GRASS REINFORCEMENT MESH
INSTALLATION GUIDANCE

Type C Mesh is a tough, flexible and long lasting extruded polyethylene mesh. Available in two grades (**Standard & Heavy)** and supplied in rolls **65.6ft x 6.56 ft sizes.** Type C Mesh can be effectively employed onto stable ground by simply unrolling and pinning adjacent and successive lengths using metal U-pins. After a suitable 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 Type C Mesh can be installed throughout the year as appropriate.

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. Apply seed before mesh installation. 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 1 hour prior to permanent fixing. Ambient temperature variations will influence the time period required for the mesh to relax and lay flat.

3. Fixing Pins (50 per bag) - For the most effective pinning installations of 1 single roll will require 3 bags (150pins).

4. All outer edges of mesh will require pins at 12 inch maximum centers. Pins in the middle of the roll will be in 3 equally off-set rows in a chevron type pattern at 20 inches apart (roll width) and at maximum 30 inch centers (roll length). On multi-roll installations the edge pins will overlap and fix 2 adjacent butted 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 for suggested pinning layout.

5. Position the mesh where required on the prepared surface. Starting from a corner of the roll and maintaining the mesh as taut and straight as possible at all times, fix the first edge (length) and then go back to the start and fix one end of the roll using the metal U-Pins (12 inch centers). 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 20 inches apart & at 30 inch centers down the length). Continue this until all pins are in place except for the leading edge and the roll end.

7. For 1 roll installations, fix the leading edge (length) and the final roll end (12 inch centers) to complete the operation.

8. For multi-roll installations, position the next roll for fixing. Adjacent rolls must be 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 any bridged or raised/tented sections of mesh where evident. Installation in cold weather conditions may benefit from fixing adjacent rolls approximately 1/4 inch 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 leveling any minor low spots but is not essential. It is not advisable to completely fill or cover the mesh with soil. A dressings of seasonal fertilizer 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 fully established through the mesh and the grass been cut several times. This process will normally take 6 - 8 weeks during the growing season and early use will effect grass establishment. The area can be trafficked immediately if necessary, but exposed mesh may present reduced traction in 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 localized raised ‘tented' mesh areas to become apparent through expansion. These localized raised areas can be further secured by placing additional U-pins as required.

B. NEWLY SOWN LANDSCAPED AREAS

1. A seeded surface will require significantly longer for the grass to establish through the Type C Mesh mesh. Type C 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 above.

Notes:

- Where weak and / or waterlogged ground conditions exist, these must be improved prior to placement of Type C Mesh.
- For occasional use by Heavy traffic, a sub-base may be required. If conditions are unduly soft.
- Type C Mesh can become slippery when wet (before the grass has had a chance to grow through). We strongly recommend that all newly installed mesh is cordoned off and signage erected to advise of any potential slip hazards.
- Expansion & Contraction in hot climates: For installations where there may be broad +/- day to night temperature variations or where installations are carried out in Spring and Summer, it is recommended that a 1/2 inch gap is left between adjacent rolls and that rolls are pinned individually.
- Any further questions please contact:- grassmatsusa@gmail.com or call 864 276 5557