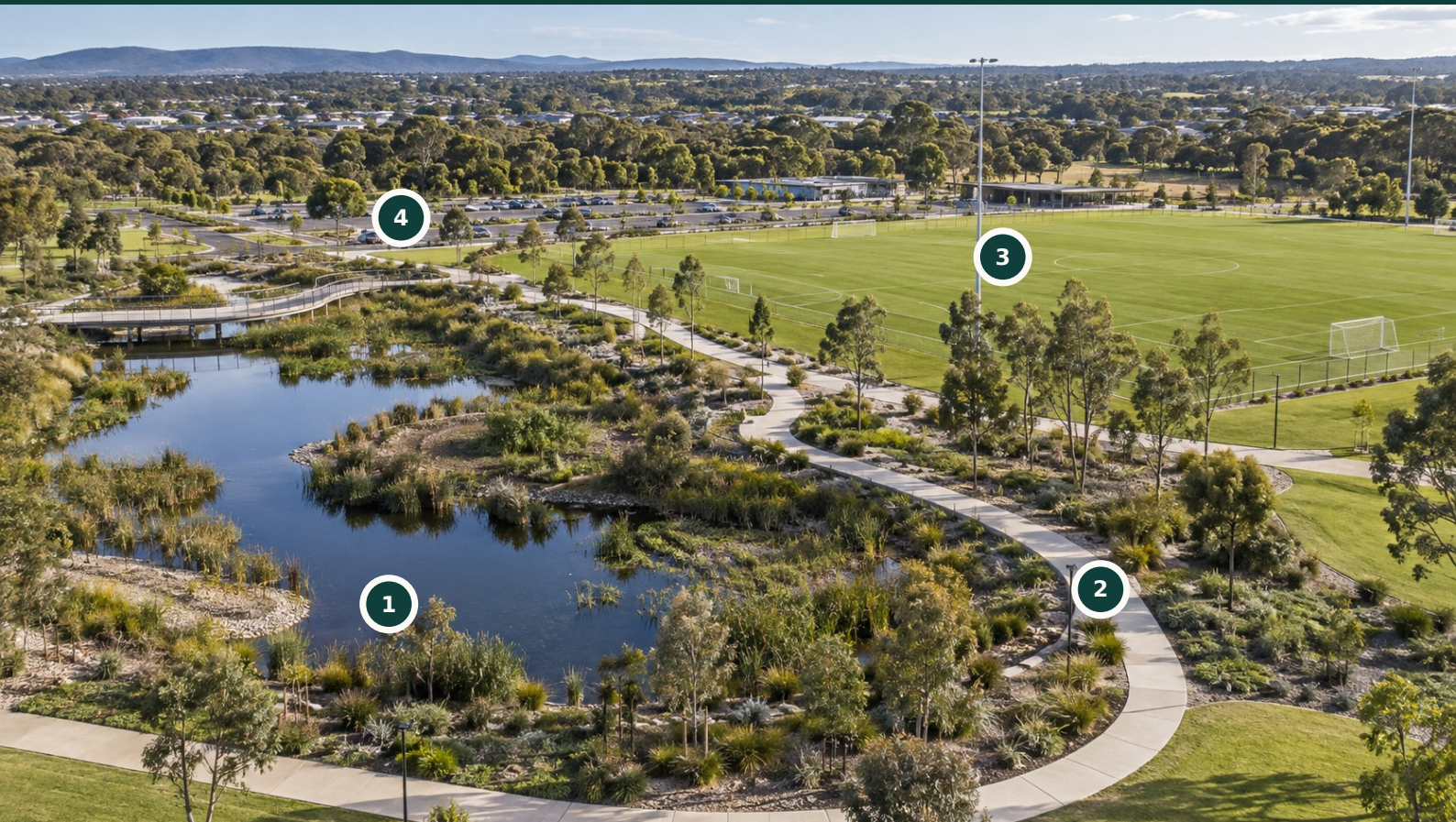


Geosynthetics for landscapes + sport.

Contain water. Protect the ground.
Build drainage and storage into the landscape.



Generated application illustration; indicative material locations.

1 Ponds + wetlands

Liners, GCLs and protection layers.

2 Paths + public spaces

Separation, drainage and sealed profiles.

3 Sports grounds

Geotextiles, reinforcement and drainage.

4 Car parks + storage

Lined paving and M2025 detention or reuse.

