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## VEVOR VV-TGGS25X9FT3INBDD

# VEVOR Ground Grid Stabilization System (Model VV-TGGS25X9FT3INBDD) - Installation and Use Manual

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## 1. OVERVIEW

The VEVOR Ground Grid Stabilization System is engineered to provide a robust and permeable foundation for various outdoor applications. Constructed from high-density polyethylene (HDPE), this geo grid is designed to stabilize soil, gravel, sand, or other infill materials, preventing erosion and supporting heavy loads up to 1885 lbs per square foot. Its three-dimensional honeycomb structure ensures stability on both flat and sloped terrains, making it suitable for patios, walkways, shed bases, driveways, and parking lots.

The system is flexible, allowing for easy cutting and customization to fit specific project dimensions. Its design promotes water permeability, maintaining natural drainage while providing a firm surface.

# GROUND STABILIZATION SYSTEM

DIY product for uneven areas to be stable at heavy loading



Figure 1: VEVOR Ground Grid Stabilization System applied to a gravel pathway, illustrating its versatility for various outdoor projects including patios, parking lots, shed systems, and driveways.

## 2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your VEVOR Ground Grid System. Follow these steps carefully:

- 1. Prepare the Ground:** Ensure the construction ground is leveled and cleared of debris. For best results, consider laying down a road cloth or geotextile fabric beneath the grid to prevent infill material from sinking into soft soil.
- 2. Unpack the Grid:** Carefully cut open the outer packaging tape of the product. The grid comes folded or rolled.
- 3. Deploy the Grid:** Spread out the ground grid over the prepared area. Each grid section should be fully deployed to form its honeycomb structure.
- 4. Secure the Edges:** Fix each grid at the edge with steel bars or appropriate anchors to ensure full deployment and prevent movement during infilling.
- 5. Link Multiple Grids (if applicable):** If using multiple grid sections, use the provided buckles or other suitable linking mechanisms to connect them. The grid features linking holes around its perimeter, allowing for

adjustment of length or width as needed.

6. **Infill the Cells:** Once the grid is deployed and secured, fill each cell with your chosen material (soil, gravel, sand, concrete, etc.). Ensure the infill material does not exceed the height of the grid itself to avoid exposing the grid outside and affecting product performance.
7. **Compact the Infill:** Compact the filled material to ensure a stable and firm surface.

## EFFORTLESS INSTALLATION

Time-saving assembly at any road as you need



Figure 2: Visual guide for the installation process, including spreading, anchoring, and filling the geo grid cells.

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Video 1: A detailed demonstration of the VEVOR Ground Grid installation process, including unpacking, deployment, securing with steel bars, linking multiple sections, and filling the cells with soil.

### 3. OPERATION AND USAGE

Once installed and filled, the VEVOR Ground Grid provides a stable and permeable surface ready for use. The grid's design allows for immediate foot or light vehicle traffic, depending on the infill material and compaction level.

- **Load Bearing:** The system is designed to bear heavy loads up to 1885 lbs per square foot when properly infilled and compacted.

- **Permeability:** The perforated design of the HDPE material ensures high permeability, allowing water to drain naturally through the surface, reducing runoff and preventing pooling.
- **Versatile Infill:** The cells can be filled with various materials such as gravel, soil (for grass growth), sand, or concrete, adapting to different aesthetic and functional requirements.
- **Erosion Control:** The cellular confinement system effectively prevents erosion on slopes and stabilizes loose materials, maintaining the integrity of the surface.

## MULTIFUNCTIONAL GRID

Features heavy loads capacity when each cell is infilled



Figure 3: The geo grid's ability to support heavy loads and its compatibility with diverse infill materials for various applications.

## 4. MAINTENANCE

The VEVOR Ground Grid System requires minimal maintenance due to its durable HDPE construction and inherent stability. Regular checks can help ensure its continued performance:

- **Inspect for Damage:** Periodically inspect the grid for any signs of damage, such as tears or dislodged sections. While highly durable, extreme conditions or impacts could cause localized issues.
- **Check Infill Levels:** Over time, infill materials like gravel or soil may settle or shift. Replenish infill as needed to maintain the grid's structural integrity and prevent exposure of the grid material.
- **Clear Debris:** Remove any accumulated leaves, dirt, or other debris that might impede drainage or affect the

surface appearance.

- **Drainage:** Ensure that the area around the grid remains free of obstructions to allow for proper water drainage.

## 5. TROUBLESHOOTING

This section addresses common issues that may arise during or after the installation of the VEVOR Ground Grid System.

Problem	Possible Cause	Solution
Grid sections are not fully deploying or are uneven.	Insufficient anchoring; uneven ground preparation; packaging ties not fully removed.	Ensure all packaging ties are removed. Re-anchor the edges firmly with steel bars or stakes. Level the ground thoroughly before deployment.
Infill material is sinking or shifting.	Inadequate ground preparation (e.g., no geotextile fabric on soft soil); insufficient compaction of infill.	Ensure a stable base is prepared. Use a geotextile fabric for very soft ground. Compact infill thoroughly after filling. Replenish infill as needed.
Water pooling on the surface.	Infill material is not permeable; drainage paths are blocked; grid cells are overfilled.	Ensure permeable infill materials are used. Clear any debris blocking drainage. Do not overfill cells; ensure infill is level with or slightly below the grid height.
Difficulty linking multiple grid sections.	Incorrect alignment; linking holes are not visible or accessible.	Align sections carefully. Ensure the linking holes are clear and accessible. Use the provided buckles or suitable fasteners to secure connections.

## 6. PRODUCT SPECIFICATIONS

The following are the technical specifications for the VEVOR Ground Grid Stabilization System (Model VV-TGGS25X9FT3INBDD):

- **Model:** VV-TGGS25X9FT3INBDD
- **Material:** High-Density Polyethylene (HDPE)
- **Unit Dimension (L x W):** 25 ft x 9.5 ft (7.6 x 2.9 m)
- **Single Cell Dimension (L x W):** 9.9 in x 9.9 in (25 x 25 cm)
- **Depth:** 3 in (7.6 cm)
- **Coverage:** 237.5 sq ft
- **Thickness:** 0.06 in (1.5 mm)
- **Item Weight:** 41.2 lbs (18.7 kg)
- **Color:** Black
- **Load Capacity:** Up to 1885 lbs per square foot (when infilled)
- **Package Content:** 1 x Ground Grid, 15 x Buckles



Figure 4: Detailed product specifications and dimensions of the geo grid.

## 7. WARRANTY AND SUPPORT

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VEVOR products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official VEVOR website. Keep your purchase receipt as proof of purchase for any warranty claims.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact VEVOR customer service through the contact information provided in your product packaging or on the official VEVOR website. When contacting support, please have your product model number (VV-TGGS25X9FT3INBDD) and purchase date readily available.