

Draincoil® is a corrugated subsoil drainage system available in diameters from 50mm to 160mm. Draincoil is supplied in coils from 10m to 200m in length. Uniformly spaced slots in the valleys of the profile corrugations provide an even drainage pattern along the entire pipe length. Unslotted draincoil is also available.

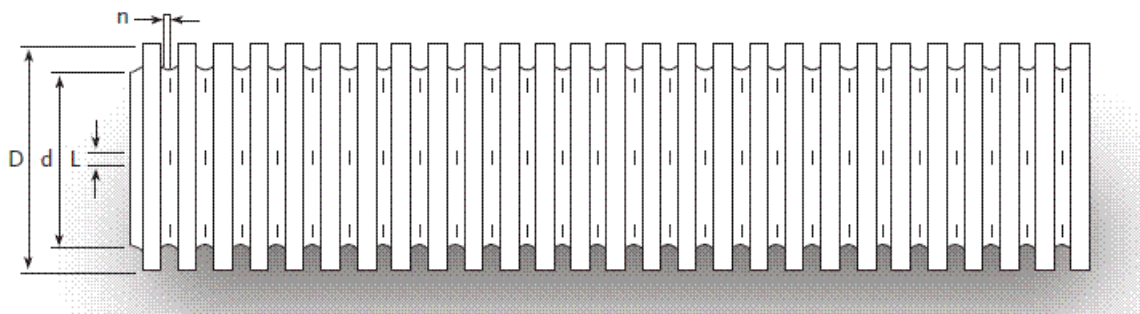
Draincoil® is used for subsoil drainage for civil applications such as beneath roads and structures, in land drainage applications such as sports fields, parks and gardens and in agricultural applications to help overcome such problems as salinity, high rainfall, high water tables and hillside soaks.

## Pipe Classes

Draincoil pipes are available in two classes. The class rating may be used as a guide to the type of wheel load or traffic conditions to be encountered in service and is related to the stiffness.

**SN 8 (Class 400)** – Suitable for road or civil engineering works not subjected to heavy traffic

**SN 20 (Class 1000)** – Suitable for works subject to heavy vehicular traffic loads



## Draincoil Dimensions

Nominal Diameter DN	SN	Outside Diameter D (mm)	Inside Diameter d (mm)	Slot Size n x L (mm)	No. of slotted rows	Water Entrance Area (mm <sup>2</sup> /m)
50	8	50	44	1.25 x 4	6	1500
65	8	65	55	1.25 x 5	6	1500
80	8	80	68	1.25 x 5	6	1500
100	8	100	86	1.25 x 7.4	6	1500
100	20	100	86	1.25 x 7.4	6	1500
160	8	160	138	1.25 x 5	6	1500

Notes:

- SN 8 – Polyethylene
- SN 20 – PVC
- Filtersock can be supplied separately or fitted on Draincoil

## Filter sock

In some fine sand and coarse silt soils, a geotextile sleeve or 'filter sock' may be used to prevent fine granular filter material entering the slotted pipe. The filter sock stabilises the soil by bridging the pipe corrugations and supporting the soil immediately around the pipe. This restricts the sediment from entering the drainline.

Filter sock material is available in 'POLYESTER' fabric in two grades, standard and RTA grade for general and road applications. The RTA grade is a heavier fabric and conforms to NSW Roads and Maritime (formerly RTA) specifications. A special chemical resistant 'POLYPROPYLENE' filter sock is also available for mining and industrial applications.

## Fittings

A comprehensive range of simple push together fittings which lock to the corrugations of the Draincoil pipe completes the Draincoil system.

Fittings include couplings, caps, tees, 45° Y junctions, crosses and adaptors to connect to PVC stormwater and DWV pipes

Custom fabricated fittings are also available.

## Benefits

**Ease of Installation** – Draincoil is available in easy-to-handle coils. Because of its light weight, it can be transported over difficult terrain and across wet areas during installation. The long lengths facilitate high speed installation using a backhoe, chain digger or direct ploughing into the soil.

**Flexibility** – Draincoil pipes can be installed continuously around curves and corners of 300mm radius without the need for additional fittings. Any soil movement is accommodated by the flexibility of Draincoil.

**Effective Drainage** – Drainage water enters Draincoil through the uniform slot patterns in the protected valleys of the corrugations. An even entry of water along the pipe length provides efficient and effective drainage.

**Robustness** – The corrugated structure provides excellent strength to resist external loads from either soil backfill or vehicles, once installed.

**Effective Drainage** – Drainage water enters Draincoil through the uniform slot patterns in the protected valleys of the corrugations. An even entry of water along the pipe length provides efficient and effective drainage. Uniformly arrayed small holes and high hole density give optimum drainage, creating a uniform hydraulic gradient through the filter medium, and slots with an aspect ratio minimum of 4:1 enable arch formation of small grains without clogging.

**Corrosion Resistance** – Draincoil is unaffected by aggressive soil conditions. The chemical resistance of the polyethylene and PVC materials used in its manufacture is well established and documented.