GEOTERRA®
HDPE Construction Mats

GEOTERRA® construction mats are a low environmental impact alternative to timber and heavy composite mats for temporary or permanent platforms/pads and access roads.

Sustainable Environmental Contributions

The benefits of using GEOTERRA® mats for sustainable, green building initiatives including Low Impact Development (LID) and Green Infrastructure (GI) are noted below.

Energy Use
- Made from post-consumer recycled material, reduces resin production energy needs.
- Lower transportation emissions to bring in and place lightweight mats compared to 12 inches of aggregate.
- Less energy to produce & lower transportation emissions compared to heavy HDPE mats—2 lbs/sf compared to 10-12 lbs/sf.
- No heavy equipment to deploy or install reduces emissions.

Resource Savings
- Strength equivalent to 12 inches of aggregate—without mining of resources.
- Made from 100% post-consumer recycled plastic—beneficial reuse of materials otherwise landfilled.
- Strong and efficient design uses less polymer material than heavier composite mats.
- Lower environmental impact compared to timber mats—reduces clear cutting.

Land Use
- Allow access without destroying vegetation.
- Land is minimally impacted by the open-celled mats—allows water and sunlight to permeate and revegetate where feasible.
- Reduces site damage for access.

Water Benefit
- Permeable mat surface allows rain water to infiltrate.
- Open structure compatible with underlying drainage layer to capture and manage rainwater below the surface.

Helpful Resource Links
- GEOTERRA® Overview >>
- Compare Construction Mat Options >>
- Interactive Construction Mat Design Assistant >>