Your professional partner for inspirational Fine Turf Products

Catalogue 2017

THORNTREES AMENITY LTD
Welcome to our 2017 product catalogue

Thorntrees Amenity Limited are a specialist supplier to the fine turf industry. We source a wide range of products chosen from specialist manufacturers worldwide. All designed specifically to help attain the highest standards possible.

We are a stockist of major brands such as Sustane, Johnstons, Aquatrols, Vitax, Aqua-Aid, Mivena and Farmura. We pride ourselves in providing a next day delivery service as standard from our 37,000 square foot distribution facilities located both in Scotland and England.

In this our latest catalogue you will find many new and innovative products, including the addition of 2 new fertiliser ranges Mivena from Mivena bv based in the Netherlands & ProLong from Angus Horticulture based here in Scotland, both are ideal for use on all grass sports surfaces.

We have also included the Cover Lawn range of hybrid artificial grass products from ÅhusTurf in Sweden, which can be used on pathways, tees and sports pitches to help reduce wear on heavy usage areas.

Our dedicated team are on hand to provide you with the best possible advise and service.

We look forward to serving you in 2017.

The Thorntrees Amenity Team.

Terms and Conditions

The placing of any orders with Thorntrees Amenity Ltd (The Company) implies acceptance of the following:

Acceptance and Prices

Whilst all prices in this current price list were accurate on going to print, all orders are accepted on condition that any fluctuation in the cost of materials and/or wages may entail adjustment in the price and that the price charged will be that ruling at date of despatch. Prices shown are ex-works and do not include V.A.T.

Carriage Charges

Carriage will be chargeable at cost with all deliveries.

Payment Terms

Payment is due 30 days of invoice date. Overdue accounts will be subject to a 5% surcharge per calendar month. We reserve the right to use agents for the collection of overdue accounts, and to charge any relevant agency fees and expenses.

Title and ownership of all goods shall not pass to the purchaser until payment is received in full, but the risk therein shall pass to the purchaser on delivery and any liability to third parties arising in respect thereof after delivery shall be for the purchaser’s account.

Thorntrees Amenity Ltd shall be entitled to repossess the goods for the proceeds of sale in the purchaser’s hands or the hands of any liquidator or receiver.

Claims for Damages or Non-Delivery

Damaged goods should be notified to ourselves no more than 7 days after delivery. Damaged goods should be noted on delivery notes.

If goods are not received within 14 days of invoice, immediate notification must be made in writing to us. Claims will not be accepted if these conditions are not observed.

The interpretation in performance of these conditions will be governed by the Law of Scotland.

January 2017 - 2019
AMENITY FERTILISER RANGE

Moss Control

5-0-0 + 3%fe
Lawn Sand - moss control and turf tonic. Apply April to September. Water well after 48 hours. Rake out after 7-10 days.

3-0-0 + 7%fe
Lawn Sand - for use in cases of heavy moss infestations. Apply Spring and Autumn.

12%fe + 5%mgo
For autumn/ winter use as a turf hardener & moss control.

Fine Turf Fertilisers

8-0-6 + fe + 2%mgo
A zero phosphate microfine fertiliser – spring/summer.

8-0-0 + 2%fe + 2%mg
A zero P, zero K microfine fertiliser for spring/summer.

3-6-8 + 4%fe
Autumn/ winter fine fertiliser blend with 4% fe.

12-0-9 + 1.5%fe + 1%mgo + seaweed
Spring/summer microfine.

4-0-4 + 4%fe Microtonic
Spring/autumn tonic.

11-5-5 Mini Granular
Spring/summer

5-0-28 + 2%Fe + 1%Mg
Micro granular autumn/winter high K feed.

3-0-22 + 4%mgo + 3% Fe + 6%cao + Seaweed
A zero P high K formulation. Excellent for autumn/winter use.

Weed & Feed Mosskiller

8-0-4 + 3.6%fe

Cold Start Granular

Greens Grade 10-0-10 + 8.9%fe (Slow Release)
This product is designed to be applied during spring months to aid hardening, create a greenup and kick start spring growth.

0-0-50 (Potassium Sulphate)

0-0-34 + 8%mgo
The addition of magnesium makes this an ideal product for sand based greens.

