Range catalogue

Draincoil®
by Vinidex.

Flexible corrugated subsoil drainage system.



Interested in our Draincoil range?
Call us on **13 11 69** or visit **vinidex.com.au**

Vinidex
by aliaxis

Confidence flows here.

Draincoil by Vinidex is a proven subsoil drainage solution designed to deliver reliable performance, fast and easy installation, and long-term durability across demanding site conditions.

Flexible enough to move with the ground, it helps reduce project risk and keep jobs moving. Backed by Vinidex's local expertise, supply chain reliability and comprehensive support resources, Draincoil delivers confidence at every stage of the project.

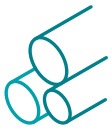




Locally made using sustainable materials

Manufactured in Australia using recycled material, giving customers a more sustainable drainage solution without sacrificing performance or reliability.

- **Australian made:** Draincoil is manufactured in Australia.
- **Sustainable:** Made using recycled content making it suitable for projects with sustainability and compliance requirements.
- **Nationally available:** Readily available through plumbing, irrigation and rural suppliers across Australia, with direct ordering options available when required.



The industry's broadest range of sizes

Draincoil offers the industry leading range of sizes, configurations and fittings, making it easier to find the right solution for different site conditions, applications and project requirements.

- **Sizes:** Available in the size you need – 50mm, 65mm, 100mm and 160mm diameters.
- **Type:** Slotted, Unslotted and Filter Sock options available to meet your project requirements.
- **Versatile:** Multiple SN ratings for different applications and load requirements.
- **Accessories:** Comprehensive range of fittings and adaptors, enabling smooth installs.
- **Draincoil MAX:** 100mm x 500m lengths. Ideal for projects that need extra long pipes.



Fast and easy to install

Easy to handle and install, helping to reduce costs. Long coil lengths, flexible pipe design and fewer fitting requirements simplify the installation process.

- **Fewer joints:** Fewer joints means fewer failure points and faster installs.
- **Flexible:** Bends around curves without extra fittings, saving time and materials.
- **Lightweight:** Easier handling reduces labour strain and speeds install.



Built for long-term performance

Designed to perform in demanding ground conditions, with durable materials and a flexible structure that can handle soil movement, moisture and external loads over time.

- **Strong:** Corrugated structure resists external loads once installed.
- **Resistant:** Resistant to corrosion and aggressive soil conditions.
- **Compliant:** Designed and tested in accordance with relevant Australian Standards.



Applications

Draincoil by Vinidex provides effective subsoil drainage across a wide range of civil, recreational and agricultural applications. Its flexible corrugated design helps manage excess water and maintain stable ground conditions, with a range of sizes and types to suit different site requirements.

Civil projects

Changes in subsoil moisture, particularly those with clay content, can cause expansion and contraction, ground heaving and cracking. Excess water can also reduce the soil's load-bearing capacity and shear strength.

Effective subsoil drainage helps control the water table and stabilise surrounding soil, supporting the strength and integrity of roads, buildings and other structures. Draincoil is suited to a range of civil applications, including:

- Roads and infrastructure.
- Retaining walls.
- Building and housing foundations.
- Underground masonry, helping prevent water penetration and associated damage.
- Mining and quarry projects, including sand and heap leaching and sludge pits.

Its flexible corrugated design can accommodate ground movement and external loads, making it a reliable choice for demanding civil environments.



Land drainage

Recreational areas such as sports ovals, race tracks, golf courses, parks and gardens require effective drainage to manage excess water following heavy rainfall.

Draincoil moves water away from the surface to support more usable and reliable ground conditions. It helps by:

- Removing excess water following heavy rainfall.
- Reducing surface waterlogging.
- Supporting faster recovery of recreational surfaces.
- Maintaining more consistent ground conditions.

With a broad range of sizes and configurations available, Draincoil can be tailored to suit the drainage requirements of different recreational and landscaped environments.



Agricultural drainage

High rainfall, high water table, hillside soaks and salinity can all affect soil conditions and agricultural productivity.

Draincoil manages excess water within the soil profile to create more favourable growing and working conditions. This includes:

- Improving soil aeration and soil structure.
- Supporting plant growth.
- Reducing surface pugging caused by vehicles and stock.

Lightweight and available in long coil lengths, Draincoil is easy to handle and install across larger agricultural sites.





Designed to perform below the surface

Water entry performance

Slots are positioned in the valleys of the corrugations to allow water into the pipe while helping protect the openings during installation. The uniform slot pattern provides water entry along the pipe length.

