

GREEN TERRAMESH SYSTEM CONTRACTORS SHEET

Reference

Please refer to full specification NZ-PSS-GTMESH 10/04 and installation drawings TD Green Terramesh Install A3.dwg

Working at height - Refer to the Health and Safety at Work Act 2015 regarding the need to take all practicable steps to ensure safety of workers. Further information of on how to prevent falls from height can be obtained from the WorkSafe New Zealand at www.worksafe.govt.nz and Maccaferri Safety Instructions TN-DT-032_Safety instructions for installation.

Supply

Green Terramesh units are pre-assembled during manufacturing (excluding Biomac Grasstrike R300 erosion blankets) and are supplied folded flat in bundles of 34 units. The biodegradable Biomac Grasstrike R300 matting is supplied in rolls 1.8m x 30m and is used where a vegetated face option has been chosen.

Assembly

Prior to installing the assembled units, the foundation shall be prepared to the correct lines and grades. Surface irregularities, loose material, and vegetation shall be removed during the preparation of the foundation.

Units are carried to and placed in their final position. Raise the unit's facing, turn the triangular stiffening brackets perpendicular to the face and connect to the base panel with lacing wire or steel fasteners.

Biomac Grasstrike Placement

The Biomac Grasstrike R300 is rolled out, placed through the triangular brackets located behind the front face of the Green Terramesh unit and fixed top and bottom to the mesh face. Slitting of the Biomac Grasstrike R300 in line with the triangular brackets is required to ensure that it extends horizontally back against the horizontal mesh by at least 400mm top and bottom.

Backfill and Compaction

Approved backfill shall be placed up to 500mm of the face in maximum 300mm vertical lifts and compacted to a minimum of 95% of Standard Proctor Density.

Compaction is to proceed parallel to the slope face, ensuring that the compacting machine does not come within 1m of the face element. Lighter compaction equipment should be used towards the front face zone.

Topsoil Placement

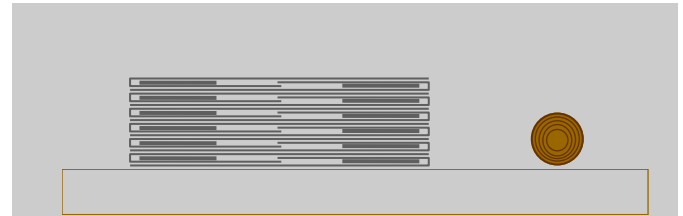
Vegetative soil shall be placed in the 0.3m to 0.5m zone of the structure, behind the Green Terramesh and Biomac Grasstrike R300 face to enable long-term sustainable vegetation growth.

The soil should be firmly compacted by plate or small machine compactor. Overfill topsoil zone by 5% to allow for some local settlement of the vegetative soil.

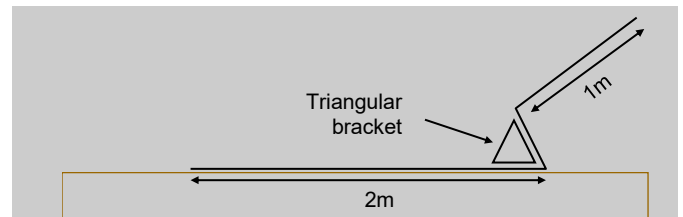
Completion

The Biomac Grasstrike R300 and 1m long Green Terramesh tieback is folded back into the slope ready for the next unit.

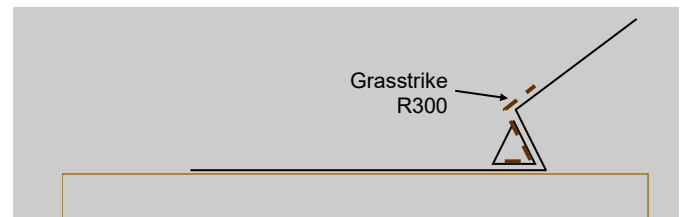
The next row of Green Terramesh units shall be laid out as previously described directly on the lower Green Terramesh units. The upper and lower units shall be all connected along the front mesh shot bar.



