Stoneledge™ Installation Guide

>>> Gravity/GEOGRID

Engineered for strength... designed for beauty
Design Advantage

- StoneLedge™ units are made from high compression and low-absorption concrete, providing durability and resistance to weathering.
- StoneLedge™ small hollow core reduces efflorescence problems and the use of costly cements and pigments.
- StoneLedge™ units provide excellent solutions for gravity, geogrid reinforced, battered or vertical, plantable and other types of wall structures.
- StoneLedge™ provides superior flexibility in creating curves, corners, steps, double-sided and terraced walls.

Installation Advantage

- A small crew can easily install 200 to 500 square feet of wall units a day.
- One person can easily handle the 3 sized light weight StoneLedge™ units.
- The dual positioned easy-to-use high strength connectors outperform other systems, speeding up installation time considerably.
- The 3 sized StoneLedge™ system, including the corners, are manufactured on one mold which insures that each unit has near perfect height tolerances.

Creative Advantage

- The 3 sized, wedge like tapered sides and double sided texture, StoneLedge™ is a system that gives the end user endless creative options.
- The double-sided 3 unit StoneLedge™ system allows the creation of a unique 6 size “Ashlar” look when units are placed in a random horizontal and vertical pattern.
- Pillars and free-standing walls can create a courtyard fence around patios or along property lines.
- The multi-positioned, easy-to-install, connectors give the end user design creativity in adding jumpers or shadow units that give the wall added texture.
- With the variety of colors and hand finished look of quarried stone, StoneLedge™ blends naturally with plantings, waterscapes, lighting and other landscape features.
Installation Step by Step

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Gravity (SRW) segmental retaining wall systems are structures lower in height that use the StoneLedge™ unit weight combined with gravel core infill to resist earth pressures behind and on top of the wall. The 1/2”/unit (4.5 degree or 1”/vertical foot) batter or setback of the StoneLedge™ wall along with proper soil conditions below and behind the wall provide the stability of the structure. For walls 3.5ft (1.07m) and taller a qualified engineer should be consulted.
**STEP 1**

**PLANNING**

- Mark the bottom and top of the wall excavation location with spray paint or stakes
- Establish proper elevation bottom and top of wall before excavating
- Organic Materials should not be used in Structural Backfill Zone
- Store and protect Structural Backfill Materials from inclement weather during construction

**STEP 2**

**EXCAVATION**

- Excavate and prepare Sub Base Leveling Pad Trench 6’ below first course
- Leveling Pad trench is approximately 2.5’ to 3’ wide
- Normal wall Burial Depth or Embedment Depth is 6” to 12” or one block
- Excavate cut line to a 2 to 1 slope or greater
- Back of wall excavation depth into the bank should be 12” beyond the back of the Sub Base Leveling Trench

**STEP 3**

**SUB BASE COMPACTION**

- Compact Sub Base to 95% Standard Proctor Density or greater
- Remove any Organic or poor soils in the Sub Base and replace with proper Structural Fill Materials before compacting
**STEP 4**

**BASE STABILIZATION**

- (Optional) place 5’ to 6’ wide **Base Stabilization Fabric** on top of leveling pad trench

- **Base Stabilization Fabrics** will help prevent sub base materials from mixing with the gravel base leveling pad during compaction

- Fabric also provides extra **Structural Bearing Stability** to the base leveling pad

**STEP 5**

**ROUGH LEVELING PAD**

- Place **Well Graded Gravel** (also known as Road Base Aggregates) on top of fabric in the leveling pad trench approximately 6” deep

- Rough grade gravel with a rake close to finish base elevation

**STEP 6**

**COMPACT LEVELING PAD**

- Compact the **Gravel Leveling Pad** to 95% **Standard Proctor Density** or greater

- Correct **Moisture Content** in the gravel will help in reaching proper compaction
STEP 7

