



Installation guidelines for Root Protection Zones: Installing Gravelrings on Groundcell

Part 1 - Installing Groundcell Base

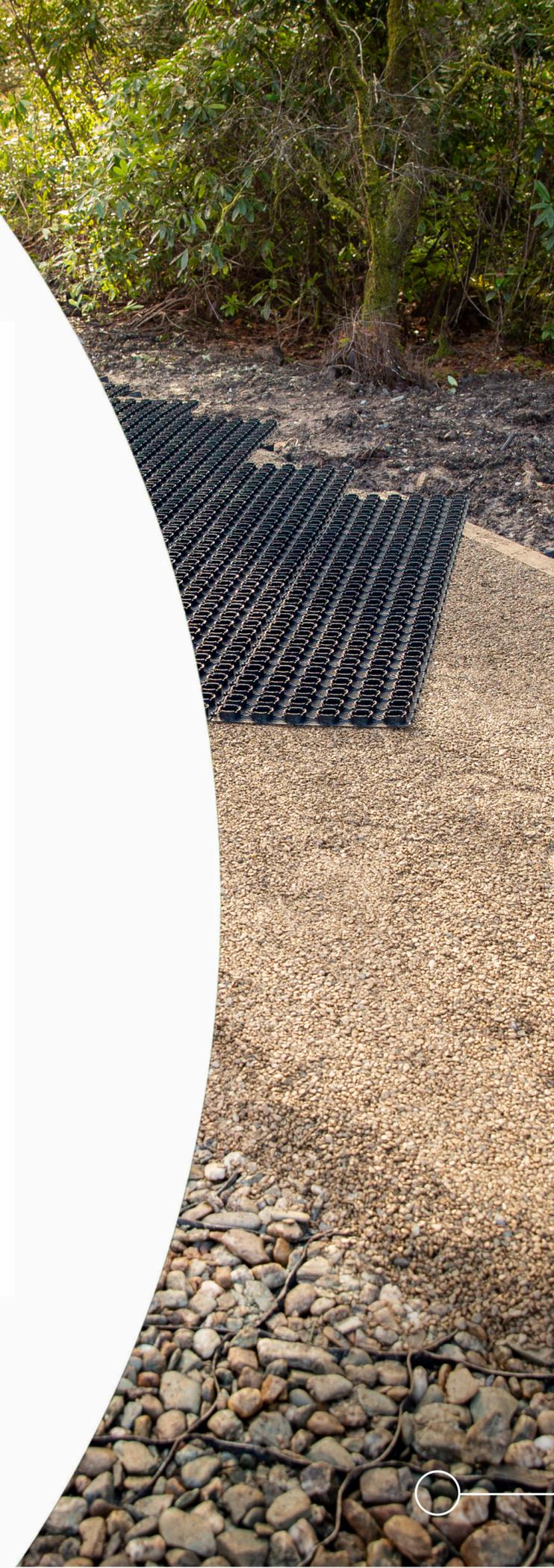
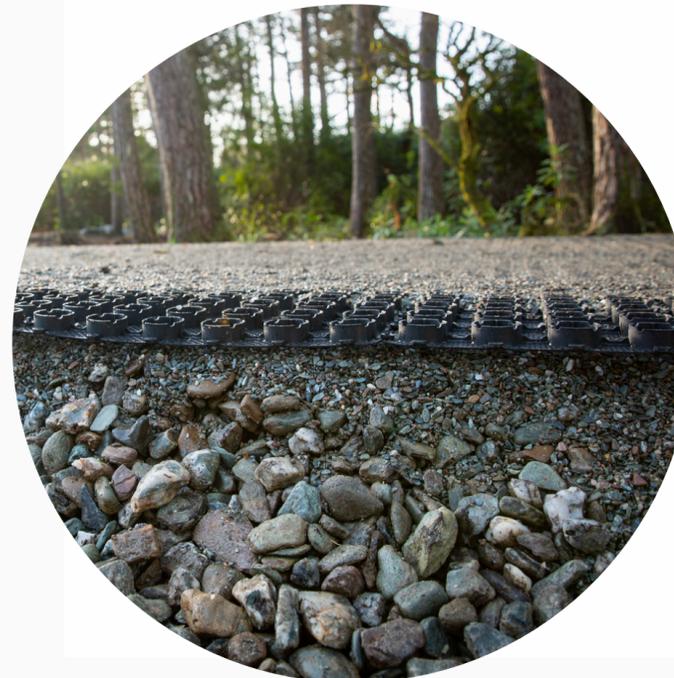
- 1 Prepare and level the surface by removing vegetation and debris and filling hollows in the surface with clean angular stone and/or sharp sand as required. Soil should not be removed or compacted as this could cause damage to the underlying tree roots.
- 2 Install a layer of Earthworx NW1000 Geotextile Fabric over the prepared surface and extend beyond the area to be covered by the Groundcell by approx 300mm. If joins are required in the geotextile, these should be overlapped as per the engineer's specification (minimum 300mm).
- 3 Lay a panel over the surface and secure one edge of the panel (in middle) with a Groundcell J Fixing Pin. Pull the panel out to its full length and secure the other end with another pin. Repeat the same procedure across the width of the panel, stretching it out to its full width and securing in each corner with a pin.
- 4 Fully secure the panel to the surface using approx. 1 pin per square metre* evenly spaced. Cells should be fully expanded (and tensioned) to the cell size stated on the technical data sheet.
- 5 Repeat steps 4 and 5 to lay any additional panels required to cover the areas. Staple or cable tie each cell together where adjoining panels meet.

- 6 Fill the cells with clean angular sub-base material such as Type 4/20mm or Type 20/40mm or as per engineer's specification (refer to BS7533-13:2009). The cells should be overfilled by a minimum of 25mm and lightly compacted - use of heavy rollers / compaction equipment should be avoided as there is potential to damage the underlying tree roots.

Part 2 - Installing Gravelrings Surface

- 7 Blind the surface with a 5-10mm layer of sharp sand or granite fines to level out any undulations in the sub-base before laying the panels. For permeable/SuDS compliant installations a free-draining 2-6mm angular grit / open-graded clean stone must be used instead of sharp sand.
- 8 Lay the Gravelrings tiles over the base with the mesh side down and clip together.
- 9 Fix down using the Gravelrings Fixing Pins. The number of pins required will depend on the application and site conditions but as a guide, allow 1 pin per square metre.
- 10 Fix Gravel Edge edging around the perimeter of the area to contain the gravel. For areas adjoining a solid structure (e.g. a wall, fence or raised kerb stone) you won't require an edging.

- 11 Spread the final gravel surface over the panels to a depth of approximately 10-15mm higher than the top edge of the rings, so that they are concealed.
- 12 Rinse the gravel with water (if required) and lightly compact the gravel to aid settlement and consolidation.



Discuss your project on:
0330 055 2599