

# TERRAMAT™ EM430 EROSION MAT

## LONG TERM HDPE EROSION CONTROL & ROOT REINFORCEMENT MAT

**EM430** Erosion mat is a three dimensional multi-layered product manufactured by a unique process from Polyethylene (HDPE) consisting of three high tensile base layers of net bonded to two upper layers that form a cusped surface that provides an array of pockets that trap soil particles and windblown seeds.

**EM430** is designed to be a highly effective soil erosion protection system for non-vegetated soil slopes to promote the establishment of grasses and vegetation and giving instant protection against soil erosion caused by wind, rain and flash flooding.

**EM430** is typically a long term erosion / re-vegetation / root reinforcement blanket system. As the erosion mat is not exposed when the vegetation is established it is protected from UV light. Being made from Polyethylene is inert to all forms of chemical and biological attack and does not affect the natural environment. The functional longevity of the installed system may vary depending upon climatic conditions, soil type and geographic location.

### FEATURES & BENEFITS

- A regular pattern of open pockets where soil, seed and moisture is retained to promote strong plant growth.
- Its' open structure / pockets permits easy filling with topsoil.
- Seed loss due to water flushing is greatly reduced.
- Its' soft flexible polymer readily drapes to follow and hug the ground contour.
- Has a high tensile strength in both the MD and TD directions.
- Readily accepts and holds hydro seeding.
- Cost effective
- Supplied in easily manhandled rolls.
- Protection blanket for moderate flow channels and slopes having a maximum gradient of up to 1:1.

### APPLICATIONS

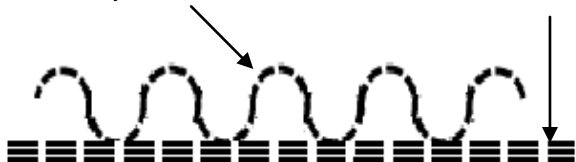
- Roadside slopes
- Embankments
- Landfill side slopes.
- Rivers banks
- Lakes and Shorelines
- Channels
- Spillways
- Canals and Ditches
- Golf Courses
- Residential Lawn Areas

PRODUCT PROPERTIES		ROLL PROPERTIES	
Material	UV Stabilized Polyethylene : 2% carbon black	Roll Length	>30m
Tensile strength	MD >3.2 N/m : TD >3.2 N/m	Roll Width	1.5m and 2.0m
Elongation	MD <30% : TD <30%	Roll Area (nom)	>45m <sup>2</sup>
Thickness / Loft	18mm	Roll Weight	>19.35kg
Weight	>430gm / m <sup>2</sup>	Packaging	Woven polymer wrap

Note : MD = Machine / Roll Direction : TD = Transverse / Cross Roll Direction

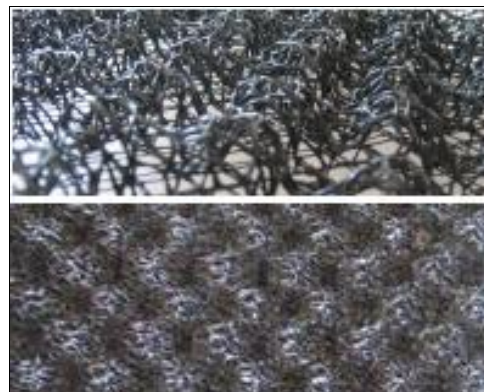
Two cusped geonet net layers heat fused to bottom reinforcement layers

