

ECORASTER[®]
E50

PERMEABLE PAVING SURFACE



THE PERFECT SOLUTION FOR HEAVY-DUTY USE

ROADWAY, INDUSTRIAL, MINING & MILITARY APPLICATIONS



RAPID INSTALLATION

E50 pieces come preassembled in approximately 14 ft² panels. Simply lay, cut and fill. One person can install up to 1,500 ft²/hr without heavy construction equipment.

LOW MAINTENANCE

Individual infill compartments minimize rutting and depressions, a typical challenge with unpaved surfaces. Little to no maintenance or edging is necessary.

UNMATCHED RESISTANCE

The 100% recycled LDPE grids handle tough conditions and fluctuating temperatures from -30°F to 194°F. Additionally, they are UV resistant and hold up against deicing salt, gasoline and more.

DURABLE AND DRIVABLE

With up to 21,740 psi of load support, E50 grids create a fully drivable, fully snow-plowable surface that is DOT-approved in multiple states. The load rating exceeds HS20 and HL93-vehicular live load modeling.

DESIGN FLEXIBILITY

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

VERIFIED PERFORMANCE

ASTM C39-21 – Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens. Testing was performed on filled and unfilled grid systems to evaluate load transfer under typical installation conditions.

TRUSTED GLOBALLY FOR 30+ YEARS

Used and approved US Army Corps of Engineers, FEMA and NATO.

MANUFACTURER 20-YEAR WARRANTY

Ecoraster stands behind their US-made products.

ADA ACCESSIBLE

Ecoraster systems can support ADA-accessible parking when surface transitions are less than a 1/2" and infill aggregate is a 1/2" or smaller. ADA compliance is determined by site design and installation, not by individual product certification. Final compliance with ADA requirements and local regulations is the responsibility of the facility owner.



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:	<input type="checkbox"/>
Occasional Use:	<input type="checkbox"/>

- 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



DESIGNED FOR HEAVY DUTY

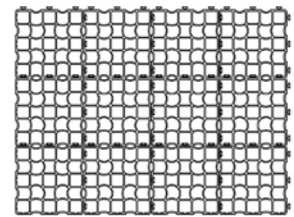
SUPERIOR PERFORMANCE FOR ROADWAYS, INDUSTRIAL, HEAVY COMMERCIAL/TRUCKING FACILITIES AND MILITARY

FOOTPRINT	HEIGHT	WALL THICKNESS	WEIGHT PER PIECE	UNFILLED STRENGTH	FILLED STRENGTH	LOAD RATING	RESISTANCE
13" x 13" (per piece) 14 ft ² +/- 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.

APPLICATIONS

- Up to 21,740 psi of load support
- Equipment laydown and storage yards
- Heavy-use parking lots
- Military applications
- Oil and mining sites
- Road shoulder reinforcement
- Warehouse and logistics areas



CONVENIENT PACKAGING FOR DELIVERY

MODEL	E50	E40	E30	BLOXX
Nominal size per piece	13" x 13" x 2"	13" x 13" x 1.6"	13" x 13" x 1.2"	13" x 13" x 2"
Pieces per layer	12	12	12	12
Layers per pallet	43	55	71	43
Pieces per pallet	516	660	852	516
Pallets per truck	26	26	26	26
Coverage per pallet	608 ft ²	778 ft ²	1004 ft ²	608 ft ²
Pieces per pallet	1217 lbs	928 lbs	1137 lbs	902 lbs

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