

Kontain

Technical products. Project capability. Practical support.

A client-facing guide to Kontain's geosynthetic systems, project-direct supply model, technical capability and relevant experience.

9 PRODUCT SYSTEMS

PROJECT-DIRECT SUPPLY

AUSTRALIA-WIDE SUPPORT



GEOSYNTHETIC SYSTEMS FOR CIVIL, MINING, WATER & WASTE

Filtration - reinforcement - containment - drainage - storage - dewatering

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BROCHURE OVERVIEW

Products, capability and broad experience

A concise customer journey from Kontain capability and delivery scope through the current product range, applications and project start-up.

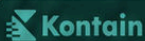
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01 | COMPANY + DESIGN TOOLS

A lean technical supplier built around the project

Kontain combines project-direct product supply with technical selection support, current TDS and free design tools that help clients start with real project inputs.



Products

Applications

Free design tools

Support

Free design tools connected to product and project pathways

Compare options, test indicative inputs and prepare a more useful technical enquiry.

PAVEMENT DESIGN

Compare indicative pavement thickness, traffic, grid options and installed cost.

LINER + DRAINAGE

Start leakage, drainage, geonet and protection discussions with clear inputs.

GEOBAG PLANNING

Frame quantities, layout constraints, staging and project information for dewatering.

Traffic type

Rigid truck / heavy vehicles

Wheel load

80 kN

Tyre pressure

550 kPa

Subgrade CBR

3 %

Aggregate CBR

40 %

Rock cost

Installed supply rate

Grid system

BG / TG / separator options

Without grid

260 mm

Reference depth

With grid

190 mm

Indicative reduced depth

Potential savings

70 mm

Less aggregate and faster build

What the tool can help with

- Compare stabilised and unstabilised options for working platforms and unsealed pavements.
- Test grid options against wheel load, traffic and pavement material inputs.
- Support early-stage feasibility discussions before full project certification.
- Connect the outcome back to product supply, TDS and practical delivery planning.

Indicative tool screen. Final inputs, verification and design responsibility remain project-specific.

HOW THE TOOLS FIT

The tools help turn an incomplete brief into a practical starting point for product selection, supply scoping and follow-up technical discussion.

Start with project type, drawings, quantities, ground conditions, loads or operating assumptions. The result helps identify what information matters next.

WHAT CLIENTS CAN USE

The website toolkit includes pavement design support, liner and drainage tools, geobag project-start guidance and other practical calculators.

They support feasibility and early screening. Detailed design, certification and final engineering remain with the appointed project team.

Useful technical input with a clear responsibility interface

Kontain helps designers, contractors and asset owners make practical product decisions while keeping final project engineering roles clear.

1

Product and system selection

Compare mechanisms, evidence, durability, constructability and cost.

2

Technical submissions

Current TDS, evidence summaries, departures, installation guidance and order records.

3

Manufacturer coordination

Translate project needs into configuration, production, traceability and QA documentation.

4

Installation support

Method guidance, hold points, field clarification and close-out records.

PROJECT ENGINEERING

Final civil, geotechnical, structural, hydraulic and environmental design remains with the appointed project engineer and project team.

03 | DELIVERY MODEL

From an incomplete brief to a buildable delivery

A specification, drawing, quantity, programme, site photograph or practical project issue is enough to begin.

1

Send what exists

Project location, drawings, quantities, photographs, programme and the issue that needs resolving.

2

Select and verify

Screen the suitable product family, evidence, missing information and important assumptions.

3

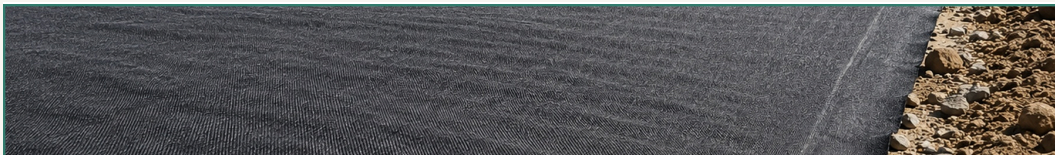
Configure the supply pathway

Confirm product form, dimensions, packaging, documentation and likely lead-time basis.

