



PRESTO

GEOWEB® EARTH RETENTION SYSTEM COMPONENTS GUIDELINE

Geoweb® Cellular Confinement System		GRAVITY AND ZONES GRAVITY STRUCTURES	
		Recommended Material Types	Applications, Functions, Benefits and Design Considerations
The Geoweb® Section	Section Length	Custom	Wall sections are available to meet the need of the design.
	Cell Size	Mid (GW30V) or Small (GW20V)	Adequate confinement strength is provided by the GW30V cell for typical applications; the GW20V cell used for special applications.
	Cell Depth	Standard 150 mm (6 in)	Multi-layered retaining systems with optimum backfill placement lifts.
	Cell Type	Textured Perforated or Textured Non-perforated	Maximize interaction between infill, backfill and textured cellular structure. Perforated cells provide horizontal structural drainage where necessary.
	Cell Color	Black or custom colors	Outer Geoweb cell walls can be custom colored to meet aesthetic requirements. Colored fascia panels are UV stabilized with HALS.
	Topsoil & Vegetation	Local soils and vegetation	Recommended for outer cell infill when natural vegetated appearance is needed.
The Infill	Aggregate	Sands, gravels, and rock	Recommended for general infill and backfill of gravity structures.
	Concrete	Ready-mix	Recommended for outer cell infill when severe hydraulic stresses are anticipated. This applies to high stream flow velocities and wave action.
Other Components	Geosynthetics	Geotextiles	Non-woven geotextile encapsulation of backfill zone provides a drainage and soil filtration medium.
		Geogrids	Generally N. A.
		Geomembranes	Polymeric or GCL's
	Erosion Control Blankets	Temporary bio-degradable protection	Can be employed selectively as infiltration control elements.
		N. A.	Surface protection of topsoil and seed immediately following installation.
	Tendons, ATRA® Clips	Soil-nail anchors	Anchor type depends on geometry and global stability.
	Anchor Systems	Various	See outer cell infill recommendations above.
	Surface Treatments		

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Geoweb® Cellular Confinement System		COMPOSITE SOIL-REINFORCED STRUCTURES	
		Recommended Material Types	Applications, Functions, Benefits and Design Considerations
The Geoweb® Section	Section Length	Custom	Wall sections are available to meet the need of the design.
	Cell Size	Mid (GW30V) or Small (GW20V)	Adequate confinement strength is provided by the GW30V cell for typical applications; the GW20V cell used for special applications.
	Cell Depth	Standard 150 mm (6 in)	Multi-layered retaining systems with optimum backfill placement lifts.
	Cell Type	Textured Perforated or Textured Non-perforated	Maximized interaction between infill, backfill and textured cellular structure. Perforated cells provide horizontal structural drainage where necessary.
	Cell Color	Black or custom colors	Outer Geoweb cell walls can be custom colored to meet aesthetic requirements. Colored fascia panels are UV stabilized with HALS.
	Topsoil & Vegetation	Local soils and vegetation	Recommended for outer cell infill when natural vegetated appearance is needed.
The Infill	Aggregate	Sands, gravels, and rock	Recommended for general infill and backfill of gravity structures.
	Concrete	Ready-mix	Recommended for outer cell infill when severe hydraulic stresses are anticipated. This applies to high stream flow velocities and wave action.
Other Components	Geosynthetics	Geotextiles	Non-woven geotextile encapsulation of backfill zone provides a drainage and soil filtration medium. Sheet reinforcement elements integrated with Geoweb fascia as primary reinforcement elements.
		Geogrids	Primary soil reinforcement elements.
		Geomembranes	Can be employed selectively as infiltration control elements.
		Erosion Control Blankets	Surface protection of topsoil and seed immediately following installation.
	Tendons, ATRA® Clips	N. A.	
	Anchor Systems	Soil-nail anchors	Anchor type depends on geometry and global stability.
	Surface Treatments	Various	See outer cell infill recommendations above.

Geoweb® Cellular Confinement System		MULTI-LAYERED FASCIA STRUCTURES		
	Recommended Material Types	Applications, Functions, Benefits and Design Considerations		
The Geoweb® Section	Section Length	Wall sections are available to meet the need of the design.		
	Cell Size	Adequate confinement strength is provided by the GW30V cell for typical applications; the GW20V cell used for special applications.		
	Cell Depth	Multi-layered retaining systems with optimum backfill placement lifts.		
	Cell Type	Maximized interaction between infill, backfill and textured cellular structure. Perforated cells provide horizontal structural drainage where necessary.		
	Cell Color	Outer Geoweb cell walls can be custom colored to meet aesthetic requirements. Colored fascia panels are UV stabilized with HALS.		
	Topsoil & Vegetation	Recommended for outer cell infill when natural vegetated appearance is needed.		
The Infill	Aggregate	Recommended for general infill and backfill of gravity structures.		
	Concrete	Recommended for outer cell infill when severe hydraulic stresses are anticipated. This applies to high stream flow velocities and wave action.		
Other Components	Geosynthetics	Geotextiles	Non-woven geotextile encapsulation of backfill zone provides a drainage and soil filtration medium.	
		Geogrids	N. A.	
		Geomembranes	Can be employed selectively as infiltration control elements.	
	Erosion Control Blankets	Temporary bio-degradable protection	Surface protection of topsoil and seed immediately following installation.	
		Tendons, ATRA® Clips, Anchor Systems	N. A.	
	Surface Treatments	Various	See outer cell infill recommendations above.	