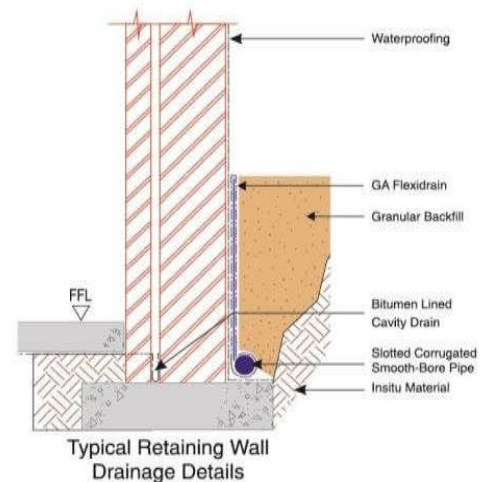


Findrains or **Wickdrains** are prefabricated subsurface drainage products that replaces conventional granular drains effectively and economically, offering considerable time and cost saving. This is significant, especially if the haulage distance for imported drainage aggregate is extensive. Drainage composites are successfully used around the world and throughout Southern Africa. The most common application includes installation in road and railway subsoil drainage systems. Other applications include leachate and gas collection systems; structural drainage behind retaining or outer basement walls; beneath ground bearing floors; green roofs and domestic gardens. **Wickdrains** offer similar subsurface drainage functionality. They are typically used in vertical systems as opposed to horizontal drainage applications and do not include a flap to accommodate the drainage pipe.

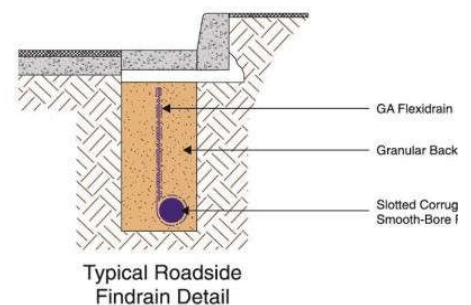
CRITERION SELECTION FOR DRAINAGE SYSTEMS:

- The geotextile wrapped around the drainage core should be hydraulically compatible with the insitu soil.
- The non-woven geotextile jacket should be thermally treated so as to intrude into the flowpath and restrict the free flow of liquid into the drainage core.
- The geotextile and drainage core should have high bacterial and chemical resistance suitable to the environment, to ensure long term durability.
- Robust material properties to cope with various construction installation procedures.



CRITERION SELECTION FOR DRAINAGE SYSTEMS:

- Cost effective solution.
- Provides and maintains high flow paths for liquids and gases.
- **Fibertex South Africa** offers a range of woven and non-woven geotextiles suitable for most soil types.
- Robust and light weight.
- Flexible, easy to handle and install, which contributes to overall project cost saving.
- Prefabricated for quality assurance.



FINDRAIN COMPONENTS:

Drainage Core:

Flexidrain is a 5mm thick drainage core manufactured from extruded High Density Polyethylene (HDPE) strands. This product is designed to transport water and/or gas via the netted void formed within its structure. Please refer to the relevant product data sheets for further details and product specifications.

Geotextile Jacket:

The geotextile jacket is a Fibertex polypropylene (PP) non-woven geotextile, usually F-25 SA or F-34 SA. Alternatively, Polytex woven tape geotextile, usually PT110 or PT 115. Please refer to the relevant product data sheets for further details and product specifications.

Drainage Pipe:

The drainage pipe should be a rigid, corrugated, smooth bore slotted pipe for the system. We recommend the Fibertex Drainage pipe available in $\varnothing 75\text{mm}$, $\varnothing 110\text{mm}$ or $\varnothing 160\text{mm}$. Please refer to the relevant product data sheets for further details and product specifications.

INSTALLATION METHOD:

- Prefabricated for quality assurance.
- Unroll onto a clean, dry surface and lift up the top flap of the geotextile.
- Place slotted pipe with solid invert in correct position on bottom piece of geotextile and close flaps.
- Staple flaps at 200mm centres, or strap flaps around the pipe with wire or twine at 500mm centres.
- Excavate the trench to line and levels and place the assembled drain on the upstream side of the trench, or hang centrally if the trench is not uniform.
- Backfill and compact to engineers detail, usually with a clean granular river or building sand.
- **Findrains** are available in the following standard heights with F-25 SA or F-34 SA geotextiles:
400mm, 500mm, 667mm, 750mm, 1.0m, 1.5m & 2.0m x 25m standard roll lengths
- **Wickdrains** are available in the following standard widths with F-25SA or F-34 SA geotextiles:
100mm, 200mm, 250mm, 330mm, 400mm & 500mm x 25m standard roll lengths



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