4

Price, submit and support

Connect the commercial offer, current technical information and field clarification into one delivery pathway.



PROJECT INPUTS TO A PRACTICAL SUPPLY PATHWAY



04 | FOUNDER EXPERIENCE

Technical, commercial and project-delivery experience

Ben Lewis combines a geotechnical engineering foundation with Australian geosynthetics, PE liner installation, dewatering systems, technical sales and manufacturer collaboration.

14+ YEARS ENGINEERING

9+ YEARS GEOSYNTHETICS

AU + US FIELD EXPERIENCE

RELEVANT BACKGROUND

Ground investigations, pavements, working platforms, drainage, containment systems, liner installation and QA.

CURRENT RELEVANCE

Technical sales, evidence review, supplier coordination and fit-for-purpose product positioning.

05 | TECHNICAL CAPABILITY

Transparent technical support and digital tools

Kontain supports early decisions with practical engineering input and simple digital tools that clarify product fit, quantities, programme and risk.



HOW IT FITS

Tools are used to make assumptions visible and improve the quality of the technical conversation before detailed project engineering.

CURRENT TOOL PATHWAYS

- Pavement grid comparison and costing
- Liner, drainage and protection checks
- Stormwater configuration and quote support
- Geobag volume, layout and stacking concepts

06 | MANUFACTURER COLLABORATION

Manufacturer collaboration and evidence management

Kontain works between manufacturers, designers and contractors to make cost-effective products usable within Australian project requirements.



HOW IT FITS

Published evidence stays linked to the offered product, tested variant, method and boundary conditions. Where additional verification is justified, Kontain can coordinate the scope, sample supply and laboratory interface.

PRACTICAL OUTCOMES

- Product configuration aligned to the project
- Order-specific documentation and traceability
- Evidence that remains attached to the tested product
- Clearer technical and commercial handover

PRODUCT PORTFOLIO

Nine systems connected by one project-direct supply model

Products are organised by engineering function and selected around the application, performance mechanism and project boundary conditions.

● KNP nonwovens

Filtration, separation, protection and drainage interfaces.

● BW road wovens

Low-strain support for roads, access tracks and working platforms.

● SW-PET reinforcement

Continuous woven PET reinforcement for weak ground and embankments.

● BG / TG grids

Aggregate stabilisation for roads, hardstands and working platforms.

● KUG uniaxials

Reinforced soil walls, steepened slopes and structural load paths.

● GCL systems

Bentonite barrier systems for ponds, caps, waste and civil containment.

● KDrain drainage

In-plane drainage, leak detection and groundwater relief.

● M2025

Underground detention, infiltration and non-potable water storage.

● KGB geobags

Sludge, tailings, sediment and water-recovery dewatering systems.


ROADS & PLATFORMS

DRAINAGE

DEWATERING

Current TDS and project-specific supply support are available across the range.

07 | PRODUCT SYSTEM

KNP continuous-filament PET nonwoven geotextiles

**HOW IT FITS**

The selection starts with the required function and installation environment. Hydraulic behaviour, survivability, cushioning and puncture resistance are considered together.

TYPICAL APPLICATIONS

- Filtration and separator layers
- Protection above and below liners
- Underdrain and collection interfaces
- Civil, mining, water and environmental works

08 | PRODUCT SYSTEM

BaseWoven BW-PP and BW-LS road wovens

Road-woven pathways for routine separation and for applications where early tensile response supports construction over weak formation.



HOW IT FITS

Woven products help maintain aggregate separation and can provide early support where weak subgrades would otherwise contaminate or deform the pavement layer.

SELECTION FOCUS

- Subgrade condition and construction traffic
- Aggregate quality and lift thickness
- Required strain response
- Installation survivability

09 | PRODUCT SYSTEM

StructWoven SW-PET soft-ground reinforcement

High-strength PET woven reinforcement for defined structural load paths and long-term tensile duty.



HOW IT FITS

Structural woven reinforcement is used where the load-transfer mechanism is part of the project design, including embankments, basal reinforcement and heavily loaded platforms.

