



**SILTSTOP®** are the latest geo-engineering technologies available to the mining, earthworks, and construction industries. They have a variety of uses including:

- Retention and filtration of sediment
- Cost-effective engineered walls
- Growth medium for vegetation
- Track and pavement support
- Stabilisation of erosion scarps and slips
- Stream bank repair and armouring
- Control and direction of overland flow (storm water, stream diversion, clean water by-pass)
- On-demand supply of flocculant for sediment removal

Siltstop can be filled on site, in-place, using a variety of products - either imported or sourced from site. Filling of Siltstop can be undertaken using auger/blower technology for bark, wood chip, compost, and any other available site construction material (e.g., fill). 3m-6m 150mm Siltstop lengths can be manufactured at our factory for delivery anywhere in New Zealand or with blower technology we can fill on-site to any length up to 100m at distances up to 90m from road access.

Siltstop are typically constructed in two sizes to suit application requirements including 300mm and 150mm filled diameter. Other sizes can be made to suit specific requirements.

Siltstop load-bearing capacity can be strengthened using 3mm 1.5 tonne break load Dyneema cord to secure to anchor points. This provides load-bearing support, secure anchoring in high-flow conditions, and can be used by engineers to design load-bearing walls. The lock-stitch knit design ensures that laddering after puncture of the fabric is minimal which prevents elongation failure of the Siltstop

#### Specification

Base Material:	UV stabilised high density polyethylene
Durability:	10 years
Construction:	Warp knitted with lock-stitch
Thread overlock:	100% polyester UV stabilised
Fabric Weight:	100gsm (approx)
Weight 150mm (50m unfilled Siltstop):	2.3kg* (portable)
Weight 300mm (50m unfilled Siltstop):	7kg* (install in place)

\* Filled weight is dependant on product used

#### Application

- Siltstop filled with coarse bark and compost can filter fine sediment from flowing water.
- Siltstop filled with nutrient-enriched compost can be used as a growing medium for unstable slopes, road, track cuttings, and stream margins to create a long-term aesthetic bioengineered solution. Seed can be added to the filling mix during manufacture.
- Siltstop can be filled with anything providing a solution for containing loose unconsolidated material.
- Siltstop can be used to contain floc blocks for the slow dispersal of flocculants to encourage the removal of fine sediment and colloidal clays.
- Siltstop can be filled with wool for hydrocarbon containment (aquatic and land spills)

For further information contact:

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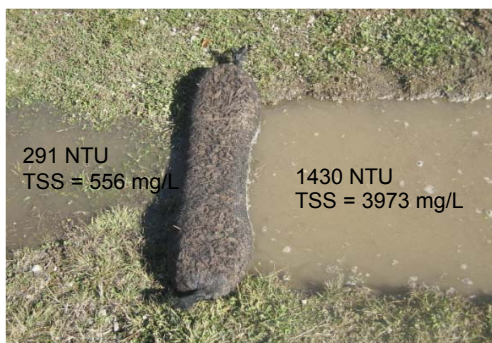
The following figures demonstrate some of the wider applications of Siltstop technology:



*300mm Siltstop used for road support (State Highway 26, New Zealand).*



*300mm Siltstop used to control overland flow velocity thereby removing sediment and other debris by sedimentation and filtration*



*150mm Siltstop used to remove coarse sediment and filter the finer sediment fraction*



*300mm Siltstop used as cost-effective silt fencing for construction projects (Manukau, NZ)*

### **Blower Technology and Installation**

Evergreen in conjunction with our alliance partners can provide blower technology to install 150mm and 300mm Siltstop on site at distances up to 90metres from road access.

### **Erosion Control Services**

Evergreen can provide a complete range of erosion control services from the development of management plans to on-site installation of erosion and sediment control systems. When speciality equipment is required we source this gear from our strategic alliance partners.

### **Cost**

Siltstop are cost competitive compared to standard silt fence systems that require considerable effort to construct. Siltstop can be reused. Siltstop are rapid to place and installation costs are dependant on the length of Siltstop needed and whether filling on site is required.

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