

*Need a Geotextile
or Weed Control
Membrane?*

- We've got it covered

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Introduction

Principal have a wealth of experience and knowledge in geotextiles and weed control membranes.

Our products are manufactured to the highest possible standards and it is important to us that you are able to select the right product from our extensive range, which will suit your particular application.

Why are there so many different types of geotextiles?

- Because each application needs a geotextile with specific characteristics and which performs a different function.

Weed Control Membrane

This membrane needs to shut out as much light as possible but with good porosity and longevity to ensure a continued barrier against weed growth from below. For total weed control, this membrane needs a very small hole size, less than 35 microns, a light transmittance of less than 5% and allow air and water to pass through. The membrane will control all rhizome weeds, most bulbs and corns from penetrating from underneath.

Stabilising & Separation

Strength is the most important factor ensuring that subsidence does not occur at a later date. The membrane needs to have a CBR puncture resistance of minimum 950 N up to 1500 N, and a dynamic cone drop not greater than 40mm.

Drainage

The hole sizes are crucial in this membrane to continuing long term drainage and should be 100 - 150 microns. This will prevent clogging and silting allowing a natural land drain to develop. This type of membrane is the catalyst to develop a natural land drain.

Principal Guide to the Correct Geotextile For Your Application

These recommendations are only intended as a guide. Allowances have to be made both for soil & site conditions. Please contact us should you require any further advice, assistance or clarification.

 **Recommended**
 **Alternative**

	WEEDCHECK	WEEDCHECK ULTRA	GROUNDCHECK EXTRA	STRATACHECK	STRATACHECK PLUS
WEED CONTROL					
Aggregate Areas - Pedestrian			✓		
Flower & Shrub Beds	✓	✓			
Garden Paths Domestic		✓			
Rockerries		✓			
Scree Gardens - Commercial		✓			
Scree Gardens - Domestic	✓	✓			
Under Decking with a Mulch	✓	✓			
Vegetable Beds - Fruit Protection	✓	✓			
TURF & GRASS					
Under Turf - Butted no overlaps				✓	
Under Artificial Grass			✓	✓	
DRAINAGE					
Attenuation & Water Harvesting - Pedestrian				✓	
Attenuation & Water Harvesting - Vehicular					✓
Land Drains - Pedestrian				✓	✓
Land Drains - Vehicular				✓	✓
Soakaway Crates - Pedestrian				✓	✓
Soakaway Crates - Vehicular				✓	✓
SUD's Compliant Systems				✓	✓
Under Block Paviour Drives				✓	✓
Wrapping Drainage Pipe				✓	✓

	WEEDCHECK	WEEDCHECK ULTRA	GROUNDCHECK EXTRA	STRATACHECK	STRATACHECK PLUS
STABILISING /SEPARATION					
Aggregate Pathways - Pedestrian			✓	✓	
Aggregate Driveways & Areas - Vehicular			✓		✓
Cellular Confinement - Pedestrian			✓	✓	
Cellular Confinement - Vehicular			✓		✓
Garden Paths - Commercial			✓		✓
Garden Paths - Domestic			✓	✓	
Ground Grid - Pedestrian			✓	✓	
Ground Grid - Vehicular			✓		✓
Horse Manège under Type 1			✓	✓	
Horse Manège under Top Dressing				✓	✓
Patios & Hard Standing Areas				✓	
Roads & Car Parking Areas			✓		✓
Tree Root Protection - Vehicular			✓		✓
OTHER APPLICATIONS					
Children's Safety Play Areas / Sand Pits		✓		✓	✓
Temporary Protection to Lawns etc. whilst construction work is active				✓	✓
Lining Plant Containers and Separating Compost with Cocks	✓	✓		✓	
Resin Bound Aggregates				✓	✓
Rubber Crumb Resin Surfaces				✓	✓
Sports Pitches / Tennis Courts				✓	✓
Temporary Paths & Roads			✓	✓	✓
Fallow Areas / Tree Mats - Spats			✓		
Materials Storage				✓	✓

WEEDCHECK ULTRA

A 70gsm Spunbond Weed Control Membrane

Benefits

- A high performance Weed Control Membrane which will stop Rhizome growth from penetrating from underneath.
- No need for chemicals when installing.
- Water and feed passes through to the soil below.
- Low maintenance gardening.
- Decorative aggregates will not be lost into soil.



