

Construction technology of high-strength woven geotube

(Provided by Geofantex Geosynthetics)

1. Laying of high-strength woven geotube

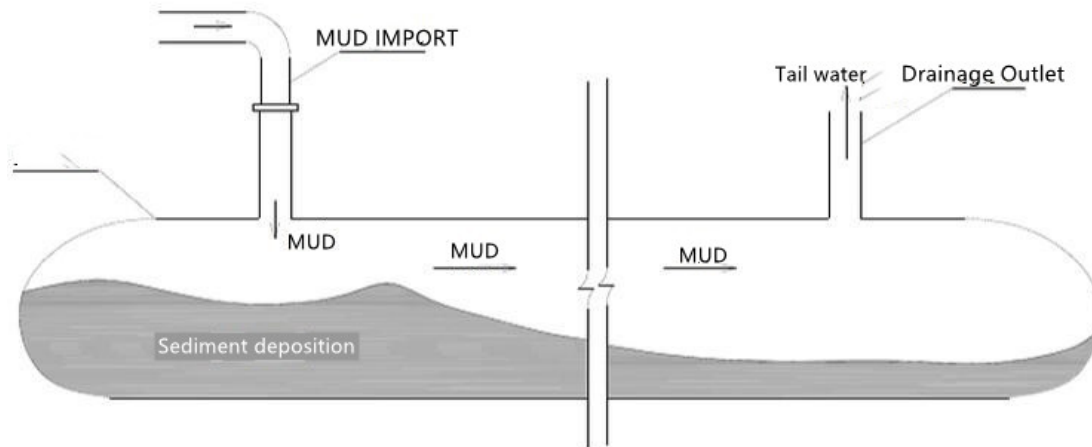
The geotube is laid in the low tide and exposed to the beach manually. Before laying, the stones, debris and other objects that impede the quality should be removed before laying! ! !

2. Fixing of high-strength woven geotube

The processed geotube is transported to the construction site and laid according to the lofting position. In order to prevent the tube bag from rolling, slipping and displacement during filling, and to ensure the accurate position of the geotube bag, the geotube bag should be anchored and fixed after the geotube bag is laid. The anchoring of the bottom geotube bag is done by laying anchor steel pipes on the outside of the geotube bag, and then using the anchoring ring on the geotube bag and the steel pipe to connect and anchor the pipe. After the bottom geotube bag is filled, the upper geotube bag uses the pull ring on both sides to connect to the bottom layer. The filled geotube bag are anchored together by the geo-belts and the lower tube bags.

3. High-strength woven geotube bag filling

The high-strength polypropylene geotube bag is filled with a 22KW flush-suction mud pump unit normally. The mud pump unit is fixed on a flat boat. After the soil is sucked underwater, the mud pump mud pipe is led to the paved bag. In the filling cuff of the body, the mud pipe is used for sand filling. The filling process of high-strength polypropylene geotube bag is shown in the figure.



When filling the geotube bag, the mud is poured into the cuff at one end at the earliest, and the pipe at the other end is drained, which is conducive to sedimentation and efficiency. During the filling process, it is necessary to frequently check the mud and sand accumulation at the mud pipe mouth, adjust the position of the mud pipe mouth in time, and constantly adjust the mud filling cuffs. When filling, manually step on the top surface of the bag body to make the soil particles rearrange and tighten. Make the bag filled with sand evenly and full, ensure the filling is flat, and accelerate the drainage and consolidation speed of the bag body. When the entire sand bag reaches the screen slurry stage, appropriately reduce the filling sand bag machinery or stop filling to prevent the bag from bursting and leave a certain amount of consolidation Dehydration time. During the filling process, the surveyor controls the top elevation of each layer of sand bag according to the cross-section drawing of the sand bag core. If the ideal height is not reached once during the filling process, after the sand bag is slightly consolidated, perform a second or more Fill it up to the desired degree of filling.

When filling, according to the capacity of each sand bag, determine the best mechanical equipment to meet the requirement of filling each sand bag in a tidal water and reaching the ideal filling height. After filling, the cuffs should be tied with geotechnical belt or rope (lead wire is not allowed). Once the sand-filled bag is damaged, it must be repaired with a needle immediately, and the stitch distance of the suture should not be greater than 5mm.

4. Acceptance of high-strength geotube bags

After the filling of each sand bag is completed, the construction team informs the surveying personnel and the quality staff to check and accept the top elevation and axis deviation of each layer of sand bags, and fill in the construction records. Unqualified ones are not allowed to be filled with the upper sand bag. Reconstruction is allowed after completion.

5. Make a record of filling construction

When filling the bag, the filling volume should be observed at any time, the filling tube should be removed when the requirements are met, and the filling construction record should be filled in. During the construction process, the construction inspection should be strengthened, and the bag that does not meet the design requirements should be filled and inspected repeatedly until the entire bag meets the design requirements.