

Vmax C350 Specification



Permanent Turf Reinforcement Mat

Vmax C350 is composed of a permanent, high-strength, three-dimensional matting structure, incorporated with a 100% coconut-fiber matrix that supplements the permanent matting structure's grass germination and erosion control capabilities for up to 36 months.

C350 is designed to provide long-term, vegetated erosion protection and permanent turf reinforcement in a range of applications that include critical-flow channels, spillways, stream banks, and shorelines.

Proven in extensive laboratory and field research, as well as thousands of applications all around the world, C350's high-strength, 3-D matting structure boosts the shear resistance of vegetation up to 576 Pascal. With permanent erosion protection equivalent to that of 0.76 m rock riprap, C350 provides a cost-effective, environmentally friendly, "green" solution to erosion control projects for severe conditions.

Vmax C350 Performance Profile

Phase 1 (unvegetated)



Unprotected seed and soil are highly susceptible to erosion. Upon installation, the C350's coconut fiber matrix and corrugated matting structure provide a uniform mulch layer and effective erosion protection for seed and soil under flow-induced shear stresses up to 153 Pascal and a permissible flow velocity of up to 3m/s from day one after installation.

Phase 2
(vegetation establishment)



The tender stems and undeveloped root systems of immature vegetation provide little protection for the soil surface and are prone to damage or removal at shear stresses of only 29 Pascal. The C350 continues providing erosion protection between, and structural support for, developing plants – increasing the permissible shear stress of new vegetation up to 480 Pascal.

Phase 3
(vegetation maturity)



Under flow-induced shear stress of only 48 Pascal, un-reinforced mature vegetation may allow significant soil loss and experience physical damage. The C350's corrugated matting structure reinforces soils and anchors vegetation roots and stems – increasing the permissible shear stress of the permanent vegetative stand up to 576 Pascal or up to 6m/s flow velocity.



Physical Specification

Top & Bottom Net
Polypropylene
3.91 kg/100 m2 approx. wt.

Center Net
Polypropylene, corrugated
11.7 kg/100 m2 approx. wt.

Coconut Fiber
0.27 kg/m2

Thread
Permanent

STANDARD ROLL SPECIFICATIONS

Width: 2 m
Length: 20m
Area: 40 m2
Approx. Roll Weight: 20 kg

All performance testing has been undertaken by an independent research facility. A performance failure is deemed to be if any vegetation is damaged or stripped out or any physical damage to the matting or if more than 1.27cm of soil is lost anywhere in the test plot.

CONTACT DETAILS

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