

Geoweb® Cellular Confinement System		NEAR SURFACE STABILIZATION		
		Recommended Material Types	Applications, Functions, Benefits and Design Considerations	
The Geoweb® Section	Section Length	Six Available	Longer section lengths minimize field construction joints and installation effort.	
	Cell Size	Small (GW20V) or Mid (GW30V)	Optimized structural benefits by matching cell size to tire-print. For larger tired vehicles, the GW30V may be applicable.	
	Cell Depth	100, 150, 200 mm (4, 6, 8 in)	Required cell depth is a function of applied loads and subgrade strength.	
	Cell Type	Textured Perforated or Textured Non-perforated	Maximize interaction between infill and cellular structure. Perforated cells provide lateral drainage and prevent cell ponding.	
	Cell Color	Black	Material is buried – standard UV stabilization is incorporated.	
The Infill	Topsoil & Vegetation	Soil / aggregate mixtures	Reinforcement of special vegetated access and parking areas.	
	Aggregate	Sand, gravel, crusher run	Broad application range allowing use of local and on-site aggregates.	
	Concrete	Ready-mix	High stress applications including industrial and boat-launch ramps.	
Other Components	Geosynthetics	Geotextiles	Woven or non-woven	Standard separation and subgrade reinforcement functions and selection criteria. Non-wovens used where high subgrade deformations are involved.
		Geogrids	Generally N. A.	Special applications of composite pavement structures only.
		Geomembranes	Special cases only	Special applications can include: landfill structures and expansive soils.
		Erosion Control Blankets	N. A.	
	Tendons, ATRA® Clips, Anchor Systems	N. A.		
	Surface Treatments	Asphalt or polymeric emulsions	Reduction of surface unraveling and routine surface re-grading can be achieved with a broad range of surface penetrating emulsions.	
Special Construction Note: Overall system performance is critically dependent on the achievement of optimum infill compaction and density.				

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Geoweb® Cellular Confinement System		PAVEMENT BASE STABILIZATION		
		Recommended Material Types	Applications, Functions, Benefits and Design Considerations	
The Geoweb® Section	Section Length	Six Available	Longer section lengths minimize field construction joints and installation effort.	
	Cell Size	Mid (GW30V) or Small (GW20V)	Recommendation may vary depending upon pavement type, loading conditions and subsoil strength.	
	Cell Depth	100, 150, 200 mm (4, 6, 8 in)	Depth is a function of applied loads and subgrade strength.	
	Cell Type	Textured Perforated or Textured Non-perforated	Maximize interaction between infill and cellular structure. Perforated cells provide lateral drainage and prevent cell ponding.	
	Cell Color	Black	Material is buried – standard UV stabilization is incorporated.	
The Infill	Topsoil & Vegetation	N. A.		
	Aggregate	Sand, gravel, crusher run	Broad application range allowing use of local and on-site aggregates.	
	Concrete	Ready-mix	High stress applications with asphalt overlay.	
Other Components	Geosynthetics	Geotextiles	Woven or non-woven	Standard separation and subgrade reinforcement functions and selection criteria. Non-wovens used where high-deformations are involved.
		Geogrids	Generally N. A.	Special applications of composite pavement structures only.
		Geomembranes	Special cases only	Special applications can include isolation of expansive soils.
		Erosion Control Blankets	N. A.	
	Tendons, ATRA® Clips, Anchor Systems		N. A.	
	Surface Treatments		Asphalt or polymeric emulsions	Overfill Geoweb cells with 12 – 25mm (0.5 – 1 in) aggregate surcharge. A broad range of surface penetrating emulsions and tack coats can be applied.
Special Construction Note: Overall system performance is critically dependent on the achievement of optimum infill compaction and density.				



Geoweb® Cellular Confinement System		TRACK-BED STABILIZATION		
		Recommended Material Types	Applications, Functions, Benefits and Design Considerations	
The Geoweb® Section	Section Length	Six Available	Longer section lengths minimize field construction joints and installation effort.	
	Cell Size	Small (GW20V) or Mid (GW30V)	Optimize structural benefits matching cell size to imposed loads.	
	Cell Depth	102, 152, 203 mm (4, 6, 8 in)	Depth is a function of applied loads and subgrade strength.	
	Cell Type	Textured Perforated	Maximize interaction between infill and cellular structure. Perforated cells provide lateral drainage and prevent cell ponding.	
	Cell Color	Black	Material is buried – standard UV stabilization is incorporated.	
The Infill	Topsoil & Vegetation	N. A.		
	Aggregate	Sand, gravel, crusher run	Broad application range allowing use of local and on-site aggregates.	
	Concrete	Ready-mix	High stress applications with asphalt overlay.	
Other Components	Geosynthetics	Geotextiles	Woven or non-woven Standard separation and subgrade reinforcement functions and selection criteria. Special non-wovens are used where high abrasion is anticipated.	
		Geogrids	Generally N. A. Special applications of composite track-bed structures only.	
		Geomembranes	Special cases only Special applications can include isolation of expansive soils and pollution containment structures.	
		Geo-composites	Geonets Provides in-plane drainage flow capacity.	
	Tendons, ATRA® Clips, Anchor Systems		N. A.	
	Surface Treatments		N. A.	
Special Construction Note: Overall system performance is critically dependent on the achievement of optimum infill compaction and density.				

Geoweb® Cellular Confinement System		MATTRESSES AND RAFTS OVER SOFT FOUNDATION SOILS		
		Recommended Material Types	Applications, Functions, Benefits and Design Considerations	
The Geoweb® Section	Section Length	Six Available	Longer section lengths minimize field construction joints and installation effort.	
	Cell Size	Small (GW20V) or Mid (GW30V)	Optimize structural benefits matching cell size to structural dimensions.	
	Cell Depth	100, 150, 200 mm (4, 6, 8 in)	Depth is a function of applied loads and subgrade strength.	
	Cell Type	Textured Perforated or Textured Non-perforated	Maximize interaction between infill and cellular structure. Perforated cells provide lateral drainage and prevent cell ponding.	
	Cell Color	Black	Material is buried – standard UV stabilization is incorporated.	
The Infill	Topsoil & Vegetation	N. A.		
	Aggregate	Sand, gravel, crusher run	Broad application range allowing use of local and on-site aggregates.	
	Concrete	Ready-mix	Special design situations.	
Other Components	Geosynthetics	Geotextiles	Woven or non-woven	Standard separation and subgrade reinforcement functions and selection criteria. High-deformation situations require special design techniques.
		Geogrids	Generally N. A.	Special applications of composite structures only.
		Geomembranes	Generally N. A.	
		Erosion Control Blankets	N. A.	
	Tendons, ATRA® Clips, Anchor Systems		N. A.	
	Surface Treatments		N. A.	
Special Construction Note: Overall system performance is critically dependent on the achievement of optimum infill compaction and density.				
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