

KEY NOTE



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SITE CIVIL IMPROVEMENT ➤ EROSION CONTROL ➤ SURFACE WATER QUALITY

Geopro® Learning Tool

September 2010

GEO VERDE™ Fasciae - When “Green” Means Green

Stunning landscapes, visual softness and structurally sound fasciae are no longer mutually exclusive design goals for reinforced soil walls and steep slopes. **Geo Verde™** units combine custom growth mediums, conventional engineering tie-back principals and simple installation steps to enable development and long-term vitality of dense, vegetated fasciae. If going “Green” has been a challenge in having ‘green’, overcome the obstacles with **Geo Verde** units.

Geo Verde units use a geotextile bag to permanently confine select growth mediums, giving the mediums shape and support during installation, allowing rain or irrigation waters to penetrate into the medium and enabling excessive water to escape through the fascia without corresponding erosion. The geogrid extension locks the bag and medium



Picture 1: slope surface treatment behind foreground landscape focus

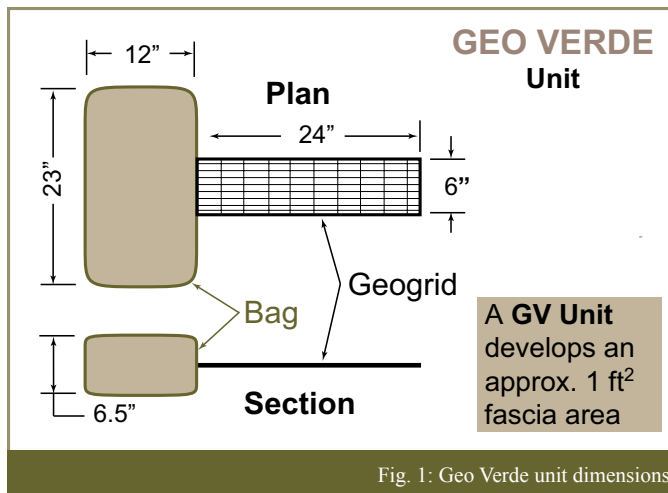


Fig. 1: Geo Verde unit dimensions

to the adjacent soil, ensuring fascia stability and long-term wall ‘shape’ maintenance. These extensions allow taller structures or greater overburdens without subsequent primary reinforcement - resulting in cost savings on many projects. Finally, the composite bag and geogrid allow the **Geo Verde** units to achieve any slope or wall steepness, including vertical inclinations.



Picture 2: slope surface after bag placement

Vegetation selection is literally a function of the designer’s imagination given the geometrical, climactic and maintenance project requirements. Plant placement within the fascia system is not limiting to species selection either



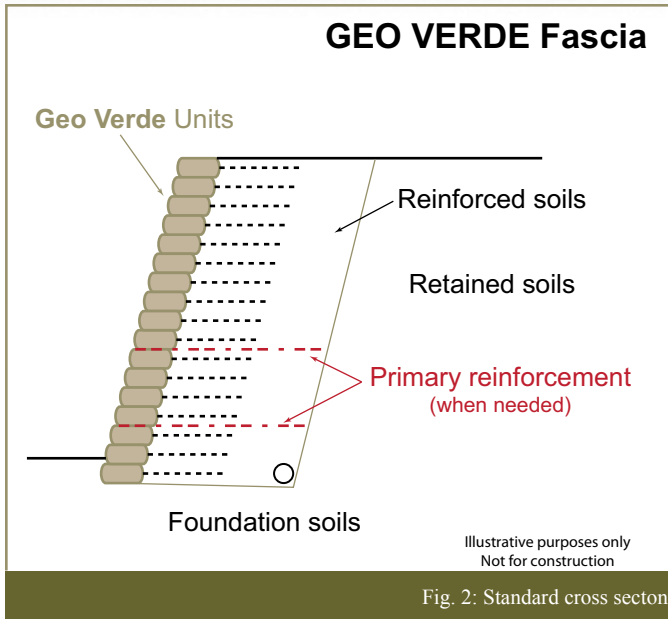
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Picture 3: slope surface after mrytle sprigging



Picture 4: mature mrytle coverage of Picture 3

as seed can be mixed within the medium or hydraulically applied to the completed fascia, plugs and live staking may be applied through the bags or brush layering between bags is possible. Similarly, soil mediums used within the **Geo Verde** units may be customized to meet specific plant species needs, resulting in excellent plant growth and long-term vitality. In essence, **Geo Verde** units offer versatility to the plant selection process.

Price and Company offers delivered **Geo Verde** units either with or without growth medium pre-filling. Both pre- and on-site filling, in addition to growth medium selection, result in slight variations in unit weight and in-place dimensions. Nominal unit characteristics are:

1. Accommodates one square foot [1 sf] of wall face,
2. Weighs 80 lbs, and
3. Offers 12" of growth medium behind the face.

Designers of **Geo Verde** fascia systems can continue to use conventional engineering standards for soil reinforced structures, e.g., AASHTO, NCMA, ACE, Bishops Modified, etc., while accommodating the desirable performance characteristics associated with the **Geo Verde** units.

Contact your *Price and Company* **Regional Representative** for additional information regarding **Geo Verde** slope and wall fascia units. Visit our website for more details pertaining to any of our erosion control, site civil improvement and surface water quality products, related technologies and design methodologies.

