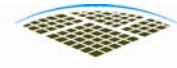




PRESTO **GEOSYSTEMS**



GEORUNNER[®]

GEORUNNER[®]

SURFACE PROTECTION SYSTEM

INSTALLATION GUIDELINE



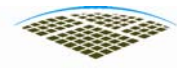
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NOTE: The following installation techniques and recommendations may require an evaluation by Presto Geosystems to determine the applicability of use for individual project requirements.

Base Preparation

1. Level and compact the soil base suitable for the intended loads, then rake loose the top ½ inch of soil to provide seed bedding layer. The GeoRunner units can be installed directly over the bedding layer, turf reinforcement mats or sod.
2. Correct elevation and contour of the base layer is important because the flexible GeoRunner units will follow the base elevation and contours.
3. The top elevation of the GeoRunner should be level to slightly below any adjoining surfaces, such as curbing, sidewalks or roadways.

Installation of GeoRunner® Panels

1. GeoRunner panels should be placed down so that the flat surface of the 2 in x 24 in center band is facing up. The bottom side of the GeoRunner panel has four, ¼ inch diameter x ¼ inch long molded-in locator buttons on one end.
2. The GeoRunner panels are easily laid down and connected in a running row and/or column pattern. Refer to Figure 1.
3. Lay the GeoRunner pattern you desire. Be sure that all the interlocking GeoRunner units line up correctly (right side up).

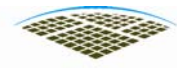


Figure 1. GeoRunner Panel Installation

4. Snap the GeoRunner 2 ft. ends together to engage the locator buttons.
5. Insert three rivets in the hole locations to secure the panels. Refer to Figure 2.
6. The panels can be installed in-place or assembled off to the side of the installation site and transferred to the installation area.



Figure 2. Install Rivets



7. When panels are attached side-to-side, interlock the 4 foot (long edge) side connections and secure with 2 side clips evenly spaced. Refer to Figure 3.
8. After installation is complete, top-dress the GeoRunner with well-screened topsoil and vegetate Georunner system and perimeter edges in accordance with the plans and specifications.



Figure 3. Connect Panels with Side Clips

Installation of GeoRunner® Anchor - Optional

1. A minimum of four earth anchors shall be installed for each Georunner panel. Additional anchors may be required to keep the panels smooth and to ensure contact with sub grade. Refer to Georunner drawing 1 for recommended anchor placement.
2. Install earth anchors by inserting the drive rod into the Duckbill® anchor head. Refer to Figure 4.
3. Drive earth anchor into the soil with a sledge hammer or impact hammer to the length of the cable or until the desired resistance is achieved.
4. Twist and remove the drive rod. Drive rod may require “rocking” action to remove from earth.
5. Using a wire gripper or other method, pull the cable firmly to remove slack and to set the earth anchor. Refer to Figure 5. The cable will move approximately 2 inches and the Duckbill will rotate beneath the surface to become permanently fixed in place, creating a “deadman”.
6. Slide the Gripple® into the anchor brace. Gripple must be inserted from the side of the brace in order to lock below the two opposing brace nipples. Refer to Figure 6.

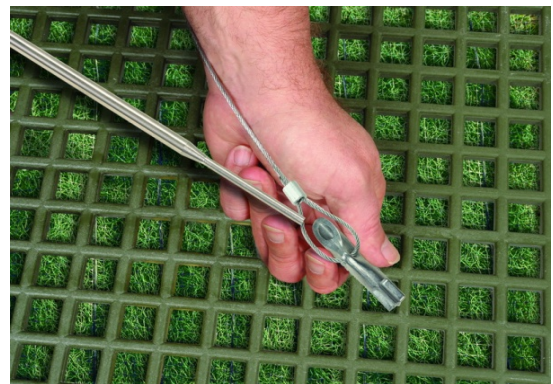
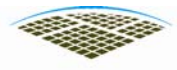


Figure 4. Install Anchor



Figure 5. Secure Earth Anchor



7. Slide the anchor brace/Gripple into the same panel opening as the cable. Refer to Figure 7.
8. The anchor brace/Gripple will be recessed into the panel opening and located below the top of the panel.
9. Stand on anchor brace and pull cable tight to secure GeoRunner mat to ground surface.



Figure 6. Install Anchor Brace/Gripple



Figure 7. Set Gripple in anchor brace.

10. **Recommended:** Cut the cable approximately 2 inches above the Gripple to allow for re-tensioning in the future, if required. Refer to Figure 8.
11. Loop the cut end back into the Gripple head. Refer to Figure 9. Looping the cable locks the free end safely as the Gripple is bi-directional and will permanently hold the free end of the cable.



Figure 8. Cut the cable to loop the trailing end



Figure 9. Loop cable back in the Gripple

12. **Alternative to steps 10 and 11 above:** If preferred, the cable may be cut flush with the Gripple to remove the trailing end. Refer to Figure 10.

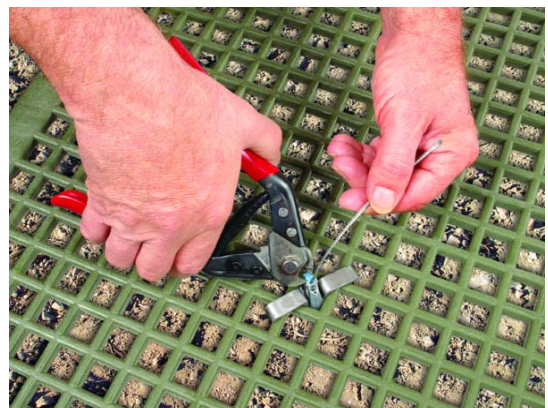
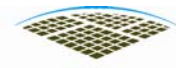


Figure 10. Cut the cable flush with the Gripple



Maintenance

1. The GeoRunner area can be mowed and maintained once adequate vegetation has been established. A minimum blade height of 4 inches is recommended. Ensure that no edges or areas protrude that could catch on the mower blades.
2. Thermal expansion of the exposed GeoRunner panels due to high temperatures is normal. This expansion may result in intermittent bulging of the secured GeoRunner system. As vegetation is established, the turf will insulate the GeoRunner system and the potential for thermal expansion will be minimized.
3. The surface is relatively flat and smooth, but caution should be exercised to assure all components are properly installed to prevent trip hazards.

Limited Warranty

Presto Geosystems warrants each Georunner[®] panel which it ships to be free from defects in materials and workmanship at the time of manufacture. Presto's exclusive liability under this warranty or otherwise will be to furnish without charge to Presto's customer at the original f.o.b. point a replacement for any section which proves to be defective under normal use and service during the 10-year period which begins on the date of shipment by Presto. Presto reserves the right to inspect any allegedly defective section in order to verify the defect and ascertain its cause.

This warranty does not cover defects attributable to causes or occurrences beyond Presto's control, not in conformance with ordinary use, or unrelated to the manufacturing process, including, but not limited to, abuse, misuse, mishandling, neglect, improper storage, improper installation, improper alteration or improper application.

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Project drawings and specifications take precedence over all Manufacturers' recommendations.