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<b>GEOSYSTEMS</b>	Geoblock®	Geoblock®5150	Rolled Product	Hex Cell-1	Drainage Cell	Hex Cell-2
Base Depth (Overflow Parking, CBR=4)	2"	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)	6"	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 backfill	and therefore reduced or	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	tter support distributing loads a	cross entire installation, I	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 intervals. Grass grows better		s to need for more wateri	ng and/or requires moisture re	etaining additives. Fertilizer/chemicals	must be added at regular
Load Transfer Mechanism	<b>86.4 in<sup>2/</sup>ft<sup>2</sup></b> contact at base, 18.7 in <sup>2/</sup> ft <sup>2</sup> at surface reduces contact pressure by 462%	<b>80.6 in<sup>2/</sup>ft<sup>2</sup></b> contact at base, 17.3 in <sup>2/</sup> ft <sup>2</sup> at surface reduces contact pressure by 466%	29.05 in <sup>2/</sup> ft <sup>2</sup> contact at base, 7.3 in <sup>2/</sup> ft <sup>2</sup> at surface for 398% reduction in contact pressure	<b>57 in<sup>2/</sup>ft<sup>2</sup></b> contact at base, 12.96 in <sup>2/</sup> ft <sup>2</sup> at the surface for 440% reduction in contact pressure	<b>50.4</b> in <sup>2/</sup> ft <sup>2</sup> contact at base, 50.4 in <sup>2/</sup> ft <sup>2</sup> at surface for little reduction in contact pressure	90.7 in <sup>2/</sup> ft <sup>2</sup> contact at base, 14.4 in <sup>2/</sup> ft <sup>2</sup> contact at surface reduces contact pressure by 630%
SIGNIFICANCE					duce contact pressure to the base resu	ı i
Unit Area	5.3 ft²	5.3 ft²	2.78 ft <sup>2</sup>	4.00 ft <sup>2</sup>	1.34 ft²	2.14 ft <sup>2</sup>
Joint Type/Shear Transfer between units	<b>Tabular</b> allows for complete unit-to unit shear transfer	<b>Tabular</b> 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	d in order to resist torsional loa	ding. Lack of common cel	I walls increases the propensi	ty for the pavers to buckle when vehic	les 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 <sup>2</sup>	0.87 lb/ft <sup>2</sup>	1.77 lb/ft <sup>2</sup>	0.40 lb/ft <sup>2</sup>	1.125 lb/ft <sup>2</sup>	0.94 lb/ft <sup>2</sup>	1.12 lbs/ft <sup>2</sup>
SIGNIFICANCE		Typically, more plastic pe	r unit weight means a stro	nger product. When evaluatin	ng price, consider cost per unit weight.	