stations have to deal with interfering kinds of transport. Even a well structured squares in front of those buildings can not 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.

Leaving the airport building or train stations confronts pedestrians with an overwhelming amount of lit signs, outdoor advertising that distracts them from keeping themselves on the walkways. Beckstone prevents unaware pedestrians from possible accidents.

In addition Beckstones are durable and have drive-over capability. So 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 squares get a unique touch that passengers keep in mind.



Public Transport

Curbs at bus stops and train stations contain a risk especially for old and disabled people. It is not only people falling off the platform on to the train tracks, that cause personal damage. Stepping outside a bright lit train on to the dark platform is hazardous in many building situations and affects the surefootedness for all passengers.

Non-glare Beckstone luminaires improve this situation in the use as a platform indicator light.

Further this safety routing indicator light can be extended pathway lighting beyond the platform to a pedestrian crossing. Less noisy cars, more electric vehicles and trolley systems are more difficult to hear. So the designers of public traffic application have to consider audio-visual issues into there future planning. Nowadays we are already able to control our lights by traffic light signals so they can warn passengers of the approaching train or bus.

Beckstones are extremely energy efficient. In comparison to one 20 w light bulb 40 Beckstones can be run with the same energy. With the long-life LED-technology there almost no maintenance cost. Therefore now places can be lit that were to expensive to lit with the outdated technology.



Areas Of Application

Pathway Marking



Naturally, walkways through parks and alleys are darker since the landscape design with plants and trees has less reflection than common traffic installations. Therefore, uneven pathways have a higher risk of tripping especially for visually handicapped people. Regular pole luminaries create light islands with dark areas in-between the space of them.

Also they are usually very bright and glare into the eyes of pedestrians. Therefore the pathway is not visible enough for well surefootedness.

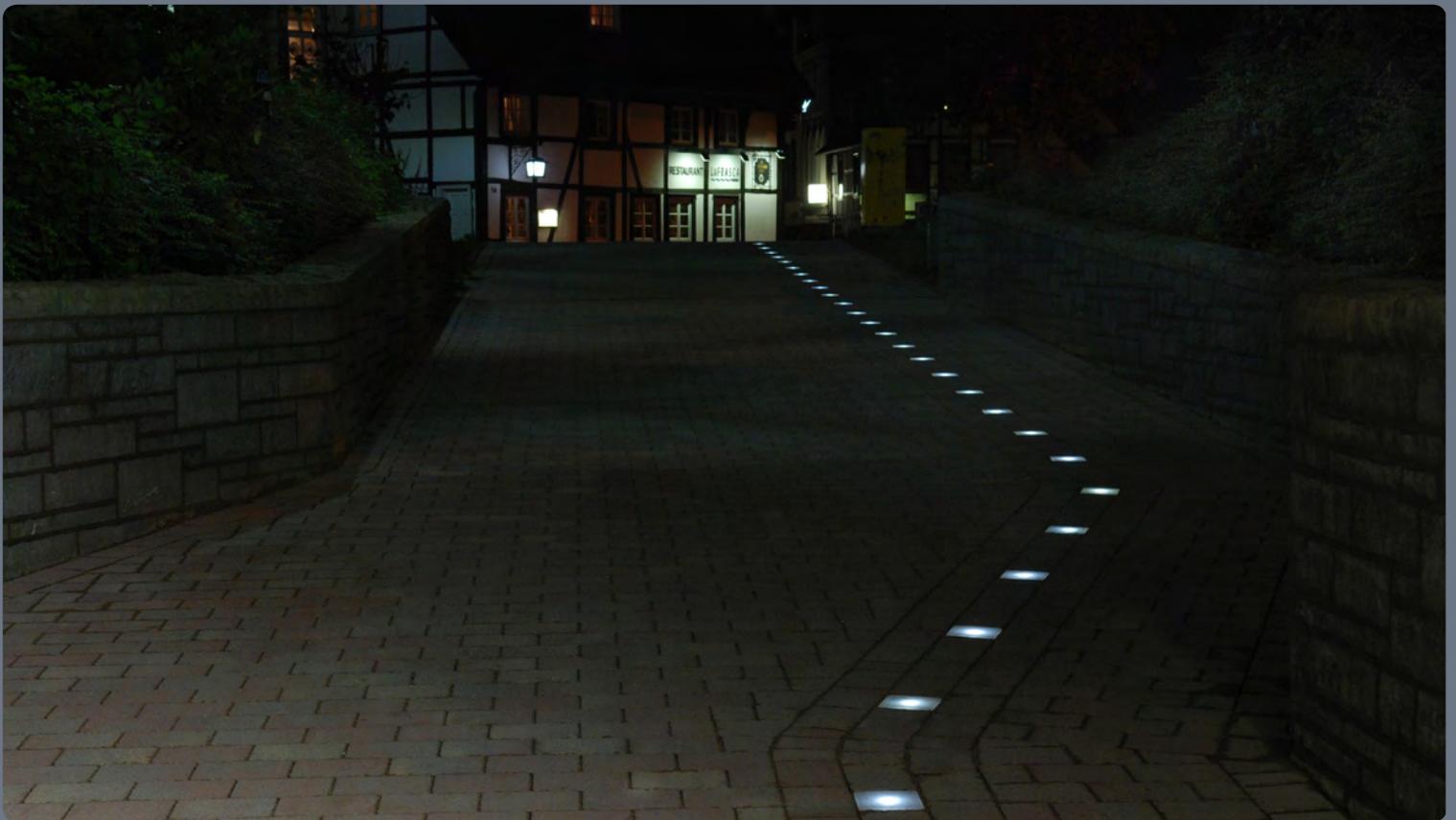
With a light line of one Beckstone every three feet along the pathway Beckstone luminaries' are the ideal indicator light for landscape design. They are root-proof since they are made of one block that roots can not damage.