Outfield Fertilisers

9-7-7

3-12-12

20-10-10

25-5-12+PolyS

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PACK COVERAGE/ APPLICATION RATE
UNIT
5-0-0 + 3%fe
357/70g m²
25kg
3-0-0 + 7%fe
357/70g m²
25kg
12%fe + 5%mgo
20/40g 1000/500
20kg
8-0-6 + fe + 2%mgo
714/35g m²
25 kg
8-0-0 + 2%fe + 2%mg
714/35g m²
25 kg
3-6-8 + 4%fe
714/35g m²
25 kg
12-0-9 + 1.5%fe + 1%mgo + seaweed
714/35g m²
25 kg
4-0-4 + 4%fe Microtonic
714/35g m²
25 kg
11-5-5 Mini Granular
714/35g m²
25 kg
5-0-28 + 2%Fe + 1%Mg
714/35g m²
25 kg
3-0-22 + 4%mgo + 3% Fe + 6%cao + Seaweed
714/35g m²
25 kg
8-0-4 + 3.6%fe
320/62.5g m²
20 kg
5-0-10-10 + 8.9%fe (Slow Release)
571/ 35g m²
20 kg
0-0-50 (Potassium Sulphate)
1000-1333/15-20g m²
20 kg
0-0-34 + 8%mgo
1333-1000/15-20g m²
20 kg
3-0-22 + 4%mgo + 3% Fe + 6%cao + Seaweed
714/35g m²
25 kg
Weed & Feed Mosskiller
8-0-4 + 3.6%fe

Cold Start Granular

Greens Grade 10-0-10 + 8.9%fe (Slow Release)
This product is designed to be applied during spring months to aid hardening, create a greenup and kick start spring growth.

0-0-50 (Potassium Sulphate)

0-0-34 + 8%mgo
The addition of magnesium makes this an ideal product for sand based greens.

Outfield Fertilisers

9-7-7

3-12-12

20-10-10

25-5-12+PolyS

600-1000/20-30g m²
20 kg
AMENITY FERTILISER RANGE (CONTINUED)

**Straight Fertilisers**

- Bone Meal 4-20-0
- Dried Blood 12-0-0
- Hoof and Horn Meal 13.5-0-0
- Sulphate of Potash 0-0-50
- Sulphate of Ammonia 21-0-0
- Sulphate of Iron

**Granular Fine Turf Fertilisers**

**Endure**

- Application guide
  - Apply all formulations at 25g/m² (250kg/ha)
  - Prevents flushes of soft growth that may become susceptible to disease.
  - Extended nutrient release over 3 months.

**Vitax Enhance R Outfield – Spring and Summer**

- Optimum balance of nutrients to encourage healthy turf growth, ideal for sport fields and bowling greens.
- Formulated to achieve high and consistent colour with reduced application frequency.

**Vitax Enhance R Outfield – Autumn and Winter**

- High nitrogen formulation formulated for use in cooler periods with slow growth.

**SSD Microbial**

- The inclusion of humates into these quality fertilisers will stimulate the microbes to create a living organic soil. Humate is an excellent chelator, making the nutrients in the soil more readily available to plants.
- The inclusion of humates will help:
  - Develop a deeper, more substantial root system
  - Stabilize microbial activity in the soil
  - Improve plant vigour and increase the uptake of nutrients
  - Reduce the effects of stress due to extremes of weather and growing conditions

**SSD Microbial 8-0-0**

- A high quality nitrogenous fertiliser for fine turf with single particle round sand carrier.
- Contains magnesium and iron to improve colour. For spring and summer use (March to end of August).

**SSD Microbial 8-0-6**

- A quality powder fertiliser for all fine turf areas, but especially recommended for golf and bowling greens. Contains magnesium and iron to improve colour, plus added seaweed which acts as a natural turf tonic. For spring and summer use (March to end of August).

**SSD Microbial 8-0-0 Iron Free**

- A high quality, nitrogenous fertiliser with iron free formulation. For spring and summer use.

**Microbial 2-0-10 Potash Plus**

- Ideal for year round use, but particularly valuable from autumn to early spring, in maintaining potash levels during periods of slow growth and high rainfall.

**Turf Tonic (Vitax) 2.1-0-2.5+3%fe**

- Controls moss and inhibits disease outbreaks. Ideal for late autumn use.

**Kieserite - 16%mg**

- A readily available form of magnesium for turf, designed to correct mg deficiency in sandy soils.
- Also where high potassium levels are present it addresses the ratio of potassium to magnesium in the soil.
ProloNg™ fertilisers are formulated to overcome the problem of loss of applied nitrogen (N) by volatilisation, denitrification and subsequent leaching and are ideal for all sports turf applications.

