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Installation Guidelines

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1. Installation Requirements

The following are required to facilitate acceptable filling and placement of 2.5 m³ EnviroRock® 3PL Geocontainers:

- Filling Equipment as per the attached drawing.
- 5-ton lifting slings that are 6.0 m in length with a loop on each end large enough to fit over the teeth on the bucket of an excavator. Three slings are required to lift and move a geocontainer, therefore a minimum of six lifting slings is required.
- An excavator of appropriate size to load sand and lift sand filled geocontainers.
- Two 1.0 – 1.5 m lengths of rope or straps to tie the geocontainer filling spouts around the hopper filling nozzles.
- 3 – 4 labourers excluding excavator drivers (with suitable safety clothing).

2. Filling

Filling of geocontainers is carried out using an excavator. The bucket should be large enough to allow for rapid filling of the geocontainers but not wider than the filling hopper.



- a) Position the geocontainer filling formwork in a suitable position where the excavator can easily scoop up sand and water to load into the hopper.



- b) Place the detachable hopper on its side in a clear area next to the filling formwork and slide the geocontainer filling spouts over the hopper nozzles.



- c) Fasten the geocontainer filling spouts to the hopper nozzles with rope or suitable straps.



- d) Place the hopper with the geocontainer attached on top of the filling formwork so the geocontainer extends down into it. Prior to this, each of the three lifting slings is draped from the top edge on one side down to the bottom and up the other side, at an even spacing. The position of the lifting straps must be such that they are evenly spaced around the geocontainer hanging down below the hopper.



- e) Load sand and water into the hopper at a rate of approximately 2 excavator buckets of sand to 1 excavator bucket of water. In this way the sand is hydraulically compacted into the geocontainer.

All the water drains through and out of the geocontainer.

The alternative method is to use the excavator to load the sand into the hopper while water is continuously pumped into the hopper through a pipe.



- f) Loosen the ropes tying the geocontainer filling spouts to the hopper nozzles.
- g) Lift the hopper off the filling formwork.
- h) Place it in the clear area next to the filling formwork where the next geocontainer will be attached.



- i) Place the loop on each end of the 3 lifting slings around the teeth of the excavator bucket and lift the geocontainer out of the filling formwork.



- j) It is important for the lifting straps to be evenly positioned across the geocontainer when lifting and moving.



- k) The geocontainer is placed in a holding area where the filling spouts are rolled up, pushed into the geocontainer and the opening then sewn closed by hand using the polyester rope supplied with the bag.



- l) Pre-manufactured holes in the geocontainer make the hand sewing an easy operation.



- m) Move the sand filled geocontainer to where it is to be laid using the lifting straps that are placed around the geocontainer while it is pushed over by the excavator.



- n) Position and tamp down the geocontainer in its final position. Care is necessary when using the excavator to position and tamp the geocontainer because the teeth of the excavator bucket may damage the geocontainer.

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