In winter with light snowfalls Beckstone still mark the edge of the pathway and avoid accidents and claims.



Beckstones are very reasonable. They affect the overall project budget only with a small amount because it is an easy to install 12V dc system that can be installed within 15 inch depth of the surface. The installation with our heat-shrinkable connector set takes not more than 5 minutes per piece.

The long-life investment in energy efficient and almost maintenance free Beckstones enables the efficient operation of your pathway lighting. With Beckstone you can create a modern and mystic atmosphere along your pathways that where not lit before for.



Crossing

Increasing pedestrians safety by slowing down traffic through traffic islands in the middle of the road is common practice all over the world. So pedestrians can cross one lane after the other without the need of an actual pedestrian crossing marking. The advantages are a better traffic flow and a more natural look without white markings – important for historic city centers, or busy downtown areas and some landscape design.

The disadvantage of these traffic islands is, that they are usually not well lit and drivers overlook them easily. The consequence can be damaged installations and even accidents at these intersections.

Beckstone luminaires light these traffic islands for approaching traffic and mark the crossing for threatened pedestrians clearer. Besides advantages for all traffic participants authorities 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 design can not always avoid intersctions where pedestrians are confronted with heavy traffic. The high amount of traffic signs, billboards, and outdoor advertising distract traffic participants.

Accidents and personal damages are the consequence. Additional white markings usually can not prevent confusing traffic situations. The unique light appearance of Beckstone can separate squares, walkways, bike and drive lanes in the intended order. The focus is on highlighting hazardous spots that have a high risk for accidents with pedestrians and bicyclists.



Beckstone are not a traffic light but with smart design optical barriers can be created that make traffic participants more aware of possible risks.

Residential areas with playing kids, old-people's homes with visual handicapped people are some applications for Beckstone to increase the safety. The picture above shows one of the situations where visual barriers create a clear structure . The reasonable and simple installation is one of the major advantages of our product design. So the versatility of Beckstone is one of a kind.

Applying authorities' rules for traffic signage can not always avoid accidents. Traffic islands are especially subject to damage since they are not visible enough at night. High-beams are not allowed within city limits. So it is difficult to notice grey colored and non-lit traffic islands. Reflectors have been used to help the situation, but more and more they are run-over and through the rubbing tires the reflection decreases over time.

Usually safety delineators and additional traffic signage is added to traffic islands by authorities after the first accident already happened. Again, without steady maintenance the reflection will decrease over time and the issue is not fixed.



Beckstones are driven on 12 V dc. This system can be adapted very easily to most traffic island applications. Besides Beckstones blend perfectly during daylight and do not destroy the overall appearance of historic city centers or particular landscape designs in busy downtown areas.