Flow performance

Pipe diameter, gradient, slot configuration, filter selection and outlet design all affect drainage performance. Select the product to suit the soil type, catchment area and discharge requirements.

Structural durability

The corrugated profile provides stiffness once the pipe is installed. Load performance depends on trench preparation, backfill, compaction, cover depth and traffic exposure.

Configurations

Available in slotted and unslotted configurations. Use slotted pipe for water entry and unslotted pipe where water needs to be carried without additional collection.

Filter solutions

Available with standard or heavy-duty Filter Sock options.* Filter selection should be matched to the soil type, expected fines, aggregate and site conditions.

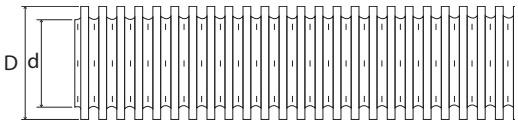
System components

Compatible fittings and accessories are available for pipe connections, junctions, transitions and outlet arrangements.

*Filter Sock can be supplied separately or fitted on Draincoil.

Product data

SN	Nominal Diameter DN (mm)	Outside Diameter D (mm)	Inside Diameter d (mm)	No. of slotted rows	Minimum Clear water opening (mm^2/m)	Coil Length (m)	Coil Mass Approx (kg)
8	50	50	44	6	1500	20/200	1.75/35
8	65	65	55	6	1500	20/200	2.3/46
8	100	100	86	6	1500	20/50/100	4.75/9.5/48
8	160	160	138	6	1500	40	34.4
20	100	100	86	6	1500	20/100	70
8	100	100	86	6	1500	500	234.5
8	100	100	86	6	1500	500	220.2



How it works

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.



Classification

Pipe stiffness

Australian Standard AS 2439.1 establishes classes of pipe based on stiffness, i.e. the force required to achieve a particular deflection. This class rating may be used as a guide to the product application and loads to be encountered in service.

Identification	SN	Materials	Stiffness (N/m/m) 5% Deflection	Application
Draincoil (Black)	8	High Density Polyethylene (HDPE)	8000	Surface land drainage and road or civil engineering works not subjected to heavy traffic loads
Draincoil (White)	20	Polypropylene (PP)	20,000	Works subject to heavy vehicular traffic loads
Draincoil MAX	8	High Density Polyethylene (HDPE)	8000	Large scale civil and agricultural projects
StormFlex	12	Polypropylene (PP)	12,000	Stormwater redirection - Domestic

Average slot size

Slot sizes shown are an average based on a manufacturing tolerance as defined in Australian Standards. For further details refer to AS 2439.1.

Water entrance, clear water opening

1500mm²/m clear water opening is the minimum requirement for the Australian Standard AS 2439.1. Manufacturing tolerances and punching will generally result in larger clear water opening.

Transport & storage

Draincoil is easily transported, providing cost savings and convenience.

General precautions should be taken for potential damage from forklift forks, overtightening of strapping and sharp or heavy objects.

If Draincoil is to be stored for an extended period of time it should be stacked flat. Storage under cover and in a cool place is recommended.

Pipe selection

The table below provides a guide to the flow capacity of each pipe. For computational purposes, the following coefficients are suggested.

- Darcy-Weisbach / Colebrook-White Hydraulic Roughness: 2.5 – 3.0mm
  - Hazen-Williams C: 80
  - Manning n: 0.014

These values are conservative but assume no silting.

Gradient	Flow	DN50	DN65	DN100	DN160
1:50	m^3/h	2.5	4.6	15.8	57.7
	m/s	0.5	0.5	0.8	1.1
1:100	m^3/h	1.8	3.3	11.1	40.5
	m/s	0.3	0.4	0.5	0.8
1:200	m^3/h	1.2	2.3	7.8	28.4
	m/s	0.2	0.3	0.4	0.5
1:300	m^3/h	1	1.9	6.3	23.1
	m/s	0.2	0.2	0.3	0.4
1:500	m^3/h	0.8	1.4	4.9	17.8
	m/s	0.1	0.2	0.2	0.3
1:750	m^3/h	0.6	1.2	4	14.5
	m/s	0.1	0.1	0.2	0.3
1:1000	m^3/h	0.5	1	3.4	12.5
	m/s	0.1	0.1	0.2	0.2

Gradient

The following table shows generally recommended gradients for Draincoil drainage installations.

- Careful attention must be given to control of trench/pipe grade.
- The grade should fall continuously without any low spots which may silt up and cause a blockage.
- Laser-graded machines are increasingly used to obtain required tolerances.