Artificial Grass



Garden Path

Suitable Applications

- Aggregate Areas
- Pedestrian Scree Areas
- Flower Beds
- Under Decking with Mulch
- Shrub Beds
- Vegetable Beds
- Vegetable Protection
- Lining Plant Containers
- Between Crocks and Compost
- Under artificial grass

Specification	WEEDCHECK ULTRA
Average mean or pore size	33µ
Light transmittance	<4.0%
Carbon black content	3.0%
Membrane weight	70gsm +/- 10%
Guaranteed life - when covered	25 years

The product is available in several sizes, please contact your local merchant for details.



Planting out

WEEDCHECK ULTRA

A 70gsm Spunbond Weed Control Membrane



Installation Guide

1. For aggregate & paved areas simply strim all vegetation to ground level remove vegetation and ensure that there are no sharp objects which could penetrate the Weedcheck Ultra. Should bulbs be present they are best removed at this stage.
2. For garden areas prepare the soil removing any visible weeds and then add plant feed to the area.
3. Lay out the Weedcheck Ultra over the area and secure at the edges. Using a spade spit down 150mm vertically and tuck the Weedcheck Ultra into the vertical spit.
4. Should joins be necessary then the recommended overlap is 100mm. Pins can be used but best to use the mulch to keep in place. Use heavy stones temporarily whilst working.
5. Place your plants on top and arrange ready for planting.
6. Cut a cross, open up and remove soil. Water and place plant in the hole, firm in and replace the Weedcheck Ultra ensuring that there is no soil left on top of the membrane.
7. To ensure the cuts are covered just cut a collar from the Weedcheck Ultra with 1 slit and use to cover the cross cuts. Example of collar - see page 7.
8. Cover the bed with your preferred mulch approximately 40mm for aggregates or coconut mulch and 50/60mm for traditional bark mulch.
9. With Artificial Grass Weedcheck Ultra goes directly under the Artificial grass and on top of the compacted 10mm down or sand.
10. Ensure Weedcheck Ultra is covered with a mulch within 24 hours of laying.

WEEDCHECK

A 50gsm Spunbond Weed Control Membrane

Benefits

- An economical membrane which will prevent most rhizome growth from penetrating from below - for complete weed control please use Weedcheck Ultra
- No need for chemicals when installing
- Water and feed passes through to the soil below
- Low maintenance gardening
- Decorative aggregates will not be lost into soil



Under Decking

Suitable Applications

- Aggregate Areas
- Pedestrian Scree Areas
- Flower Beds
- Under Decking with Mulch
- Shrub Beds
- Vegetable Beds
- Vegetable Protection
- Lining Plant Containers
- Between Cocks and Compost



Collar to cover the cross cuts

Specification	WEEDCHECK
Average mean or pore size	43μ
Light transmittance	<8.0%
Carbon black content	3.0%
Membrane weight	50gsm +/- 10%
Guaranteed life - when covered	15 years



Scree Garden

The product is available in several sizes, please contact your local merchant for details.

WEEDCHECK

A 50gsm Spunbond Weed Control Membrane



Installation Guide

1. For aggregate areas simply strim all vegetation to ground level remove vegetation and ensure that there are no sharp objects which could penetrate the Weedcheck. Should bulbs be present they are best removed at this stage.
2. For garden areas prepare the soil removing any visible weeds and then add plant feed to the area.
3. Lay out the Weedcheck over the area and secure at the edges. Using a spade spit down 150mm vertically and tuck the weedcheck into the vertical spit.
4. Should joins be necessary then the recommended overlap is 100mm. Pins can be used but best to use the mulch to keep in place. Use heavy stones temporarily whilst working.
5. Place your plants on top and arrange ready for planting.
6. Cut a cross, open up and remove soil. Water and place plant in the hole, firm in and replace the Weedcheck ensuring that there is no soil left on top of the membrane.
7. To ensure the cuts are covered just cut a collar with 1 slit and use to cover the cross cuts - see photo opposite.
8. Cover the bed with your preferred mulch approximately 40mm for aggregates or coconut mulch and 50/60mm for traditional bark mulch.
9. Ensure that Weedcheck is covered with a mulch within 24 hours of laying.

