



Enkamat 7020

Turf Reinforcement Mat

Description

Enkamat® 7020 is a three-dimensional turf reinforcement mat (TRM) made of continuous monofilaments fused at their intersections. Ninety-five (95%) percent of the Enkamat is open and available for soil, mulch and root interaction, creating one of the most effective turf reinforcement mats available. Enkamat is manufactured from nylon to eliminate the buoyancy factor associated with submerged conditions and provides permanent TRM protection in vegetated channels and slopes.

Recommended Applications

- Permanent erosion control for vegetated channels and banks with expected shear stresses ≤ 16 psf.
- Permanent erosion control for moderate to steep slopes ($\leq 0.5H:1V$).
- Support and enhance performance of ecosystem plants.
- Substrate for hydraulically applied Flexible Growth Medium™ (FGM) and Bonded Fiber Matrix (BFM) to create the GreenArmor™ System.

Technical Data

| Mechanical Properties | Test Method | Units | Roll Value | |
|-----------------------|-------------|--|-----------------|------------|
| | | | Typical | MARV |
| Tensile Strength | ASTM D6818 | kN/m (lbs/ft) | 3.5 (240) | 2.6 (175) |
| Thickness | ASTM D6525 | mm (in) | 19 (0.75) | 15.2 (0.6) |
| Mass/Unit Area | ASTM D6566 | g/m ² (oz/yd ²) | 407 (12.0) | 373 (11.0) |
| UV Stability | ASTM D4355 | % | 80 @ 2000 hours | |
| Resiliency | ASTM D6524 | % | 80 | |

| Performance Properties | Test Method | Units | Typical Roll Value |
|---------------------------------|---------------------------|--|--------------------|
| Permissible Velocity | | | |
| Unvegetated | Flume test ^{1,2} | m/s (ft/s) | 4.9 (14.0) |
| Vegetated | Flume test ^{1,2} | m/s (ft/s) | 6.1 (16.0) |
| Permissible Shear Stress | | | |
| Unvegetated | Flume test ^{1,2} | kN/m ² (lbs/ft ²) | 0.26 (5.5) |
| Vegetated | Flume test ^{1,2} | kN/m ² (lbs/ft ²) | 0.77 (16.0) |
| Manning's n Range ³ | Flume test ¹ | () | 0.025 — 0.045 |

1. Flume test performed at independent large scale laboratory — data and details available upon request. 2. Testing performed on GreenArmor™ System 3. Depending on vegetation type and height, use engineering field experience and examine a range of Manning's n values during design.

Packaging Data

| Physical Properties | Units | Nominal Value |
|-----------------------------|-----------------------------------|--------------------------|
| Dimensions [width x length] | m (ft) | 2.4 x 34.3 (8.0 x 112.5) |
| Roll Area | m ² (yd ²) | 83.6 (100) |
| Estimated Roll Diameter | cm (in) | 0.6 (24) |
| Estimated Roll Weight | kg (lb) | 34 (75) |
| Color | Observed | Black |

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