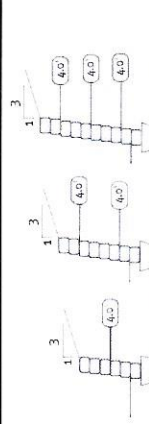


Key • Grid is a flexible and cost effective product, brought to you by Keystone, the leading force in retaining wall products. Key • Grid is a high performing geogrid reinforcement that can help ensure that your wall stands the test of time.

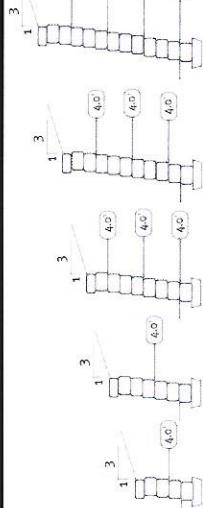
KEY • GRID SOIL REINFORCEMENT

Key-Grid is designed to connect Keystone units to the reinforced soil mass. Proper wall design requires knowledge of wall geometry, soil conditions, surcharge loadings and more. The estimating charts below are based on the Keystone unit size and wall heights shown. The charts assume a soil friction angle of at least 26° and back slope of up to 3:1 (18.4°). For taller walls or other design conditions, consult a qualified engineer.

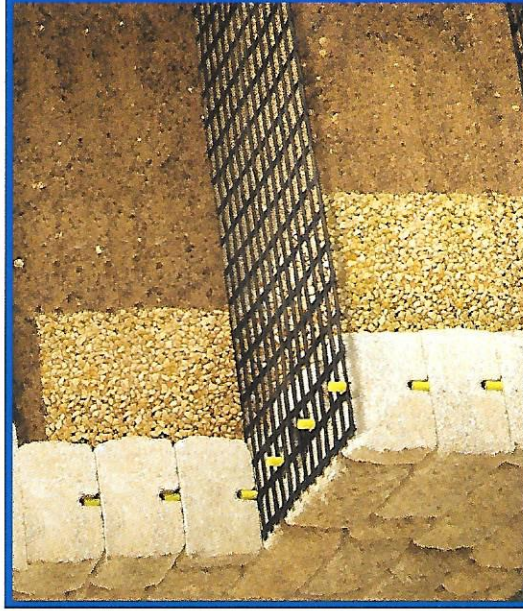
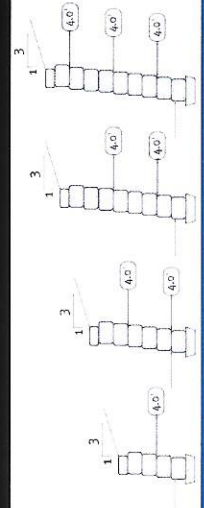
4" Unit - Reinforced Wall Chart



6" Unit Reinforced Wall Chart



8" Unit Reinforced Wall Chart

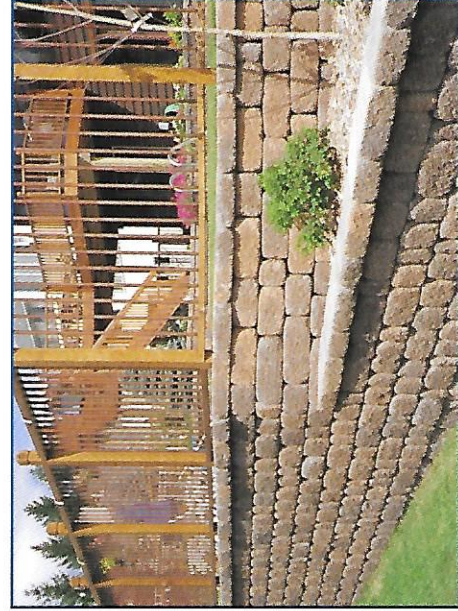


INSTALLATION TIPS

- Level and compact soil behind wall prior to rolling out geogrid.
- Pull taut and secure back edge of geogrid before filling next course layer.
- Do not drive directly on Key • Grid with equipment.

KEY • GRID

POLYESTER SOIL REINFORCEMENT FOR USE WITH SEGMENTAL RETAINING WALLS UP TO 6 FEET TALL. ROLL SIZES 4' X 45'



INSTALLATION STEPS

STEP ONE

Prepare Backfill for Grid

Follow installation guidelines for construction of segmental retaining walls per the manufacturer's recommendations. In preparation for installing geogrid, make sure unit drainage fill is in place (2" back from front face of wall), back fill soils are compacted, and retaining wall units are swept clean. For best compaction results, use vibratory plate compactor with sand or granular soils or a walk behind sheeps-foot roller compactor for clay soils. If these tools are not available, a manual hand tamper may be used as an alternative.

