



 **Organic-Lock**
STABILIZED AGGREGATE





Brooklyn Bridge Park
Brooklyn, NY



LEED

LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN

- RAPIDLY RENEWABLE
- WATER PERMEABLE
- RECYCLED CONTENT
- HEAT ISLAND EFFECT
- REGIONAL MATERIALS

(Cover: Presidio Tunnel Tops,
Golden Gate National Park,
San Francisco, CA)

QOLSA

MADE FROM A RENEWABLE PLANT RESOURCE

Organic-Lock is a patented powdered binder made from a renewable plant resource and specialized proprietary additives. It's designed to be blended with crushed aggregate to create natural looking pathways and surfaces. The binder locks the aggregate in place to minimize erosion and maintenance, all the while allowing sitting water to permeate into the groundwater table.



NATURAL AESTHETIC



ADA COMPLIANCE



WATER PERMEABLE

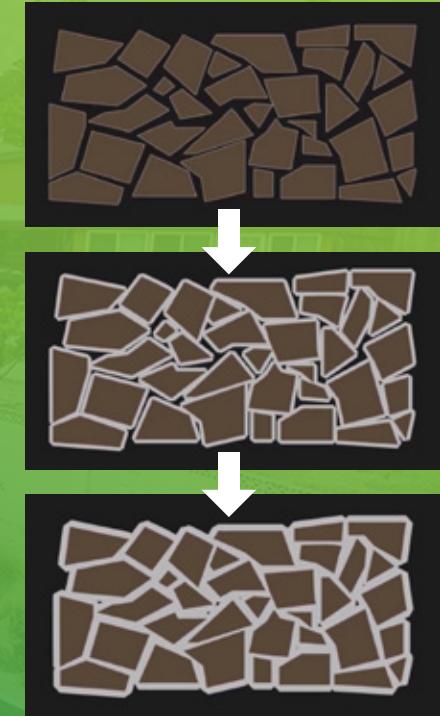


REDUCE MAINTENANCE

HOW IT WORKS

The binder activates on contact with water to resist erosion and maintain stability in pathways and other surfaces, all while remaining water permeable. As the water permeates the aggregate, it gets absorbed by the Organic-Lock and creates a gel that coats the aggregate particles. The gel expands in size and holds the aggregate particles together, which significantly reduces erosion.

Once the gel reaches its maximum swell volume, it is unable to take on any new water, so the excess water passes directly through the system, down into the ground water table. Over time, the gel releases its water through evaporation to the atmosphere and through percolation into the ground water table, recharging the system to be ready for the next rainfall.



The gaps between the aggregate are connected by the Organic-lock gel

Anaheim Coves Trail,
Anaheim, CA

 QOLSA



ADA COMPLIANT

TEST RESULTS

Trial	Slope (%)	Firmness (in)	Stability (in)
1	1.9	0.177	0.211
2	2.8	0.174	0.188
3	0.9	0.167	0.179
4	1.4	0.168	0.187
5	2.0	0.164	0.177
Avg.	1.80	0.170	0.188
SD	0.71	0.005	0.014

ADA COMPLIANT

Organic-Lock Stabilized Aggregate was tested to the ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment. Organic-Lock Stabilized Aggregate met the maneuverability performance requirements of ASTM F 1951-09b.

WATER PERMEABLE

The core focus of the scientific research used to develop the Organic-Lock product was targeted at developing a resilient aggregate surface that still remains water permeable.

Results from a Double Ring Infiltrometer (12-inch inner ring and 24-inch outer ring) test procedure show an average water infiltration rate of 0.85 inches per hour within the 12-inch ring over the course of 6 hours in duration.



