EVERGREEN®

GEO RETAINING WALL

EVERGREEN GEO wall offers maximum (spacious) planting conditions anywhere at low cost walls prices:

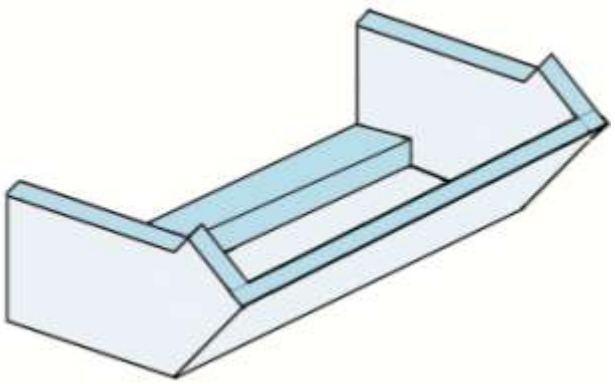
EVERGREEN GEO walls sit on a crushed-rock-foundation improvement or individual concrete slabs.

- ***The big units (40 sf wall facing) handle easily and achieve a maximum efficiency:***
  - for casting, - for handling, - for setting and - for easy filling.

Great Systematic Efficiency!

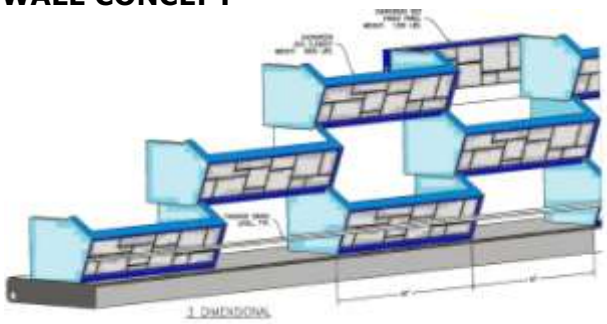
STRUCTURAL WALL CONCEPT

- **Planted Retaining Walls with**
- **open Cribs mounted in chess pattern**
- **providing large planting spaces**
- **at segmental wall type cost.**



EVERGREEN GEO UNIT

WALL CONCEPT



- **Lightweight units, easy to handle (only 3500 lbs, 1500 kg).**
- **They are very stiff by structural nature of a shell.**
- **Set them in a chess pattern.**
- **For achieving big planting pockets.**
- **Reduce cost to 50% because of the large openings.**

WALL ERECTION

- **Cast individual foundation patches at required elevation.**
- **Easy handling of units on site.**

TYPICAL BOTTOM LAYER

- **Set the units along the string.**
- **Adjust bottom layer of units.**

EARTHWORKS

- **Fill units, then backfill behind.**

CONSTRUCTION SITE

- **Backfill and compact from behind.**
- **Fill topsoil into front pockets.**
- **Compact with light compactors in and within 3 ft., 1m behind units.**

COMPLETED WALL IN A BEND

- **Ready for planting**

SPECIFICATIONS + INSTALLATION

Precast concrete units fabricated and delivered from the manufacturing plant to the site including transport for building retaining walls, separation walls beneath or above highways and railways and for bridge abutments, and for carrying bridge girders.

The precast concrete units are made of high class concrete 5000 psi standard compressive strength, BN 35 and grade 60 reinforcing steel, type B450A and type B450C, or fc=412, and epoxy coated reinforcing steel in marine environment.

The actual retaining wall units are designed and dimensions selected for the local geotechnical conditions, the soil pressure loads, traffic loads, and foundation requirements for fulfilling the applicable codes using minimum safety factors against sliding, overturning, and bearing capacity.

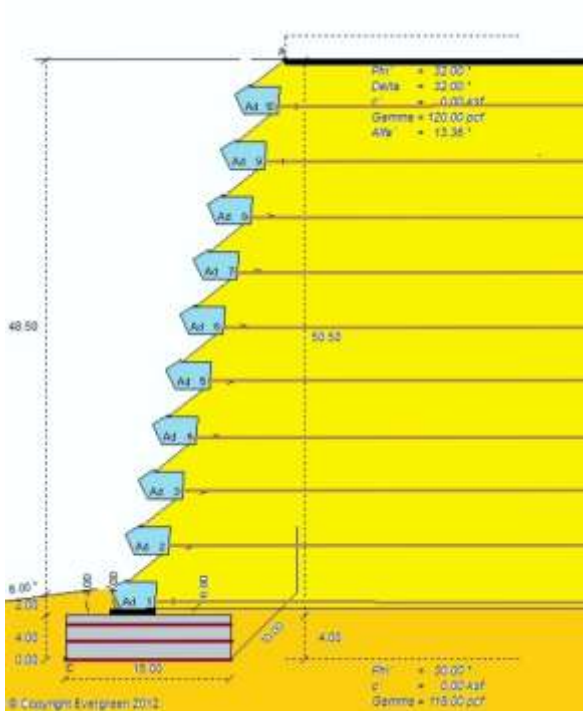
Not part of the unit delivery is:

- Site surveying and geotechnical investigations,
- Site longitudinal and transverse sections,
- Drainage concept, scheme, specifications,
- Wall design calculations, typical sections,
- Wall elevations and plan views,
- Construction control supervision during erection, filling, and compaction.
- Quality control and surveying.

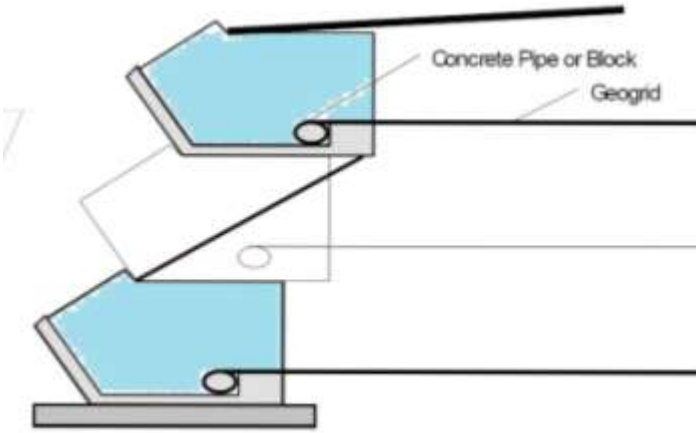
The wall structures must be fabricated and erected according to the Evergreen fabrication, transportation, and erection instructions.

The contractor must have a NPCA quality control certification.

Raststatt GEO Wall after Construction



Type of Design Analysis



Typical Geogrid Connection to GEO

Evergreen GEO Retaining Wall (2 miles long) near Raststatt, Mannheim, Germany

Evergreen GEO: Motorway Bridge Abutment, wall built in Japan along Highway Tokyo - Osaka

Evergreen GEO Wall built in Japan

Same wall with Spring Flowers

Evergreen Wall after 2 years

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