ProloNg™, by preventing nitrification, eliminates lush plant uptake of nitrates. This results in less flushes of unwanted growth, and reduction in soft tissue (stored protein in leaves) and therefore reduced disease susceptibility.

Benefits of ProloNg™ include:

- Prolonged Nitrogen availability from single application
- Improved utilisation and plant take up of applied Nitrogen
- Promotion of tillering, increasing sward density
- Reduced waste Nitrogen resulting in improved cost efficiency and reduced environmental impact by:
  - Preventing volatilisation
  - Slowing down nitrification
  - Preventing leaching
- Reduces unwanted growth flushes
- Safe, reduced scorch susceptibility formulations
- Reduces soft lush growth and disease susceptibility
- Protects water courses from nitrate pollution (less algae growth in ponds/lakes)
- Discourages annual grasses in greens (e.g. Poa annua) – promotes perennial grasses
- Range of granule sizes, pricing and formulations, to meet every turf managers requirements
- Low salt formulations improving root zone environment and enhancing root activity
- Excellent grass colour

BioActive ProloNg™ mini

ProloNg™ technology in our high quality, homogenous, mini granular fertiliser range, specifically formulated for high quality fine turf. These BioActive ProloNg™ mini fertilisers offer:

- Low salt formulations
- Especially formulated to encourage and maintain healthy root zones, looking after the biota
- 100% of Nitrogen is treated with ProloNg™ technology
- Safe to use throughout the year
- Granular size 1-2.5mm

16 - 2 - 10 + 2% MgO + 3% CaO + 6% SO₄
50g m⁻²/400m²
20kg

12 - 0 - 15 + 3% MgO + 3% CaO + 6% SO₄ + 1% Fe
50g m⁻²/400m²
20kg

ProloNg™ mini

- High quality homogenous mini granules for greens, tees and all sports surfaces
- Granule size 1-25mm

24 - 3 - 7
50g m⁻²/400m²
20kg

18 - 3 - 18
50g m⁻²/400m²
20kg

14 - 1 - 7 + 3% MgO + 2% Fe + 4% CaO
50g m⁻²/400m²
20kg

10 - 4 - 4 + 4% MgO + 3% Fe + 8% CaO + Seaweed
50g m⁻²/400m²
20kg

High quality homogenous mini granules for greens, tees and all sports surfaces

BioActive ProloNg™

- Granule size 2-4mm

Balanced N:K 22 - 0 - 22 + 1% MgO + 10% SO₄ + 0.5% Mn
50g m⁻²/400m²
20kg

High N 22 - 2 - 10 + 4% MgO + 4.5% CaO + 12% Seaweed
50g m⁻²/400m²
20kg

Late Summer 16 - 5 - 25 + 3.5% MgO + 12% SO₄
50g m⁻²/400m²
20kg

High K 15 - 0 - 25 + 3% MgO + 1.5% CaO + 10% SO₄ + 0.5% Mn + Seaweed
50g m⁻²/400m²
20kg

Autumn High K 10 - 0 - 30 + 2% MgO + 4% CaO + 10% SO₄ + 0.7% Mn + Sw
50g m⁻²/400m²
20kg
Granucote CRF Mini is available in the following formulations

<table>
<thead>
<tr>
<th>Formulation</th>
<th>Longevity</th>
<th>Application rate</th>
<th>Bag size</th>
</tr>
</thead>
<tbody>
<tr>
<td>22-5-7+mgo</td>
<td>2-3 months</td>
<td>25g/m2 covers 800m2 40g per m2 covers 500m2</td>
<td>20Kg</td>
</tr>
<tr>
<td>24-0-19</td>
<td>3-4 months</td>
<td>30g/m2 covers 666m2 45g per m2 covers 445m2</td>
<td>20Kg</td>
</tr>
<tr>
<td>43-0-0</td>
<td>2-3 months</td>
<td>25g/m2 covers 800m2 40g per m2 covers 500m2</td>
<td>20Kg</td>
</tr>
</tbody>
</table>

