

GUIDE SPECIFICATION FOR PERMANENT SLOPE SEEDING

Section 02936

PERMANENT SLOPE SEEDING

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies a seed mix applied to sloped area requiring sustained vegetation.

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials, and application rate.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from weather damage, excessive temperatures, and construction operations.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. PENNINGTON SEED INC. SEED PRODUCTION – 1280 ATLANTA HWY – MADISON, GA 30650, 800-286-6100 (Fax706-342-8071)

2.02 MATERIALS

- A. Mixed sustainable slope seed: Slopemaster by Pennington Seed, Inc with the following characteristics.
 1. Material: Permanent and temporary seed varieties.
 2. Minimum: 5% Durana White Clover.
 3. Inert Material: Less than 1%.
 4. Other Crop Seed: Less than .5%.
 5. Weed Seed: Less than 1%.
 6. Coating: Inoculated with Germax Seed Treatment (Rhizokote XL and Apron XL) and MYCO Advantage coated.
 7. Packaging: 25lb Seatac bags.

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- B. Lime: Agricultural or Pelletized Lime applied at specified rate according to soil analysis or 2000lbs per acre (46lbs/1000 square feet) if no soil analysis is performed.
- C. Fertilizer: Fertilizer should be applied at specified rate according to soil analysis or Commercial Grade 19-19-19 applied at 250lbs per acre (5.8lbs/1000 square feet) if no soil analysis is performed.
- D. Liquid or Dye Lime: Liquid lime applied at a rate of 2.5 gallons per acre or Neutra Lime Dry applied at a rate of 80lbs per acre in areas of acidic soils to assure germination and initial establishment.

PART 3 EXECUTION

3.01 SUBSTRATE PREPARATION

- A. Examine substrates and conditions where material will be applied. Do not proceed with installation until unsatisfactory conditions are corrected, only apply product to geotechnically stable slopes that have been designed and built to divert the water shed away from the face of the slope, therefore eliminating surface flow energy from above from damaging the face slope.
- B. All slope gradients should be prepared to agricultural standard recommended by the Department of Agricultural within the state where the work is being performed. Agricultural Lime or pelletized lime should be added during the slope preparation stage at the rate recommended according to soil analysis. Apply agricultural lime or pellet lime at a rate of 2000lbs per acre if no soil analysis has been performed.
- C. Examine related work including irrigation and grading of surface before proceeding with any work and notify the Engineer in writing on conditions which may prevent the proper execution of this work. All grading or tracking on slopes should be performed so that all cleats are running perpendicular to the flow of water down the hill.

3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations.
- B. Equipment used to spread seed should have sufficient capacity to hold and agitate seed evenly in a cyclone or drop pattern.
- B. Apply warm season Slopemaster seed mixture at a minimum of 50lbs per acre (1.15lbs/1000 square feet) or apply the cool season Slopemaster seed mixture at a minimum of 100lbs per acre (2.25lbs/1000 square feet). The warm season Slopemaster seed mixture should be applied during the late spring and summer months and the cool season Slopemaster seed mixture should be applied during the late fall and early spring months.
- C. Liquid Lime or Neutra Lime Dry should be topically applied to areas with acidic soils to assist the seed germination and vegetation growth during

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the first 90 days. Liquid Lime should be applied at a rate of 2.5 gallons per acre or Neutra Lime Dry at a rate of 80lbs per acre.

- D. Specified fertilizer or commercial grade 19-19-19 fertilizer should be spread evenly over the seeded areas at a rate of 250lbs per acre (5.8lbs/1000 square feet).
- C. Seed and other amendments should be settled into seed bed by a method of cultipacking or covered with soil at a depth no deeper than 1/8 inch.
- D. A Rolled Erosion Control or Hydraulically applied erosion control product can be applied over the top of seed to help prevent seed from washing and reinforce vegetation through establishment. (Follow product manufacturer recommendations.)

3.03 MAINTENANCE

- A. Frequent light irrigation will need to be applied to seeded areas if no natural rain events have occurred within 2 weeks of seeding. After seed germination has occurred and plants are visible the frequency of irrigation should be cut back with heavier application rates.
- B. Repair all seed washings and erosion.
- C. Future fertilization should occur whenever applicable at the recommended rate based on soil analysis with a low Nitrogen fertilizer.

3.04 CLEANING AND PROTECTION

- A. Wash hands after seeding to remove all seed treatment or chemical residue that could be remaining.
- B. Advise owner or engineer of methods for protection of seeded areas.

END OF SECTION

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