

“Your Savings Are In The Bag”

DEWATERING TUBE INSTALLATION INSTRUCTIONS

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Tube installation shall be in accordance with the following specifications:

The foundation for the placement of the geotextile tube shall be smooth and free of protrusions, which could damage the geotextile. Remnant timber piles, piers, footings, underground utilities, etc., at or below grade, shall be removed if located within 6.0 m (20 ft) of the project site. Weak or unsuitable foundation material shall be removed or stabilized. The dewatering area shall be graded to a maximum slope of 1%. The dewatering area shall have a non-erodable surface (gravel, grass, asphalt or concrete) or shall be lined with plastic sheeting.

DEPLOYMENT

Tubes shall be aligned as straight as possible. Means of assuring that the tubes are properly aligned within the specified tolerances shall be incorporated into the placement methodology presented the Plan of Construction. The geotextile tubes shall be deployed along the alignment and secured in place as necessary to assure proper alignment after filling. No portion of the tubes shall be filled until the entire tube segment has been fully anchored to the foundation along the correct alignment and pulled taut. Larger tubes may require concrete barriers to prevent the tubes from rolling during filling. All unused fill ports shall be tied closed.

FILLING

After completing the deployment and anchorage of the geotextile tube, filling with dredged material shall be accomplished in accordance with the approved Plan of Construction. The discharge line of the dredge shall be fitted with a “Y-valve” to allow control of the rate of filling. The Y-valve system shall be fitted with an internal mechanism such as a gate, butterfly valve, ball valve, or pinch valve to allow the contractor to regulate discharge into the geotextile tube. Any excess discharge shall be directed away from the tubes toward the borrow area. The dredge discharge pipe shall be free of protrusions that could that could tear the fill port. It is generally accepted practice to support the dredge discharge pipe above the fill port in a manner, which reduces stress on the fill port seams. The height to width ratio of the full-deployed tube shall not exceed a value, of 0.5. Other height and width specification may be required by the Engineer to assure sliding, overturning, bearing capacity, and global stability of the tube system. If the tube is not to be externally backfilled, the area should be left in a neat and properly graded manner. If the tube is to be externally backfilled, the lines and grade on the Plan of Construction must be followed. The tubes shall not be filled higher than the manufacturer’s recommended height.

PROTECTION

No hooks, tongs or other sharp instruments shall be used for handling. The geotextile tube shall not be dragged on the ground.

RECOMMENDED FILL HEIGHT

Ask for the recommended fill height for your specific product.



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