

Construction Nets

3D Geomat



3D geomat is also known as 3D vegetation net, erosion control mats, debris flow control mats, landslide control mats, etc.

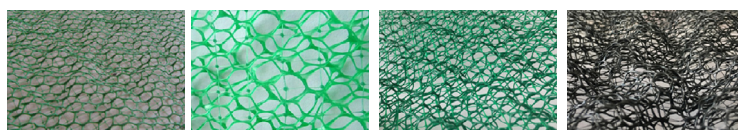
It is a multi-layer mesh structure made of PP, UV stabilizer and other additives. Structurally, it is a stable 3D mesh structure made of single or multi-layer plastic 3D mesh and high-strength flat mesh bonded by heat fusion, and voids over 90% can be filled sand and soil. It takes advantage of plants and 3D mesh structure to build a protection system that allows these plant to have their' own growth capacity. It is widely used in roads, railways, rivers and dams for slope protection, and can replace concrete, asphalt, stone and other slope materials.

FEATURES

- ✓ Lightweight, high flexibility and tensile strength, loose and flexible structure, easy installation and operation.
- ✓ UV stabilizer and anti-aging agent are added to make it have excellent corrosion resistance, acid and alkali resistance and can be used in outdoors for a long time.
- ✓ Low cost, degradable, and will not pollute the environment.
- ✓ It protects the ground surface from wind and rain erosion before the turf growing up.
- ✓ It enables the grass seeds to be firmly kept on the slope surface and will not be eroded by wind and rain.
- ✓ It forms a composite protective layer with plants that can withstand high water levels and high flow rate sourcing.
- ✓ When the vegetation cover reaches 80% and grows well, it can withstand up to 6 m/s of heavy rain scouring.
- ✓ It increases the shear strength of the soil and improves the stability and erosion resistance of the slope.
- ✓ It can replace concrete, asphalt, stone and other slope materials.

CATEGORY

3D geomats are divided into 1 layer, 2 layers, 3 layers, 4 layers and 5 layers by number of layers and are expressed by EM2, EM3, EM4 and EM5 respectively.



Category	EM2	EM3	EM4	EM5
Color	Black, green			
Fabric weight (g/m ²)	≥ 220	≥ 260	≥ 350	≥ 430
Thickness (mm)	≥ 10	≥ 12	≥ 14	≥ 16
Longitudinal/transverse tensile strength (kN/m)	≥ 0.8	≥ 1.4	≥ 2.0	≥ 3.2
Width (m)	2.0			
Length (m)	30, 40, 50			

3D geomats for different conditions:

- When the slope is less than 30°, EM2 or EM3 is highly recommended;
- When the slope falls between 30° and 40°, EM4 is highly recommended;
- When the slope is greater than 45°, EM5 is highly recommended;