LEVEL SCREED PIPES

- Place first 3’ long Screed Pipe across the trench at one end of the wall or at the lowest elevation
- Scratch a trench for the pipe in the compacted gravel with a chipping hammer
- Use a 2’ level or Laser Level to set the Screed Pipe to the proper level
- Gravel is added underneath and around the Screed Pipe to support while leveling
- Place the second Screed Pipe across the trench approximately 9’ from the first Screed Pipe
- Level the second Screed Pipe to the same elevation as the first Screed Pipe by using a 4’ level on top of a Screed Board, Straight Edge or with a Laser Level
- Continue to place and level Screed Pipes the full length of the trench leveling pad or until reaching a base elevation change

STEP 8

EXTRA GRAVEL

- Place or remove extra Well Graded Gravel (also known as Road Base Aggregates) level to the top of the Screed Pipes as needed
- (If more than 1 ½ inches of loose gravel is added, repeat the compaction steps again before screeding)

STEP 9

SCREEDING LEVELING PAD

- Screed the gravel leveling pad with a Screed Board or Straight Edge across the trench on top of two Screed Pipes
  - The coarser the gravel the more back and forth the screeding action when drawing the Screed across the leveling pad
  - Too much pressure on the screed straight edge may dislodge the level of the Screed Pipes while screeding
  - A second screed pass may be needed to insure an accurate level has been achieved
  - Continue to screed the leveling pad until completing the full length of the trench or up to the first elevation change
**STEP 10**

**BASE COURSE PATTERN**

- Place the StoneLedge™ units in a random ashlar pattern using the 3 sizes in the same ratio as they come in each pallet.
- The StoneLedge™ units will have the connector holes facing up with the connector slots facing down.
- Place each unit on top of the leveling pad in such a way as not to disturb the level gravel.
- Continue to install the StoneLedge™ base units until the length of the wall or the first elevation change of the base occurs.

**STEP 11**

**USING A JUMPER**

- To install a Jumper unit, the StoneLedge™ flag connector is placed in the back holes of the lower units. The 12" standard unit is turned on end in the wall with the back of the unit resting on the back flag connector.
- To insure a random stagger pattern, cross the vertical joints as often as possible throughout the wall.

12" Standard Unit [Jumper Unit]
The StoneLedge™ wall can be built in a batter (setback), vertical position, or shadow (multi-setback).

- Place the flag connectors in the forward connector holes with the flag in the back position to create a batter or rotate the flag forward to create a vertical wall.
- Place the flag connectors in the forward connector holes or back connector holes with the flags in a back or forward position to create a random Shadow (multi-setback) wall.
STEP 13
Lay First Course

· Remove the Screed Pipe from the leveling pad.

· Place a steel stake or a StoneLedge™ unit at either end of the leveling pad to establish the back of the first course of units.

· Secure tightly a string line to the stakes or StoneLedge™ units at either end which will provide the guide to line up the back of each StoneLedge™ base unit.

· Connector holes can also be used for aligning units if back of units are to irregular.

· The distance of the string line between the steel stakes or StoneLedge™ units may vary due to heavy winds.

STEP 14
Level Units

· Units are laid snug together and parallel to the straight or curved line.

· A rubber mallet should be used if unit height and alignment adjustment is needed.

· Use a short 2’ level to make sure the units are level front to back.

· Use a 4’ level to make sure the units are level unit to unit along the length of the wall.

· Correct batter and straight horizontal lines in the completed StoneLedge™ wall depend on the accuracy of the base leveling pad and units.
**STEP 15**

**IMPERMEABLE FILL**

- Backfill behind, in front (toe of wall) and in the hollow cores of the units with Impermeable Materials up to the desired level of the Perforated Drain Pipe or to the top of the first course.
- Compact the Impermeable Materials behind, in front and in the hollow cores of the units.
- Sweep the top of the units clean of all rock and dirt before placing the next course of units.

**STEP 16**

**DRAIN PIPE OUTLET**

- Perforated Drain Pipe should have adequate slope to drain water in the right direction towards each Drain Pipe Outlet.
- Drain Pipe Outlet can be every 30 or 50 feet.
- Perforated Drain Pipe can be a Sock Wrapped system to help prevent fines from migrating into the pipe.

