

# DESIGNED FOR HEAVY DUTY

SUPERIOR PERFORMANCE IN A WIDE RANGE OF APPLICATIONS AND ENVIRONMENTAL CONDITIONS

## FEATURES AND FACTS

- **MATERIAL:** LDPE 100% Recycled
- **LOAD RATING:** Exceeds HS20, HL93-vehicular live load modeling, and DOT approved in multiple states
- **MAX COMPRESSIVE STRENGTH:** 21,740 psi
- **TOUGH TESTED:** Approved and used by US Army Corps of Engineers, FEMA, and NATO
- **SUCCESSFUL HISTORY:** Used globally for 30+ years
- **BACKED BY MANUFACTURER:** 20-year warranty

FOOTPRINT	HEIGHT	WALL THICKNESS	WEIGHT PER PIECE	UNFILLED STRENGTH	FILLED STRENGTH	LOAD RATING	RESISTANCE
13" x 13" (per piece) 14 SF +/- per preassembled panel	2"	0.20"	2.20 lbs	496 psi	21,740 psi*	Meets and exceeds HS20 & HL93 Vehicular Live Load model	Resistant to acids, alkalis, alcohol, oil and fuel

\*Results are based on the product filled with sand where compressive strength is equivalent to the maximum load of the test rig divided by the sample size.

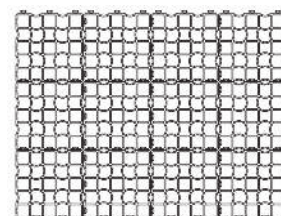
## BEST SUITED FOR

Roadways, Industrial, Heavy Commercial/Trucking Facilities and Military

## APPLICATIONS

With up to 21,740 psi of load support, E50 grids create a fully drivable, fully snow-plowable surface.

- Equipment laydown and storage yards
- Heavy-use parking lots
- Military applications
- Oil and mining sites
- Road shoulder reinforcement
- Warehouse and logistics areas



**FERGUSON**  
WATERWORKS

**ECORASTER®**  
**E50**

PERMEABLE PAVING SURFACE  
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# THE PERFECT SOLUTION FOR HEAVY-DUTY USE:

## ROADWAY, INDUSTRIAL, MINING & MILITARY APPLICATIONS



### LOW MAINTENANCE

Once installed, E50 permeable ground-reinforcement surfaces require little to no maintenance. They require no edging, and the individual infill compartments minimize rutting and depressions, a typical challenge with unpaved surfaces.

### UNMATCHED RESISTANCE

Built to withstand whatever conditions you throw at them, these interlocking grids resist UV damage, deicing salt, gasoline and more.

Low-density polyethylene (LDPE) helps them withstand fluctuating temperatures from -30° to 194°F. This resilience provides low-temperature impact performance, eliminates the need to sand or salt and resists becoming brittle through all weather conditions to prevent breaking.

### DURABLE AND DRIVEABLE

With up to 21,740 psi of load support, E50 grids create a fully drivable, fully snow-plowable surface.

### DESIGN FLEXIBILITY

The E50 panel's 2" height allows it to be combined with Ecoraster Bloxx units to form unique designs and project layouts.

### RAPID INSTALLATION

E50 pieces come preassembled in approximately 14 SF panels for rapid deployment. A single person can install up to 1,500 SF of pads in one hour without the use of heavy construction equipment.

### THREE-STEP PROCESS

1. Lay
2. Cut
3. Fill

## DESIGN GUIDANCE

### FOR BASE REQUIREMENTS USED UNDER ECORASTER PRODUCTS

This design guidance can be used as a starting point when using Ecoraster products. The information provided below indicates the suggested *minimum* base requirements. Projects with weaker soils like CL down to PT should consult a qualified engineer for specific guidance. These base depths are for structural strength only and are not intended to meet any stormwater detention requirements.

### ECORASTER E50

VEHICLE TYPE/LOAD	CBR 2 - 4	CBR 4 - 6	CBR > 6
Heavy Truck < 90,000 lbs	6	4	2
Medium Truck < 60,000 lbs	4	2	2
Light Truck < 40,000 lbs	2	2	2
Car, Pickup < 8,000 lbs	2	0	0
Cart Path, Trail < 1,000 lbs	2	0	0

Normal Traffic:

Occasional Use:

- All depths are in inches
- CBR = California Bearing Ratio
- For CBR < 2, contact Purus NA Ecoraster, Inc. for recommendations
- These depths are suggestions only and all designs should be approved by a qualified engineer
- All depths are for uniformly graded angular gravel, per AASHTO guidelines

High-Load Support Surface

