

General Installation Guide

1. Prepare the foundation per the construction plans and specifications. Install the leveling pad (when required), and place and compact backfill soils as required by the specifications and/or construction plans. For cut structures: during initial excavation be sure to excavate to the required geogrid embedment length. The geogrid embedment length is typically measured back from the front face of the reinforced soil structure. Follow the recommendations outlined in the construction plans for facing placement.

2. Place wire baskets at the proper elevation and stationing. Adjacent baskets shall be overlapped 2 inches. It is not required, but the contractor may find it helpful to tie or hog ring the baskets together to maintain proper alignment during the backfill operation. Roll out the SR18 facing wrap parallel to the slope/wall face. Place the SR18 inside the basket with the bottom length extending back 2.5 feet from the basket face. Lay the wrap up the inside face of the basket. Allow the facing wrap, approx 4 feet, (the top embedment piece) to lay over the top face of the basket during the backfill fill procedure. If a fabric wrap is also specified, lay the fabric inside the SR18 wrap with the bottom length extending back 21 inches from the basket face. Allow the fabric to also lay over the top face of the basket.

3. Place primary reinforcement at the elevations shown on the plans (typically at basket interfaces). The geogrid shall be placed perpendicular to the wall face and should extend from the face of the basket horizontally back to the specified embedment length. Before unrolling the geogrid, verify required length and placement location. Measure and cut geogrid to the specified length. Geogrid may be cut using a razor knife, scissors, sharp knife or other cutting tool. Care should be taken to avoid injury while cutting the geogrid.

4. Once the facing wrap components, and primary reinforcement if required, are in place, attach the support struts every 2 feet along each basket. It may be necessary to cut through the facing wrap to attach the struts to the baskets. Once the struts are in place backfill placement is ready to begin. If the primary reinforcement is not at a basket interface (i.e. the struts are already installed) it will be necessary to cut the transverse ribs to extend the primary reinforcement to the basket face.

5. Where required, adjacent sections of geogrid must always abut each other at the face of the structure. Primary geogrid reinforcement shall not overlap at the front face of the structure. Geogrid cannot be spliced to achieve required embedment length. One continuous section of geogrid must be used to achieve the specified length. Pull geogrid taut to remove slack and wrinkles prior to placement of backfill. Staking may be required to keep the geogrid taut and free from wrinkles during backfill placement. Place and properly compact backfill soils over the geogrid as required by the construction plans or specifications.

6. Compacted backfill shall be level along the full length of the geogrid embedment. In no case shall the grade slope towards the front face of the structure. A maximum 2 percent grade falling away from the front face of the structure is acceptable. Make sure to place and compact the backfill material as specified in the specifications or construction plans. Soil shall be compacted to a minimum 95% Standard Proctor density in 6 to 8 inch max. lifts, or as required by the specifications or construction plans, whichever is more stringent.

7. Once the backfill elevation reached the top of a basket pull the facing wrap from the front of the basket back over the compact soil. Pull the facing wrap taut. It may be necessary to stake or pin the wrap to keep it taut during backfilling. Continue the construction sequence by placing another row of baskets and repeating the construction steps.