TYPICAL APPLICATIONS

- Soft-ground embankments
- Basal reinforcement
- Working platforms and load transfer
- Long-term tensile reinforcement

10 | PRODUCT SYSTEM

BG / BGC / TG / TGC pavement geogrids and composites



HOW IT FITS

Pavement grids are positioned where interlock and confinement can improve constructability, reduce aggregate demand and support a more efficient pavement section.

SELECTION FOCUS

- Subgrade support and traffic
- Aggregate grading and compaction
- Rut tolerance and design life
- Grid-only or composite pathway

11 | PRODUCT SYSTEM

KUG uniaxial HDPE geogrids

Long-term reinforcement components for reinforced-soil walls, steepened slopes and bridge approaches.



HOW IT FITS

Uniaxial grids carry a defined tensile load in one principal direction. Selection is tied to the full wall or slope design, including pullout, connection and construction sequence.

TYPICAL APPLICATIONS

- Reinforced soil walls
- Steepened slopes
- Bridge approaches
- Localised structural reinforcement

12 | PRODUCT SYSTEM

CETCO BENTOMAT and Kontain GCL systems

Geosynthetic clay liner options for landfill, mining, ponds, caps and civil containment.



HOW IT FITS

GCL selection considers subgrade preparation, hydration, cover, slope, overlap detailing, chemical compatibility and the role of the GCL within the complete barrier system.

TYPICAL APPLICATIONS

- Ponds and wastewater containment
- Landfill and capping systems
- Secondary containment
- Low-permeability interfaces

13 | PRODUCT SYSTEM

KDrain triplanar drainage geonets and geocomposites

In-plane drainage for leachate collection, leak detection, caps, groundwater relief and containment systems.



HOW IT FITS

Drainage systems are reviewed around transmissivity under project-specific confinement, filter requirements, hydraulic gradient and long-term reduction factors.

TYPICAL APPLICATIONS

- Leachate and leak-detection layers
- Caps and closure drainage
- Groundwater relief
- Retaining and containment interfaces

14 | PRODUCT SYSTEM

M2025 modular underground stormwater systems

Configured systems for detention, infiltration and non-potable water storage, supplied from project scale.



HOW IT FITS

The offer connects module configuration, freight-efficient supply, installation guidance and the available product evidence. Buried-system performance remains tied to the actual cover, pavement and loading conditions.

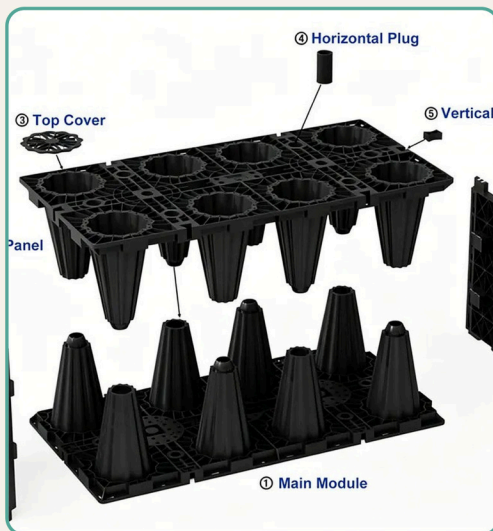
TYPICAL APPLICATIONS

- Underground detention
- Infiltration and recharge
- Non-potable storage
- Commercial and industrial developments

15 | STRUCTURAL EVIDENCE

M2025 testing explained in project terms

Measured product evidence is connected to the actual buried-system design rather than treated as a stand-alone capacity statement.



COMPRESSION EVIDENCE

A virgin V60 specimen reached the 300 kN machine limit over a 0.5 m² bearing area without reported fracture, recording a tested response above 600 kPa for that arrangement.

INTERIM CREEP RECORD

A 595 kg centre-platen test recorded 1.81 mm initial displacement and 2.60 mm at day 91 for the tested specimen and configuration.

METHOD ALIGNMENT

Relevant CIRIA C737 considerations can inform review alongside the product-specific evidence and the project loading conditions.

PROJECT DESIGN

Cover, backfill, traffic, groundwater, lateral pressure, penetrations and long-term deformation remain project-specific.

