

DRAINTUBE™



**In roadworks and
civil engineering**

High-performance and environmentally friendly drainage.

For years stone has been used to provide drainage for roadways.

DRAINTUBE™ offers an effective alternative to stone while at the same time offering a number of advantages, namely:

- Lower costs,
- Faster construction,
- Less excavation and/or backfill
- Better performance,
- Lower greenhouse gas emissions.

Effective road drainage increases durability and performance. **DRAINTUBE™** helps to control the harmful effects of freeze-thaw cycles, high water tables, saturated subgrades and heavy loads.

DRAINTUBE™
The drainage you want!

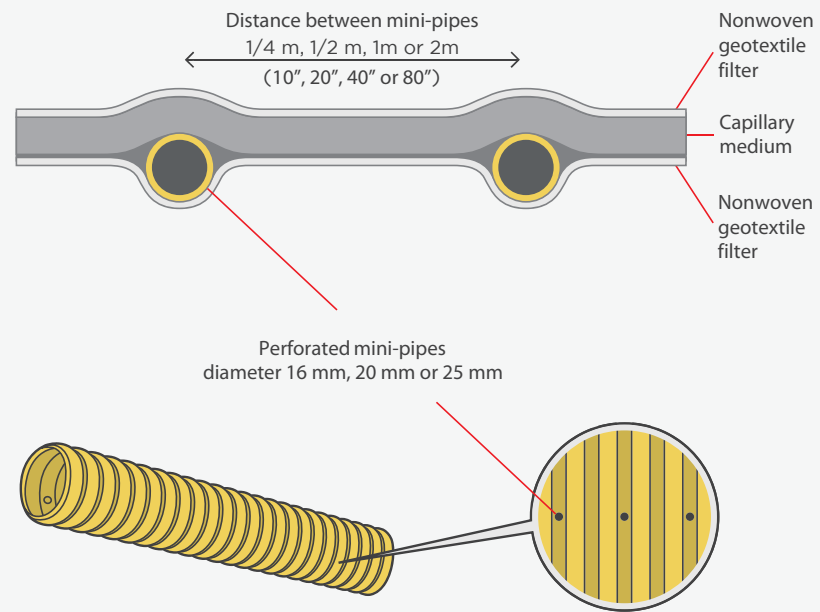
Combining simple and proven geotextile and pipe technology that has been standard for many years, **DRAINTUBE™** is manufactured to exacting standards to ensure optimum performance under the most difficult conditions. Each roll performs the functions of separation, filtration and drainage - essential for building better roads.

With its needed structure, **DRAINTUBE™** can be customized to meet project specific hydraulic, filtration and separation. That's why we say that **DRAINTUBE™** is the drainage you want. Our Lympha software helps the designer choose the appropriate performance properties to solve whatever problems they might encounter.

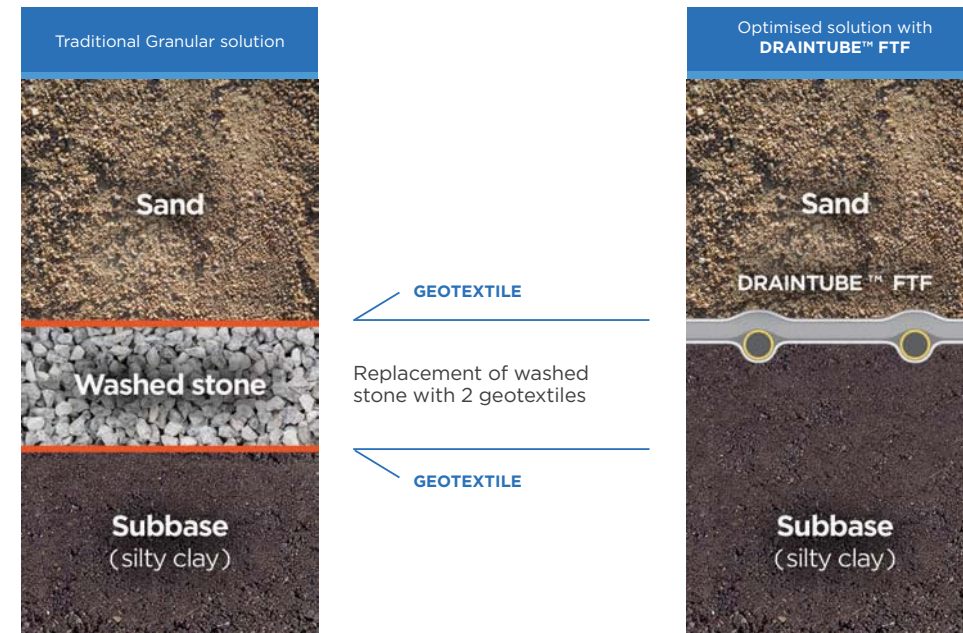
DRAINTUBE™ offers economic, technical and environmental advantages over granular drainage solutions in many civil engineering applications.

DRAINTUBE™ FTF

Extensive laboratory and field testing, plus over 20 years of in-ground experience, proves how soil arching allows **DRAINTUBE™** to withstand the heaviest loads.



For roadwork engineering



For backfilled slope or reinforced walls



DRAINTUBE™ advantages:

DRAINTUBE™ does away with the need for a layer of clean stone and two geotextile separators and it saves excavation time. **DRAINTUBE™**, specifically sized for the project, provides the same hydraulic capacity as a layer of clean stone.

- Cost savings. The financial advantage over the clean washed stone is evident. There is no need to travel back and forth to a quarry to gather sand.
- Logistics. Cutting down on the travel time also means the job can be completed sooner.
- Construction. It is much easier to install **DRAINTUBE™** on a low foundation than a layer of clean gravel on a geotextile separator.
- Helping the planet. Replacing multiple truckloads of stone with **DRAINTUBE™** consumes much less carbon, significantly lowering the effects of greenhouse gas.

Stone transport savings Many advantages

Total distance saved	Fuel quantity	Number of travel saved	GHG emission (CO ₂ equivalent metric tons)
5,400 km (3,376 mi)	1,660 litres (438 gal)	180 round trips	4.58

(Figures based on a covered area of 10 000 m² (107,640 ft²) using as an example a washed stone deposit situated 15 km (9.3 mi) from the construction site.)





DRAINTUBE™ offers:

- ▶ 3 perforated pipes size options: 16, 20 and 25 mm
- ▶ 4 perforated pipe spacing options: 2 m, 1 m, 1/2 m, 1/4 m (80", 40", 20", 10")
- ▶ Multiple geotextile options
- ▶ Available transmissivity between $2.5 \cdot 10^{-4}$ to $4 \cdot 10^{-3} \text{ m}^2/\text{s}$ at $i=0.1$
- ▶ No change in transmissivity up to 2 500 kPa (50,000 psf)
- ▶ Low creep reduction factor
- ▶ No geotextile intrusion
- ▶ Standard roll size: 3.98 m x 75 m (13.1' x 246')
- ▶ Faster and easier to install than other types of geocomposites, no tying required!
- ▶ Consistent QA/QC
- ▶ Competitively priced!

Produced by

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