

Canada's leader of complete geosynthetic solutions

 **ONTARIO AGRA**
PIPING & SUPPLIES INC.

TerraFort Panel Wall System

Concrete Panel/Geogrid Reinforced - Retained Soil System (RSS)

To view our complete product line visit us at www.ontarioagra.ca

TerraFort Panel Wall System

The best in performance and appearance



Retained Soil System (RSS) walls are literally structures where the soil mass is reinforced such that it functions as a gravity wall. The soil and the reinforcement become an integral unit providing a stabilized block. TerraFort Panel Walls combine the best in reinforced concrete durability and geogrid/soil reinforcement. DOTs, municipalities, engineers and contractors worldwide know the advantages of Concrete Panel RSS wall systems.

TerraFort Wall System Advantages



Non-Corrodible Reinforcement

TerraFort gets its strength from Uniaxial HDPE Geogrids. These geogrid layers work to stabilize the backfill material and create a reinforced mass of granular soil. Because no metallic materials are used in the reinforced backfill, TerraFort is an ideal wall system for applications that involve corrosive soils, electrified rail, coastal waterways and transformer platforms.



Full Height Panels – available up to 10 m high

The use of polymer reinforcement in the soil backfill has allowed for the successful design and performance of full height panel systems. Full height panels allow for fast, straightforward and easy installation. The difficulty experienced in aligning segmental panels is eliminated. The panels go up as one full height piece with no horizontal joints to worry about. Alignment is so much easier!

Furthermore, construction is simplified and fast! All of the panels can be erected and braced in one operation prior to the backfilling process. This means that the cost of a crane can be significantly reduced. Likewise, the use of other lifting equipment can be focused on a single operation for a shorter period of time.

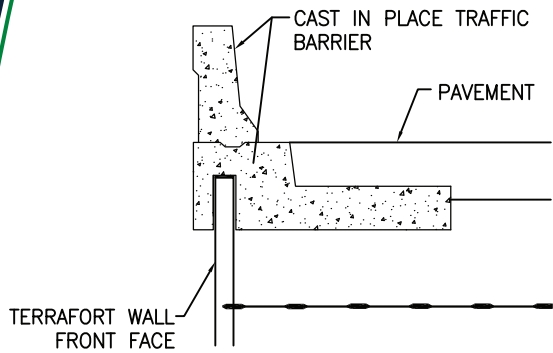


Pleasing Aesthetics

Precast concrete offers many options for architectural finishes. TerraFort panels can be supplied with almost any available form liner finish.

