



SECTION 3

STALOK® PAVING MATERIAL FOR ROADS, FIRE LANES, DRIVEWAYS AND PARKING LOTS

PART 1 - GENERAL

1.1 SUMMARY

- A. The work of this Section consists of all paving work and related items as indicated on the drawings and or as specified herein and includes, but is not limited to, the following items:
 - 1. StaLok® Paving Material aggregate road, parking, and fire lane surfacing
- B. Related Sections:
 - 1. Section 02100 – Site Preparation
 - 2. Section 02200 – Earthwork
 - 3. Section 02230 – Granular Materials
- C. General Provisions
 - 1. All of the contract documents, including General and Supplementary Conditions and Division I General Requirements, apply to the work of this Section.
 - 2. Examine all drawings and all other Sections of the Specifications for requirements therein affecting the work of this trade.
 - 3. Coordinate work with that of all those affected by work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.2 PERFORMANCE REQUIREMENTS

- A. The following standards and definitions are applicable to the work of this Section to the extent referenced herein:
 - 1. Standard Specifications: Highway Department, Standard Specifications for Highways and Bridges, latest edition.
 - 2. ASTM: American Society for Testing and Materials.
 - 3. AASHTO: American Association of State Highway and Transportation Officials.

1.3 SAMPLES AND SUBMITTALS

- A. Sieve analysis of aggregate for road, parking lots, and fire lanes.
- B. Samples and or shop drawings for the following:
 - 1. Aggregate for strength and color.
- C. Construction Samples:
 - 1. Construct mock-up panels or areas for each different type of paving system as specified herein to demonstrate ability to archive types of setting bed, joints, pattern, color and texture required herein.

2. StaLok® Paving Material for aggregate road and fire lane surfacing: Construct a 12' x 24' sample of finished path as directed by the Owner's Representative on site.
3. General:
 - a. Schedule mock-up construction so that mock-up can be accepted a minimum of 30 days prior to the application of paving surfaces represented by the mock-up.
 - b. Locate mock-up panel(s) in areas as directed by the Owner's Representative.
 - c. Continue to construct mock-ups until acceptable mock-up is produced (at no cost to the Owner). Acceptable mock-up shall be standard for texture, color and workmanship.
 - d. Use same setting bed and joint mixes used in accepted mock-up in final work unless otherwise directed by Owner's Representative.
 - e. Protect accepted mock-ups from damage until completion and acceptance of the work represented by the mock-ups.
 - f. Remove mock-up panel(s) from the site at completion of the project, unless otherwise instructed by Owner's Representative.

1.4 PROJECT/SITE CONDITIONS

- A. Field Measurements: Each bidder is required to visit the site of the work to verify the existing conditions. No adjustments will be made to the Contract Sum for variations in the existing conditions.
 1. Where surfacing is indicated to fit with other construction, verify dimensions of other construction by field measurements before proceeding with the work.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Installer to provide evidence to indicate successful experience in installation of StaLok® Paving Material or approval by manufacturer.

1.6 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Special Warranty: Submit a written warranty executed by the installer agreeing to repair or replace components of StaLok® Paving Material that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:
 1. Premature wear and tear, provided the material is maintained in accordance with manufacturer's written maintenance instructions.
 2. Failure of system to meet performance requirements.
- C. Warranty Period: Contractor shall provide warranty for performance of product. Contractor shall warranty installation of product for the time of one year from completion.
- D. Contractor shall provide, for a period of sixty days, unconditional maintenance and repairs as required.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. StaLok® Paving Material is provided by the following manufacturer:

1. Stabilizer Solutions, Inc. 33 South 28th St., Phoenix, AZ 85034; phone (602) 225-5900, (800) 336-2468; fax (602) 225-5902; website www.stabilizersolutions.com; email info@stabilizersolutions.com

2.2 MATERIALS

B. Aggregate Specifications

1. Crushed stone shall consist of inert materials that are hard, durable, with stone free from surface coatings and deleterious materials. Gradation requirements shall be as follows:

U.S. Sieve No.	Percent Passing by Weight
# ½-inch	98 – 100
# 3/8-inch	90 – 100
# 4	65 – 80
# 8	48 – 63
# 16	40 – 49
# 30	30 – 40
# 50	20 – 27
# 100	10 – 18
# 200	10 – 12

2. R-value minimum of 70 determined by ASTM D 2488 Methodology (R-value is a measure of wear resistance).
3. Sand equivalent – an engineering measurement of the proportion of sand to silt and clay, will stay at a range of 30-55. As determined by ASTM D 2419 methodology.
4. Dense graded crushed stone base shall be furnished and installed as required and specified under Section 02200, Earthwork and Section 02230 Granular Materials to a 6” compacted depth.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Base shall be between 6” and 8” thick layer of your state’s DOT crushed granular base material installed at 95% compaction on top of subgrade.
- B. Make any corrections necessary to base furnished and installed under Section 02200 Earthwork and Section 02230 Granular Materials to bring gravel to the sections and elevations shown on the drawings.
- C. Pre-soak base material with water prior to installing StaLok® Paving Material as needed to compact base.
- D. Make sure proper drainage is available to ensure no standing water on surface or adjacent to StaLok® Paving Material, including downspouts when placed under roof overhang.

3.2 BLENDING

- A. StaLok® Paving Material is a solely owned patented process.
- B. Blending procedures are performed only by a licensed StaLok® Paving Material blender and can only be sold through licensed StaLok® Paving Material Dealers. It is a pre-blended, bulk material.

3.3 PLACEMENT/COMPACTION

- A. Consult manufacturer if installing on slope.
- B. Do not install in rainy conditions.

- C. Avoid installing StaLok® Paving Material below 30°F. StaLok® Paving Material may form clods during transport below 60°F. Large clods may be broken apart with machinery such as front loader, or on their own if left to warm in sun. Small clods will break apart during placement and compaction.
- D. Place StaLok® Paving Material at a minimum 2", maximum 3" compacted depth. Using a Paver Box, Paver, Crawler Paver, Asphalt Paver, Drag Box Paver, Pavement Profiler, Slip Form Paver, Pav-Saver Place Spreader or Equal.
 - 1. Crown StaLok® Paving Material. Slope material to edge ¼" per foot.
 - 2. Pockets of large aggregate may develop, inspect surface and evenly spread any 1/4" or 3/8" loose rock.
- E. Compact StaLok® Paving Material.
 - 1. Compaction can be achieved by a 5-ton double-drum roller
 - 2. Lightly compact making one pass.
 - 3. Make any grade adjustments and add needed material.
 - 4. Heavily compact material making 8 to 10 passes. Avoid turning on material with roller.
 - 5. Use plate compactor on edges and hard to get areas. If near wall, hand tamp may be necessary.
 - 6. Loose material shall not be present on final surface.
 - 7. No set up or curing time is needed.

3.4 INSPECTION

- A. Finished surface shall be uniform and solid, with no evidence of chipping or cracking. Compacted paving material shall be firm to full depth with no soft areas. Loose material shall not be present on the surface and no ruts shall be present. Compaction may increase with time and use.

3.5 MAINTENANCE

- A. Remove debris, such as paper, grass clippings, leaves or other organic material by mechanically blowing or hand raking the surface as needed. Any plowing program required during winter months shall involve the use of a rubber baffle on the plow blade or wheels on the plow that lifts the blade 1/4" off the paving surface.

3.6 REPAIRS

- A. Excavate damaged area to the depth of the StaLok® Paving Material and square-off sidewalls.
- B. If area is dry, moisten damaged portion lightly and scarify.
- C. Apply pre-blended StaLok® Paving Material to excavated area to finish grade.
- D. Compact with an 8" to 10" hand tamp or 1000 lb. Roller.

END OF SECTION 3