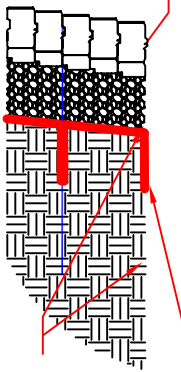


STEP 1 - BACKFILL TO TOP OF SRW BLOCK.

1C - CLEAN TOP OF WALL UNIT



1B - WHERE SEPARATION GEOTEXTILE IS SPECIFIED AT BACK OF GRAVEL FILL, EXTEND GEOTEXTILE 300mm [12"] OVER REINFORCED SOIL. TRIM AND REMOVE EXCESS MATERIAL.

1A - ENSURE GRAVEL FILL AND REINFORCED SOIL ARE PROPERLY COMPACTED AND LEVEL WITH BACK OF WALL BLOCK.

GENERAL NOTES

1. FOLLOW GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. CARE MUST BE TAKEN TO ENSURE GEOGRID IS NOT DAMAGED DURING CONSTRUCTION OR SUBJECT TO UV EXPOSURE.

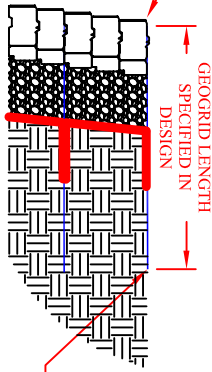
DESIGN

2. MINIMUM GEOGRID LENGTH IS 60% OF THE TOTAL WALL HEIGHT BUT NEVER LESS THAN 1.2m [4'].
3. LOWEST LAYER OF GEOGRID TO BE WITHIN 2 WALL COURSES OF THE LEVELING PAD. TOP LAYER OF GEOGRID TO BE WITHIN 2 WALL COURSES OF THE COPING. NO MORE THAN 3 WALL COURSES BETWEEN GEOGRID LAYERS.
4. GEOGRID LENGTH, PLACEMENT AND TYPE SHALL BE INDICATED ON THE WALL DESIGN.

STEP 2 - PLACE GEOGRID

PRIMARY STRENGTH DIRECTION

2C - GRID WITHIN 25mm [1"] OF WALL FACE

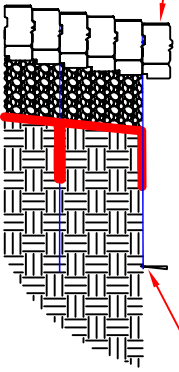


2A - CUT GEOGRID TO THE SPECIFIED LENGTH. PIECES MUST BE ONE CONTINUOUS LENGTH.

2B - PLACE GEOGRID SO DIRECTION OF HIGHEST STRENGTH IS PERPENDICULAR TO FACE OF WALL.

STEP 3 - SECURE GEOGRID

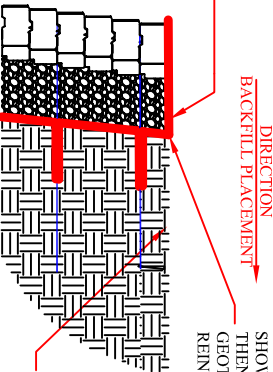
3A - PLACE NEXT LAYER OF WALL BLOCKS. PUSH BLOCKS FORWARD TO ENSURE INTERLOCK SYSTEM IS ENGAGED.



3B - PULL GEOGRID TAUGHT TO REMOVE AND SLACK OR WRINKLES AND SECURE INTO PLACE TO MAINTAIN TENSION USING STAKES OR SANDBAGS.

STEP 4 - PLACE BACKFILL MATERIAL

4A - PLACE GRAVEL FILL IN 75mm [3"] LIFTS AND VIBRATE INTO PLACE USING A LIGHT WEIGHT COMPACTOR. MAINTAIN THE MINIMUM SPECIFIED 300mm [12"] THICKNESS.



4B - WHERE SEPARATION GEOTEXTILE IS SPECIFIED, PLACE AS SHOWN. START WITH 300mm [12"] OVERLAP ON REINFORCED SOIL, THEN EXTEND UP BACK OF GRAVEL FILL. LAY EXCESS GEOTEXTILE OVER FACE OF WALL TO ALLOW PLACEMENT OF REINFORCED SOIL.

4C - PLACE REINFORCED SOIL NEAR GRAVEL FILL AND SPREAD BACK AWAY FROM WALL TO MAINTAIN GEOGRID TENSION. COMPACT MATERIAL IN 150-200mm [6-8"] LIFTS USING APPROPRIATELY SIZED EQUIPMENT. ADD WATER AS NEEDED TO ACHIEVE SPECIFIED PROCTOR DENSITY.

5. ADJACENT SECTIONS OF GEOGRID SHALL ABOUT EACH OTHER, NOT OVERLAP.
6. DO NOT PLACE MORE THAN TWO (2) COURSES OF WALL BLOCK PRIOR TO BACKFILLING THE WALL.
7. AGGREGATE MATERIAL SHOULD BE DUMPED CLOSE TO THE WALL AND RAKED AWAY FROM THE WALL TO MAINTAIN TENSION IN THE GEOGRID DURING BACKFILLING.
8. WHEN AGGREGATE MATERIAL IS SPREAD, CAUTION MUST BE USED TO ENSURE HAND EQUIPMENT (SHOVELS, RAKES) DOES NOT CONTACT THE GEOGRID OR CAUSE DAMAGE.
9. DO NOT ALLOW ANY TRACKED EQUIPMENT DIRECTLY ON TOP OF THE GEOGRID. FOR NECESSARY TRAVEL ON THE GEOGRID, USE ONLY LIGHTWEIGHT RUBBER Tired EQUIPMENT OPERATING AT LOW SPEEDS (LESS THAN 10MPH); DO NOT ALLOW SHARP BRAKING OR TURNING.
10. ONLY HAND OPERATED EQUIPMENT SHOULD BE USED WITHIN 1m [3'] OF THE BACK OF WALL. BACKFILL THICKNESS MAY NEED TO BE REDUCED IN THESE AREAS TO ENSURE PROPER COMPACTION OF THE REINFORCED SOIL.



This graphic represents a preliminary, non site-specific design. If used for construction, a registered professional engineer must be retained to review & approve the design, confirm site conditions, and inspect construction.

Ortana Retaining Wall System
Geogrid Installation Best Practices