

GEOWEB® EARTH RETENTION SYSTEM COMPONENTS GUIDELINE

GEOWEB® Cellular Confinement System			GRAVITY AND ZONES GRAVITY STRUCTURES	
			Recommended Material Types	Applications, Functions, Benefits and Design Considerations
GEOWEB Section	Section Length		Custom	Wall sections are available to meet the need of the design.
	Cell Size		GW30V and GW40V	Adequate confinement strength is provided by the cells for typical applications;
	Cell Depth		6 in (150 mm) and 8 in (200 mm)	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, Tan, or Green	Outer GEOWEB cell walls can be custom colored to meet aesthetic requirements. Colored fascia panels are UV stabilized with HALS.
The Infill	Topsoil & Vegetation		Local soils and vegetation	Recommended for front fascia cell infill when natural vegetated appearance is needed.
	Aggregate		Sands, gravels, and rock	Recommended for general infill and backfill of gravity structures. Infill material must be free draining.
	Concrete		Ready-mix	Recommended for front fascia cell infill when severe hydraulic stresses are anticipated. This applies to high stream flow velocities and wave action.
Other Components	Geosynthetics	Geotextiles	Non-woven	Non-woven geotextile encapsulation of backfill zone provides a drainage and soil filtration medium.
		Geogrids	Uni-Axial	Required for reinforced structures.
		Geomembranes	Polymeric or GCL's	Can be employed selectively as infiltration control elements.
		Erosion Control Blankets	Temporary bio-degradable protection	Surface protection of topsoil and seed immediately following installation.
	ATRA® Wall Keys		Tan or Green	Wall keys are colored matched to front fascia.
	Anchor Systems		Soil-nail anchors	Anchor type depends on geometry and global stability.
	Surface Treatments		Various	See front fascia infill recommendations above.

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GEOWEB® EARTH RETENTION SYSTEM COMPONENTS GUIDELINE

GEOWEB® Cellular Confinement System			COMPOSITE SOIL-REINFORCED STRUCTURES	
			Recommended Material Types	Applications, Functions, Benefits and Design Considerations
GEOWEB Section	Section Length		Custom	Wall sections are available to meet the need of the design.
	Cell Size		GW30V and GW40V	Adequate confinement strength is provided by the cells for typical applications;
	Cell Depth		6 in (150 mm) and 8 in (200 mm)	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.
The Infill	Topsoil & Vegetation		Local soils and vegetation	Recommended for front fascia cell infill when natural vegetated appearance is needed.
	Aggregate		Sands, gravels, and rock	Recommended for general infill and backfill of gravity structures. Infill material must be free draining.
	Concrete		Ready-mix	Recommended for front fascia cell infill when severe hydraulic stresses are anticipated. This applies to high stream flow velocities and wave action.
Other Components	Geosynthetics	Geotextiles	Non-woven and high strength wovens.	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	Uni-Axial	Soil reinforcement.
		Geomembranes	Polymeric or GCL's	Can be employed selectively as infiltration control elements.
		Erosion Control Blankets	Temporary bio-degradable protection	Surface protection of topsoil and seed immediately following installation.
	ATRA® Wall Keys		Tan or Green	Wall keys are colored matched to front fascia.
	Anchor Systems		Soil-nail anchors	Anchor type depends on geometry and global stability.
	Surface Treatments		Various	See front fascia infill recommendations above.

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GEOWEB® Cellular Confinement System			MULTI-LAYERED FASCIA STRUCTURES	
			Recommended Material Types	Applications, Functions, Benefits and Design Considerations
GEOWEB Section	Section Length		Custom	Wall sections are available to meet the need of the design.
	Cell Size		GW30V and GW40V	Adequate confinement strength is provided by the cells for typical applications;
	Cell Depth		6 in (150 mm) and 8 in (200 mm)	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.
The Infill	Topsoil & Vegetation		Local soils and vegetation	Recommended for outer cell infill when natural vegetated appearance is needed.
	Aggregate		Sands, gravels, and rock	Recommended for general infill and backfill of gravity structures.
	Concrete		Ready-mix	Recommended for front fascia cell infill when severe hydraulic stresses are anticipated. This applies to high stream flow velocities and wave action.
Other Components	Geosynthetics	Geotextiles	Non-woven and high strength wovens.	Non-woven geotextile encapsulation of backfill zone provides a drainage and soil filtration medium.
		Geogrids	Uni-Axial	Soil reinforcement.
		Geomembranes	Polymeric or GCL's	Can be employed selectively as infiltration control elements.
		Erosion Control Blankets	Temporary bio-degradable protection	Surface protection of topsoil and seed immediately following installation.
	ATRA® Wall Keys		Tan or Green	Wall keys are colored matched to front fascia.
	Surface Treatments		Various	See front fascia infill recommendations above.