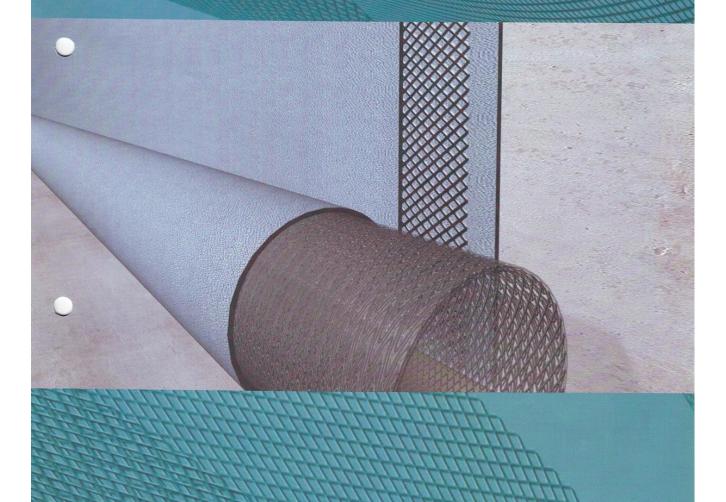
GEOSYNTHETICS

Flo-Drain

The ready-made solution to sub-soil drainage





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Flo-Drain

The ready-made solution to sub-soil drainage

Most road, railtrack and slope failures can be attributed to the presence of sub-surface water. With increasing costs of transport, labour and suitable aggregate, there is a need for a more economical sub-soil drainage solution.

Applications

The Flo-Drain can be successfully used in the lowering of the water table or intercepting seepage in a wide range of applications.

- · Roadside edge drains
- · Railtrack formation edge drainage
- Sportsfields, golf courses, tennis courts and bowling greens
- Behind retaining walls and bridge abutments
- Behind flexible retaining wall structures
- Around buildings and structures
- · Courtyards, embankments and driveways
- Agricultural lands

Advantages

Many important advantages can be provided when deciding whether to use a conventional aggregate drain or a premanufactured Flo-Drain system in any application.

Economic Considerations

- · Material costs influenced by:
 - availability of good quality natural drainage materials
 - cost of material and transport
 - ease of handling and placing
 - wastage of drainage material
- Excavation costs
- · Reduced trench widths
- · Suitable selected backfill being available
- · Removal of spoil
- Supervision

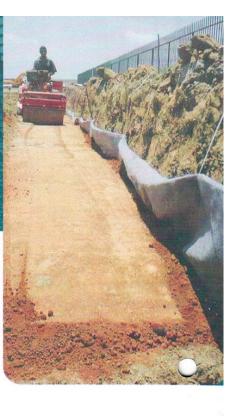
Design Considerations

(For effective draw down of the phreatic surface)

- Depth of drain
- Frequency (spacing)
- · Permeability of the soil

Practical Considerations

- Site access
- · Soil conditions
- · The use of trenching equipment
- · Speed of installation
- · Confined areas
- Resistant to biological action and most chemicals



Benefits

- Prefabricated system
- · Ease of installation
- · Flexible system
- · Lightweight product
- · Quality assurance

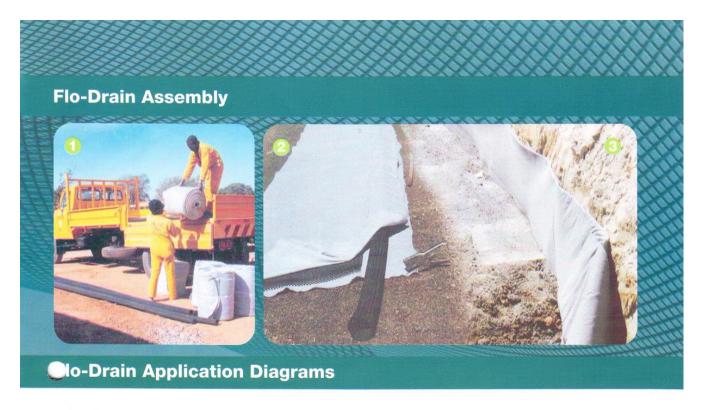
On site assembly and installation

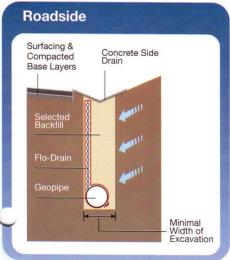
See adjacent photographs 1, 2 and 3 for assembly.