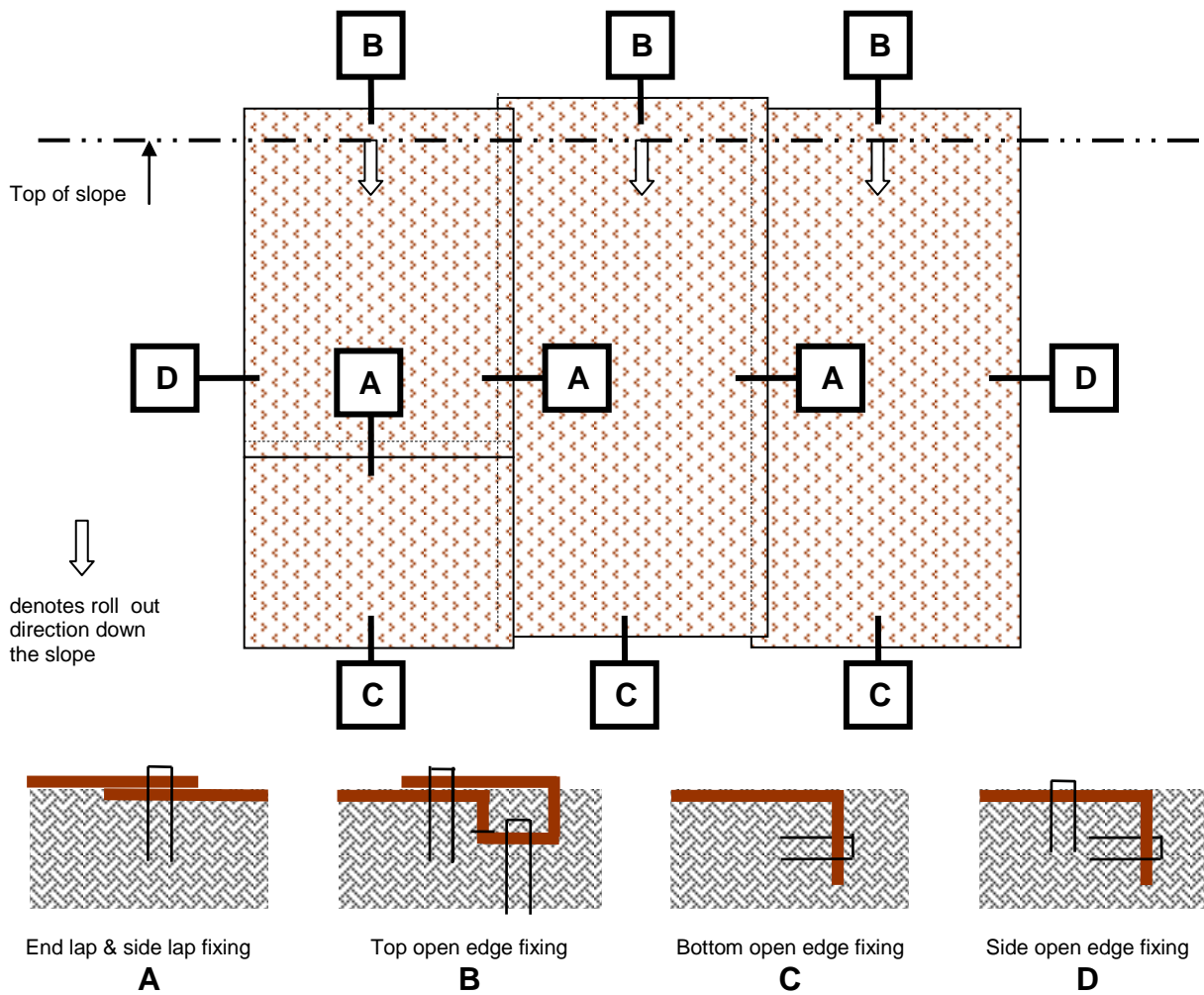
Three high tensile geonet reinforcement layers



### CROSS SECTION THRU EM430 EROSION MAT

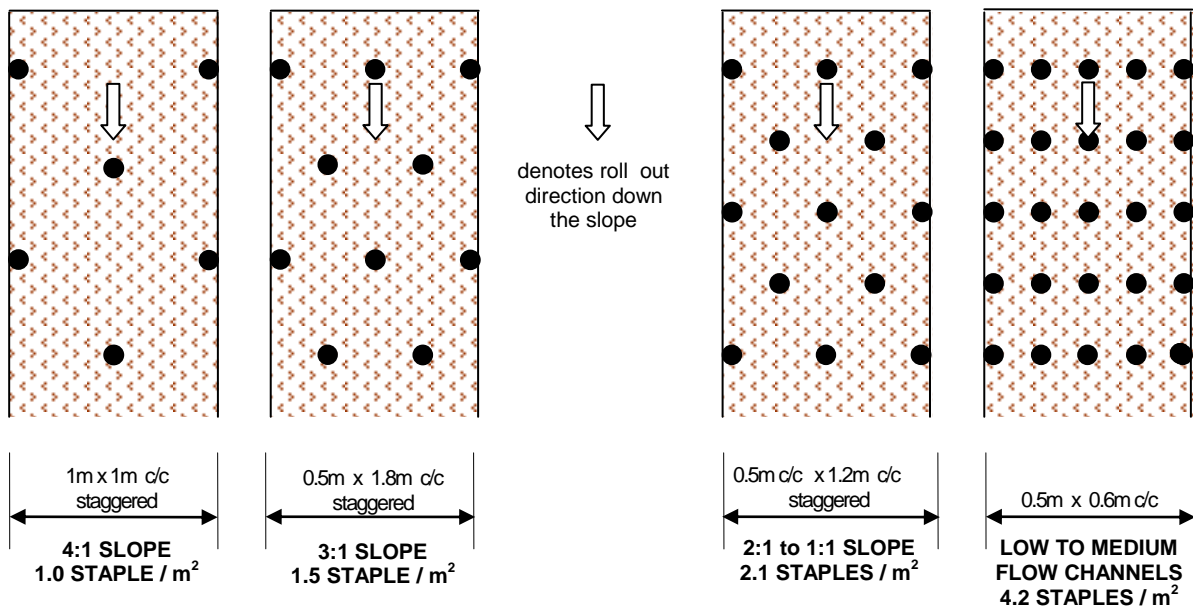
Not to scale





### EM430 MARGIN FIXING / STAPLE ARRANGEMENT

EM430 lap 'A' minimum of 100mm, edge margins 'B', 'C' & 'D' buried a minimum of 150mm  
Side laps arranged 'shingle fashion' away from prevailing wind



### EM430 STAPLE FIXING SET-OUT RELATIVE TO SLOPE GRADIENT

Allow additional staples for type B & D margins  
Stock staples galvanized steel, 125mm and 230mm long, select length as required to suit soil type