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Wholesale Distribution

CONSTRUCTION FABRICS, LINERS, & ENVIRONMENTAL PRODUCTS

ECSC-3™ Straw/Coconut Turf Reinforcement Mat

Description:

The ECSC-3™ is made with uniformly distributed 70% agricultural straw, 30% coconut fiber and three polypropylene nets securely sewn together with UV stabilized thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation. The ECSC-3™ is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels.

| Matrix: | 1 | 2 |
|---------|-----------|-------------|
| | 70% Straw | 30% Coconut |

| Netting: | Type | Net Color |
|----------|---|-----------|
| Top: | Medium weight 5# PMSF UV Stabilized Polypropylene | Black |
| Middle: | Heavyweight 24# PMSF UV Stabilized Polypropylene | |
| Bottom: | Medium weight 5# PMSF UV Stabilized Polypropylene | |

| Net Opening: | Top | Middle | Bottom |
|--------------|-------------|-------------|-------------|
| | 0.5" x 0.5" | 0.4" x 0.5" | 0.5" x 0.5" |

| Thread: | Type | Color |
|---------|----------------------|-------|
| | UV Stabilized Thread | Black |

| Roll Sizes: | Standard | | "A" Size | | Mega | |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Width: | 8 ft | 2.4 m | 4 ft | 1.2 m | 16 ft | 4.9 m |
| Length: | 112.5 ft | 34.3 m | 225 ft | 68.6 m | 112.5 ft | 34.3 m |
| Weight:* | 92 lbs | 41.7 kg | 92 lbs | 41.7 kg | 184 lbs | 83.5 kg |
| Area: | 100 yd ² | 83.6 m ² | 100 yd ² | 83.6 m ² | 200 yd ² | 167.2 m ² |
| #/Pallet: | 9 | | 4 | | 9 | |

*Weight at time of manufacturing within specified tolerances.

Index Value Properties*:

| Property | Test Method | Typical | |
|----------------------------|-------------|--------------------------|------------------------|
| Mass/Unit Area | ASTM D6566 | 14.00 oz/yd ² | 474.7 g/m ² |
| Thickness | ASTM D6525 | 0.39 in | 9.91 mm |
| Tensile Strength-MD | ASTM D6818 | 728 lb/ft | 10.62 kN/m |
| Elongation-MD | ASTM D6818 | 21 % | |
| Tensile Strength-TD | ASTM D6818 | 632 lb/ft | 9.22 kN/m |
| Elongation-TD | ASTM D6818 | 20.8 % | |
| Light Penetration | ASTM D6567 | 7 % | |
| Density / Specific Gravity | ASTM D792 | 0.919 g/cm ³ | |
| Water Absorption | ASTM D1117 | 259 % | |
| Resiliency | ASTM D6524 | N/A % | |
| UV Resistance | ASTM D4355 | 80 % | 500 hours |

*May differ depending upon raw material variations

Slope Performance Design Values*:

| Property | Test Method | Value | |
|-------------------------|--------------|----------------|--------------|
| C-Factors | ASTM D6459 | 0.01 | |
| Slope Length (L) | ≤ 3:1 | 3:1-2:1 | ≥ 2:1 |
| < 50 ft (15 m) | 0.006 | 0.012 | 0.072 |
| 50 ft – 100 ft | 0.026 | 0.042 | 0.086 |
| >100 ft (30 m) | 0.062 | 0.082 | 0.132 |

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

Bench-Scale Testing* (NTPPEP***):

| Test Method | Parameters | Results |
|--------------------------------|-------------------------------------|-------------------------|
| | 50mm (2in) / hr-30 min | SLR**=18.16 |
| ECTC Method 2 Rainfall | 100mm (4in) / hr-30 min | SLR**=17.83 |
| | 150mm (6in) / hr-30 min | SLR**=17.50 |
| ECTC Method 3 Shear Resistance | Shear at .50 in soil loss | 3.40 lb/ft ² |
| ECTC Method 4 Germination | Top soil; Fescue; 21 day incubation | 497 % |

*Bench scale tests should not be used for design purposes.

**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor

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Channel Performance Design Values*:

| Property | Test Method | Value | |
|--|-------------|--------------------------|-----------|
| Unvegetated Shear Stress | ASTM D 6460 | 3.00 lbs/ft ² | 143.64 Pa |
| Unvegetated Velocity | ASTM D 6460 | 11.0 ft/s | 3.35 m/s |
| Vegetated Shear Stress | ASTM D 6460 | 10.0 lbs/ft ² | 478.80 Pa |
| Vegetated Velocity | ASTM D 6460 | 20.0 ft/s | 6.10 m/s |
| Manning's N (Value Represents a Range) | | 0.024 | |

*Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory



The values presented are for guidance purposes and do not constitute the practice of engineering. East Coast Erosion Blankets LLC (ECEB) ascertains that at the time of manufacture, all information presented herein is accurate and reliable and falls within the ECEB manufacturing product specification variances. If the product does not meet the stated values and ECEB is notified in writing prior to installation, the product will be replaced at no cost to the purchaser. ECEB will not be held liable for any type of damage or losses, directly or indirectly for failure of this product. Current revision supersedes all previous versions for this product.