Jamshedpur Utility Services Limited

Method Statement – Use of StrataWeb® Geocells for Retaining Wall

PROJECT	Method Statement - StrataWeb® Geocells for Retaining Wall
LOCATION	Jamshedpur, Jharkhand
CLIENT	Jamshedpur Utility Services Limited
GEOTECHNICAL AGENCY	-
PROPOSAL	Method Statement
DOCUMENT NO.	-
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PREPARED BY	PVG
CHECKED BY	YRP
APPROVED	SPB

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Method Statement - StrataWeb® Geocells for Retaining Wall

Site Preparation

1. Stone, debris, dead wood, vegetation, etc. shall be removed from the site.
2. The proposed site shall be ready for installation with sufficient man-power, raw material supplies and available space.
3. The subgrade soil shall be excavated and well compacted prior to the construction of the retaining wall base.
4. Presence of any weak or compressible soils shall be replaced with suitable compacted fill (Refer Fig. 1).

Figure 1: Site Preparation

Installation of StrataWeb® sections

1. After the proper compaction of subgrade soil the StrataWeb® geocell of specific width as per the design shall be laid on the subgrade soil.
2. The expanded StrataWeb® sections shall be held in position using temporary anchor stakes in the peripheral cells of the expanded StrataWeb® sections (Refer Fig. 2).
3. The adjacent StrataWeb® panels shall be connected with cable ties.

Figure 2: Installation of StrataWeb® Geocell Sections

Infilling of StrataWeb® sections

1. Once the StrataWeb® sections are held in position the geocells shall be filled with the specified infill material.
2. Once the cells are infilled the temporary stakes in the peripheral cells shall be removed.

Figure 3: Infilling of StrataWeb® geocell

3. Overfill the StrataWeb® geocell sections with infill material approximately 50 to 100 mm above the cell walls. (Refer Fig. 3)

Compaction of infill material

1. Infill material shall be compacted using plate vibrator or by any conventional equipment.

2. The infill material shall be compacted to 95% Standard Proctor.

3. After the compaction of each StrataWeb® geocell layer, scrape off the excess material to expose the top of the cell walls (Refer Fig. 4).

Figure 4: Compaction of infill material

Installation of subsequent StrataWeb® layers

1. The subsequent StrataWeb® geocell layers shall be laid with an offset of minimum 50 mm or as specified in the drawing.

2. Care shall be taken that the alignment of subsequent layers is maintained vertically.

3. Weld to weld placement and the cell to cell placement of subsequent StrataWeb® geocell layers shall be consistent.

Figure 5: Gravity wall using StrataWeb® geocell