terrafix®
geosynthetics inc.

FLEXAMAT®
TIED CONCRETE BLOCK MAT

EROSION AND SEDIMENT CONTROL

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geosynthetics inc.

FLEXAMAT® – TIED CONCRETE BLOCK MAT

About Flexamat®

Flexamat® consists of concrete blocks, locked together and embedded with a high strength geogrid. There are openings around each concrete block that give Flexamat® the flexibility and enable it to be packaged in rolls. The openings also allow vegetation to grow through the mat. Eventually, vegetation will completely cover Flexamat®. It can be manufactured with various backings such as non-woven fabric to stop vegetation growth or a variety of erosion control blankets depending on the soil conditions and other factors.

There's a wide range of applications where Flexamat® is utilized, but it is most commonly used for erosion control. Flexamat® is used to control erosion in channels, outlet protection, on slopes, for shoreline protection and many other applications.

Flexamat® offers permanent, hard armour protection, with a natural vegetated appearance. Flexamat® may be mowed over with commercial mowing equipment or left to grow wild. Besides grass, there are many other types of native plant species that can be planted to grow within the mat. For example, Willow Saplings were planted through Flexamat® for a streambank re-vegetation project.

Flexamat® Stops Erosion

No more rock rip rap - No more poured concrete gutters

Un-vegetated capabilities:

- Limiting Shear 1,149Pa*
- Limiting Velocity 5.8m/s*

*ASTM D 6460

Flexamat® is a permanent erosion control mat utilized for stabilizing slopes, channels, low water crossing, inlet/outlet protection, and shorelines. It consists of concrete blocks (165mm x 165mm with a 57mm profile) embedded into a high strength geogrid. There is 38mm spacing between the blocks that gives the mat flexibility and allows vegetation growth.

Flexamat® is packaged in rolls, making staging and installing the material very efficient.
Standard construction equipment is used for installation.

Flexamat® weighs 48.8kg/m². The weight of the product performs as a “built-in” anchoring system. Standard widths are 1.22m, 1.67m, 2.44m, 3.05m, 3.66m, 4.88m. Rolls are available in custom lengths. 1.22m x 1.22m mats stacks on pallets are also available.

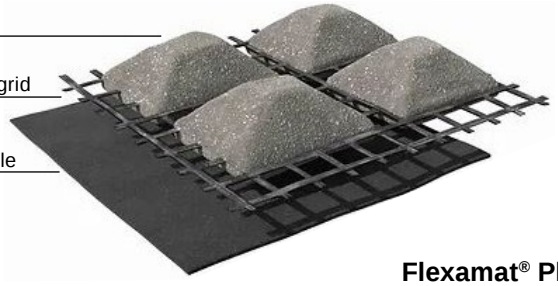
Flexamat® Underlay Options:

Flexamat® 10NW

34.5MPa Concrete Blocks

High Strength Biaxial Geogrid

10oz. Non-woven Geotextile



Flexamat® Plus

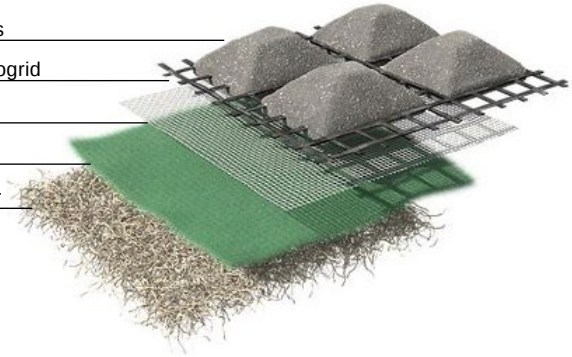
34.5Mpa Concrete Blocks

High Strength Biaxial Geogrid

5-Pick Leno Weave

Recyclex® TRM

Curlex® II Wood Excelsior



Flexamat® Standard

34.5Mpa Concrete Blocks

High Strength Bixial Geogrid

5-Pick Leno Weave

Curlex® II Wood Excelsior

Benefits for Ditch Applications:

- Easy and efficient Installation
- Multiple uses: erosion prevention, roadside, drainage, landfills, and more
- Ability to manufacture onsite for large projects, reducing costs - typically cheaper than rock
- Environmentally friendly - allows vegetation growth
- Capable of handling high flow water runoff
- Easy maintenance, mow right over Flexamat®!
- Cleanses the water of sediments and water runs clear

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FLEXAMAT® – TIED CONCRETE BLOCK MAT

- Permanent Solution - will not crack with freeze / thaw cycles.
- Easy Maintenance - can be mowed over with commercial mowing equipment without turf damage.
- Fast and Simple Installation - roll design makes installation efficient.
- Reduces Construction cost - low material cost, less labor, and shorter lain closure time.
- Reduces Runoff Velocities
- Natural and Aesthetic Solution - insulates from cold and heat, and allows pet and owner access
- Improves Safety - no loose blocks that can be thrown or cause slippage.
- Accumulate LEED Credits - Materials & Resources (MR), Water Efficiency (WE), Sustainable Sites (SS)

Mat Width & Length	Manufactured in standard widths of 1.22m, 1.67m, 2.44m, 3.05m, 3.66m, 4.88m. Lengths can be cut to order per project requirements. Stocked lengths are 9.14m, 12.2m, 15.24m. 1.22m x 1.22m mats stacked on pallets are also available.
Underlayment Options	Standard Flexamat® is manufactured with wood erosion control blanket underlayment backing. It may also be manufactured with a TRM or non-woven filter fabrics. Onsite conditions and project requirements determine the appropriate underlayment material.
Weight per Square Foot	48.8kg/m²
Block Size	The concrete blocks are 165mm x 165mm x 57mm. There is 38mm spacing between the blocks.

Test	Tested Value	Bed Slope	Soil Classification	Limiting Value
ASTM D 6460	Shear Stress	30%	Sandy Loam (USDA)	1149Pa
ASTM D 6460	Velocity	30%	LOAM (USDA)	5.8m/s