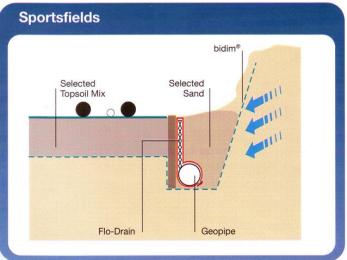
- The Flo-Drain fin is supplied preassembled (Geopipe separately).
 - The Geopipe is positioned at the base of the fin, solid channel down, and the geotextile flap firmly secured around it, joined by means of wire, twine or stapling.
- The Flo-Drain is placed vertically into the trench. With selected fill, set the Flo-Drain against the downstream face of the trench.

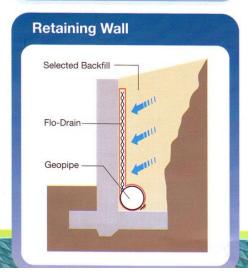
With unselected fill set the Flo-Drain against the upstream face.

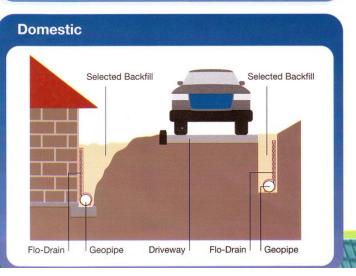
Backfill must be well compacted in layers. Backfill must be a well-graded, free-draining material.



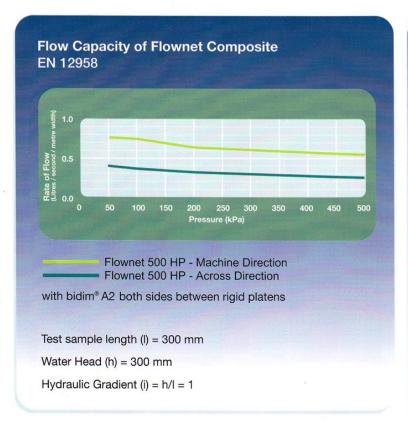


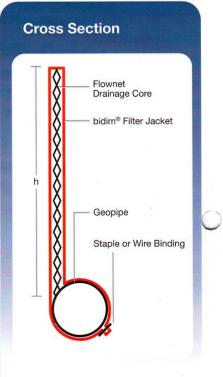






Specifications





Flownet 500 HP

Constituent Polymer	HDPE	F 7650
Vicat Softening Point (°C)	70	ISO 306
Tensile Yield Strength (MPa)	21	ISO 5772
Maximum Service Temperature (°C)	85	
Overall Thickness (mm) @ 2 kPa	4.0	
Weight per unit area (g/m²)	500	
Tensile Strength (kN/m)	MD	5.3
	AD	3.0
Mesh Angle (degrees)	55	

Chemical Resistance: Resistant to most chemicals and organisms normally encountered in natural soils or when immersed in fresh or salt water.

Geotextile Filter Jacket

A continuous filament needle punched nonwoven polyester geotextile. For detailed specification consult "Geotextile Filter Design Guide", (2007). The document is available from your Kaytech representative.

Flo-Drain Sizes

Standard Height (h)	Between 400 mm and 2000 mm
Length of Roll	30 m

Contact your Kaytech Representative

Geopipe

70% of the Geopipe surface area is perforated, giving unmatched infiltration capacity.

All the components of the Flo-Drain are manufactured in South Africa