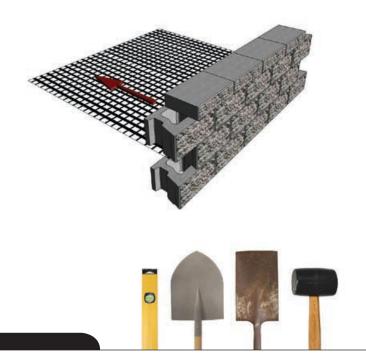
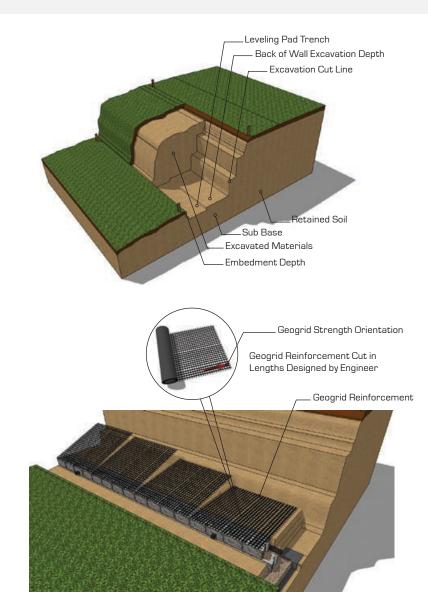


Where gridlock is a good thing...

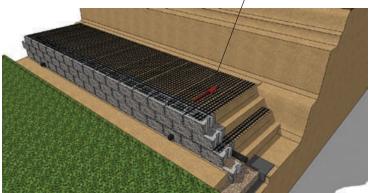
Creating a MiraStone reinforced wall system, involves the use of geogrids for reinforcement. MiraStone walls 4.0ft (1.2m) and higher will require reinforcements to withstand the active pressures that may be behind and on top of the wall. Parking lots, roadways, or positive slopes above walls for example, require the use of reinforcement to help resist the increased pressure behind the wall. Geogrid used with the appropriate lengths, layers, and compacted backfill materials will resist these active forces above and behind the wall.



Geogrid Wall



___ Correct Geogrid Orientation





> > > STEP 1 PLANNING

• Excavate and prepare **Sub Base Leveling Trench** 6" below first course

MIRASTONE

• **Leveling Pad Trench** is approximately 2.5' to 3' wide

 Normal wall Burial Depth or Embedment Depth is 6" to 12" or one block (for more information refer to design manual)

· Excavate cut line to a 2 to 1 slope or greater

• Back of wall excavation depth into the bank at the base of the wall should be from the face of wall to the designed length of **Geogrid**

> > > STEP 2 CUT GEOGRID

 Cut Geogrid Reinforcement to the length specified in the design

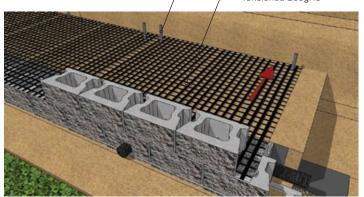
 Geogrids are manufactured in two directions Uni-axial or Bi-axial. Uni-axial grid has one direction of strength and that direction has to be oriented perpendicularly to the face of the wall during installation. Bi-axial grid can be laid in two directions, perpendicular and lengthwise to the face of wall (ensure that the lengthwise direction is still in accordance to the length specified by the Engineer's design)

• Correct geogrid orientation, strength and length is crucial to the success of the wall project

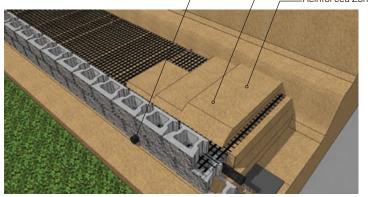
• Each geogrid length should be laid parallel and adjacent to each other but never overlapping

Geogrid Wall

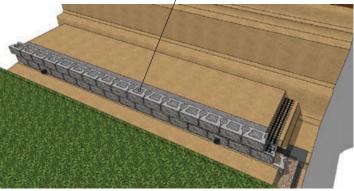
MIRASTONE



Drain Pipe Outlet 6" Lifts



__ Clear Crush Drain Gravel



. Geogrid Elevations Set to Engineer Design



CORNERSTONE WALL SOLUTIONS INC. www.cornerstonewallsolutions.com

> > > STEP 3 Lay geogrid

 Place the geogrid as far forward on the MiraStone[™] units as possible without revealing it on the face

 Place the next course of MiraStone[™] units on top of the lower units and geogrid at a half bond

• The two **SecureLugs** will fit securely into the hollow cores of the two units below and lock the geogrid into the gravel core

• Pull the unit forward to engage and align the **SecureLugs**

• Complete the installation of units on the **Geogrid Reinforced** courses

 \cdot Make sure each unit is installed against the next unit leaving no gaps between unit joints

• Tension the geogrid in such a way as **NOT** to disturb the alignment of the upper units

· Use stakes or backfill materials to maintain the tension during backfilling

 \cdot Do not drive equipment directly on top of geogrid

> > > STEP 4 REINFORCED BACKFILL

• Backfill and Compact the Reinforced Zone by placing materials from the back of the wall towards the end of the geogrid

• Install drainage gravel in the cores and 6" to 12" behind the units after placing and compacting backfill materials

• Install and compact backfill materials in 6" Lifts until wall is complete