Protect the slopes. Keep water moving.

Woven geotextiles for exposed erosion protection, filtration beneath rock and demanding landscape transitions.



Generated application illustration; final anchorage and hydraulic design are project-specific.

1 Exposed woven cover

Grade selected for flow, abrasion and intended exposure.

2 Filtered rock protection

A compatible filter layer retains soil beneath rock.

Kontain Woven Erosion

Project-selected woven materials for embankments, channels and erosion-prone surfaces. Detail laps, fixings and crest / toe anchorage with the site profile.

Kontain Woven Filter

Filament and multifilament weaves for filtration and demanding water-edge applications. Match opening size, permeability and strength to the soil and hydraulic duty.

3 Tie the system into planting and adjacent surfaces. Confirm the UV / exposure basis and grade data sheet; accelerated UV results alone do not establish permanent outdoor life.

Keep the water where it belongs.

Lining packages for landscape ponds, irrigation storage, water features and engineered wetland cells where containment is required.



Generated application illustration; shows a staged installation before completion and cover.

1 HDPE or LLDPE barrier

Polymer, thickness and finish selected for the duty.

2 Geotextile protection

Cushioning against the prepared subgrade and cover.

Formulated for the site

Assess water and soil chemistry, temperature, UV exposure, deformation and service requirements. Select the resin / additive formulation and supporting test evidence accordingly.

A complete lining package

Include protection geotextiles, compatible penetrations and terminations, seams and testing. Arrange the installation sequence around access, weather and controlled cover placement.

3 Seams and terminations complete the barrier. HDPE and LLDPE options are selected by project; membrane supply alone does not establish the performance of the installed system.

Permeable at the surface. Controlled below.

A permeable pavement can infiltrate to the ground or collect water above an impermeable base. The drainage objective determines the layers.



Generated staged-installation illustration. Layer arrangement is indicative, not a construction detail.

1 Impermeable liner

HDPE / LLDPE, or a qualified GCL system where specified.

2 Protection layer

Geotextile cushioning between the barrier and aggregate.

Infiltrating profile

Water passes through the paving and reservoir into suitable ground. Use separation or filtration where the design requires it. A continuous base liner would change that function.

Sealed or controlled profile

The barrier retains water for a controlled outlet or reuse. Resolve side upturns, joints, penetrations, drainage falls and protection as one system. Partial infiltration is also possible.

3 Granular reservoir stores and conveys water. 4 Permeable paving admits surface runoff. A geotextile is a permeable separator or filter; it does not replace an impermeable liner.

Choose the GCL around the conditions.

Kontain GCL systems for ponds, wetlands and specified pavement containment: select the carrier, barrier and bentonite formulation together.



Generated installation illustration. 1 GCL layer / 2 controlled deployment / 3 progressive soil cover.

Kontain family	Selection focus
GCL Standard / GCL-S	Standard containment duty, with a prepared subgrade and the specified hydration and confinement.
GCL Heavy / GCL-H	A more robust carrier for greater handling and puncture demand. Rough installations still need subgrade preparation and protection.
GCL Laminated / GCL-L	A polyethylene barrier layer for specified moisture / barrier needs. Confirm the laminate, lap detail and installed continuity.
GCL Polymer / GCL-P	Modified bentonite for assessed saline or aggressive liquids. Verify compatibility using representative liquids and hydration conditions.

Combine features only to a confirmed construction and property schedule. Check liquid chemistry, confinement and slope shear. A loose laminate lap is not a welded membrane joint; custom welded-laminate options require qualification.

Build the field from the ground up.

Geotextiles, reinforcement, drainage and adjacent stormwater storage for sports precincts, training grounds and community recreation.



Generated synthetic-field construction illustration. Natural turf requires its own designed profile.

1 Separation + filtration

Keep compatible subgrade and granular layers working.

3 Drainage collection

Connect the drainage profile to a designed outlet or store.

Kontain KNP + reinforcement

KNP nonwoven geotextiles provide selected separation, filtration or protection functions. Kontain woven geotextiles and geogrids can reinforce suitable base designs.

