

# GRASS REINFORCEMENT MESH

GR11 & GR14



## INSTALLATION GUIDELINES

Grass Reinforcement Mesh is a tough, flexible and long lasting extruded polyethylene mesh. Available in two roll sizes (2m x 20m & 1m x 10m). GRM can be effectively employed onto stable ground by simply unrolling and pinning adjacent and successive lengths using metal U-pins. After a period of time the grass will grow through the mesh and reach a convenient height to be mown. The area quickly adopts a natural appearance with the grass plants intertwined with the mesh to provide permanent protection against wear. Installation is best carried out during the growing season to allow a strong interlock between the mesh and the grass sward, although GRM can be installed throughout the year.

### Installation methods

#### EXISTING GRASSED AREA

- 1) The surface must be reasonably flat, level, firm and free draining enough to sustain the proposed traffic. Fill shallow depressions with free-draining sandy soil. Level and consolidate. Alternatively, lift turf locally, fill the low area with sandy soil, consolidate and replace turf to level.
- 2) Prior to permanent fixing of the mesh, it is advisable to unroll it and pin loosely at each corner to allow the mesh to relax and regain its natural flatness for a minimum of one hour prior to permanent fixing. Ambient temperature variations will influence the time period required for the mesh to relax and lay flat.
- 3) 200mm fixing pins 150 per box - For the most effective pinning, use 1 box of fixing pins for each roll of 2m x 20m.
- 4) All outer edges of mesh will require pins at 300-350mm maximum centres. Pins in the middle of the roll will be in 3 equally off-set rows on a chevron type pattern at 500mm apart (roll width) and at maximum 750mm centres (roll length). On multi-roll installations the edge pins will overlap and fix two adjacent edges. Pins should be inserted parallel to the mesh and flush within the structure to avoid exposure at the surface. Try to avoid inserting pins across and above the top strand of mesh. Refer to diagram A on page 2.
- 5) Position the mesh on the prepared surface. Starting from straight as possible at all times. Fix the first edge (length) and then go back to the start and fix on end of the roll using the metal U-pins (300-350mm centres). Do not fix both ends or both edges at this stage. Always work in the same direction along the mesh length to keep the mesh taut and to avoid ripples.
- 6) Working progressively along and across the mesh and away from the first pinned corner, insert 3 more rows of pins down the centre of the roll in the chevron type layout as described (3 rows at 500mm apart & at 750mm centres down the length). Continue this until all pins are in place except for the leading edge and the roll end. Refer to diagram B on page 2.
- 7) For 1 roll installations fix the leading edge (length) and the final roll end (300-350mm centres) to complete the operation.
- 8) For multi-roll installations, position the next roll for fixing. Adjacent rolls are butt jointed and not overlapped. 1 row of pins will secure the two adjacent roll edges and/or ends. Continue across the site using this method until fully installed. Additional pins may be required as determined by specific site and weather conditions and to secure bridged or raised/tented sections of mesh where evident. Installation in cold weather conditions may benefit from fixing adjacent rolls 1cm apart to allow for thermal expansion in hot weather.

9) When you are satisfied that the mesh is laid flat and fixed securely, a brushing of free-draining sandy topsoil may assist in levelling any minor low spots, but is not essential. It is not advisable to completely fill or cover the mesh with soil. A dressing of seasonal fertiliser and any appropriate irrigation will encourage new grass growth to be made more rapidly through the mesh.

10) Best results are obtained by restricting trafficking until after the grass has been cut several times. This process will normally take 6-8 weeks during the growing season and early use will affect the grass establishment. The area can be trafficked immediately if necessary, but exposed mesh may present reduced traction in the wet or frosty conditions and advisory signage to this effect may be required.

11) Mowing can be carried out as normal, but blades should be set higher for the first 3-4 cuts to enable the grass to grow through and fully intertwine with the structure.

12) After installation and establishment, warm weather conditions may cause some localised raised 'tented' mesh areas to become apparent through expansion. These localised raised areas can be further secured by placing additional U-pins are required.





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### NEWLY SOWN LANDSCAPED AREAS

- 1) A seeded surface will require significantly longer for the grass to establish through the GRM. The mesh can be installed directly onto newly installed turf.
- 2) The site must be clear of debris, reasonably flat and level, well consolidated and free-draining enough to enable it to sustain the proposed traffic.
- 3) Having prepared the seedbed, grass seed can be sown before or after the mesh installation. Turfed areas are prepared and installed as normal.
- 4) Continue with points 2-12 on page 1.

### NOTES:

- Suitability and selection of appropriate pegs will be at the clients discretion according to the site soil type, condition and depth.
- Where weak and/or waterlogged ground conditions exist, these must be improved prior to placement of GR11 or GR14.
- Advice on suitability for specific application is available from All Stake Supply
- Grass Reinforcement Mesh can become slippery when wet (before grass has had a chance to grow through). All Stake Supply recommend that all newly installed GRM is cordoned off and signage erected to advise of any potential slip hazards.
- Expansion and contraction in hot climates: For installations where there may be broad +/- day to night temperature variations or where installation are carried out in Spring and Summer, it is recommended that a 1cm gap is left between adjacent rolls and that rolls are pinned individually.

### APPLICATIONS

- Grass overspill car parks
- Domestic driveways
- Front lawn and grass verge parking
- Boat and caravan parking
- Golf course buggy path and maintenance vehicle routes
- Emergency vehicle access routes
- Caravan parks
- Light aircraft taxiways



DIAGRAM A

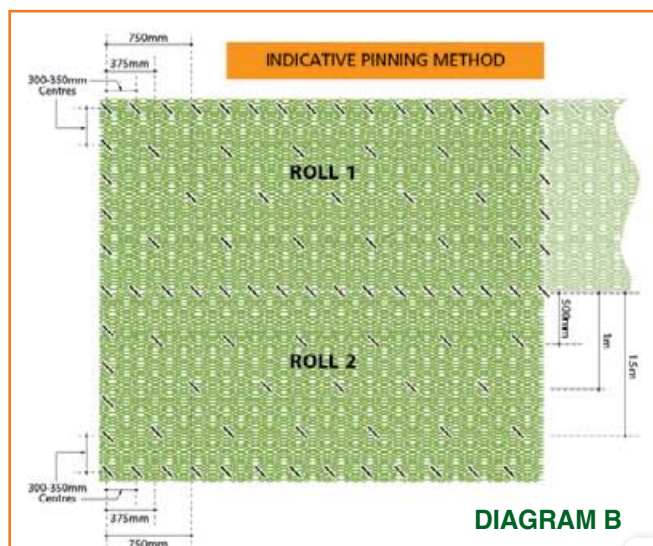


DIAGRAM B

Please note that the information above is given as a guide only. All Stake Supply cannot be liable for damage caused by incorrect installation of this product. Final determination of the suitability of any information or material for the use contemplated and the manner of its use is the sole responsibility of the user and the user must assume all risk and responsibility in connection therewith.