USES & CREATIVE DESIGN

University of Notre Dame
Notre Dame, IN



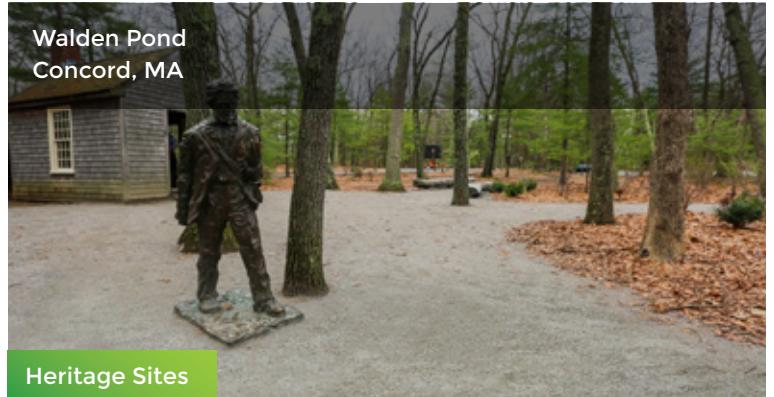
Sloped Applications

Presidio Tunnel Tops
San Francisco, CA



Children's Playgrounds

Walden Pond
Concord, MA



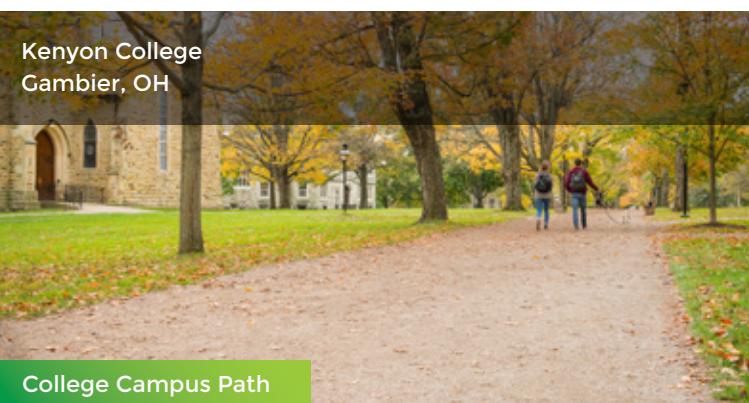
Heritage Sites

Perkins Woods
Evanston, IL



Nature Trails

Kenyon College
Gambier, OH



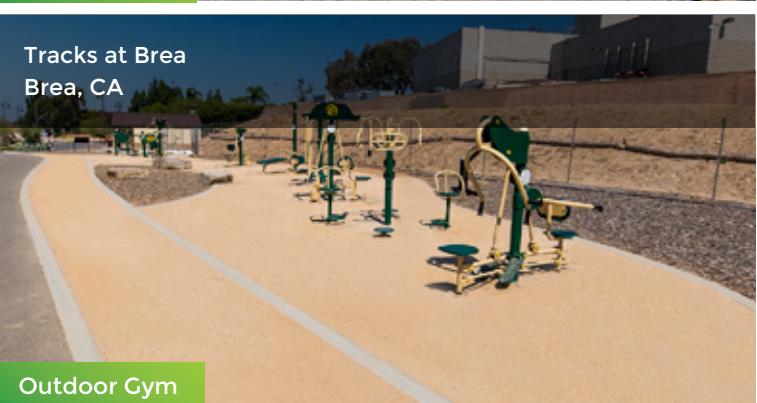
College Campus Path

Jardins Botanique de Montreal