GROUNDCHECK EXTRA

A 75gsm Woven Geotextile

Benefits

- Decorative aggregates will not be lost into sub base or sub strate.
- Prevents rutting and subsidence in a block paviour drive.
- Under decking will save the cost of mulching.
- The strongest type of Geotextile on a weight for weight basis.



Under Domestic Patio Construction



Under aggregate driveway

Suitable Applications

- Aggregate Drives
- Scree Areas Commercial
- Car Parks & Roads
- Block Paviour Drives
- Horse Manēges - Under type 1
- Under Decking
- Under Domestic Patios
- Under Ground Grid
- Under Cellular Confinement
- Not designed to be used as a Weed Control Membrane



Strong enough to use under a sit on vibrating roller

GROUNDCHECK EXTRA

A 75gsm Woven Geotextile



Installation Guide

Groundcheck Extra is specifically designed for Stabilisation and Separation Applications.

1. Excavate to the appropriate depth for your application, compact the sub soil / sub strate.
2. Lay the Groundcheck Extra overlapping 250mm at joins and secure with polyprop barbed pegs.
3. Carefully cover with Type 1 or similar working from the Type 1 and not on the Groundcheck Extra.
4. Level and compact using a vibrating plate or roller.
5. Groundcheck Extra, because of the hole sizes, cannot be recommended for weed control but will suppress some weeds although rhizomes, bulbs and corns may penetrate.



EN 13249, EN 13250,
EN 13251, EN 13253
EN 13254, EN 13255
EN 13257, EN 13252,
EN13265

The product is available in several sizes, please contact your local merchant for details.

Specification	GROUNDCHECK EXTRA
Tensile Strength - Warp / Weft	18 / 10 kN/m
Elongation - Warp / Weft	21% / 21%
Dynamic Cone Drop	19mm
Tapes per 10cm - Warp / Weft	119 / 75
Static Puncture Resist	1500N
Average Mean Pore Size	300μ
Porosity l/m ² /s	6
Membrane Weight	75 gsm +/- 10%

STRATACHECK

Needle Punched Nonwoven Geotextile

Benefits

- Decorative aggregates will not be lost into soil.
- Catalyst to build up a natural land drain.
- Easy material to work with.
- The only type of geotextile recommended for all drainage applications



Directly under turf ensure that Stratacheck joins are butted and not overlapped.

Suitable Applications

- All Drainage Applications
- Directly under turf
- Wrapping Soakaway Crates
- Block Paviour Drives
- Horse Manēges - Under Dressing
- Paved Drives & Patios
- Children's Play Areas
- Under Ground Grid
- Under Cellular Confinement



Domestic Patio under construction

SUDS Compliant



EN 13249 EN 13250 EN
13251 EN 13252 EN 13253
EN 13254 EN 13255 EN
13255 EN 13256 EN 13256
EN 13257 EN 13265

The product is available in several sizes, please contact your local merchant for details.



Under horse manège

STRATACHECK

Needle Punched Nonwoven Geotextile



Installation Guide

1. Stratacheck has been specifically designed as a drainage membrane where it has the ability to form a natural land drain.
2. If being used under road construction, then there must be a minimum of 150mm of compacted type 1 to avoid the hot tar from damaging Stratacheck.
3. Stratacheck is strong enough to withstand a Light vibrating plate, should a heavy vibrating plate be required then use Stratacheck Plus or Groundcheck Extra
4. Always ensure that when constructing any sort of drainage application that only very clean aggregates are used and that larger aggregate pieces allow faster water flow.
5. Ensure that Stratacheck is covered within 24 hours of laying.

Specification	STRATACHECK
Tensile Strength - MD / CD	6.0 / 6.0 kN/m
Elongation - Warp / Weft	40% / 40%
Dynamic Cone Drop	40mm
Static Puncture Resist	900N
Average Mean Pore Size	120 μ
Porosity l/m ² /s	110
Membrane Weight	95 gsm +/- 10%

STRATACHECK PLUS

Needle Punched Nonwoven Geotextile

Benefits

- Decorative aggregates will not be lost into soil.
- Catalyst to build up a natural land drain.
- Easy material to work with.
- The only type of geotextile recommended for all drainage applications



Used in conjunction with Groundgrid



Land drain & Material storage

Suitable Applications

- All Drainage Applications
- Directly under turf
- Wrapping Soakaway Crates
- Block Paviour Drives
- Horse Manēges
- Paved Drives & Patios
- Children's Play Areas
- Under Ground Grid
- Under Cellular Confinement
- Temporary protection
- Materials storage

SUDS Compliant



EN 13249 EN 13250
EN 13251 EN 13252
EN 13253 EN 13254
EN 13255 EN 13255
EN 13256 EN 13256
EN 13257 EN 13265

The product is available in several sizes, please contact your local merchant for details.



