

Section 7000 Stalite Intensive Green Roof PLANTING MEDIA

PART 1 – GENERAL

1.0 SUMMARY

- A. Section Includes:
 - 1. Stalite Green Roof Planting Media
- B. Related Sections

1.01 REFERENCES

- A. ASTM – American Society for Testing and Materials
 - ASTM E2788-11, ASTM E2397-11, ASTM E2399-11
- B. FLL Guidelines for the Planning, Execution and Upkeep of Green-Roof Sites

1.02 SYSTEM DESCRIPTION

- A. **Stalite premixed Intensive Green Roof Media containing the components below:**

Estimated Weight at Max. water-holding capacity = 88 lbs. per cubic foot compacted.

60% Stalite G Expanded Slate: 15% USGA Root Zone Sand: 15% compost: 10% Pine bark fines

PART 2 – PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS AND SUPPLIERS

- A. Carolina Stalite Company, Chuck Friedrich, RLA, ASLA, GRP
PO Box 1037 Salisbury, NC 28145 (800) 898-3772

2.02 MATERIALS

- A. **Stalite G Fines from screening operation**

Sieve Size	% Retained
#4	20-27%
#8	47-65%
#16	64-78%
#30	75-85%
#50	82-90%
#100	87-95%
Fine Material	2.79-3.53 % passing #200

B. USGA Root Zone Sand

1. Grain Size Distribution (ASTM C136-95A)

Sieve Size	% Retained on Sieve
2.00 mm	<3%
1-2 mm	10% max
0.5 -1 mm	45% max
.25 -.5 mm	35% - 75%
.15 -.25 mm	15% max
.05 - .15 mm	5% max

C. Organic Component

1. Compost must be certified and derived from a non-sewage sludge feedstock source. The addition of yard waste to the composting process must also meet certification requirements.

2. Finished compost must be screened to minus 1/2", protected, and free from any outside contaminants during and after screening and curing.

3. Metals and contaminants must meet or exceed US EPA Standard 40

C. Pine bark fines minus 1/2" screen

2.03 Mixes

A. Stalite Intensive Green Roof Media

Stalite G Expanded Slate	60%
USGA Root Zone Sand	15%
Approved Compost	15%
Pine Bark Fines	10%

PART 3 - EXECUTION

3.01 MEDIA PLACEMENT

A. Placement For Planting Areas (non-paving areas)

1. Place Stalite Green Roof Media with approved equipment and protect all other materials from damage during installation.
2. Pre-settlement: Preset the media by thoroughly watering the entire planting area. For high traffic areas two passes with a vibratory plate compactor for every one foot lift will be satisfactory to stabilize the media.

3. Fill settled low areas with the media and repeat the compaction and filling process until settlement ceases.

3.02 PROTECTION OF SOIL MIXES

A. Contamination and Compaction

1. Do not deliver or place soils in frozen, wet, or muddy conditions. Material should be at or near optimum compaction moisture content as determined by AASHTO T 99 (ASTM D 698). Do not place materials in an excessively moist condition.
2. When stockpiled, protect soils media from absorbing excess water and from erosion at all times. Do not store materials unprotected from large rainfall events. Do not allow excess water to enter site prior to compaction. If water is introduced into the material after stockpiling, allow material to drain or aerate to optimum compaction moisture content.
3. In handling materials, operating tools and equipment, protect the media from compaction by laying down planking or plywood as required for protection.
4. Pressure wash equipment prior to handling media to prevent weed seed contamination.

END OF SECTION