STEP TWO

Install the Key-Grid

Refer to estimating charts for proper placement and length of geogrid. Place front edge of geogrid within 2 inches of the front face of the retaining wall units and lay flat on compacted fill. Make sure compacted fill area is level and at same elevation as the last course of retaining wall units. For walls with radius geometry, see manufacturer's instructions regarding geogrid layout.

STEP THREE

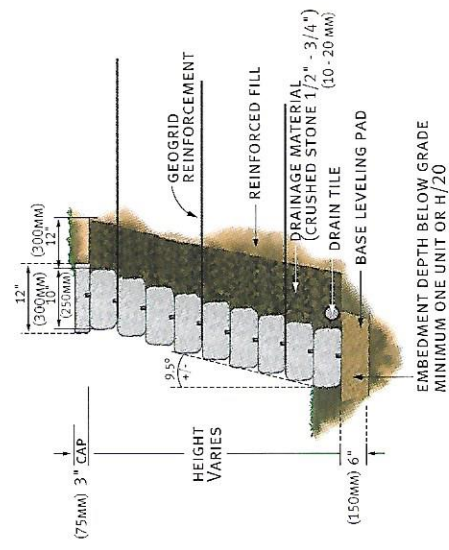
Install Additional Courses

Place next row of retaining wall units on geogrid and secure units in proper alignment position. Pull geogrid taut to eliminate loose folds. Place backfill material on geogrid taking care not to wrinkle or create folds. Keep backfill lifts 6 to 8 inches in depth to ensure proper compaction of soil.



- Easy to Use
- Non-Degradable
- Bi-Directional Strength
- Convenient Package Size
- "Off-the-Shelf" Availability

Reinforced wall - 3 Course System

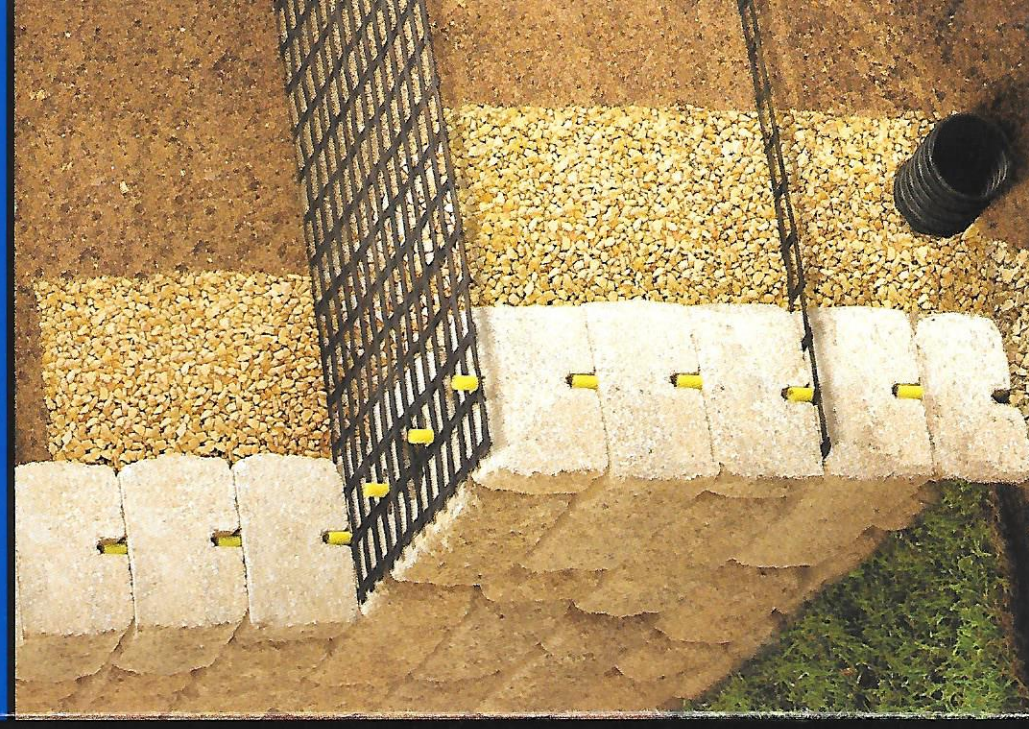


KEY • GRID PROPERTIES

- Bi-directional Polyester Geogrid
- Ultimate Tensile Strength, (Tult) = 2,000lbs/ft
- Long Term Design Strength = LTDS
- LTDS = 949lbs/ft (for sand, silt, and clay soils)



EASY TO USE



- Easy to Use
- Non-Degradable
- Bi-Directional Strength
- Convenient Package Size
- Three Course Grid System
- "Off-the-Shelf" Availability

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