



NATURAL PATHWAY GUIDE



“Over six miles of trails, constructed primarily of native decomposed granite with an organic stabilizer weave carefully throughout the woodlands and connect the new program spaces on both parcels... the trail system respects existing large stands of heritage live oaks, persimmon and cedar elm, preserving these ecological communities in 'trail and tree encounters.

-ASLA Professional Awards Jury on Phil Hardberger Park, Stephen Stimson Associates

FOLLOW THE NATURAL PATHWAY

Stabilizer natural pathways employ environmentally friendly technologies, seamlessly blended with decomposed granite, crushed stone, other natural aggregates and soils. Technologies include water absorbing, waterless, sprayable, and turf reinforcing options. They bring landscape pathways, trails, driveways, fire lanes, parking areas, plazas and patios closer to nature.

- > These paths provide **accessible, non-slip surfaces**
- > They offer **a native aesthetic for your landscape**
- > They provide **environmental benefits**, with LEED® green building program point potential
- > These paths have **proven traffic durability**
- > These paths clearly *are not* concrete or asphalt

THE ORIGINAL NATURAL BINDER

STABILIZER

The only patented natural soil binder formulation. Derived from rapidly renewable organic plant materials, Stabilizer increases accessibility in natural aggregates and structural soils. Many products call themselves "stabilizers" but this is the original natural binder trademarked over 30 years ago.



Stabilizer
THE ORIGINAL NATURAL BINDER

HOW DOES IT WORK?

- > **INTEGRATION** - Blends into pore space of soil aggregate
- > **ABSORPTION** - Absorbs 12 X its weight in water
- > **COHESION** - Forms a cohesive gel that binds soil particles, keeping stability between soil particles during periods of excessive moisture
- > **BALANCE** - Maintains damp soil consistency longer when wet, and slowly releases moisture back into the soil in dry conditions
- > **STABILITY** - All of this equals a more stable and accessible footing for traffic achieved naturally



LOCATION: PHIL HARDBERGER PARK
San Antonio, TX, USA
37.8499° N, 119.5677° W
TRAIL LENGTH: 6 miles
SURFACE: Stabilized Decomposed Granite
CREDIT: Lauren Stimson

THE NATURAL ALTERNATIVE TO ASPHALT & CONCRETE

STABILIZED DECOMPOSED GRANITE & CRUSHED STONE



Stabilized Decomposed Granite and Crushed Stone pathways are locally sourced and approved aggregates, blended with Stabilizer. Colors are derived from the natural weathering of soil and rock particles in various regions.



REGIONAL
Decomposed Granite and other crushed rock varieties approved in many regions



PERMEABLE PAVING
Most aggregate options are permeable



NON HAZARDOUS
Non hazardous to plant, animal and human life



RECYCLED OPTIONS
Stabilized aggregates can be reused. Recycled concrete, asphalt, and other materials can become stabilized pathways



SOLAR REFLECTANCE OPTIONS Lighter colors meet SRI ratings needed to reduce Heat Island Effect



EXAMPLE COLORS OF STABILIZED DECOMPOSED GRANITE

EXAMPLE COLORS OF STALOK

TRAIL READY : WATERLESS INSTALLATION CREATES MORE ACCESS

“ In 2013, we continued to improve accessibility on the Valley Loop Trail from Lower Yosemite Fall to Camp 4. Crews used sustainable materials to create a well-defined, accessible path that allows all visitors to easily navigate the trail.
 –Yosemite Conservancy.Org on Legendary Valley Trails Restoration

STALOK PAVING

StaLok Waterless Technology gives natural aggregate soil particles increased strength, but still allows them to bind like soil particles, rather than gluing in place like other polymers. The result is increased traffic resistance, water resistance, and flexibility in installation, expansion and repairs.

> **WATERLESS** - Patented polymer technology coats soil particles with a hydrophobic polymer blend. This can only be done in a proprietary manufacturing process.

> FLEXIBLE PAVING

> **REDUCED DOWNTIME AND LABOR SAVINGS** - “StaLok, does not require a “cure time” ...the trail was placed and compacted in two days, minimizing closure to park visitors on one of Glacier’s most prominent trails.”
 –Jack Gordon on Glacier National Park Trail of the Cedars

STALOK CONCENTRATE

StaLok Concentrate sprayable polymer is specially formulated to work with Stabilizer in unique site conditions. This new polymer is designed to infiltrate the surface layer and absorb into the subsurface Stabilizer. This fills pore space and locks aggregate surface particles into place.



LOCATION: JAMES TURRELL AIR APPARENT, ARIZONA STATE UNIVERSITY
 Tempe, Arizona, USA
 33.4172° N, 111.9365° W
SURFACE: Red Lava Cinder with StaLok Concentrate Top Coat

YOSEMITE NATIONAL PARK

GLACIER NATIONAL PARK

GRAND TETON NATIONAL PARK

YELLOWSTONE NATIONAL PARK

ZION NATIONAL PARK

GRAND CANYON NATIONAL PARK

WALNUT CANYON NATIONAL MONUMENT

AMISTAD NATIONAL RECREATION AREA

MISSION SAN JUAN CAPISTRANO HISTORICAL SITE



LOCATION: YOSEMITE NATIONAL PARK
 Yosemite, CA, USA
 37.8499° N, 119.5677° W
 Estimated 5K to 7K visitors per day, peak season
SURFACE: StaLok Gold Paving Material



EARTH & TURF: GRASS EVENT SPACES, DRIVEWAYS & FIRELANES

“ Unlike a lot of green roofs that store water, this one is entirely occupiable... Below that are six inches of a highly specified soil-and-sand mixture that also includes geofibers. They act almost like roots...they hold the soil together so you don't get any erosion, and they allow the soil to withstand compaction.

