

GREEN SHEET

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.

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Learn More About
GEOTERRA® Mats

Helpful Resource Links

GEOTERRA® Overview >> Compare Construction Mat Options >>

Interactive Construction Mat Design Assistant >>