Temporary Protection

STRATACHECK PLUS

Needle Punched Nonwoven Geotextile



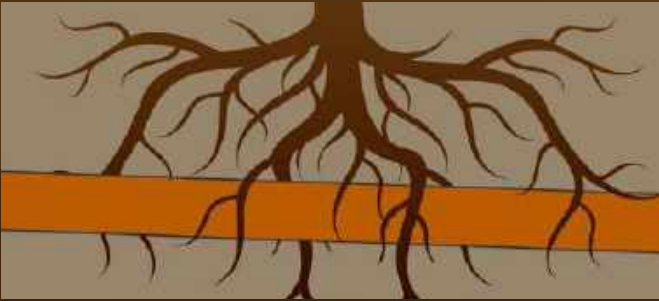
Installation Guide

1. Stratacheck plus has been specifically designed as a drainage membrane where it has the ability to form a natural land drain.
2. If being used under road construction , then there must be a minimum of 150mm of compacted type 1 to avoid the hot tar damaging Stratacheck Plus.
3. Stratacheck Plus is strong enough to withstand a heavy vibrating plate, should a sit-on vibrating roller be required then use Stratacheck Supreme or Groundcheck Extra.
4. Always ensure that when constructing any sort of drainage application that only very clean aggregates are used and that larger aggregate pieces allow faster water flow.
5. Ensure Stratacheck Plus is covered with a mulch within 24 hours of laying.

Specification	STRATACHECK PLUS
Tensile Strength - MD / CD	8.0 / 8.0 kN/m
Elongation - Warp / Weft	40% / 45%
Dynamic Cone Drop	34mm
Static Puncture Resist	1250N
Average Mean Pore Size	110μ
Porosity l/m ² /s	100
Membrane Weight	105 gsm +/- 10%

ROOTCHECK PLUS

A 370gsm Laminated Both Sides Membrane



Sewer pipe protection from roots.

Benefits

- Stops all Rhizome growth from penetrating
- Controls root direction
- Stops all Rhizome penetration into Building

Suitable Applications

- Cables & Ducts
- Sewer Pipes
- Foundations
- Drainage Channels
- Gardens
- Mole Protection
- Pond Protection
- Swimming Pool Protection

Installation Guide

1. Invasion of roots - Dig out to the required depth, insert Rootcheck vertically and backfill with a root free material
2. With cables, ducts, sewer pipes and drainage channels wrap and tape securely, any joins follow the installation on joining Rootcheck. Backfill with soil.
3. To contain invasive plants from spreading, circle the area and join as per the illustration. It is best to use Rootcheck Supreme as it contains UV protection and therefore can be exposed in order to control roots that would try to leap- frog over the barrier.
4. For pond and swimming pool protection ensure that there is no soil between the Rootcheck and the pond or swimming pool.
5. To protect foundations and building ensure that there is no soil between the Rootcheck and the foundations.

ROOTCHECK SUPREME

A 400gsm Laminated Both sides membrane with U.V protection



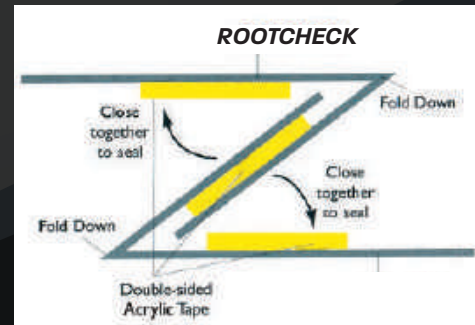
Benefits

- Can be exposed to stop plants like Bamboo from spreading
- Stops all Rhizome growth from penetrating
- Controls Root direction
- The addition of U.V protection means that Rootcheck Supreme can be exposed

Suitable Applications

- Cables & Ducts
- Sewer Pipes
- Foundations
- Drainage Channels
- Gardens
- Mole Protection
- Pond Protection
- Swimming Pool Protection

Rootcheck Plus & Rootcheck Supreme are available in a range of sizes, please contact your local merchant for details.