**STEP 17**

**BACKFILL**

- Place and compact Backfill Materials in maximum Lifts of 6”.
- Lifts may be less than 6” depending on the type of soil or size of equipment.
- Backfill materials will be placed 12” behind the units allowing for Clear Crush Drain Gravel (Angular Aggregates free of fines) between the StoneLedge™ units and compacted Backfill Materials.
- By adding Clear Crush Drain Gravel (Angular aggregate free of fines) after compaction of the Backfill Materials, this will prevent undue pressure against the wall which can cause the units to move out of alignment.
- Each Lift should be compacted to 95% Standard Proctor or greater.
- The correct Moisture Content in the Backfill Materials will help in reaching proper Compaction Density.
STEP 18
DRAINAGE GRAVEL

- Clear Crush Drain Gravel (Angular Aggregates free of fines) is placed in the hollow cores and 12” behind the wall units after compaction of the Backfill Materials. This will prevent undue pressure against the wall which can cause the units to move out of alignment.

- Clear Crush Drain Gravel does not need to be compacted.

- Sweep the top of the StoneLedge™ units clean of all rock and dirt before placing the connectors and next course of units.

- Make sure the Clear Crush Drain Gravel directly behind the wall units is placed flush to the top of the units.

- Make sure the Backfill Materials are as well compacted and level as possible.

STEP 19
CONTINUE INSTALLATION

- Continue to install each course of units and connectors following the same steps as above.

- Install and compact Backfill Materials in 6” Lifts until wall is complete.

- Grout around Drain Pipe Outlet to prevent Clear Crush Drain Gravel or Drainage Aggregates (Angular Aggregates free of fines) from migrating.
STEP 20
CAPPING
- Complete the top of the wall with StoneLedge™ cap units
- Properly secure the cap units using a Concrete Adhesive
- Make sure all units are free of dirt and stones before installing the caps
- Place a solid bead of Concrete Adhesive around the top of each StoneLedge™ unit
- Place a bead of adhesive between each joint of the cap units

STEP 21
SOIL SEPARATION FABRIC
- Place a 6 ft wide Soil Separating Filter Fabric on top of the backfill and drainage gravel and against the back of the last units before placing the planting soils
- The fabric will prevent planting soil fines from staining the face of the wall and migrating into the Clear Crush Drain Gravel (Angular Aggregate free of fines)

STEP 22
FINAL GRADING
- Insure that final grading is done on top and bottom of the wall
- Make sure to protect newly placed planting soil from erosion during heavy rains or surface runoff

*Final determination of the suitability of the contemplated use, and its manner of use are the sole responsibility of the user*
Creating a StoneLedge™ reinforced wall system, involves the use of geogrids for reinforcement. StoneLedge™ walls 3.5ft (1.07m) will require reinforcements to withstand the active pressures that may be behind and on top of the wall. Walls smaller than 3.5ft (1.07m) may also require geogrid reinforcement depending on other related factors. 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. For walls 3.5ft (1.07m) and taller a qualified engineer should be consulted.
STEP 1  
**Planning**

- Excavate and prepare **Sub Base Leveling Trench** 6” below first course
- **Leveling Pad Trench** is approximately 2.5’ to 3’ wide
- Normal wall **Burial Depth** or **Embedment Depth** is 6” to 12” or one block
- 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
- Place the **StoneLedge™** flag connectors through the **Geogrid** apertures and into the front connector holes
STEP 3
Lay Geogrid

- Place the Geogrid as far forward on the StoneLedge™ units as possible without revealing it on the face
- Place the next course of StoneLedge™ units on top of the connectors, lower units and Geogrid
- Pull the unit forward to engage and align the units
- Complete the installation of units on the Geogrid Reinforced courses
- 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
- 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 12” behind the units after placing and compacting backfill materials
- Install and compact backfill materials in 6” Lifts until wall is complete
This section provides detailed, illustrated step-by-step instructions for using StoneLedge™ to construct: inside curves, outside curves, elevation changes, and both inside and outside corners.

