

SECTION 02371

EROSION CONTROL BLANKET-FUTERRA ENVIRONET

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies the use of a RECP rolled erosion control product for soil erosion and [seed establishment.]
- B. Related Sections: Other Specification Sections which directly relate to the work of this Section include, but are not limited to, the following:
  - 1. Section 01570 - Temporary Erosion and Sediment Control.
  - 2. Section 02300 - Earthwork; establishment of subgrade
  - 3. Section 02370 - Erosion and Sedimentation Control.
  - 4. Section 02920 - Lawns and Grasses.

1.02 SUBMITTALS

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

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 damage from weather, excessive temperatures, and construction operations.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. PROFILE Products LLC, 750 Lake Cook Road – Suite 440, Buffalo Grove, IL 60089, 800-654-8793 (Fax 847-215-0577)

2.02 MATERIALS

- A. RECP: PROFILE Futerra by PROFILE Products LLC with the following characteristics:
  - 1. Materials: Wood fiber, polypropylene fibers, rectangular netting, with marker dye or natural in color
  - 2. Wood fiber: 92% percent minimum
  - 3. Moisture Content: 12+-3% percent maximum.
  - 4. Organic Content: 92 percent minimum.
  - 5. Polypropylene Fibers: 8% maximum.
  - 6. Netting: Rectangular Photodegradable polypropylene netting fully degrades within 120 days of installation.
  - 7. "C" Factor 3:1 Slope: .012
  - 8. "C" Factor 2:1 Slope: .016
  - 9. "C" Factor 1:1 Slope: .0253
  - 10. Thickness: 3.9 mm
  - 11. Resiliency: 46 percent
  - 12. Mass Per Unit Area: 8.67 oz per square yard
  - 13. Water Absorption: 814 percent.

## GUIDE SPECIFICATION FOR PROFILE FUTERRA

14. Ash Content: .75 percent
15. Organic Content: 99.2 percent
16. Swell: 10 percent
17. Stiffness/Flexibility: .7466 oz-in (8,345 mg-cm)
18. Light Penetration: 59 percent
19. Tensile Strength: Machine Direction 47.7 pounds per foot, Transverse Direction 53.7 pounds per foot
20. Patents: 5,330,828
21. Packaging: 40" x 135', 50 square yard roll, weight 19 pounds, 82" x 135', 102.5 square yard roll, weight 39 pounds.

### PART 3 EXECUTION

#### 3.01 SUBSTRATE PREPARATION

- A. Examine substrates and conditions where materials 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 slope face.

#### 3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations. Do not exceed maximum slope length of 100 feet when slope gradients are steeper than 4 to 1. Install materials in the following manner; in all applications install Futerra with net up.
  1. Slope Installation: Dig a 6 inch by 6 inch anchoring trench one foot above the crown of the slope. Unroll approximately 2 feet of Futerra Environet, doubling over the blanket and place in anchor trench. Staple every linear foot and cover trench with soil. Begin unrolling Futerra down the slope, guide product over surface, and never let the roll free fall down the slope. Evenly apply staples to the leading edge every two to five feet depending upon wind conditions. To insure maximum soil to mat bonding, do not stretch Futerra over the soil surface. When installing 6.83' x 135' wide rolls, it may be necessary to staple center of roll every five to 10 feet depending upon wind conditions. Repeat anchor trench procedure above, butt-seam side by side rolls. Repeat same stapling frequency as leading edge, stapling every two to 5 feet, securing both rolls with a common staple. You may also overlap the rolls by 2 inches, in a shingle style. Each roll should overlap in the down stream direction of the slope, protecting against seam failure due to excessive water flow. Secure the bottom of each roll with one staple per linear foot.
  2. Minimize foot traffic: during installation, extensive foot traffic on the mat may create small tears and holes. While this will not significantly affect performance, we recommend that foot traffic be kept to a minimum until the blanket becomes wet.

#### 3.03 CLEANING AND PROTECTION

- A. Clean spills promptly. Advise Owner of methods for protection of sprayed areas.

### END OF SECTION

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