American Excelsior Company®
Earth Science Division

Proud Participant in NTPEP and Proud Member of:

# PRODUCT DATA SHEET
# CURLEX® ENFORCER®

## DESCRIPTION

Curlex Enforcer a biocomposite Turf Reinforcement Mat (TRM) that consists of a specific cut of naturally seed free Great Lakes Aspen curled wood excelsior. It is of consistent thickness with fibers evenly distributed throughout the entire area of the blanket. The top and bottom of each blanket is covered with extra heavy duty black net. Curlex Enforcer is also available as QuickGRASS® (green pigment). Curlex Enforcer shall be manufactured in the U.S.A.

Curlex Enforcer has a design soil loss ratio (event-based RUSLE C factor) of .022 and is typically suitable for slopes up to .5H:1V. Curlex Enforcer is rated for channel flows up to 11 ft/s (3.4 m/s); 3.25 lb/ft$^2$ (156 Pa) shear stress unvegetated or 17 ft/s (5.2 m/s); 10.0 lb/ft$^2$ (480 Pa) shear stress vegetated.

## PHYSICAL PROPERTIES

Curlex Enforcer measurements at time of manufacturing:

| | |
|---|---|
| **Width** | 8.0 ft (2.4 m) |
| **Length** | 67.5 ft (20.6 m) |
| **Area** | 60.0 yd$^2$ (50.2 m$^2$) |
| **Mass per Unit Area[a] (± 10%)** | 1.25 lb/yd$^2$ (0.68 kg/m$^2$) |
| **Net Openings** | 0.75 in x 1.0 in (19.1 mm x 25.4 mm) |

## TYPICAL INDEX VALUES

| Index Property | Test Method | Value |
|---|---|---|
| Thickness | ASTM D 6525 | 0.393 in (9.98 mm) |
| Light Penetration | ASTM D 6567 | 9.3% |
| Resiliency | ASTM D 1777/ECTC | 55% |
| Mass per Unit Area | ASTM D 6475 | 1.029 lb/yd$^2$ (0.558 kg/m$^2$) |
| MD-Tensile Strength Max. | ASTM D 6818 | 499.2 lb/ft (7.29 kN/m) |
| TD-Tensile Strength Max. | ASTM D 6818 | 512.4 lb/ft (7.48 kN/m) |
| MD-Elongation | ASTM D 6818 | 24.9% |
| TD-Elongation | ASTM D 6818 | 30.5% |
| Swell | ECTC Procedure | 33% |
| Water Absorption | ASTM D 1117/ECTC | 241% |
| UV Stability | ASTM D 4355 (1,000 hr) | 90% minimum |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 24.66 @ 2 in/hr [b,c] |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 31.43 @ 4 in/hr [b,c] |
| Bench-Scale Rain Splash | ASTM D 7101 | SLR = 41.34 @ 6 in/hr [b,c] |
| Bench-Scale Shear | ASTM D 7207 | 3.56 lb/ft$^2$ @ 0.5 in soil loss [c] |
| Germination Improvement | ASTM D 7322 | Pass |

[a] Weight is based on a dry fiber weight basis at time of manufacture. Baseline moisture content of Great Lakes Aspen excelsior is 22%.

[b] SLR is the Soil Loss Ratio, as reported by NTPEP/AASHTO. [c] Bench-scale index values should not be used for design purposes.

MADE IN THE U.S.A

850 Avenue H E | Arlington, Texas 76011
Phone 1-800-777-SOIL | Fax 817-385-3585 | www.Curlex.com