Recommended minimum flushing velocities are:

0.2 m/s – clay particles or fine silts that may enter pipe
0.5 m/s – fine sands or coarse silts that may enter pipe

Preferred gradients

Application	Minimum Gradient	Preferred Gradient
Agricultural	0.2% or 1:500	0.4% or 1:250
Civil Engineering	0.5% or 1:200	1% or 1:100
Recreational	0.3% or 1:200	Between 1.0% & 3.0% or 1:100 & 1:33



Installation

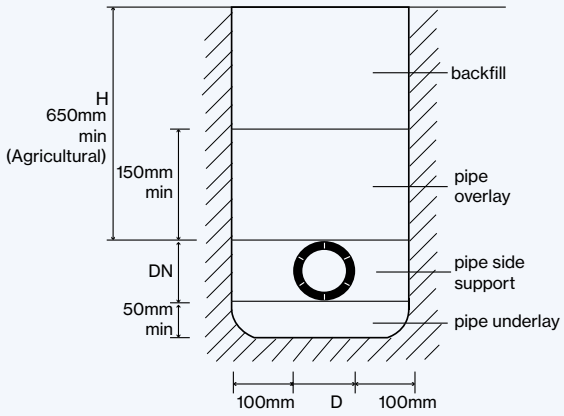
Draincoil can be easily installed due to its long coil lengths, flexibility and light weight. Subsoil drains can be installed by:

- Trenching
- Ploughing into the ground

Draincoil pipes are flexible and when buried, develop an interaction with the surrounding soil to resist the loads on the system. Therefore, adequate soil support at the sides of the pipe is essential for proper performance.

Main installation features

- Trench width should be as narrow as practicable but at least 200mm greater than pipe diameter to allow for compaction of pipe bedding material under the haunches.
- Selected overlay material to a minimum of 150mm over pipe to provide a filter zone.
- For agricultural applications, a minimum of 650mm cover should be maintained to avoid deep rippers and heavy machinery.
- A 50mm minimum pipe underlay of filter material should be first placed in the trench to take out any irregularities in the trench bed and provide a drainage path underneath the Draincoil pipe.
- Ensure that appropriate filter material aggregate or coarse sand is used. A maximum filter aggregate size of 13mm should be used.
- Trenches should have clearly cut sides to avoid contamination of the filter during construction.



Minimum cover over pipe (Dimension H)

Draincoil	Minimum Cover Height
Not subject to vehicular loading	300mm
Subject to vehicular loading:	
Not in roadways	450mm
In sealed roadways	600mm
Under unsealed roadways	750mm
Pipes in embankment conditions or subject to construction equipment loading	750mm
Agricultural applications subject to deep rippers and heavy machinery	650mm

Pipe laying

- As most water enters the pipe from underneath, there is little point in installing a drain deep into a solid clay layer. Where such a layer occurs within the planned depth zone of the drainage system, the pipe should be installed just into this layer. In heavy clay soils, granular backfill should be brought to the top of the clay layer in order to keep the pipe at a minimum depth of 650mm.
- Always ensure that the pipe has only porous soil above, avoiding heavy clay backfill which restricts the flow of water to the pipe.
- The pipe should be kept in the centre of the trench and the filter material compacted under the haunches, around the sides and above the pipe.
- Draincoil may be connected to the stormwater system or to a soak pit.

Depth and spacing

Typical depth and spacing for agricultural subsurface drains

The following table should be used as a guide only. The design of a subsoil drainage system is influenced by a number of factors, including for example, topography, soil texture, tree spacing, vehicle access and proposed crop requirements. The advice of relevant authorities and design specialists should be sought.

Soil Type	Depth (m)*	Spacing (m)
Deep light sand	1.8 – 2.1	27 – 40†
Loam	1.2	13
Clay loams and clay	0.9 – 1.1	7 – 13

* The depth of the impermeable soil layer is the critical factor in determining maximum drain depth. Spacing varies depending on the soil texture. The relevant authority in each state is available to advise a drainage depth and spacing for the appropriate crop.
† Good results have been achieved at spacing up to 80 metres.