F.A.Q'S

WEEDCHECK ULTRA

Q: Is there a right way up to lay Weedcheck Ultra?

A: No, it does not matter which way up it is laid.

Q: How long will Weedcheck Ultra last?

A: If being protected by a Mulch about 25 years.

Q: Will Weedcheck Ultra prevent all weed growth?

A: Weedcheck Ultra is designed to control all Rhizome weeds, those which develop in the soil and are the most difficult to control. These are weeds such as Mare's Tail, Japanese Knotweed, Couch Grass, Bermuda Grass, Ground Elder and in addition most bulbs and corns.

Q: What is Surface Weeding?

A: These are either Annual or Perennial weeds which arrive in seed either by wind or by birds. They will germinate and try to push their roots through the Weedcheck Ultra. They should be removed as soon as they are seen to avoid damaging the membrane. Example of these would be chick weed and bind weed which are extremely aggressive once active, but would have developed on top of the membrane and not penetrated from underneath.



Roots developed on top of the Membrane. This membrane has not failed. Surface Weeds needs to be controlled as soon as they develop to prevent them growing through the membrane.



Clean shoots through the membrane with no visible root growth, as in the picture above. This is an example of how many woven membranes may not prevent all weed growth from underneath because of the larger hole size.

F.A.Q'S

Q: Can I feed my plants through Weedcheck Ultra?

A: Yes of course liquid feed is best but solid feed will break down and wash through

Q: What type of Mulch is recommended?

A: Clean aggregates, bark chippings and cocoa shell will protect your Weedcheck Ultra. It is not advisable to put any soil on top of Weedcheck Ultra as a mulch.

Q: Can I use Weedcheck Ultra without a Mulch?

A: Weedcheck Ultra is designed to be covered by a mulch.

Q: Can I use Herbicides with Weedcheck Ultra?

A: No problem whatsoever herbicides will not affect Weedcheck Ultra in either its performance or longevity

Q: Can Weedcheck Ultra be used under vehicles?

A: No, Weedcheck Ultra is designed only for pedestrian use.

GROUNDCHECK EXTRA

Q: I see some weeds growing in Groundcheck Extra topped areas - how is this possible?

A: We do not recommend Groundcheck Extra for weed control as the hole sizes in the membrane will allow certain rhizome weeds, bulbs and corns to come through. We recommend the use of Weedcheck Ultra for total weed control.

Q: Would you recommend Groundcheck Extra when constructing a land drain?

A: We do not recommend Groundcheck Extra for any drainage applications. For drainage use Stratacheck.

Q: Can it be laid any side up?

A: Yes Groundcheck functions whichever way it is laid.

Q: How long will it last?

A: If covered with a mulch and not exposed to sunlight or frost for around 30 years

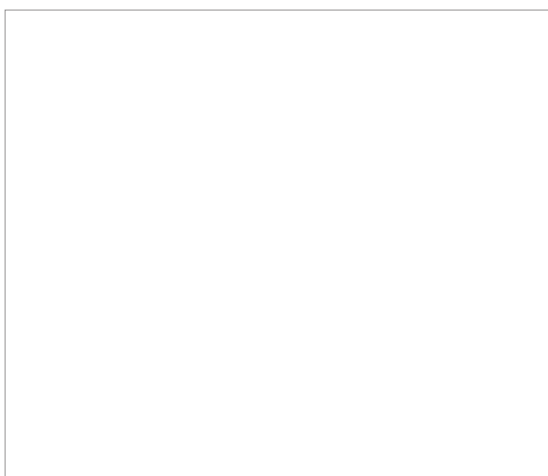
STRATACHECK PLUS

Q: I want to put some turf directly onto imported soil?

A: Imported soil, no matter what they say, is likely to contain an assortment of weeds. Tamp and level the soil and lay down Stratacheck, do not overlap, butt the edges like wallpaper. Lay the turf on top and the majority of weeds contained in the imported soil will never be seen.

Q: Can I use Stratacheck Plus in my Horse Manège?

A: It is the perfect geotextile for this purpose however, you must ensure that the horse's hoof does not come into contact with the Stratacheck. Ensure that the Stratacheck is always covered with 6" to 8" of top dressing.



Your local stockist.



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