Montreal, Canada



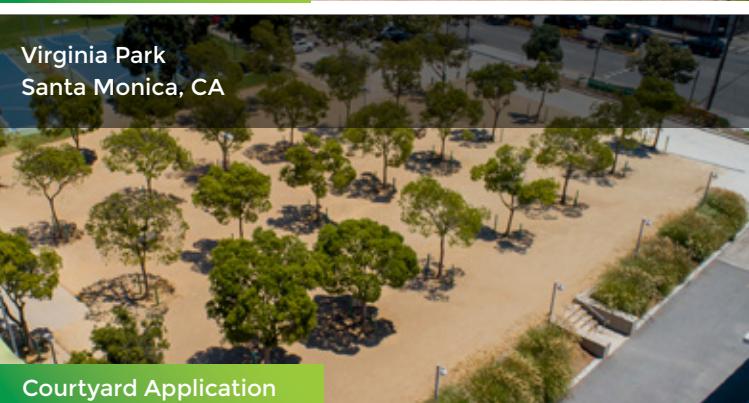
Garden Path

Tracks at Brea
Brea, CA



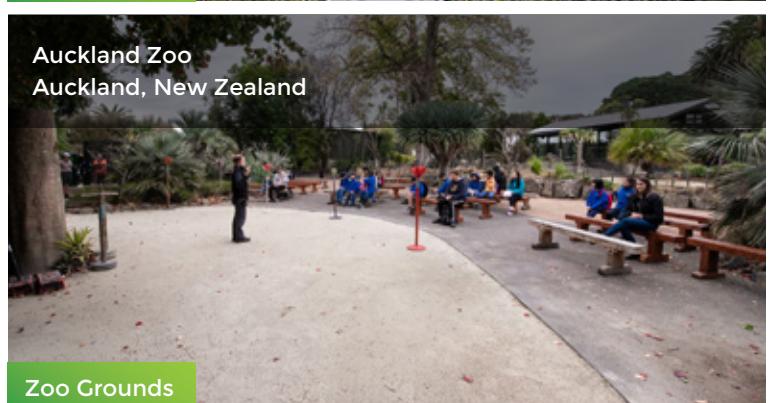
Outdoor Gym

Virginia Park
Santa Monica, CA



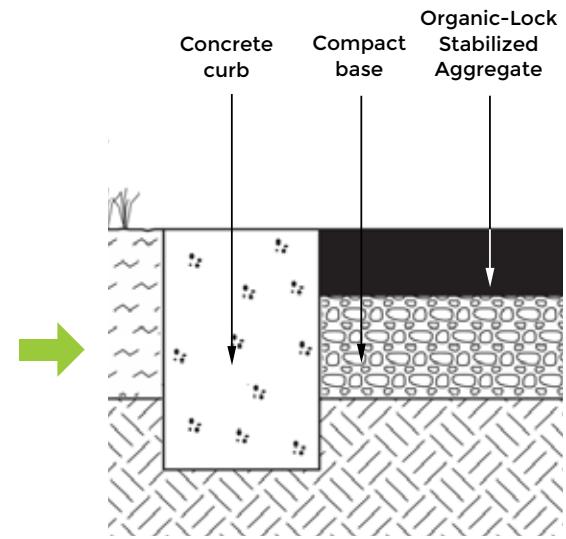
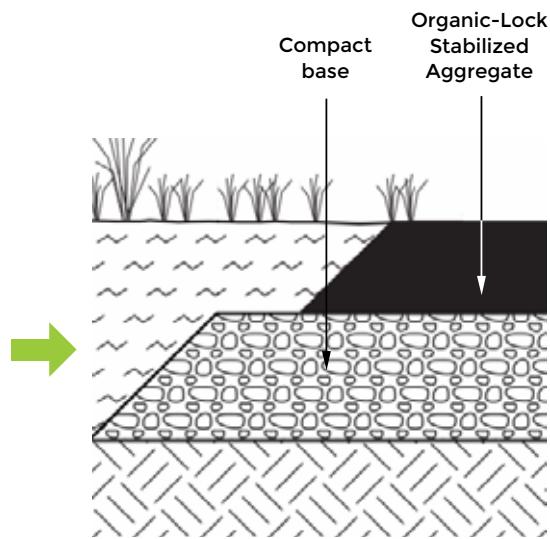
Courtyard Application

Auckland Zoo
Auckland, New Zealand



Zoo Grounds

EDGING OPTIONS



COLOR OPTIONS



The color of the end product takes the color of the aggregate used.