Granucote Mini is available in the following formulations

Granucote CRF is available in the following formulations

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<th>Formulation</th>
<th>Longevity</th>
<th>Application rate</th>
<th>Bag size</th>
</tr>
</thead>
<tbody>
<tr>
<td>23-5-12+2%MgO+0.5%Fe</td>
<td>3-4 months</td>
<td>25g/m2 covers 800m2 35g/m2 covers 571m2</td>
<td>20Kg</td>
</tr>
<tr>
<td>28-5-10</td>
<td>3-4 months</td>
<td>25g/m2 covers 800m2 35g/m2 covers 571m2</td>
<td>20Kg</td>
</tr>
<tr>
<td>15-0-22+2%MgO+2%Mn</td>
<td>3-4 months</td>
<td>25g/m2 covers 800m2 35g/m2 covers 571m2</td>
<td>20Kg</td>
</tr>
</tbody>
</table>

Granusports SRF is available in the following formulations

Granuform SRF is available in the following formulations

<table>
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<tr>
<th>Formulation</th>
<th>Longevity</th>
<th>Application rate</th>
<th>Bag size</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-0-10+2%MgO+4%Fe</td>
<td>2-3 months</td>
<td>20g/m2 covers 1000m2 35g/m2 covers 666m2</td>
<td>20Kg</td>
</tr>
<tr>
<td>14-7-10+2%MgO+0.2%Fe</td>
<td>2-3 months</td>
<td>20g/m2 covers 1000m2 30g/m2 covers 666m2</td>
<td>20Kg</td>
</tr>
<tr>
<td>15-0-12+3%MgO+2%Fe</td>
<td>2-3 months</td>
<td>20g/m2 covers 1000m2 30g/m2 covers 666m2</td>
<td>20Kg</td>
</tr>
</tbody>
</table>

- Resin coated Nitrogen controlled release fertilisers, with a uniform small prill size 0.5 - 1.5mm.
- Ideal for use on golf greens, bowling greens & tees.
- No sulphur coating.
- Low application rates.

- Uniform particle size 0.5 - 1.0mm.
- High Degree of solubility resulting in minimum disruption to play.
- Homogenous granule incorporating all available nutrients in one prill.
- High levels of Methylene Urea (MU) for longevity of 2-3 months in all analysis.
- Minimal risk of scorching.
- Ideal for greens, surrounds and tees.

- Conventional based fertilisers with a 1-2mm granular size.
- Benefit of 25% MU of the N for extra longevity.
- Low Application rates
- Ideal for use on green surrounds, tees & Sports pitches.
- Effective release of nutrients over a 12 week period.
- Homogenous granulation for even distribution.
Sustane is made from aerobically composted turkey litter. Raw material is produced by literally thousands of Turkeys; gathered from a number of turkey farms and shipped to the composting site where it spends the next 26 weeks. The turkey litter is naturally transformed from an unstabilised, pungent waste product into an odourless, stabilised, rich humus.

The raw material is laid out initially into long piles or windrows. Each windrow contains at the start of the process 440 tons of raw product. The windrow will be turned twice weekly throughout the 26 week composting cycle to introduce oxygen, ensuring aerobic conditions are maintained throughout the process.

The final product is stable, odourless and will not burn. The organic nitrogen present in all of the Sustane fertilizers has an important slow release element which provides excellent root development without flushes of top growth. The production of Sustane fertilizers is a long, arduous and natural one but the results speak for themselves.

Both Sustane 4:6:4 and 5:2:4 are certified by the Organic Material Review Institute for use on organic crops and are 100% organic. These all natural products were created on the premise that a healthy rootzone is the key to maintaining quality growing conditions and the plant life the soil system supports.
**AMENITY TURF FEEDS AND CONDITIONERS**

**Greenvale Organic Fertiliser**
- **Greenvale 5-4-3**
  - Pellets available in two grades: 3mm and 5mm
  - 250-500/50-100g/m²
  - 25kg

One of the few organic fertilisers which is approved by the Soil Association. Sourced from poultry farms it is composted and then dried to attain 90% dry matter. In addition to major nutrients it is packed full of trace elements. Available in 3mm and 5mm pellets it is designed to promote root development and a thickening of the sward. Ideal for tees, fairways and walkways.

