

Product Comparison Datasheet – ecoraster® Soil Stabilization & Ground Reinforcement Grid Systems

Grade »	ecoraster® E-50		ecoraster® S-50		ecoraster® E-40		ecoraster® E-30	
	British Units	Metric	British Units	Metric	British Units	Metric	British Units	Metric
Dimensions of individual Pieces	13.1233in W 13.1233in L 1.9685in H	33x33 cm X 5 cm HT	13.1233in W 13.1233in L 1.9685in H	33x33 cm X 5 cm HT	13.1233in W 13.1233in L 1.575in H	33x33 cm X 4 cm HT	13.1233in W 13.1233in L 1.1811in H	33x33 cm X 3 cm HT
Wall thickness	0.197in thick	5 mm	0.0984in	2,5 mm	0.138"/ 0.177"	3,5 mm/4.5mm	0.1575"	4 mm
* Certified/axle Vehicular LOAD	22.45 US Tons per AXLE	20 tonnes per AXLE	22.45 US Tons per AXLE	20 tonnes per AXLE	22.45 US Tons per AXLE	20 tonnes per AXLE	22.45 US Tons per AXLE	20 tonnes per AXLE
* DIN Standards	Vehicular LOAD capacity, Public Roadways & Bridges: DIN 1072 Public parking, warehouse & loading: DIN EN ISO 124 (B125)							
* Compressive STR	35.80 Tons/ft²	350 MT/m²	12.29 Tons/ft²	120 MT/m²	12.29 Tons/ft²	120 MT/m²	25.60 tons / ft²	250 MT/m²
Material	100 % Recycled material (PE) Post-consumer/ agricultural content 100% Recyclable/ Re-usable							
Stability of Shape	Temperature Range: - 58° TO +194° Fahrenheit -50 up to +90° Centigrade							
H ₂ O absorption	less than 0.01%							
Environmental comparability REF: DIN 38412	Multiple certifications under German EPA/EPO, LGA and DIN standards, TÜV-certified compliance using the highest standards of laboratory testing: ecologically compatible, ground water neutral, non-toxic to animals, plants and micro-organisms. Does not decay into toxic or noxious materials. Also: weatherproof, UV-Stabilized, fracture-resistant, etc.							
Solubility	Chemically and biologically inert: resistant to acids and leaching compounds (salts including marine salts, ammonia and Urea, acid rain etc.) as well as against alcohol or similar solvents, and petroleum distillates.							
Installation	1,076 ft² / man-hour 100 m² per person per hour							
	Packed on plastic pallets: 47.244 x 39.37 inches 120 x 100 cm							
Weight/piece	2.34 lbs/pc	1.06 kg	1.68 lbs/pc	0,76 kg	1.5 lbs/pc	0,70 kg	1.31 lbs/pc	0,59 kg
Weight/layer	28.05 lbs /12-pc layer	9.55 kg/m² 12,73kg/m²	20.107 lbs / 12-pc layer	9.12 kg/layer 6,84 kg/m²	18 lbs. /12-pc layer	8.54 kg/layer 6,30 kg/m²	15.72 lbs. /12-pc layer	6.72 kg/layer 5,04 kg/m²
Pieces/Area	0.836128 pc/ft² 1.19599 ft²/pc	9 pcs/m²	0.836128 pc/ft² 1.19599 ft²/pc	9 pcs/m²	0.836128 pc/ft² 1.19599 ft²/pc	9 pcs/m²	0.836128 pc/ft² 1.19599 ft²/pc	9 pcs/m²
Pieces/layer Area/Layer	12 pcs /layer = 14.3519 ft²	12 pcs /1,33 m²	12 pcs /layer = 14.3519 ft²	12 pcs /1,33 m²	12 pcs./layer = 14.3519 ft²	12 pcs /1,33 m²	12 pcs./layer = 14.3519 ft²	12 pcs /1,33 m²
Layers/pallet	43	43	43	43	55	55	71	71
Pieces/pallet	516 pcs	516 pcs	516 pcs	516 pcs	660 pcs	660 pcs	852 pcs	852 pcs
Area/pallet	617.13 ft²	57,19 m²	617.13 ft²	57,19 m²	789.35 ft²	73,15 m²	1018.98 ft²	94,43 m²
Pallets /container	20 pallets per 40-foot Hi-Cube shipping container							
area/container	12,342.63 ft²	1143,80 m²	12,342.63 ft²	1143,80 m²	15,787.09 ft²	1463 m²	20,379.60	1888.6 m²
Loaded Pallet Dimensions	42x53x90in	105x135cm x229 cm HT	42x53x90in	105x135cm x229 cm HT	42x53x90in	105x135cm x229 cm HT	42x53x90in	105x135cm x229 cm HT
Plastic pallet Dimensions	6"HT 16.2 lbs.	H=15 cm 7,35 kg	6"HT 16.2 lbs..	H=15 cm 7,35 kg	6"HT 16.2 lbs.	H=15 cm 7,35 kg	6"HT 16.2 lbs.	H=15 cm 7,35 kg
Approx. Loaded Pallet weight	1,232 lbs.	560 kg	839 lbs.	381 kg.	1,006 lbs.	457 kg	1,132 lbs.	514 kg
Grade »	ecoraster® E-50		ecoraster® S-50		ecoraster® E-40		ecoraster® E-30	

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Date: 1 January 2010. This material specifications/technical data summary sheet is subject to updates.

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