Curves, corners and elevation changes are construction details that are often required for specific sites and can be specified by designers and engineers. Correct construction and professional completion of these wall details greatly enhances the visual appeal of the finished project and avoids the time and costs associated with improper installation.
STEP 1: BASE ELEVATION CHANGES

- The top of the installed base unit will be used to establish the step-up gravel leveling pad elevation.
- Make sure to backfill and compact the gravel in and around the last unit of the first course.
- Finished grade of the leveling pad should be an 1/8” to 1/4” above top of first course units to allow for a small amount of settlement.
- Repeat the above screeding steps on the second elevation gravel leveling pad.
- Place the first unit on the second course at a half bond on top of last and second last of the first course units.
- The connectors in the lower units will fit into the connector slot of the upper units. To align the wall, place a string line at the back of the units for a straight wall or place a PVC pipe for a curved wall.
- The connector holes of the second course can also be used for aligning units.
- Pull upper unit forward to engage and align units.
- The batter or set back will be 1/2”/unit (4.5 degrees or 1”/vertical foot) for a battered wall.
- Place the second unit half on the last unit and half on the second gravel leveling pad.
Convex/Outside Curves

> > > STEP 1
CONVEX FIRST COURSE

- If possible, start building a curve from the center and work left and right through the curve
- Use PVC Flex Pipes to create smooth and accurate Convex curves
- Use the back of the unit for alignment
- Convex curves have a slight increase in batter or setback to the standard 1/2” or vertical wall
- The taller the wall the larger the Convex first course needs to be. The radius of each additional course will be slightly smaller than the lower course

PVC Flex Pipe
First Course
Center of Curve
Radius 1.75’ (0.5m) Using StoneLedge™ 6” Units
Radius 2.5’ (0.8m) Using StoneLedge™ 6” and 12” Units
Radius 3.25’ (1m) Using StoneLedge™ 12” Units

> > > STEP 2
CONVEX GEOGRID CURVE

- Each Geogrid length should be laid perpendicularly to the wall face
- Geogrid should not overlap on the StoneLedge™ units
- Correct geogrid orientation, strength and length is crucial to the success of the wall project

Center of Curve
Start Center of Curve
Work Left
Work Right

+/- 3’ (75mm) Backfill Materials Between Geogrid Overlaps

Do Not Overlap Geogrid on StoneLedge™ Units
Concave/Inside Curves

> > > STEP 1
CONCAVE FIRST COURSE

- If possible, start building a curve from the center and work left and right through the curve
- Use PVC Flex Pipes to create smooth and accurate Concave curves
- Use the back of the unit for alignment
- Concave curves have a slight decrease in batter or setback to the standard 1/2” or vertical wall
- The taller the wall the smaller the Concave first course needs to be. The radius of each additional course will be slightly larger than the lower course

> > > STEP 2
CONCAVE GEOGRID CURVE

- Each Geogrid length should be laid perpendicularly to the wall face
- Geogrid should not overlap on the StoneLedge™ units
- To ensure 100% coverage, place a second layer of Geogrid centered to the unreinforced triangle zone one course above the main Geogrid layer
- Correct geogrid orientation, strength and length is crucial to the success of the wall project
Outside Corner

**STEP 1**

**OUTSIDE FIRST COURSE**

- Use a 90° Corner unit to build an outside corner
- Place the first 90° Corner unit on the base leveling pad to start the outside corner
- Place a StoneLedge™ unit on either side against the 90° Corner unit
- Continue to lay the StoneLedge™ base course on either side of the corner until first course is completed
- Flip and turn the second course 90° Corner overlapping the short side and half of the StoneLedge™ base unit. This unit should be pushed back 1/2" for a 4.5 degree batter or vertical for a 0 degree batter to achieve proper setback
- Continue to lay the StoneLedge™ second course on either side of the corner until second course is completed
- The 90° Corners can be glued or concrete core filled to ensure a proper course to course outside corner interlock