**Fertiliser Applicators**

**ICL AccuPro 2000 Seed and Fertiliser Spreader**
- Rotary Spreader, consistent spread pattern from 2 to 6 metres wide.
- Allows exact setting of application rate.
- Can also be used for grass seed and sand.
- Large wheels for easier pushing and no tread marks.
- Galvanised Steel
- Hopper capacity 25kg

**SR2000 Rotary Seed and Fertiliser Spreader**
- Consistent spread pattern from 2 to 6 metres wide.
- Allows exact setting of application rate.
- Large wheels for easier pushing and no tread marks.
- Stainless Steel
- Hopper capacity 25Kg

**F80PD**
- 36kg Capacity Hopper
- Standard Dual Port PRO interchangeable tray
- Wide 33cm diameter turf tyres
- Twin tube pro chassis
- Epoxy Powder Coated frame
- Ergonomic upper handle for easy control
- 113kg load bearing capacity
- 2 Position height adjustable handle
- Made in the USA
- 5 Year Warranty

**F80PSD**
- 36kg Capacity Hopper
- Standard Dual Port PRO interchangeable tray
- Wide 33cm diameter turf tyres
- Twin Tube Pro chassis
- Stainless steel frame
- Ergonomic upper handle for easy control
- 113kg Load Bearing Capacity
- 2 Position adjustable handle
- Made in the USA
- 5 Year Warranty

**Horticrop Extra**
- **Greens**
  - Fairways
  - 25L/Hectare
  - 12L/Hectare
  - Dilution Rate 20-1
  - 20 and 200L

Organic based foliar for turf containing seaweed, humic acids, amino acids, trace elements +5%N. Also available with iron for use as a conditioner and supplementary feed.

**Summer Magic Total Feed**
- High quality easy to use all in one turf fertiliser for Main season application for reviving stressed or badly worn areas. Ideal for use prior to a special event.
  - Contains - Seaweed + Humic Acid
  - Analysis - 14-0-6 + Iron + Trace
  - Includes - Indicator dye and wetter

**Late & Early**
- All in one organic based high potash based feed, specially formulated to give maximum protection during the winter. Ideal for application as an early season treatment to encourage spring growth, enhance colour and stimulate soil bacteria.
  - Contains - Seaweed + Humic Acid
  - Analysis - 2.5-0-10 + Iron + Trace
  - Includes - Indicator dye and wetter

**Sea Impact**
- A high quality cold pressed seaweed extract, which is ideal for use throughout the growing season and as a stimulant to aid root development and germination of seed.

**Liquid Fertilisers**
- Formulated to customers requirements
  - Ratio of NPK etc
  - Greens: 100L/Hectare
  - Fairways: 25L/Hectare
  - Dilution Rate 4-1
  - 20 and 200L

**Liquid Fish Blood 7 Bone 8-8-7 + Trace Elements**
- Extremely efficient source of essential plant nutrients.
- Provides a kick start to growth during cold / wet conditions
- Gives a fast return to a healthy colour.

**Sulphate Ammonia 10-0-0 + 12% Sulphur**
- A liquid feed used for its acidifying effect to promote fescue and bent grasses and discourage annual meadow grass.
- A product which is extremely popular with agronomists.
**AMENITY TURF FEEDS AND CONDITIONERS (CONTINUED)**

### Vitax Liquid Feeds

**Seaturf Superconcentrate**
Improves root development and thickening of sward reduces stress, produces good turf colour and increased microbial activity.
Dilution rate 300-900L water per hectare

10L/Hectare 10L

**Seaturf Special 12-0-6**
Main season feed with seaweed and major nutrients. Annual meadow grass will not be encouraged due to zero phosphate formulation.
Dilution rate 300-900L water per hectare

66L/Hectare 10L

**Seaturf Iron Extra 3-0-0+6%fe**
For use as a turf hardener or a greenup prior to a major event.
Dilution rate 300-900L water per hectare

40L/Hectare 10L

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**Enhance WSP**

- Enhance fertiliser in a water soluble powder form.
- Provides both foliar and root feeding.
- High-P formulation acts as a very effective turf renovator.

**Enhance WSP Formulations**

- Enhance WSP Spring and Summer 25+5+10+2Mg0+TE (with Amino-Sorb)
- Enhance WSP Autumn and Winter 12+5+25+2Mg0+TE (with Amino-Sorb)
- Enhance WSP Renovator 7+30+15+2Mg0+TE (with Amino-Sorb)

**APPLICATION GUIDE**
Initial application at 20kg/ha in 400-800 litres of water. (This rate should not require irrigation. If higher rates are used irrigate with 1 litre of water per m².) Apply weekly if growth is required.