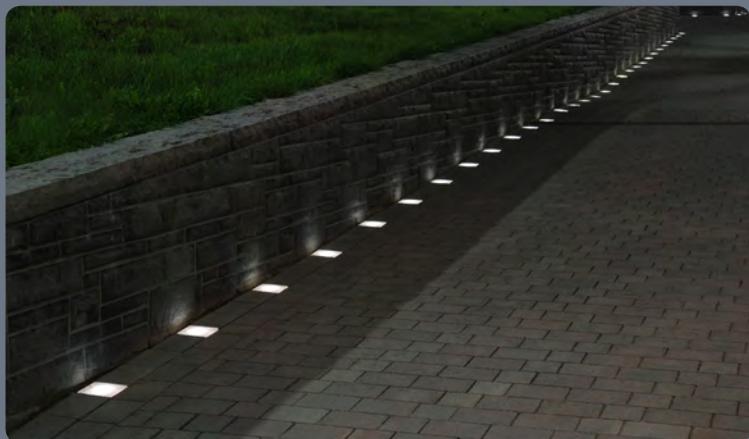
A renovation with Beckstones of existing traffic islands can be done by adding an additional row of beveled pavers in a visible angle.

Pathway Lighting

Parking Lots

The design with plants and trees has less reflection than than common traffic installations. Therefore, uneven pathways have a higher risk of tripping especiallay for visually impaired people.Regular pole luminaries create light islands with dark areas inbetween the space of them. Also streetlights are unusually very bright and glare into the eyes of pedestrians. The pathway becomes not visible enough for well shoefootedness.

- Beckstone is the ideal oriantation light with a light line of one piece every three feet along the pathway.
- Root-proof one cube design



- In winter with light snowfallsBeckstone still marks the edge of the pathway and avoid accidents and claims.
- Beckstones are very reasonable priced. Low code requirements for 12V DC save project budget
- Installation within less than 15 inches depth of the surface.
- Our heat-shrinkable connection set takes not more than 5 minutes per piece.
- Long-life investment in energy efficient and maintenance free pathway lighting.
- Efficient operation with LED-Technology.

Now, light the pathways that were not lit before.

White marked parking lots, in historic city centers or downtown areas and design sensitive environments, are disturbing the overall aesthetic appearance design work.

To help this problem, usually materials with a strong contrast are used to avoid white marking stripes. But during night they are almost invisible and lead to imprecise parked cars. Up to 25 % of the parking lot space in urban environments is not used properly. Beckstone shows its qualities in those kinds of situations:

By adding five to six Beckstones on the marking for each parking lot, each lot can be indicated in the best possible way at night time.



During daytime the granite-like surface texture of our "NATURE" models and the dust-taking feature of our "STYLE" models make Beckstone invisible and 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

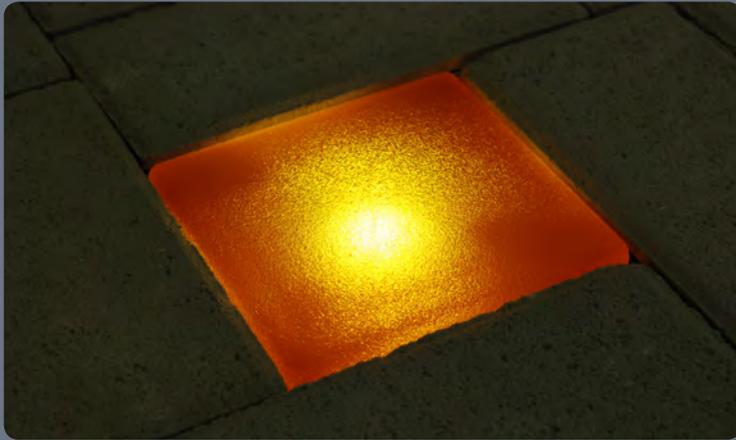
LED - Technology

Beckstone LED -modules use the most recent and reliable LED-technology for long-life and high-performance.

By far LEDs are the most efficient light source that is encouraged by all authorities and lighting associations world wide.

- The power consumption of a standard 20W halogen bulb can run up to 50 standard Beckstones.
- Under ideal conditions our LED-modules have still 70% of the original luminous flux after 80.000 hrs 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.



Our LED-modules have specifications up to 100 lm/watt and continuously improving. Our standard module consumes only 0.4 W and is the ideal mix of a non-glare luminaire and luminous flux.

While common lighting systems create glaring light islands with dark spots in-between the fixtures, Beckstones on the other hand, 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.

Protective Edge

The translucent luminaire body is protected by a load carrying body that extends the translucent body 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).

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.



With a total depth of less than 3 inches Beckstone is ideal for renovation projects since it can be incorporated in the existing structure.

Along parking lot markings and driving lane dividers one of line of pavers can be removed to run and install the power line underneath. Some of the former pavers are replaced with Beckstones.

The 12 V dc power line can be run in a bed of sand underneath the removed pavers. Even large size patio plate installation can get an upgrade 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.