-Eric Kramer via Green Building and Design Magazine on Kauffman Center

LOCATION: KAUFFMAN CENTER
 Kansas City, MO, USA
 39.0937° N, 94.5868° W
SURFACE: StaLok Fiber Reinforced Fescue

STALOK FIBER

Flexible polypropylene fibers that mimic grass roots in size and flexibility, providing three dimensional strength and stability to sand and soil by spreading a point load across a larger area in the rootzone.

HOW DOES STALOK FIBER WORK?

- > **INTEGRATION** - Grass roots grow through StaLok Fiber
- > **PROMOTES PLANT GROWTH** - Creates porosity and air-filled porosity
- > **TRIANGULATION** - Spreads point load across root zone network
- > **LOAD BEARING & SHEAR STRENGTH** - Increases load bearing and shear strength without increasing compaction
- > **STABILITY** - Maintains stability across various moisture contents and grass cover
- > **NO PLASTIC FORMS** - replaces objects that inhibit plant growth and shift with the freeze/thaw cycle

TRAFFIC RESISTANCE

Test results show that the inclusion of StaLok Fiber at the rate of between 3- 5% have increased unconfined compression test results, up to 4 times as much in sand based systems.

PLANT HEALTH

StaLok Fiber has shown increases in total porosity of 11%, including air filled porosity at 14%, as a result the infiltration rate of water is also increased.

SLOPES

StaLok Fiber increases shear strength, this may allow for steeper slopes to be constructed without slope failure



MORE ON LEED®

The U.S. Green Building Council's LEED® green building program is the preeminent program for the design, construction, maintenance and operations of high-performance green buildings. Learn more at usgbc.org/LEED.

REDUCED HEAT ISLAND EFFECT/ SOLAR REFLECTANCE

LEED Code- SS 7.1 Heat Island Non-Roof

RAPIDLY RENEWABLE RESOURCES

LEED Code- MR 6 Rapidly Renewable

STORMWATER MANAGEMENT

LEED Code- SS 6.1 Stormwater Quantity and SS 6.2 Stormwater Quality

USE OF REGIONAL MATERIALS

LEED Code- MR 5 Regional Materials

RECYCLED CONTENT

LEED Code- MR 4 Recycled Content

RECYCLABLE PATHWAYS

While not a LEED Category, Stabilized Decomposed Granite is non toxic and can be reused in many other areas. Can be used with recycled materials such as asphalt or concrete grindings.



MORE ON ADA

Stabilizer natural pathways meet Americans with Disabilities Act standards for firm, non-slip surfaces.

“StaLok stabilizer maintained a more consistently firm and stable surface than the other trail segment surface materials.”

-National Trail Surface Study, National Center on Accessibility

Test Results

Method: Static Coefficient of Friction Test (ASTM C 1028)
 Individual Coefficient of Friction (fc)
 Stabilizer - 0.89
 StaLok - 0.91

“ Inspired by our client's need for storm water solutions and the Sonoran Desert's arroyos, the design of the desert mall allows campus drainage to meander through a new, high performance, water cleansing native landscape...Stabilized decomposed granite walkways in combination with desert shade trees help to reduce the urban heat island effect...

-Christy Ten Eyck via ASLA Design Awards Jury on ASU Polytechnic Campus,

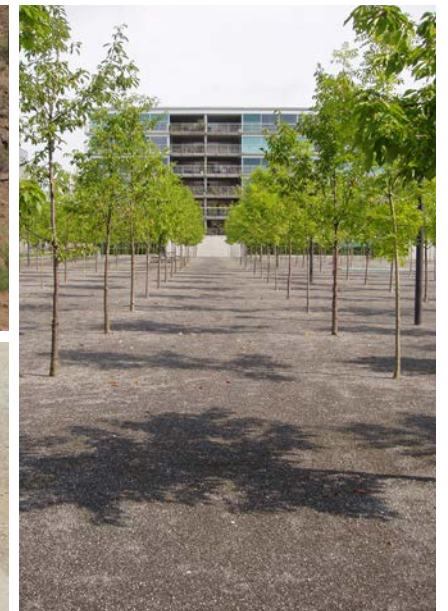
TRAFFIC AND EMERGENCY ACCESS

With proper design, Stabilizer natural pathways meet most municipality requirements for emergency access.

Marshall Stability is a measure of resistance to plastic flow of cylindrical specimens of asphalt and aggregate mixtures loaded on the lateral surface by means of the Marshall apparatus.

Test Results

Method: Marshall Stability (ASTM D 1559 AASHTO T 245)
 Stabilizer and StaLok- 2900-3900 lbs



MORE ON STABILIZER SOLUTIONS, INC. ADVANCING THE EVOLUTION OF SOIL

In business since 1982, Stabilizer Solutions, Inc. remains family owned still today. It all started with the first patented organic soil binder known as Stabilizer®. Stabilizer is credited with creating the entire Stabilized Decomposed Granite and Crushed Stone category.

We believe that natural materials can be alternatives to concrete, asphalt, and other artificial surfaces. We believe this not only for pathways, but all landscaping, athletic, golf, and equestrian surfaces. We really only focus on one thing- stabilizing the performance of natural soils where greater performance is demanded.

“ We love this soil stabilizer from Stabilizer Solutions. It makes a solid sort of walking surface but it isn't concrete and its permeable...It just has a wonderful sensual quality about it.

–Christy Ten Eyck FASLA via Snap Magazine

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