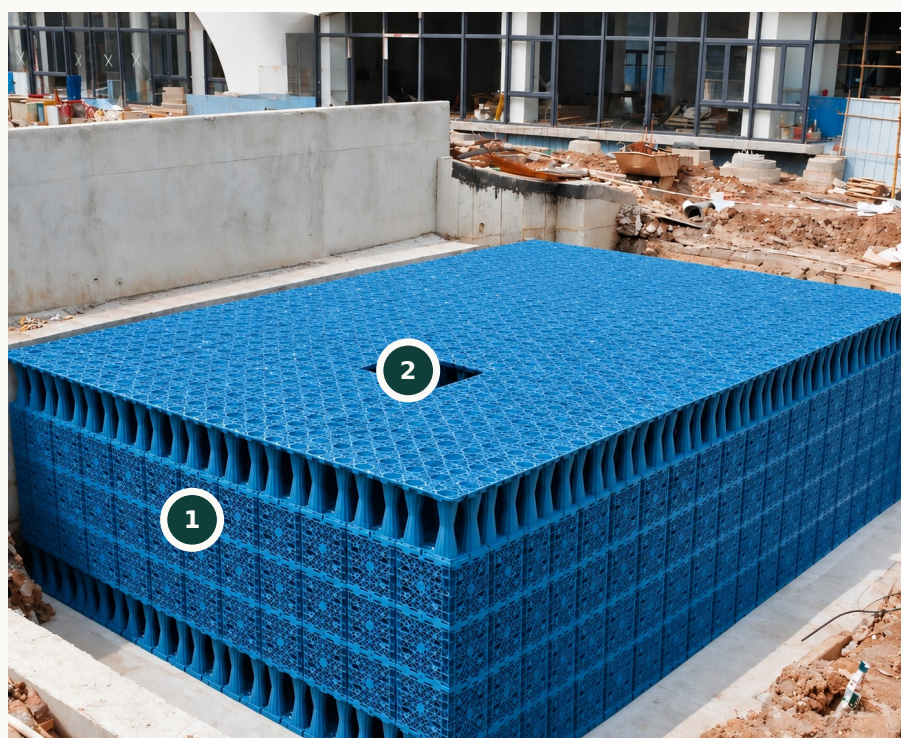
Kontain KDrain + M2025

KDrain geocomposites provide specified in-plane drainage. M2025 tanks can support precinct detention or stored irrigation water, with pretreatment and access designed in.

2 The playing surface and base follow the sports-system design. Use a liner or GCL only where the project requires a sealed profile; confirm drainage capacity under load, outlet levels and water balance.

Put storage beneath the landscape.

Kontain M2025 modular tanks for on-site detention, retention and rainwater reuse, including engineered trafficable configurations.



M2025

**1,000 × 500
× 500 mm**

Module dimensions

0.2375 m³

Net storage per module
at the adopted 95%
hydraulic void ratio.

Project-direct packages,
typically around 100 m³+

Enhanced M2025 reference image. 1 Module assembly / 2 access opening. Enclosure and backfill not shown.

Detention

Store runoff temporarily and release it through a controlled outlet. Coordinate a protected impermeable enclosure, pretreatment, overflow and maintenance access.

Retention + reuse

Retain water in a lined tank for irrigation or other designed reuse. Set storage levels, pumps and water-quality controls around the actual demand.

High strength. Trafficable when engineered.

Select the M2025 material grade, cover, pavement, traffic loads, ground support and long-term creep performance together. A module compression test is not an allowable vehicle load for the finished system.

For infiltration, use a suitable permeable enclosure and confirm soil / groundwater suitability. This is a different hydraulic arrangement from lined detention or retention.

One landscape. The right layers.

Start with the hydraulic and ground conditions. Then assemble a material package around the drawings, quantities and construction sequence.

Application	Kontain materials to consider
Ponds + wetlands	HDPE / LLDPE liners, GCL systems, KNP protection and compatible detailing.
Sealed permeable paving	Liner or qualified GCL, protection geotextiles, drainage and controlled outlets.
Embankments + waterways	Woven Erosion / Woven Filter families, reinforcement and protection below rock.
Sports-field construction	KNP separators / filters, woven geotextiles, geogrids and KDrain drainage.
Detention + irrigation storage	M2025 modules, protected lining, pipe connections, access and water controls.
General landscape drainage	KNP filters and KDrain geocomposites selected for soil, load, flow and outlets.

Send the project brief

Drawings and specification • base and slope areas • storage volume • water / soil chemistry • traffic and cover loads • required grades • delivery stages and programme.

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