

Material and Performance Specification Sheet

ECX-2 Double Net Excelsior Rolled Erosion Control Product

Description: The ECX-2 is made with uniformly distributed 100% Aspen wood excelsior and two polypropylene nets securely sewn together with degradable thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation.

The ECX-2 has functional longevity of approximately 24 months, but will vary depending on soil and climatic conditions and is suitable for slopes 2:1 to 1.5:1. The ECX-2 meets Type 3.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17.

| | | | |
|-------------------|---|---|---|
| Materials: | Netting – Top and Bottom Lightweight Photodegradable Polypropylene .5" x .5" Opening | Matrix 100% Aspen Excelsior 0.69 lbs/sq yd 373 g/m ² | Thread Degradable 1.50" stitch spacing |
|-------------------|---|---|---|

| | | | |
|--------------------|---|---|---|
| Roll Sizes: | A | Standards | Mega |
| Width: | 3.75 ft (1.15 m) | 7.5 ft (2.3 m) | 15.0 ft (4.6 m) |
| Length: | 192.0 ft (58.5 m) | 96.0 ft (29.3 m) | 96.0 ft (29.3 m) |
| Weight ±10%: | 55.0 lbs (24.9 kg) | 55.0 lbs (24.9 kg) | 110.0 lbs (49.9 kg) |
| Area: | 80 yd ² (66.9 m ²) | 80 yd ² (66.9 m ²) | 160 yd ² (133.8 m ²) |
| #/Pallet: | 21 | 20 | 25 |

Also available in 120 ft

Index Value Properties*:

| Property | Test Method | Typical |
|---------------------|-----------------|---|
| Mass/Unit Area | ASTM D6475 | 11 oz/yd ² (373 g/m ²) |
| Thickness | ASTM D5199 | .31 In (7.9 mm) |
| Tensile Strength-MD | ASTM D5035 | 122 lb/ft (1.8 Kn/m) |
| Elongation-MD | ASTM D5035 | 23 % |
| Tensile Strength-TD | ASTM D5035 | 67 lb/ft (1.0 Kn/m) |
| Elongation-TD | ASTM D5035 | 26 % |
| Light Penetration | ECTC Guidelines | 36 % |
| Water Absorption | ASTM D1117 | 236 % |

* May differ depending upon raw material variations

Bench-Scale Testing* (NTPEP):

| Test Method | Parameters | Results |
|-----------------------------------|--|---------------------|
| ECTC Method 2 Rainfall | 50mm (2in) / hr-30 min | SLR**=3.53 |
| | 100mm (4in) / hr-30 min | SLR**=5.21 |
| | 150mm (6in) / hr-30 min | SLR**=7.71 |
| ECTC Method 3 Shear Resistance | Shear at .50 in soil loss | 1.93 lb/ft |
| ECTC Method 4 Germination | Top soil; Fescue; 21 day incubation | 463% improvement |

*Bench scale tests should not be used for design purposes.
**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor (soil loss is based on regression analysis).

Design Values*:

| Property | Test Method | Value |
|----------------------------------|-------------|----------------------------|
| Manning's N | Calculated | .026 |
| RUSLE C-Factor | ASTM D6459 | .035 |
| Maximum Permissible Sheer Stress | ASTM D6460 | 2.13 psf (102 Pa) |
| Maximum Flow Velocity | ASTM D6460 | 10.7 ft/sec (3.3 m/sec) |

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