TRM

TRM C350 / TRM SC350 TECHNICAL SPECIFICATIONS

Matrix	:	Coir Fibre (C350) / Coir Fibre + Paddy Straw (SC350)
Content	:	100% (C350) / 70% + 30% (SC350)
Roll Width	:	2.4m
Roll Length	:	21m
Area	:	50m²
Roll Weight	:	17.5kg ± 10%
Weight / Sq.m	:	0.35kg ± 10%
Functional Longevity	:	Approx. 36 months
Applications	:	1:1 & Greater Slopes. High-flow Channels Landfill Side Slope, Shoreline Protection
Permissible Shear Resistance	:	48kg/m²
Flow Velocity	:	3.8m/s (estimated)
"n" Value Roughness Coefficient	:	0.018 (estimated)
Water Absorption	:	25.0% (estimated)
Swell	:	233.0% (estimated)
Stitching	:	50mm center
Thread Type	:	Monofilament Polypropylene Yarn
Packaging	:	Poly Tubing

Netting	**Top**	**Center**	**Bottom**
Material	Black PP	Black PP Corrugated	Black PP
Weight	3.9kg/100m²	11.7kg/100m²	3.9kg/100m²

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BUATAN MALAYSIA

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EROSION CONTROL | GEOSYNTHETIC

TRM

Composite Turf Reinforcement Matrix

TRM

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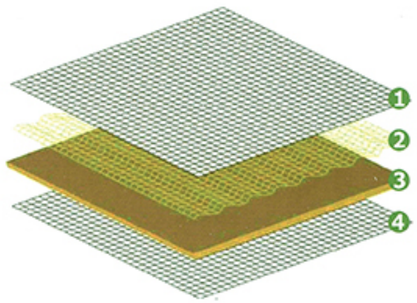
TRM C350 – TURF REINFORCEMENT MATRIX

Comprised of a permanent super high strength three dimensional matting structure incorporated with 100% coconut fibre matrix, the design provide both long term, prevegetated erosion protection and permanent turf reinforcement in a wide variety of applications.

The 100% coconut fibre matrix supplements the permanent matting's initial mulching and erosion control performance for up to 36 months. Estimated, under shear stress up to 16kg/m (154 Pa), unvegetated **TRM C350** reduces soil loss to less than 0.6in (15.2mm). The permanent 3-D structure with its super high strength can increase the shear resistance of vegetation up to intimately 59kg/m (577 Pa). The **TRM C350** offer permanent erosion protection equivalents that can able to reach intimately 30in (0.77m) rock riprap, thus, providing a cost effective solution. It is certainly an environmental friendly "green" alternative for severe erosion control projects.

PERMANENT TURF REINFORCEMENT MATRIX

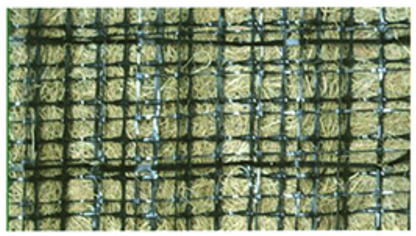


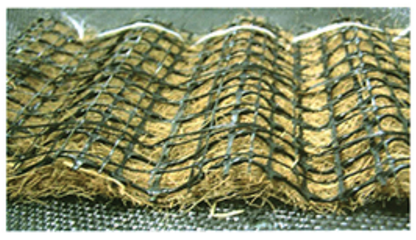
1. **Top Net** : Extra heavyweight UV stabilized polypropylene 8.5lbs/1000sq.ft (4.2kg/100sq.m)
2. **Middle Net** : Extra heavyweight UV stabilized polypropylene, crimped 20 lbs/1000sq.ft (9.8kg/100sq.m)
3. **Coconut Fibre** : 0.5lbs/sq.yd (0.27kg/sq.m)
4. **Bottom Net** : Extra heavyweight UV stabilized polypropylene 8.5lbs/1000sq.ft (4.2kg/100sq.m) approximate weight

TRM SC350 – TURF REINFORCEMENT MATRIX

Comprised of a permanent super high strength three dimensional matting structures incorporated with straw/coconut fibre matrix. The design provides both extended term, prevegetate erosion protection and permanent turf reinforcement in a wide variety of applications.

The straw/coconut fibre matrix enhances the permanent matting's initial mulching and erosion control performance for up to 24 months. The unvegetated **TRM SC350** reduces soil loss to less than 0.6in (15.2mm) under shear stress up to 15kg/m (145 Pa). With the use of the permanent matting's of high strength 3-D structure, the shear resistance of vegetation is increased up to intimately 49kg/m (480 Pa) which is 8 times that of comparable unreinforced vegetation. The **TRM SC350** enables the vegetation to be used in many applications and exceed intimately 25in (0.63m) rock riprap.





ADVANTAGES OF USING TRM

- Easier to install than rock or concrete and no heavy equipment required
- Functioning as a natural filter for runoff water by allowing infiltration, entrapping sediments and absorbing harmful pollutants
- Need little maintenance other the periodic mowing. Rock riprap collects trash, supports weed growth and requires special attention when mowed around
- Provide a flexible lining that won't crack and deteriorate like concrete
- Creating a more natural, aesthetically pleasing and ecologically functional "green" landscape. Rock eventually harbor undesirable wildlife

GENERAL INSTALLATION METHOD

The proper installation of erosion control blankets and turf reinforcement mats are outlined in detail here:

- Prepare the seed bed by raking, seeding and fertilizing
- Apply trenching and anchoring procedures to secure any exposed material ends
- Ensure the material is in solid contact very closely to the ground
- Use the required number of staples
- Overlap the blankets as a way to function together
- Application at slope and channel, overlap material in the direction of the water flow

SLOPES INSTALLATION

On short banks, the blanket may be rolled out horizontally or vertically, whichever it is more convenient. However, on long and steep banks, it is recommended that the blanket be rolled down slope vertically to prevent sloughing.

The stapling pattern, fastening blanket with the appropriate-sized staples and staple size is varies following the gradient and height of slope.

DRAINAGE CHANNELS

Roll the blanket out along the channel bottom and side slopes in the direction of the water flow. Adjacent banks should be closely butted or slightly overlapped so that one row of staples will be fastened both edges along the seam.
A row of staples should be centered down the blanket in between the staples at the blanket's edge. When coming to the end of the roll, overlap the beginning of the following roll by at least five inches.

SHORELINES

Always install blanket above the highest normal splash zone on stream. The edge of the blankets at or below normal water level must be anchored by placing the blanket in 12" (30cm) deep by 6" (15cm) wide anchor trench.
Anchor the blanket with a row of staples/stakes spaced approximately 12" (30cm) apart in the trench. Backfill and compact the trench after stapling (stone or soil is used as backfill).

DOT SYSTEM

FIBROMAT's unique DOT System depicts blanket installation. The exact location for proper stapling of each product is marked by colour-coded dots. The following are the several benefits attained from these important features:-

- Fast installation
- Simple and easy to understand
- Simplifies inspection
- Minimize installation costs
- Assures proper staple usage

STAPLE PATTERNS

The proper staple patterns must be applied to achieve optimum results in erosion control blanket and turf reinforcement mat products installation. FIBROMAT recommend staple patterns and corresponding dot colours as per illustrated in the drawings below:-