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TECHNICAL DATA SHEET

GS TUBE
INSTALLATION PROCEDURE

1. Before site mobilization and starting Geo Tube Installation the site has to be properly inspected for creatining mud slury pit as per desired size and identifying mud & water supply, DG set supplier & JCB supplier.
2. The entire site is then mobilized with the required manpower, mud pump, tools and other miscellenous consumable and support items & proper Storage area with Security is created.
3. Geo Tubes are huge sand filled containers and are typically installed at the base of the Embankment to provide maximum protection against scouring & providing a volume mass during heavy flood / high velocity water flow.
4. First of all a mud slurry pit is created and a slurry is created as per desired fill proportion. Then the mud pump, at least 15HP, is immersed in the slurry pit and secured from top to prevent toppling down. As you move along the length of the site you need to keep on creating new slurry pits and re mobilize your equipments.
5. The entire site is then cleared of stones, wood, plant, vegetation, dirt or any alien material either manually or mechanically by JCB.
6. Then Earth Work is done using excavators and backhoe loader and the entire site is prepared for Geo Tube Installation.
7. A Geo Textile filter fabric is then anchored & installed from top of embankment up to 1 Mtr. beyond the width of Geo Tube installation.
8. Geo Tubes installation starts by placing and positioning at least 3 Geo Tubes at a time in length and anchoring them with long wooden pegs so that there is minimal displacement. Even sand filled Geo Bags are used at the base of the Geo Tubes to minimize the Geo Tube displacement during filling.
9. Filling starts at one port of the Geo Tube by properly connecting the pipe / hose of the pump firmly securing it in with the Tube. Multiple Pumps can help pump multiple tubes at a time, this is recommended for large installations.
10. Pumping starts and the Geo Tube is filled with slurry up to the desired height and kept to rest for dewatering. Constant monitoring and walking on Tube is needed to even out the fill.
11. Once the Geo Tube Dewaters completely keep filling up the Tubes repeatedly till the entire Tube is filled with sand and desired height is attained.
12. Steps (4) to (10) are continuously repeated throughout the entire length of the site.

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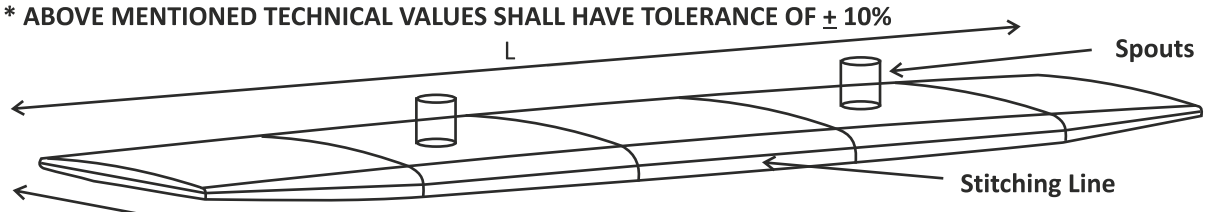
TECHNICAL DATA SHEET

GS TUBE
INSTALLATION PROCEDURE

GS Geo Textile Bags are made from high quality Needle Punch Non Woven Geo Textile Fabrics. Manufactured under strict quality control system GS Geo Bags are made to suit any design needs and are made as per customer needs, size and delivery time. GS Geo Bags uses all 1st grade raw materials.

PROPERTIES	UOM	TEST METHOD	VALUE
FABRIC			PP Woven MF /
			PP NP Non Woven
Mass Per Unit	GSM	ASTM D 5261	350-500
Wide Width Tensile Strength (MD)	kN/m	ASTM D 4595	50-120
Wide Width Tensile Strength (CD)	kN/m	ASTM D 4595	50-120
Wide Width Tensile Elongation	%	ASTM D 4595	15-25
CBR Puncture Strength	kN	ASTM D 6241	6-9
Apparent Opening Size	Micron	ASTM D 4751	75-250
Water Flow Rate	l/min/m2	ASTM D 4491	500-800
UV Resistance	%	ASTM D 4355	80@ 500 hours
			20 X 3
DIMENSIONS	MTR	(L X W)	20 x 5
			30 x 5

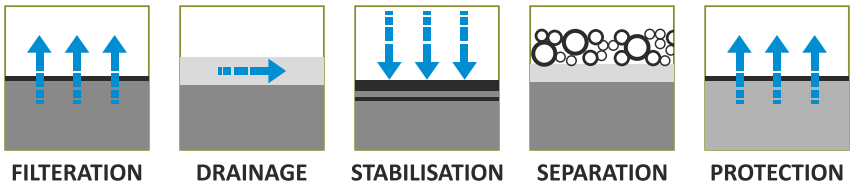
*** ABOVE MENTIONED TECHNICAL VALUES SHALL HAVE TOLERANCE OF ± 10%**



PILLOW TYPE GEO TUBE / DEWATERING GEO BAG







We can do OEM packaging and private labeling for bulk orders

- Above values are obtaining in our laboratory and are MARV Values (67.5 % Level of Confidence)
- Tolerance: Physical & Mechanical: - 10 % & Hydraulic: - 30%
- There may be variation in above values due to various factors when tested at other laboratory.
- The above values may also vary if the fabric is converted in to any value added product or used in combination with other products.
- The values may also change due to transportation damages & improper storage and handling at site.
- Client shall ensure that Storage is strictly done as per ASTM standard.
- The values are not intended as warranty / guarantee and Geo Source assumes no liability in connection with this information.

ISO 9001 : 2015

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