

Top 10 Reasons to Choose Enkamat® R45 and Anchor Armor™ ARVS for Your Levee Armoring Projects

Introduced in the late 1970s, Enkamat® is *the original* turf reinforcement mat. Today, it remains an industry leading technology. Enkamat's lofty, porous, three-dimensional matrix promotes rapid vegetation establishment and optimizes root entanglement for long-term turf reinforcement. Now, Profile Products LLC and Colbond Geosynthetics have taken turf reinforcement to new levels.

Enkamat R45 – the most complete turf reinforcement mat ever!

Enkamat R45 is constructed using a breakthrough manufacturing process that integrates a high tenacity polyester geogrid within thermally fused and entangled, three-dimensional nylon monofilaments to create a homogeneous, high performance turf reinforcement mat (HP-TRM). The high strength, high modulus geogrid acts as an additional tensile element to provide maximum soil and root reinforcement at low elongations.

Anchor Armor™ Anchor Reinforced Vegetation System (ARVS) utilizes Enkamat R45 reinforced with Percussive Driven Earth Anchors (PDEAs) to provide permanent anchorage and maximum stability.

GreenArmor™ System, the most effective vegetated stabilization system, enhances the strength and stability of Enkamat R45 with the ultimate vegetation establishment matrix – Flexterra HP-TRM without the need for soil infill.

Enkamat R45 based Anchor Armor™ ARVS provides unique properties for demanding applications such as;

- levee armoring
- shoreline protection
- channel stabilization



Turn over to see the top 10 reasons Enkamat R45 based Anchor Armor is the right choice.



**GREEN DESIGN
ENGINEERING™**
EARTH-FRIENDLY SOLUTIONS
FOR SUSTAINABLE RESULTS™

Green Design Engineering™ brings together integrated engineering designs, incorporating environmentally sustainable products with agronomic and erosion control expertise, to create and implement the most comprehensive, customized solutions for your environment

Top 10 Reasons to Choose Enkamat® R45 and Anchor Armor™ ARVS for Your Levee Armoring Projects

1. Far exceeds USACE requirements for levee anchoring ARVS hydraulic performance. Resists shear stresses of up to 20 lb/ft² and velocities of 30 ft/sec
2. Exceeds USACE, US EPA and FHWA HP-TRM material specification requirements
3. Grows denser grass with greater root mass, twice as fast as other TRMs as confirmed by ASTM testing.
4. Homogeneous structure has no stitching with loose threads, fibers or nets to endanger wildlife or become entangled in equipment
5. Enhanced stability and plant entanglement due to a lofty matrix that is nearly twice as thick as and more resilient than other TRMs
 - Open matrix generates a frictional interlock with the soil that enables vegetation to withstand light traffic with decreased risk of sliding – even on slopes approaching 3H:1V
6. Will not stretch or rut during maintenance operations and it resists feral hog and other animal burrowing due to high tensile strength with low strain or elongation
7. Will NOT float, versus buoyant polypropylene products
8. Enkamat TRMs are the most tested and widely used TRMs with a growing list of successful installations and applications.
9. Eight foot wide rolls are easy to handle, cut and install – readily accepting anchors and soil/hydraulic infill materials with no compromise in thickness during shipment and installation.
10. Supported by Profile Products. Our commitment to **Solutions for your Environment** involves consultation and support for your comprehensive project needs – from inception to finish. We offer resources to insure proper soil testing and site analysis, to systematic design and product selection considerations, to on-site installation assistance and follow up to insure long term sustainability. Profile is your partner; **in the ground, on the ground and by your side.**

Anchor Armor ARVS with Bermuda grass



Extensive root development and presence of nearly 3" of plant tissue



Washed specimens showing relative root development



www.profileproducts.com

For technical information or distribution, please call 800-508-8681

For customer service, call 800-366-1180

750 Lake Cook Road • Suite 440 • Buffalo Grove, IL 60089

© 2012 PROFILE Products LLC. All rights reserved.

Profile is a registered trademark of PROFILE Products LLC.

Green Design Engineering, Earth-Friendly Solutions for Sustainable Results, and GreenArmor are trademarks of PROFILE Products LLC.

Enkamat is a registered trademark of Colbond Inc.