16 | PRODUCT SYSTEM

KGB geobag dewatering systems

Project-specific geotextile containers for sludge, tailings, sediment, biosolids and water-recovery applications.



HOW IT FITS

The practical work converts a variable slurry stream into a bag schedule, site layout, operating method and realistic water-and-solids balance.

SELECTION FOCUS

- Wet volume and solids concentration
- Polymer and treatability response
- Pad, drainage and water management
- Filling control and final handling

17 | SYSTEM DEVELOPMENT

From slurry volume to a buildable geobag layout

Preliminary layouts can connect bag dimensions, access, filling sequence, stack geometry and retained-volume assumptions before procurement begins.

WHAT IS MODELLED

Bag schedule, pad footprint, retained cake, stack arrangement and approximate storage capacity.

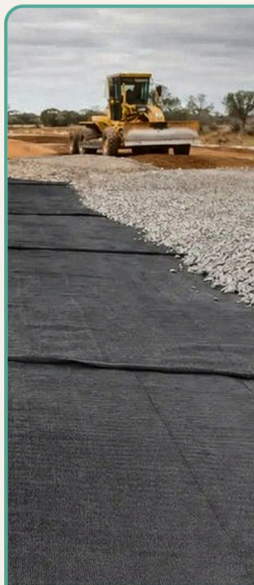
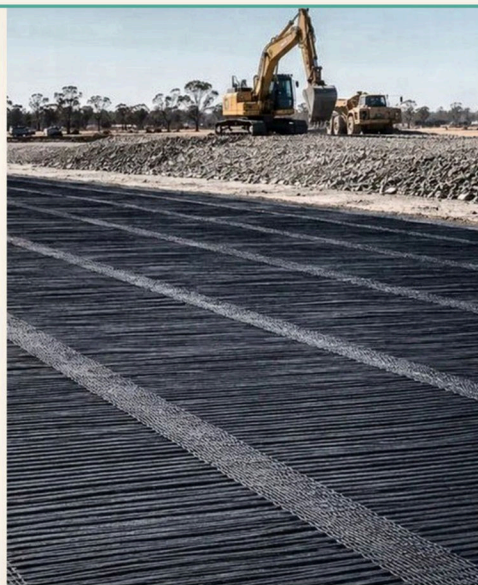
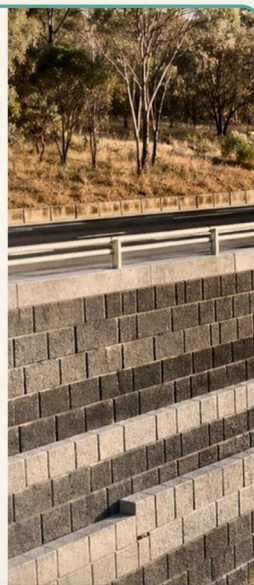
WHAT FOLLOWS

Project-specific geotechnical review, operating verification and final engineering before construction.

18 | APPLICATION PATHWAYS

Civil earthworks, roads, platforms and reinforced structures

Most projects use more than one geosynthetic function. The selection starts with the ground and construction problem, then combines separation, stabilisation, reinforcement and drainage where needed.


ROADS & PLATFORMS

SOFT GROUND

WALLS & SLOPES
ROADS & PLATFORMS

Nonwovens, road wovens and pavement grids over weak or variable formation.