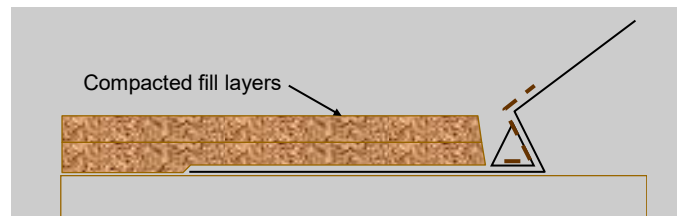
Step 1



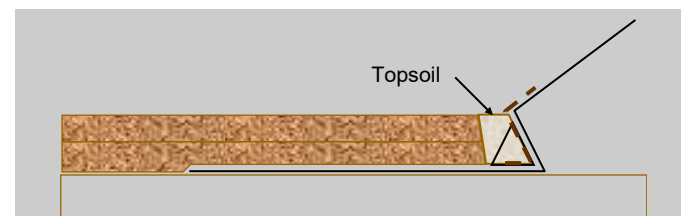
Step 2



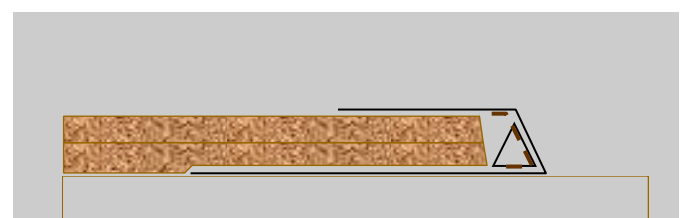
Step 3



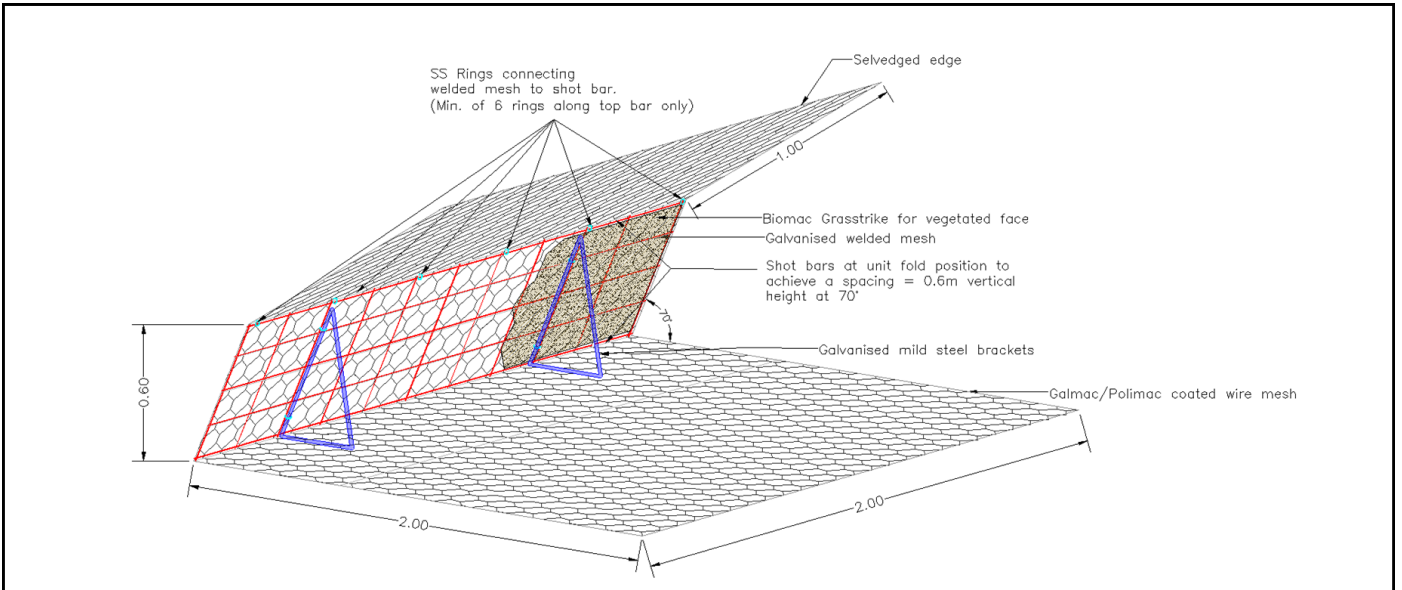
Step 4



Step 5



Step 6



Green Terramesh Unit

Green Terramesh Combined with Geogrid

Installation

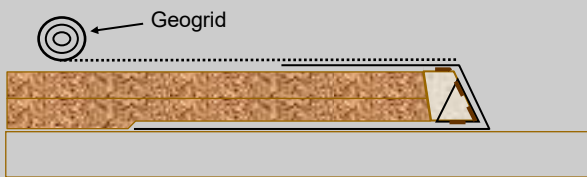
Prior to placing of any geogrid reinforcement, the soil profile shall be graded to the lines and grades shown on the construction drawings. Surface irregularities, loose material, and vegetation shall be removed during the preparation of the foundation.

The geogrid reinforcement shall be laid out in a manner so that the strength direction (roll direction) is perpendicular to the slope face. Proper geogrid orientation is of extreme importance due to the difference in geogrid strengths in either direction. The contractor will be responsible for proper geogrid orientation. All geogrids shall be cut to correct lengths and placed at the correct elevation as shown on the construction drawings.

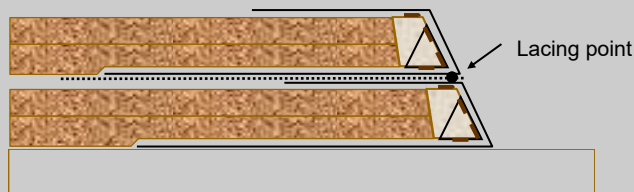
Installation of the Green Terramesh® units and Biomac Grasstrike R300 follows the steps described on page 1. Once the first row of units are placed in position, the units shall be connected through the geogrid layer along the front mesh shot bar using lacing wire or stainless steel fasteners. Note that any connection of geogrid to the facing units is non-structural and has the purpose of holding the geogrid in position at the face allowing the free end to be pulled taut to remove any slack in the geogrid.



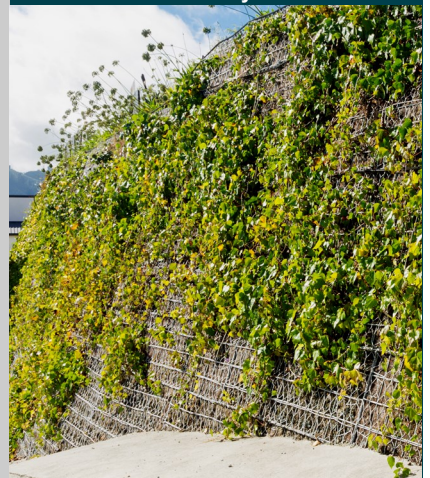
Green Terramesh - Italy



Roll out geogrid and cut to length



Place next layer of Green Terramesh, Biomac and fill



Green Terramesh - New Zealand

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