Licensed Organic-Lock Stabilized Aggregate Dealers are set up across North America to provide locally sourced aggregate properly blended with the Organic-Lock binder. Visit Organic-lock.com to view.



INSTALLATION STEPS

1 Contact us at info@organic-lock.com to let us know you're working on a project. Our team will help consult to ensure best success. We work best when we're included earliest.

2 Check and evaluate surrounding watershed. Identify any low-lying areas. Identify the need for cross slopes, drains, culverts etc.. Consult with us. Identify the type and frequency of traffic to determine depth of install.

3 Use our online calculator to help you determine quantity and depth.
<https://www.organic-lock.com/product-calculator/>

4 Prepare and install proper base using your regions DOT guidelines.

5 Prior to installing OL Stabilized Aggregate, make sure the material is properly blended with ideal moisture content before spreading. Add water to achieve approximately 8-10% total moisture. Test using a snowball test.

Be sure not to over-water.



Not enough moisture

Too much moisture

Ideal moisture

6 Spread with paving spreader for optimal efficiency and consistency.

7 Compact with minimum 1 ton static roller.

8 Provide a final light soaking to saturate just the top.

ALLOW TO CURE FOR 72 HOURS

ESSENTIAL DESIGN REQUIREMENTS



Avoid drip edges (water dripping off edge of side of building etc..)



Only use a rolled edge or a firm edge.
Anything that moves is no good!



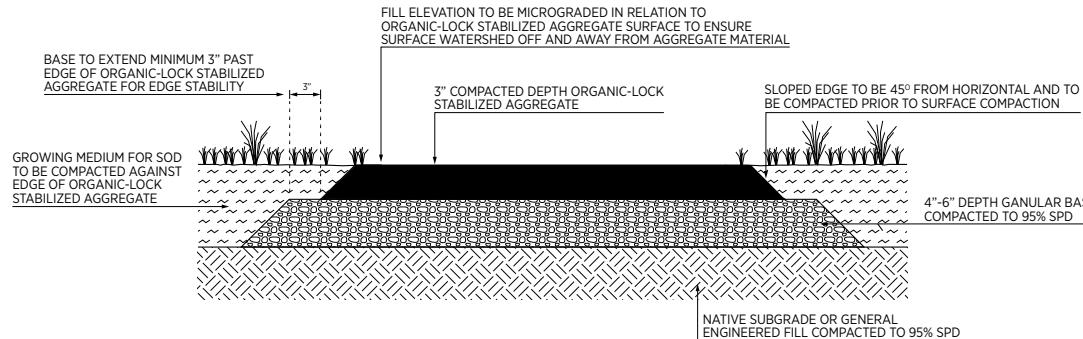
Avoid low-lying areas that accumulate sitting water.

DETAILED CROSS-SECTIONS

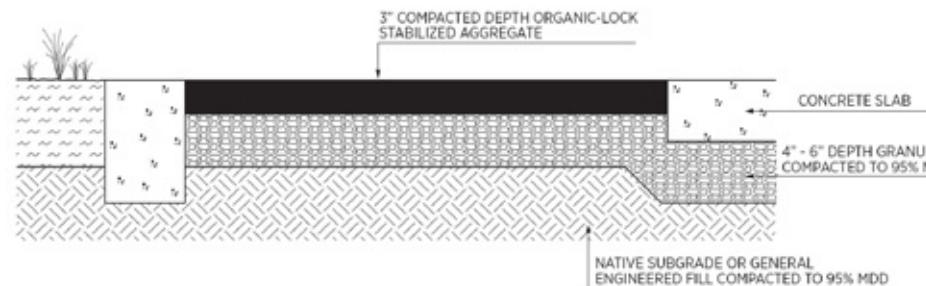
Contact us to discuss your plans. We're here to help.