**STEP 2**

**OUTSIDE GEOGRID CORNER**

- Each Geogrid length should be laid perpendicularly to the wall face
- Geogrid should not overlap on the StoneLedge™ units
- Lay the 1st Geogrid corner section perpendicularly to one side of the corner
- Lay the 2nd Geogrid section perpendicularly to the other side of the corner but not overlapping the 1st Geogrid section
- Lay the secondary Geogrid layer one course above and perpendicular to the lower main Geogrid layer directional strength
- Correct geogrid orientation, strength and length is crucial to the success of the wall project
Inside Corner

**STEP 1**

**INSIDE FIRST COURSE**

- Place the second unit at right angle and centered to the first StoneLedge™ base unit. Continue to install the StoneLedge™ base units right and left of the first inside corner units.
- Place the second unit at right angle and centered to the 1st unit on the second course.
- Make sure second course units are placed at a 1/2” (4.5 degree for a batter or vertical for a 0 degree batter) to achieve setback to the lower inside corner.
- Continue to install the units left and right of the inside corner to complete the second course of the wall.
- Repeat the above step by step installation until the wall height is completed or until reaching the first Geogrid layer.

**STEP 2**

**INSIDE GEOGRID CORNER**

- Each Geogrid length should be laid perpendicularly to the wall face.
- Geogrid should not overlap on the StoneLedge™ units.
- Lay the 1st Geogrid corner section perpendicularly to one side of the corner and overlap h/4 through the backfill (Height of Wall + 4).
- Lay the 2nd Geogrid section perpendicularly to the 1st Geogrid.
- Lay the second Geogrid layer perpendicularly and overlap h/4 through the backfill opposite to the first Geogrid layer.
- The h/4 overlap will alternate layer to layer to properly secure the inside corner.
- Correct geogrid orientation, strength and length is crucial to the success of the wall project.
Proper installation of building stairs requires the same care and thoroughness as the creation of the wall itself. StoneLedge’s design features including the hollow core and multi-sized units simplify the process and provide installers with a range of options to create stairs that are striking and unique. This section provides illustrated step-by-step instructions for using StoneLedge™ to construct stair details.
STEP 1
Lay First Course
- Prepare the sub-base and base leveling pad by following Gravity StoneLedge™ Installation Steps 1 to 9
- Build each step in sequence with each course of the regular wall units for best results of wall to step interlock
- First course of step units will be totally buried
  - Backfill behind the first course units with gravel, then compact and level flush to the top of the first course
Option: unit cores can be filled with concrete for greater stability

STEP 2
Lay Second Course
- Place the second course of units on top of the base units with connectors in a batter position
- Place a second row of buried units in the back of the second riser units
- Backfill behind the second course of units with gravel, then compact and level flush to the top of the second course

STEP 3
Lay Third Course
- The third course units will be in a batter approximately .5 inch leaving 10.5 inches exposed on the front first step
- Place a third row of buried units in the back of the third riser units

STEP 4
Continue Installation
- Continue to install each course of step units following the same steps as above
- The top and final step does not need buried units

STEP 5
Stair Treads
- StoneLedge™ 12 inch deep cap units can be used as a stair tread
- Option: Pavers, Patio Slabs or Natural Stone can also be used as a stair tread
- Use concrete adhesive to attach Step Caps
STEP 1
LAY FIRST COURSE
- Prepare the sub-base and base leveling pad by following Gravity StoneLedge™ Installation Steps 1 to 9
- Build each step in sequence with each course of the regular wall units for best results of wall to step interlock
- First course of step units will be totally buried
  - Backfill behind the first course units with gravel, then compact and level flush to the top of the first course
Option: unit cores can be filled with concrete for greater stability

STEP 2
LAY SECOND COURSE
- Place the second course of units on top of the base units with connectors in a batter position
- Place a second row of buried units in the back of the second riser units
- Backfill behind the second course of units with gravel, then compact and level flush to the top of the second course

STEP 3
LAY THIRD COURSE
- The third course units will be in a batter approximately .5 inch leaving 10.5 inches exposed on the front first step
- Place a third row of buried units in the back of the third riser units

