

## FOREST POINT MUDTUBE SPECIFICATION

The Forest Point MudTube shall be manufactured from Polypropylene or Polyethylene with the following properties. The standard MudTube N4-700 series shall be applicable for general purposes and the Geotube series shall be recommended in extremely adverse situation.

### Basic properties

Item	Description	Properties					Test Standard
		MudTube N4-700	Geotube 160	Geotube 250	Geotube 275	Geotube 325	
1	Form	Sealed tube with inlet sleeve					
2	Chemical Composition	Nonwoven UV Stabilized PP	Woven UV Stabilized PP	Woven UV Stabilized PP	Woven UV Stallized PP	Woven UV Stabilized PP	
3	Wide Width Tensile Strength	>30kN/m	>80kN/m	>100kN/m	>120kN/m	>120kN/m	ISO 10319
4	Nominal Elongation	80%	13%	14%	14%	14%	ISO 10319
5	CBR Puncture Resistance	>4.5kN	>10kN	>12kN	>16kN	>16kN	ISO 12236
6	Drop Cone	<13mm	<6mm	<6mm	<5mm	<5mm	EN 918
7	Apparent Opening, $O_{90}$	<90 $\mu\text{m}$	<250 $\mu\text{m}$	<250 $\mu\text{m}$	<200 $\mu\text{m}$	<200 $\mu\text{m}$	NEN 5168
8	Nominal Dimension ~ Before filling	7.8m perimeter	5.0m perimeter	7.8m perimeter	8.6m perimeter	10.2m perimeter	
	~ After filling	3m (width) x 1.1m (depth)	2m (width) x 1.0m (depth)	3.2m (width) x 1.5m (depth)	3.5m (width) x 1.7m (depth)	4.2m (width) x 2.0m (depth)	
9	Estimated filling quantity	2.8m <sup>3</sup> /m	1.7m <sup>3</sup> /m	4.1m <sup>3</sup> /m	4.9m <sup>3</sup> /m	6.9m <sup>3</sup> /m	

### UNIQUE ADVANTAGE OF FOREST POINT MUDTUBE SYSTEM

#### **Durability**

- § The exposed side of Forest Point MudTube shall be protected by a designed thickness of Stone Armour against wave action. This will ensure the long-term durability of the system while maintaining all other important requirement of the containment bund design

#### **Construction Friendly**

- § Forest Point MudTube can be installed easily by hydraulic filling.
- § In the event that reclamation need to be carried out in shallow water, barges carrying stones normally find difficulty to approach; hence Forest Point MudTube usually proved to be the ideal solution for the bund construction.

#### **Environmentally Friendly**

- § The Construction of MudTube involves very minimum disturbance to the environment as the system is self-contained.
- § MudTube construction usually demands for the use of the locally available dredged material or locally available sand source for filling; hence less environmental impact.

#### **Lighter Mass that ensure better stability over Soft Foundation**

- § Density of Rock Bund = 22-26kN/m<sup>3</sup>
- § Density of Dredged mud or Sand ~ 17kN/m<sup>3</sup>

#### **Tailor- Made**

- § Forest Point MudTube can be tailor-made to suit the construction equipment available.
- § Special features can be incorporated for the specific requirements.