REINFORCED STRUCTURES

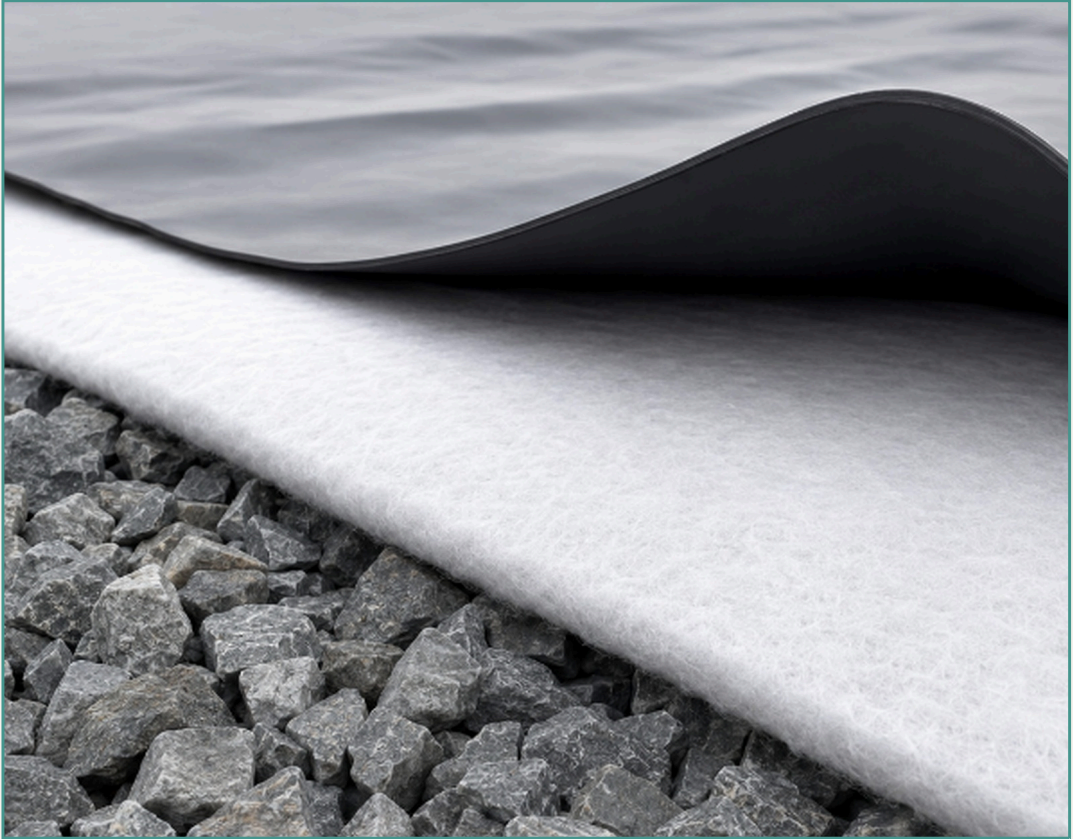
Structural wovens, uniaxial grids and drainage layers within defined load paths.

CONSTRUCTION SUPPORT

Product combinations selected around access, staging and field survivability.

19 | APPLICATION PATHWAYS

Containment, drainage, stormwater and dewatering

**HOW IT FITS**

Water and waste infrastructure succeeds when product interfaces are clear and the operational pathway is considered alongside product performance.

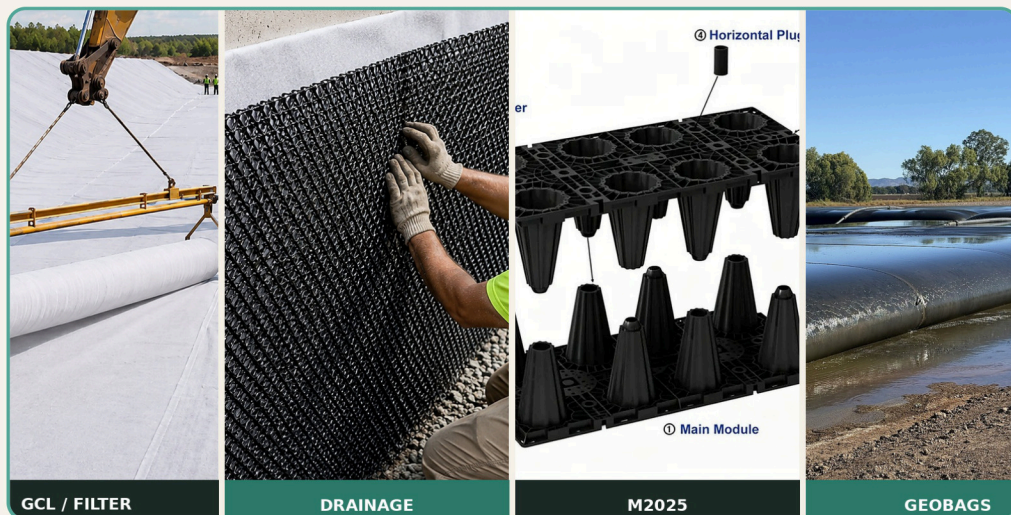
SYSTEM PATHWAYS

- Containment and liner protection
- Drainage and leak detection
- Stormwater detention and storage
- Dewatering and water recovery

20 | TECHNICAL SUPPORT

Technical support connected to the product

The application overview is connected to current documentation, manufacturer capability, project inputs and the delivery programme.