INFO@ORGANIC-LOCK.COM

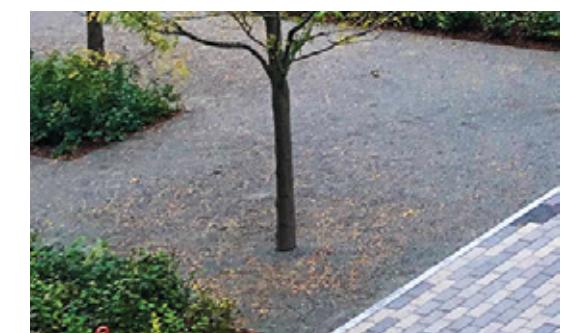
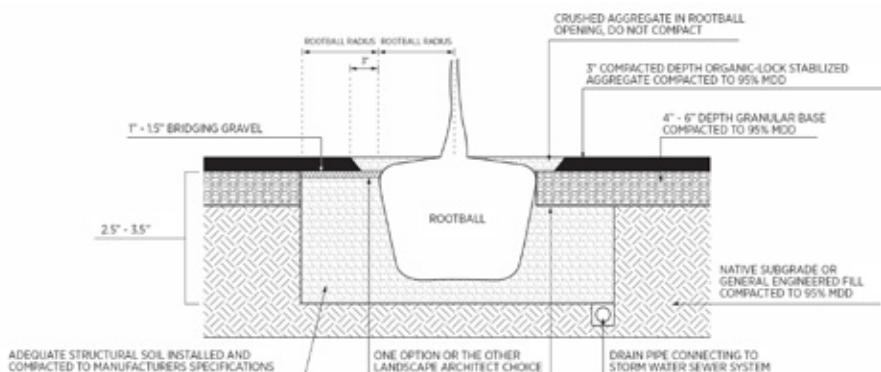
Standard Rolled Edge



Concrete Border



Installing Around Trees





MAINTENANCE

Maintenance analysis program required - catch an issue before it develops.

Erosion Damage

Erosion is often the symptom and not the disease. Ongoing erosion (erosion in the same location) is often the symptom of a flaw in the watershed system surrounding the project area. This issue can often be reduced, and even eliminated, by adjusting the areas surrounding the aggregate surface. Divert water where possible using culverts, berms, and drains. If you do experience erosion damage, first look at ways to get the water away or slow the water down that's causing the damage. Second, replace the lost aggregate with new Stabilized Aggregate material following the guidelines found in the Maintenance Page link below.

Removing Debris

Remove grass clippings, soil, debris or organic material by mechanically blowing or hand raking as needed.

Removing Snow

When plowing snow, use a shoe lift or rubber baffle on the blade of the plow to lift the blade up $\frac{1}{4}$ " off the surface. Extra precautions should always be taken during the shoulder seasons (i.e. just before and just after winter) while the temperature hovers around freezing, as this is when the material is most prone to damage (i.e. the ground is not yet frozen).

Excess Loose Material

As the surface weathers with traffic and time, the larger particles of the aggregate will loosen on the surface to create a natural look that leads to the "crunch underfoot" texture that is often sought after in natural settings. If loose material exceeds a $\frac{1}{4}$ " depth, redistribute the particles over a greater surface, scarify the surface to a depth of 1", water to a 1" depth, and compact with a roller of no less than 1000 lbs. In areas where a large roller is not available, you can use a vibratory plate tamper or a manual hand tamper if needed. Keep traffic off for 24-72 hours.

Rejuvenation/Fixing Damaged Area

Soak, scarify with a rake or nail drag and compact. Consult your dealer if you feel more material is needed to be integrated.



For more information visit
ORGANIC-LOCK.COM/maintenance



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“The right stabilizer is critical: We now specify Envirobond’s Organic-Lock as the stabilizer for all our DG installations.”

- Neil Budzinski & Matthew Girard
Sr. Associates at MVVA
Landscape Architecture Magazine

Harvard University
Cambridge, MA

 **OLSA**



ORGANIC-LOCK.COM



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