Draincoil corrugated pipe range

Draincoil SN8 (CL400) No Sock	Vinidex Code	Nominal Size (mm)	Coil Length (m)
Polyethylene (PE) Slotted	24580	50	20
	24590	50	200
	24600	65	20
	24620	65	200
	24700	100	20
	24709	100	50
	24710	100	100
	24745*	160	40
Polyethylene (PE) Unslotted			
	24585	50	20
	24603	65	20
	24820	100	20
	24840	100	100
	24741*	160	40

Draincoil MAX SN8 (CL400) Slotted^	Vinidex Code	Nominal Size (mm)	Outside Diameter (mm)	Type	Coil Length (m)
Polyethylene (PE)	109789	100	100	Slotted no Filter Sock	500
	109790	100	100	Slotted with Filter Sock	500

Draincoil SN8 (CL400) Slotted with Filter Sock	Vinidex Code	Nominal Size (mm)	Coil Length (m)
Pipe – Polyethylene (PE) Sock – Polyester	24608	65	20
	24625	65	200
	24703⁺	100	20
	24712⁺	100	100
	24714⁺	100	50
	24746*	160	40

^ Available in WA only.
⁺ All Filter Socks comply with TfNSW requirements.
* Twin-wall. Contact Vinidex for availability.

Draincoil SN20 (CL1000)	Vinidex Code	Nominal Size (mm)	Type	Coil Length (m)
Polypropylene (PP)	24723	100	Unslotted	100
	24724	100	Slotted no Filter Sock	100
	24750	160	Slotted no Filter Sock	20

Draincoil SN20 (CL1000) Slotted with Filter Sock	Vinidex Code	Nominal Size (mm)	Coil Length (m)
Pipe – Polypropylene (PP) Sock – Polyester	24725	100	100
	24751*	160	20

StormFlex® Pipe SN12	Vinidex Code	Nominal Size (mm)	Outside Diameter (mm)	Inside Diameter (mm)	Coil Length (m)
Polypropylene (PP)	24980	100	98 – 101	83 – 85	30



StormFlex is a flexible alternative to rigid PVC stormwater pipe, replacing multiple fittings when joining to the downpipe. StormFlex is manufactured from UV stabilised white polypropylene. StormFlex can be used as a temporary above ground stormwater diversion. StormFlex may be used for longer term below ground applications for single dwelling drainage, if approved by the relevant authority. For all buried applications, the minimum cover requirements of Table 6.2.5 of AS/NZS 3500.3 should be applied.

Filter Sock	Vinidex Code	Nominal Size (mm)	Coil Length (m)
	84656	65	100
	84658	100	100

Filter Sock is a geotextile sleeve manufactured from high tensile strength polyester yarn. It is fitted over Draincoil corrugated drainage pipe to prevent small particles of soil (fines) from entering the pipe and reducing the drainage capability.

Draincoil fittings

Couplings	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65620	50	20
	65670	65	60
	65561	100	30

Coupling SN20 (CL1000)	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65030	100	30
	Adaptable coupler can be used with SN20 Draincoil, SN8 Draincoil and PVC DWV & Stormwater		

Reducing Couplings	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65567	100 - 50	60
	65568	100 - 65	50

Internal Coupler	Vinidex Code	Nominal Size DN (mm)
	63767	100

Tee	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65571	50	100
	65569	65	30
	65600	100	15

Y Junctions	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65572	65	30
	65580	100	10

Crosses	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65564	65	80
	65610	100	36

End Caps	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65565	50	240
	65566	65	200
	65570	100	100

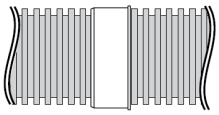
End Grates	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65013	65	150

Adaptors	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65563	DN 100 Draincoil to DN 90 PVC Stormwater	40
	65560	DN 100 Draincoil to DN 100 PVC DWV	60

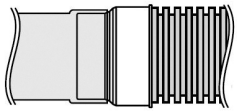
StormFlex® fittings

PVC Fittings	Vinidex Code	Nominal Size DN (mm)	Carton Quantity
	65012	100 – Coupling	20
	65011	100 x 90 – Adaptor	50

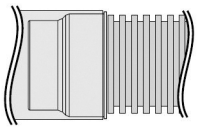
StormFlex fittings applications



StormFlex to StormFlex Coupling 65012



90mm PVC to StormFlex Adaptor 65011



100mm DWV to StormFlex Adaptor 65011

Rainwater fittings

Adaptors	Vinidex Code	Size	Carton Quantity
	65024	90mm Stormwater Socket to 50mm DWV	70
	65025	100mm x 50mm Rectangular Downpipe to 90mm Stormwater Adaptor	50
	65026	90mm Stormwater to 100mm x 50mm Rectangular Downpipe Adaptor	60

There are two styles of downpipe adaptors to ensure “leak-proof” connections when converting from round to rectangular or rectangular to round.

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Vinidex. We make life flow.

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