APPLICATION & SELECTION

Review the governing mechanism, key inputs and constraints.

SUBSTITUTION & COMPARISON

Compare products against project intent, not just one headline value.

TECHNICAL SUBMISSIONS

Current TDS, evidence summary, departures and installation notes.

MANUFACTURER COORDINATION

Confirm configuration, traceability and order-specific records.

TESTING & EVIDENCE

Coordinate verification when additional evidence is justified.

LOGISTICS & FIELD SUPPORT

Connect freight, staged delivery, hold points and rapid clarification.

PRINCIPAL EXPERIENCE

Geotechnical investigations, pavements and drainage design

Pavement design tool — indicative screen

Traffic type

Wheel load

Tyre pressure

Subgrade CBR

Aggregate CBR

Rock cost

Grid system

Without grid
260 mm
Reference depth

With grid
190 mm
Indicative reduced depth

Potential savings
70 mm
Less aggregate and faster build

What the tool can help with

- Compare stabilised and unstabilised options for working platforms and unsealed pavements.
- Test grid options against wheel load, traffic and pavement material inputs.
- Support early-stage feasibility discussions before full project certification.
- Connect the outcome back to product supply, TDS and practical delivery planning.

HOW IT FITS

The engineering background helps identify whether the issue is separation, reinforcement, drainage, load transfer or a combination - and which project inputs materially change the answer.

CURRENT RELEVANCE

- Weak or wet subgrades
- Pavement and platform behaviour
- Aggregates, contamination and trafficking
- Drainage continuity and long-term flow

Send the available information

Clients do not need to provide everything at the outset. A useful response can begin from a small set of project inputs.

1

Application and location

What is the system trying to do and where will it be built?

2

Drawings or dimensions

Preliminary sketches and quantities are useful.

3

Ground, liquid or loading basis

Enough information to understand the governing mechanism.

4

Programme and constraints

Delivery timing, staging, access, approvals and key uncertainties.

PRACTICAL STARTING POINT

A specification, drawing, site photo, quantity, programme or problem statement is enough to begin.



WORK WITH KONTAIN

One contact across product, evidence and delivery

Kontain can begin from a specification, drawing, site photograph, quantity, programme or problem statement and convert it into a clear next step.

1**SEND**

Application, location, quantities, drawings, photographs, programme and the issue that needs resolving.

2**KONTAIN DEVELOPS**

Selection basis, missing information, evidence boundary, commercial pathway and technical support scope.

3**PROJECT RECEIVES**

A clearer decision, practical quotation and documentation linked to the offered system.



PRODUCT RANGE SUMMARY

Current systems for civil, mining, water and waste projects

Current TDS and project-specific quotation support are available across the core range.



KNP nonwovens

Filtration, separation, protection and drainage interfaces.

BW road wovens

Routine separation and low-strain support for roads and platforms.

SW-PET reinforcement

Long-term tensile reinforcement for weak ground and embankments.

BG / TG grids

Aggregate stabilisation for roads, hardstands and working platforms.

KUG uniaxials

Reinforced soil walls, steepened slopes and structural load paths.

GCL systems

Bentonite barriers for ponds, caps, waste and civil containment.

KDrain

In-plane drainage, leak detection and groundwater relief.

M2025

Underground detention, infiltration and non-potable water storage.

KGB geobags

Sludge, tailings, sediment and water-recovery dewatering systems.



Send the project constraint. Start with the available information.

A drawing, quantity, programme, site photograph or the core ground, water, load and volume inputs are enough to begin.

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Adelaide | Australia-wide



Current products, TDS
and quote requests