Luminous Flux

Retrofitting

Installation

In comparison to most lighting systems Beckstone is installed with a 12V dc low voltage system at reasonable costs. We supply:

- heat-shrinkable connectors that solder, seal and shrink each connection within 5 Min. with a professional electrical heat-gun.
- 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.
- We deliver a complete package with UL-listed components that makes your final project inspection smoothly.



Beckstones can be incorporated in traffic applications and pathways for renovation projects without destroying the existing building structure.

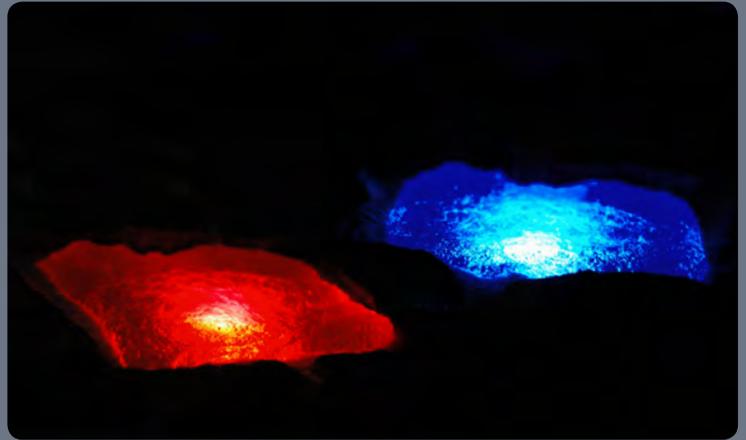
Pathways and squares with sunk pavers caused by weather and environmental influence can be renovated by a supporting concrete toe and an additional row of pavers that have some Beckstones interspersed.

Driving marks from Cyclists in park areas are a common issue. It can be solved by an elevated row of pavers on the outer edge of pathways and squares.

Driveover

The load-carrying body and the protective edge make Beckstones able to be installed without a bed of mortar or mortar joints. They can be used along driving lanes and parking lots where speed is limited to max. 20mph (30 km/h) and only vehicles with inflated tires are allowed. Setting Beckstone only 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 out of one hand.

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

Surface rough, for cobblestone



2 x 2 x 2 3/8"

48/52 x 50 x 60 mm
1 LED, 0.4W

Mod.-No. 520506xx



3 x 3 x 2 3/8"

69 x 69 x 60 mm
1 LED, 0.4W

Mod.-No. 520706xx

STYLE

Surface flat, for concrete



4 x 4 x 2 3/8"

97 x 97 x 60 mm
1 LED, 0.4W

Mod.-No. 544406xx



3 x 6 x 2 3/8"

70 x 146 x 60 mm
2 LED, 0.8W

Mod.-No. 543606xx

“NATURE” and “STYLE”

Beckstone offers “NATURE” and “STYLE” surface texture options for many applications:

NATURE has a rough surface texture that suits 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 keeps some dust from the environment to blend perfectly into the interlocking installation. Four standard sizes and colors give you creative options for installation pattern.



4 x 4 x 2 3/8"

97 x 97 x 60 mm
1 LED, 0.4W

Mod.-No. 521006xx



6 x 6 x 4"

150 x 150 x 100 mm
1 LED, 0.4W

Mod.-No. 521510xx



4,5 x 6 x 2 3/8"

110 x 146 x 60 mm
2 LED, 0.8W

Mod.-No. 544606xx



5,5x5,5x2 3/8"

136 x 136 x 60 mm
2 LED, 0.8W

Mod.-No. 545506xx



Ø 4 x 3 3/8"

Ø 96 x 80 mm
1 LED, 0.4W

Mod.-No. 541108xx

Colors



CRYSTAL
Color-No. xxxxxx08



BLUE
Color-No. xxxxxx07



AMBER
Color-No. xxxxxx03

JoBe Lighting and partners happily put your ideas into action and answer all inquiries about design and technology.

Custom stones are our specialty!

Models

Beckstone Key Facts:

- Wide assortment of two surface textures “STYLE” and “NATURE” and four different colors
- Square and rectangle shape from 2x2“ to 5.5x5.5”
- Ambient lighting without glare
- High-performance, long-life LED-technology with no change of illuminants
- UL + CUL 1838 listing
- Low energy consumption (0.4 W/LED)
- Drive-over capability without mortar joint
- Reasonable installation costs and secure operation with 12V dc system
- Versatile for many architectural and landscape designs
- Ideal for retrofitting and renovation projects with low installation depth
- IP68 rated,
- High-quality and market experience for many years
- 100% - Made in Germany

Certified Sales Representative:



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