STEP 4
CONTINUE INSTALLATION
- Continue to install each course of step units following the same steps as above
- The top and final step does not need buried units

STEP 5
STAIR TREADS
- StoneLedge™ 12 inch deep cap units can be used as a stair tread
- Option: Pavers, Patio Slabs or Natural Stone can also be used as a stair tread
- Use concrete adhesive to attach Step Caps
Pillars add a finishing touch of elegance to any StoneLedge™ wall project. They can be used to create distinguished entrance ways to any residence or business and the unit’s hollow cores greatly simplify the placement of lighting in the pillars. This section provides simple instructions for the creation of multi-size pillars.
STEP 1  
LEVELING PAD

- Ensure that you have properly installed your base leveling pad. For a proper leveling pad, concrete or Well Graded Gravel (also known as Road Base Aggregates) can be used.
  - It must be a minimum of 8" thick.
  - Once completed, place and level the StoneLedge™ unit blocks as shown.

STEP 2  
SECOND COURSE

- Flip and turn the second course corner units upside down to create an overlapping bond.
  - Place second course of the StoneLedge™ corner units directly on top of the first course.
  - Clear Crush Drain Gravel (Angular Aggregates free of fines) should be placed in the cores and middle of pillar.
  - (Concrete core filling optional) use a dry concrete mix to prevent leaching of cement.
  - Concrete Adhesive should be applied to all units to ensure course to course interlock.

STEP 3  
ADDITIONAL COURSES

- Repeat Step 1 and Step 2 until desired height of pillar has been reached.

STEP 4  
COMPLETION

- Complete the pillar with a Pillar Cap.
  - Secure the Pillar Cap with a concrete adhesive.
Geogrids are meshes typically made of a regular pattern of tensile elements usually made of a fairly rigid type of plastic. These are used to strengthen fill materials in geotechnical applications. They provide increased shear strength between soil strata interfaces. Their tensile strength can prevent or decrease the degree of differential settlement in some applications such as beneath structures or roads by transmitting the load over a broader area of soil, thereby diminishing the vertical stress — and subsequent compression — in the soil.
26 Degree Soil
High Plastic Silts and Clays

Approximate Equivalent Geogrids:

DO NOT USE FOR CONSTRUCTION / FOR PRELIMINARY ESTIMATION ONLY
The above charts are intended for preliminary estimation only and all designs must be reviewed by a professional engineer. Use of the charts are the sole responsibility of the user. CornerStone Wall Solutions Inc. assumes no liability for improper use of the charts.
### Approximate Equivalent Geogrids:

### DO NOT USE FOR CONSTRUCTION / FOR PRELIMINARY ESTIMATION ONLY

The above charts are intended for preliminary estimation only and all designs must be reviewed by a professional engineer. Use of the charts are the sole responsibility of the user. CornerStone Wall Solutions Inc. assumes no liability for improper use of the charts.
**STONELEDGE™ INSTALLATION GUIDE | ESTIMATING CHARTS**

**Sandy Gravel**

**34 Degree Soil**

**Flat at Top and Bottom of Wall**

**No Surcharge**

**Case A**

<table>
<thead>
<tr>
<th>Exposed Hgt wo/cap</th>
<th>2'0&quot;</th>
<th>3'0&quot;</th>
<th>4'0&quot;</th>
<th>5'0&quot;</th>
<th>6'0&quot;</th>
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**Flat at Top and Bottom of Wall**

**100 psf Surcharge**

**Case B**

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**4/1 Slope at Top - Flat Bottom**

**Case C**

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<th>5'0&quot;</th>
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<td>.75</td>
<td>.75</td>
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**Approximate Equivalent Geogrids:**


**DO NOT USE FOR CONSTRUCTION / FOR PRELIMINARY ESTIMATION ONLY**

The above charts are intended for preliminary estimation only and all designs must be reviewed by a professional engineer. Use of the charts are the sole responsibility of the user. CornerStone Wall Solutions Inc. assumes no liability for improper use of the charts.