

Eco-Flex

Eco-Flex™ mats are identical to Ercoform™, but include open cells to provide environmentally compatible protection against periodic high flows. After installation, fill material and vegetation can be planted within the open structure of the mat. Eco-Flex™ mats are comprised of concrete-filled elements and unfilled areas that allow for the establishment of vegetation. Once the concrete sets, the defined, unfilled and interwoven areas (approximately 25% of the pumped area) are opened and filled with topsoil and seeded. Within a growing season a vegetated cover will normally extend over the lining, resulting in an erosion control system with the hydraulic, ecological and aesthetic features desired.

TYPICAL DIMENSIONS AND WEIGHTS				
MAT CLASS	E-60	E-80	E-100	Eco-Flex
Average Thickness, (in)	4	6	8	4
Nominal Block Dim., (in)	20 x 14	20 x 20	20 x 26	20 x 14
Weight/Block (lbs)	90	195	325	90
Weight/Unit Area (lb/ft ²)	60	80	100	42
Concrete Coverage (ft ² /cy)	63	47	38	90
Shear Resistance (lb/ ft ²)	35	46	57	15

INSTALLATION PROCESS

Site Preparation

Slope grading equipment is used to excavate to required depths, contour the slopes to the specified slope ratio and form the anchor, toe and terminal trenches around the periphery of the installation. The area to be protected must be free of rock, brush, roots or large soil clods. Ercoform™ should be placed on a compacted sub-grade and stable slope. The fabric forms are usually anchored into a trench 3 to 5 feet deep, by 3 feet wide, at the top of the slope, which is dependent on project site substrate.

Panel Placement and Field Assembly

Once the slope and other related excavation conforms to finished grade and elevation specifications, installation of the filter fabric and the Ercoform™ fabric forms may begin. After a site specific filter fabric has been installed, the custom sized **Ercoform™** panels are rolled down the slope and positioned. The panels are positioned according to prepared drawings where each panel is identified for placement. The panel is then unfolded and pulled into position. The Ercoform™ panels are positioned loosely along the slope. Once positioned, the upper edge of the panel is folded into the anchor trench atop the slope.

Inspection Before Filling

All mats are inspected prior to pumping to ensure no major tears or rips are present. As much as 10% contraction in each direction may be expected during the filling process.

Structural Grout Pumping

The Ercoform™ mat is carefully inflated by the work crew, making sure not to overfill the mat. The process is highly efficient since our crews are well established and the members have been working together for years.

Finalizing The Site

Once pumping is completed, the trenches are backfilled and the slopes of the project site are returned to pre-construction contours, as determined by the construction drawings.