PRESTO						
GEOSYSTEMS	Geoblock®	Geoblock®5150	Rolled Product	Hex Cell-1	Drainage Cell	Hex Cell-2
Base Depth (Overflow Parking, CBR=4)	4"	0″	6"	4"	4" Growing Media over 3" Washed Coarse River Sand with geonet layer between	1.5" masonry sand over 2" road base
Base Depth (Fire Truck Access, CBR=4)	10"	4"	12"	8" minimum	Not recommended by manufacturer for heavy applications	1.5" masonry sand over 8" road base
SIGNIFICANCE	Reduced base depth leads to	reduced excavation and backfil	l and therefore reduced ov	verall project cost.		
Flexural Strength	Moderate Rigid Product	High Rigid Product	None Rolled Product	High Rigid Product	Moderate Rigid Product Supported by columns not walls	High Rigid Product
SIGNIFICANCE	Stiffer paver units provide bet	ter support distributing loads a	across entire installation, l	imiting contact pressure to the	e base.	
Free Draining Sand in Base	No	No	Yes compacted sandy gravel required	No	Yes required	Yes
Moisture Retaining Topsoil in Base	~35% allows root penetration	~35% allows root penetration	No	No	4" layer which will compact and limit drainage	No
Paver Infill	Pulverized Topsoil	Pulverized Topsoil	Clean, sharp sand, compacted	Sandy loam or loam	Clean, Sharp Sand mixed with topsoil	Topsoil, but over 1.5" of sand
SIGNIFICANCE	Sand does not retain moisture, topsoil does. More sand leads to need for more watering and/or requires moisture retaining additives. Fertilizer/chemicals must be added at regular intervals. Grass grows better in topsoil than in sand.					
Load Transfer Mechanism	86.4 in^{2/}ft² contact at base, 18.7 in ^{2/} ft ² at surface reduces contact pressure by 462%	80.6 in ^{2/} ft ² contact at base, 17.3 in ^{2/} ft ² at surface reduces contact pressure by 466%	29.05 in^{2/}ft² contact at base, 7.3 in ^{2/} ft ² at surface for 398% reduction in contact pressure	57 in ^{2/} ft ² contact at base, 12.96 in ^{2/} ft ² at the surface for 440% reduction in contact pressure	50.4 in^{2/}ft² contact at base, 50.4 in ^{2/} ft ² at surface for little reduction in contact pressure	90.7 in^{2/}ft² contact at base, 14.4 in ^{2/} ft ² contact at surface reduces contact pressure by 630%
SIGNIFICANCE					duce contact pressure to the base res	
Unit Area	5.3 ft ²	5.3 ft ²	2.78 ft ²	4.00 ft ²	1.34 ft ²	2.14 ft ²
Joint Type/Shear Transfer between units	Tabular allows for complete unit-to unit shear transfer	Tabular allows for complete unit-to unit shear transfer	Peg and Hole minimal shear transfer	Tongue and groove moderate shear transfer	Vertical tongue and groove low shear transfer	Over/Under locking system little shear transfer
SIGNIFICANCE	The larger the paver unit, the less connection points. In all systems, especially those with little shear transfer from the connection mechanism, the connections will be the weakest part of the entire system. Less connections are better.					
Cell-to-Cell Relationship	Common cell walls	Common cell walls	No common cell walls	Common cell walls	Cubical with support structure of unbraced columns	Common Cell walls
SIGNIFICANCE	Common cell walls are needed in order to resist torsional loading. Lack of common cell walls increases the propensity for the pavers to buckle when vehicles turn.					
Cell Size	2.25" x 2.25"	3.1" x 3.2"	2.15" ID rings	2.5" Hexagonal cells	~2″ x~2″	2.5" Hexagonal cells
Cell Depth	1.18"	2″	1"	1.5″	2"	1.75″
SIGNIFICANCE	The deeper the cell, the more topsoil that can be confined and remain uncompacted. This allows the infiltration rate to remain high and the roots to remain undamaged. Roots require free moving water and air to survive.					
Weight/ft ²	0.87 lb/ft ²	1.77 lb/ft ²	0.40 lb/ft ²	1.125 lb/ft ²	0.94 lb/ft ²	1.12 lbs/ft ²
SIGNIFICANCE		Typically, more plastic pe	r unit weight means a stro	nger product. When evaluatin	g price, consider cost per unit weight.	

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