



Materials:

- BaseCore™ Geocell panels
- BaseKeys
- BaseCaps
- Rebar stakes
- Geotextile fabric (optional)
- BaseGrid geogrid (optional)
- Infill material (e.g., gravel, crushed stone)

Recommended Tools:

- Tape measure
- Stakes and string for layout
- Utility knife or scissors
- Hammer or mallet
- Roller or compactor
- Shovel or rake
- Gloves

BaseCore™ Geocells provide a versatile and durable solution for various applications such as driveways, roads, retaining walls, and erosion control. For optimal performance, we recommend using BaseClips and BaseCaps. Incorporating geotextile can further enhance the system's benefits.

Installation Steps:



1. Site Preparation

- Clear the area of vegetation, debris, and loose soil.
- Level the ground for a stable base.
- Establish proper drainage to prevent water accumulation.

Boost Your Project with Strategic Enhancements:



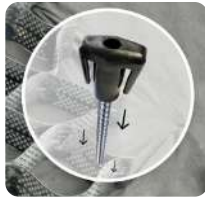
Geotextile Installation

If using geotextile, unroll it over the prepared area, overlapping adjacent pieces to ensure complete coverage.



BaseGrid Geogrid Installation:

Place the BaseGrid geogrid over the geotextile layer, ensuring proper alignment and a minimum overlap of 300mm (12 inches) between adjacent rolls. Secure the BaseGrid geogrid in place using pins or staples. Ensure the BaseGrid geogrid is taut and free from wrinkles or folds.



2. BaseCore™ Geocell Deployment

- **Unfold geocell panels** evenly across the prepared area, geotextile, or BaseGrid layer.
- **Connect panels** securely using BaseKeys for a robust structure.
- **Expand geocell panels:** Gently stretch the geocell panels horizontally to their full dimensions for optimal performance.
- **Anchoring:** Drive rebar stakes through designated holes in the geocell panels. Secure with BaseCaps, especially on slopes or embankments. For added stability, consider using additional anchoring methods like soil nails or ground anchors.



3. Infill Material

- Choose appropriate infill material (e.g., gravel, crushed stone) based on project requirements.
- Fill geocells evenly.
- Thoroughly compact infill for maximum strength and durability.

Application-Specific Considerations



Driveways and Roads

- Use a high-quality aggregate base, compacted to the recommended thickness.
- Choose a suitable surface material (gravel, chip seal, asphalt) based on traffic volume and desired finish. Ensure proper compaction and drainage.
- Consider factors like frost heave, water runoff, and load-bearing capacity.



Retaining Walls

- Prepare a level base and install a drainage system behind the wall.
- Use multiple layers of geocells for taller walls and increased stability.
- Use well-drained backfill material.
- Secure the wall with BaseCaps and additional anchoring for stability.



Erosion Control

- Prepare the ground by removing loose materials and creating a stable base.
- Combine geotextile and geogrid for maximum reinforcement.
- Choose an erosion-resistant infill material.
- Secure geocells with BaseCaps and consider additional anchoring like soil nails or vegetation.