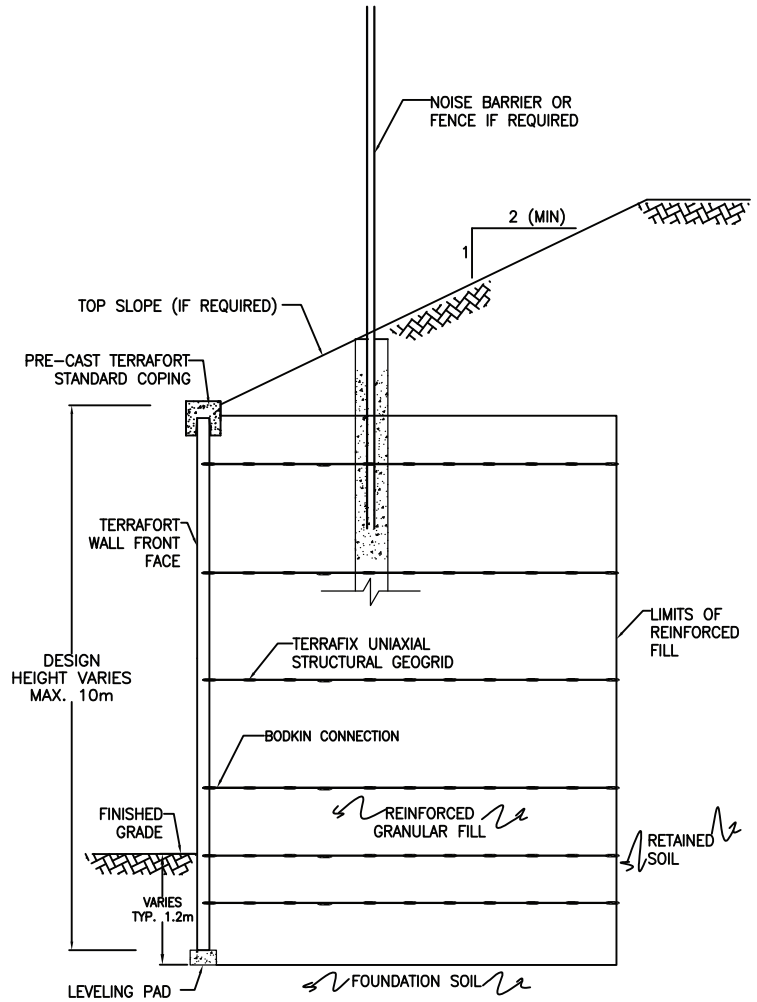


TerraFort Wall System Design

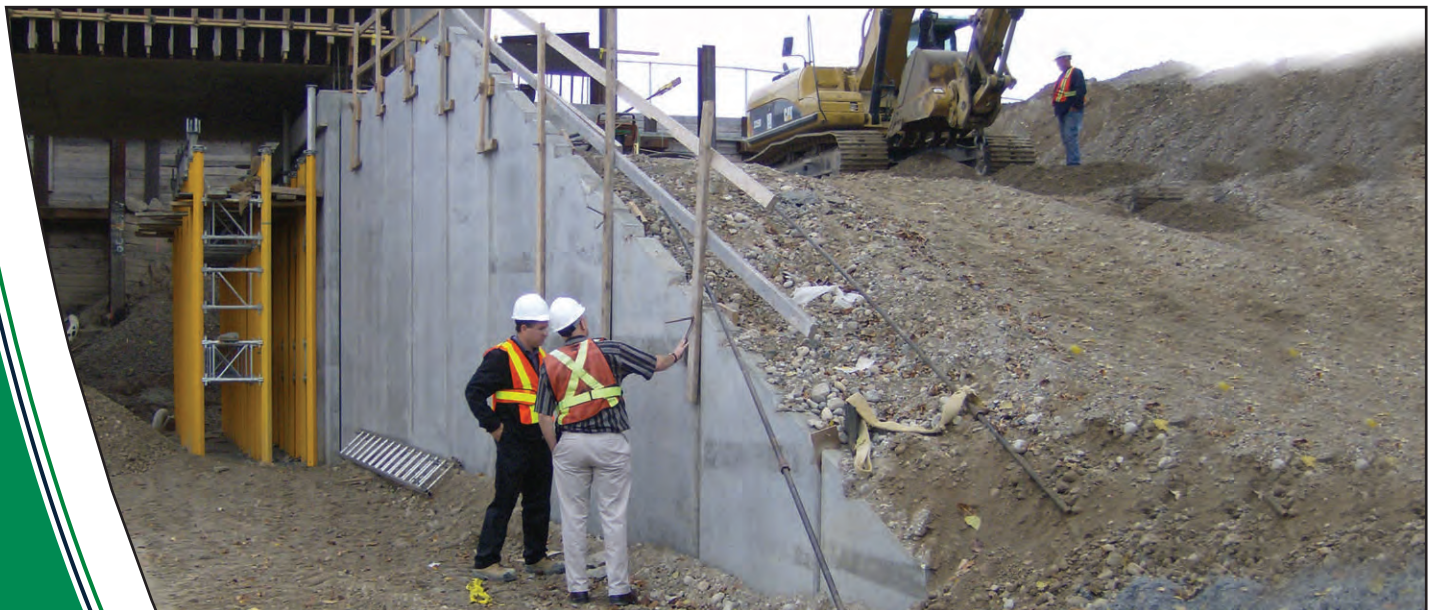


WITH TRAFFIC BARRIER

We provide complete design services for TerraFort wall systems. From feasibility study and preliminary design through to stamped construction drawings, we can help you achieve your project goals.



TYPICAL CONFIGURATION OF TERRAFORT WALL



Time-Saving Construction



Step 1 - Prepare subgrade and cast footing/leveling pad



Step 2 - Place and brace panels



Step 3 - Connect and place geogrid



Step 4 - Backfill and compact

We provides on-site assistance to ensure a successful installation. A complete installation guide is available upon request.

Layout options to suit your project needs



Curved Walls



Sloping Top with Handrail



Noise Barriers



Traffic Barrier & Fence

Two Stage Wall Construction



It is possible to build a retaining structure in a settlement prone area without over-spending. Pile-supported cast-in-place structures, temporary surcharging, or supercompacted foundations are time-consuming and expensive. TerraFort Two-Stage Construction can provide engineers and architects with a faster, more affordable strategy when site conditions pose settlement problems for many settlement prone foundation soils.

The system consists of an RSS structure with a stage-one flexible facing and a stage-two-permanent concrete facing.

TerraFort Concrete Panel Wall systems can also tolerate differential settlement of the foundation better than generally assumed. Settlement of 1 in 100 or better is achievable with no adverse impact on the structural integrity of the system.



Stage One: RSS Accommodates Settlement

The RSS structure (such as TerraSteep) is first installed. The strong, flexible geogrid components reinforce the fill within the wall and provide an initial facing that accommodates settlement during construction.

Stage Two: Permanent Facing is Added

After settlement has occurred, a permanent concrete facing is attached to, or cast adjacent to the RSS structure. Facing options can include cast-in-place concrete, TerraFort Full-Height Panels or other possibilities.



TerraFort Panel Wall System

Concrete Panel - Retained Soil System (RSS)

Innovation and Experience

We have many years of experience helping our clients solve grade separation challenges. We gladly work with engineers, contractors, developers and owners to show them how TerraFort can offer the best in performance and appearance for their project. Call us today, we are here to help.

we also design and supply steep, vegetated slope systems. Just let us know the parameters of your project and we will show you a solution for almost any grade separation challenge.

You can also check us out at www.ontarioagra.ca



Canada's leader of complete geosynthetic solutions

We have been dedicated to offering owners, engineers and contractors the correct choice of geosynthetic products and innovative technology. Long recognized as an innovator in the industry, we now offer services which include design assistance, factory fabrication and installation of a wide range of geosynthetic challenges.

Our professional staff of salespeople, field technicians, project managers and engineers are available to assist clients in maximizing the benefits that our geosynthetic products and systems make possible. We provide you, the engineer, contractor, and owner with technically sound cost saving solutions to your challenges.

- Geosynthetic Clay Liners provide an excellent sealing layer to provide containment of liquids and solids.
- Geodrains provide effective collection and reliable flow capacity of fluids and gases found in various soil structures.
- Geogrids reinforce construction fill materials allowing berm, retaining wall and road construction at reduced cost.
- Geomembranes prevent leachate from contaminating the subsoil in sanitary and hazardous waste landfills.
- Geotextiles solve erosion, drainage, filtration and stabilization problems.
- Biodegradable erosion blankets help establish vegetation and prevent erosion from wind and rain.
- Silt fences help to contain silt runoff from construction sites.
- HDPE Pipe is ideal for storm water applications including culvert relining and buried tanks.
- Storm Water Management applications also include Quality and Quantity solutions.

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