

Organic-Lock Stabilized Aggregate (OLSA) is a natural surfacing solution composed of a proprietary plant-based binder blended with crushed aggregate. The binder locks the aggregate particles in place to minimize erosion and maintenance, all the while remaining water permeable. OLSA is designed for pedestrian, bicycle, wheelchair, and light vehicular traffic.

ADA COMPLIANT

LEED POINTS

RESISTS EROSION

WATER PERMEABLE

Organic-Lock Stabilized Aggregate (OLSA) is blended and sold by licensed dealers. Contact www.organic-lock.com for more information.

Approved aggregates are material consisting of sound, angular, durable particles. Gradation in accordance with ASTM C136:

Licensed Organic-Lock Dealers are set up across North America to provide locally sourced aggregate properly blended with the Organic-Lock binder.

The color of the end product takes the color of the aggregate used. Visit Organic-Lock.com to view.

Optimal Gradation		
Sieve	Sieve Size (mm)	Percent Passing
4	4.75	80-100%
8	2.36	65-90%
16	1.18	40-65%
30	0.6	25-55%
50	0.3	15-35%
100	0.15	10-20%
200	0.075	5-15%

COLOR OPTIONS



FOR FULL INSTALLATION INSTRUCTIONS, VISIT: <https://www.organic-lock.com/installation/>

1. HYDRATION

Proper hydration of the Organic-Lock Stabilized Aggregate (OLSA) is crucial to the installation and longevity of the surface. The instructions below refer to Organic-Lock that has been pre-blended with aggregate and contains optimal moisture content.

For more information on pre-wetting, and pre-blending Organic-Lock visit: <https://www.organic-lock.com/snowball-test/>

2. ENVIRONMENTAL CONDITIONS

Achieve best results installing Organic-Lock Stabilized aggregate in dry conditions and temperatures above 40°F (5°C).

3. PREPARATION

3.1. Prepare the Subgrade: Excavate the area to the depth required so that finish grade can be established as noted on plans. Compact the subgrade to 95% Modified Proctor Density.

Traffic Type	Compacted Base Depth	OLSA Depth	Total Depth
Pedestrian/Bicycle	4 - 6 in (100 - 150 mm)	3 in (75 mm)	7 - 9 in (175 - 225 mm)
Light Vehicular	8 - 12 in (200 - 300 mm)	4 in (100 mm)	12 - 16 in (300 - 400 mm)

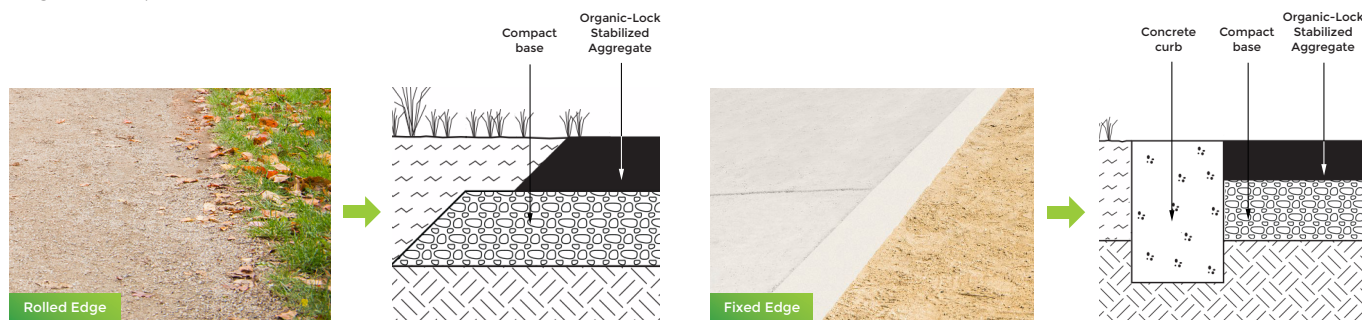
3.2. Prepare the Base: Install the base material as per your region's approved DOT road base guidelines. Clear stone or ungraded base is NOT acceptable in this application. Compact the base to 95% modified proctor density.

4. WATERSHED MANAGEMENT

Crowns and/or cross-slopes must be incorporated into the compacted base material. If the slope is 2% or lower, a crown should be incorporated into the pathway. If the slope is greater than 2%, incorporate a cross-slope. Note: The addition of crowns and cross-slopes is heavily dependent upon surrounding watershed.

5. EDGING

Edging options for OLSA surfaces are grouped into two categories: fixed edge, meaning an edge that doesn't move, and rolled edge, that tapers down.



We recommend against using plastic, thin aluminum, or other flexible material edging for OLSA surfaces. After compaction, OLSA surfacing should be flush with or slightly above any edge material such that water may shed off of the OLSA surface.

5. SPREADING

The use of a paving machine is highly recommended for large projects to evenly spread Organic-Lock Stabilized Aggregate (OLSA) at the specified depth. It is recommended to screed the material to ensure the depth is consistent for smaller projects or projects with tight areas.

Spread the loose and uncompacted Organic-Lock Stabilized Aggregate over the compacted base material. Typically, OLSA compacts between 25% and 25% (i.e. spread 5 inches to compact down to 4 inches). Compaction will vary with different aggregates due to particle shape and size.

6. COMPACTION

Make passes using a minimum 1-ton double or single static drum roller, or equivalent. Compact until no further deflection occurs during rolling. If project conditions prohibit the use of a roller, contact Organic-Lock for project-specific guidance.

For tight spaces that are not accessible by drum rollers, a hand tamper is recommended. However, in certain circumstances, a vibratory or plate tamper can be used where the installer deems it to be more effective as hand-tamping over large spaces will create inconsistent results. Lifts will vary depending on the vehicular traffic application. Install up to 4 inches compacted depth in a single lift.

7. COMPLETING INSTALLATION

Apply a light spray to the surface of the material to ensure binder is fully activated. Apply water until the water begins to run-off.

Do not allow any traffic on the newly installed pathway until fully cured, a minimum of 24-72 hours.



Presidio Tunnel Tops
San Francisco, CA



Harvard University
Cambridge, MA



Brooklyn Bridge Park
Brooklyn, NY

<https://www.organic-lock.com/projects/>

