



## **INSTALLATION GUIDELINES**

Flexamat® is a tied concrete block system that is manufactured with site specific underlay. First, for applications where vegetation growth is expected, we use a 12-18 month degradable excelsior blanket (Curlex® II), second, for applications where vegetation will be sparse, we use a permanent synthetic erosion control blanket (Recyclex® TRM-V), and third, for sandy, non-cohesive soils, we use a non-woven geotextile fabric.

Flexamat® is available in widths of 4', 5.5', 8', 10', 12', and 16'. For applications with wider widths, mats are installed adjacent to one another. The manufacturer or authorized representative will provide technical assistance during installation as needed.

### **SHIPPING, TRANSPORT, STORAGE & HANDLING:**

Flexamat® is packaged in rolls for shipment. The rolls have a minimum weight of 10 pounds per square foot. Rolls are packaged with handling straps. For safety, it is recommended that these straps only be used for heavy duty lifting below 2' as a means to place heavy duty lifting straps under rolls.

Upon delivery, rolls may be left exposed for up to 30 days. If exposure will exceed 30 days, the rolls must be tarped or otherwise covered to minimize UV exposure.

### **SUBGRADE PREPARATION:**

The prepared subgrade shall provide a firm, unyielding foundation for the mats. The subgrade shall be prepared as detailed on the plans. Subgrade surface shall be free of any debris, protrusions, rocks, sticks, roots or other hindrances which would result in an individual block being raised more than ¾" above the adjoining blocks. Undulations, rolls, knolls and rises in the subgrade to which the tied concrete mat is able to contour over and maintain intimate contact with the subgrade will be allowed. The Flexamat block has a height of 2.25". When grading next to hard surfaces like a road, sidewalk, or outlet pad, consider lowering the grade to allow for a smooth transition for water to flow from the hard surface onto the Flexamat. Before unrolling the Flexamat, apply seed and soil amendments directly to the prepared soil prior to installation of mats. Use seed and soil amendments or topsoil per project specifications.

**UNROLLING:**

Position the rolls in the direction to be unrolled, with the leading edge at the bottom of the roll with the line and grade shown on the plans and according to the manufacturer's installation guidelines. Flexamat can be unrolled down or across slopes. It is important to consider the direction of any overland or channel flow when anchoring and installing the succeeding rolls for seams or abutments in the design. All edges exposed to concentrated flows, especially the upstream leading edges must be terminated and properly anchored according to engineer drawings. If no hydraulic or overland flow is expected, a soil transition cover of 4"-6" can be graded over the edges in lieu of placement in an anchor trench. Overlapping seam should be installed like a shingle on a roof.

**PANEL SEAMING:**

Panel seams (Channel and Slopes) perpendicular to the hydraulic flow must be overlapped. The downstream panels will be terminated and properly anchored according to engineer drawings and placed under the upstream panel by overlapping 18". If no hydraulic or overland flow is expected, butting the seams together is acceptable when used along with a 4' section of erosion control matting where 2' is placed under each neighboring panel.

**ANCHORING:**

Flexamat shall have an 18" toe-in at edges perpendicular to concentrated hydraulic flow. For areas exposed to surface sheet flow, recess the mat 12". Alternatively, edges not exposed to surface sheet flow do not need to be toed. Rather, a soil transition cover may be placed 4" along the edge of mat to transition to landscape.

Where permanent anchoring is required, e.g., installing mats on steep slopes, the cables (polypropylene grid) shall be attached to the anchoring system as indicated on the contract drawings. Important areas for considering anchoring are the leading edges, seams and overlaps. The design and layout of the anchored system shall be designed by the engineer with assistance from manufacturer.

**MAINTENANCE:**

Inspect at regular intervals and after storm events. Mow and fertilize vegetation. Do not maintain with grass killing chemicals. Remove sediment buildups in any swales or outlets.