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**SwardPhite**

Promotes turf growth through innovative bioactive nutrition

**SwardPhite 4+25+9 w/v**
SwardPhite is an innovative fertiliser based on potassium phosphite (P03) which has smaller, more reactive molecules than conventional phosphate (P04). SwardPhite promotes healthy turf growth by stimulating meristem cell activity in roots and crowns and by aiding the turf’s natural defence systems.
- Readily available and easily absorbed by turf
- Fully mobile in turf grass plants, travelling from roots to leaves and vice versa
- Rapidly available where it is needed most
- Avoids phosphate ‘lock-up’, especially during Summer stress induced phosphate deficiency
- Foliar applied, SwardPhite remains systematically mobile in the turf, providing readily available phosphorus for energy transfer processes in plant cells
- SwardPhite will also aid the turf’s uptake of potassium, calcium, magnesium, iron and manganese under difficult conditions

**APPLICATION GUIDE**
Apply SwardPhite at 2 to 3 week intervals at 4 l/ha in 400 to 1000 litres of water (4ml/100m² in 4-10 litres of water).

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**VitaSil**

Liquid silicon stress reducer for turf

**VitaSil 14% potash (K2O) + 7% silicon (Si) + humates**
- Stronger turf – silicon is increasingly recognised by turf professionals as a vital component in nutrient programmes. VitaSil strengthens cell walls, toughens epidermal cells, regulates stomata action and boosts plants’ natural disease defences
- Stress resistance – turf strengthened with VitaSil is more resistant to heat stress, drought stress and wear. The tougher cells boost natural defence mechanisms to help resist disease attack. Stronger xylem cell walls maintain water flow through the plant under stress conditions to maintain metabolic activity, resulting in quicker recovery.
- Improved playing surfaces – turf blades are more erect when fortified with VitaSil so seed heads and stalky materials are mown off more reliably, giving a cleaner cut, better appearance and faster ball roll.

**APPLICATION GUIDE**
Spray on monthly at 5 l/ha in 400 to 600 litres of water (50ml/100 m² in 4 to 6 litres of water).
Farmura Turf
This is the original Farmura Liquid Organic Feed. Use from initial preseeding through to maintenance. Improves germination, encourages quicker establishment of grass seed, root development, tillering and a dense sward without undesirable flushes of growth. Farmura Turf encourages fine grasses and is excellent for use in ecologically sensitive areas. As a soil conditioner it will increase soil bacteria count enabling locked-up nutrients to become available to the plant. Other benefits include drought and disease resistance. The importance of a healthy bacterial population is now recognised and Porthcawl is the ideal bacterial food making them available to the plant. Other benefits include improved carbohydrates, amino acids and growth regulators and will promote a dense, deep rooting sward. Porthcawl will release locked up nutrients, providing a far greater foliar uptake than other forms such as nitrate & thiosulphate and will increase stress resilience & water stress tolerance. Can be tank mixed with most liquid feeds & conditioners

Porthcawl – the flagship of the Farmura Liquid Organic range. Developed over many years Porthcawl has a proven history of success making it the market leader. A synergistic blend of organic ingredients, Porthcawl contains over 70 analysed nutrients including micro nutrients, trace elements, carbohydrates, amino acids and growth regulators and will promote a dense, deep rooting sward. Porthcawl will release locked up nutrients, making them available to the plant. Other benefits include improved drought and disease resistance. The importance of a healthy bacterial population is now recognised and Porthcawl is the ideal bacterial food making them available to the plant – and the seaweed is an effective growth stimulator, encouraging strong rooting and aiding plant health through periods of stress caused by drought, frost or heavy use.

Potassium Acetate
- Source of potassium as Acetate which gives a far greater foliar uptake than other forms such as nitrate & thiosulphate
- Includes trace elements
- Improves germination when over seeding
- Ideal turf hardener
- Promotes turf density
Available in 10/210L

Premium K. 0-0-38
Potassium Acetate
- Superior foliar absorption
- Ideal autumn feed that hardens turf
- Improves germination when over seeding
- Can be tank mixed with most liquid feeds & conditioners
Available in 10/200L

Providian 5-0-1
All in one plant feed containing major nutrients, cold pressed seaweed extract, 2% Fe & 2% Manganese (chelated) + amino acids.
- Increases stress resilience & water stress tolerance
- Enhances turfgrass quality & visual presentation
- Increases photosynthesis of the plant
- Improves root development
- Speeds recovery of stressed turf
- Promotes a more natural sustainable colour

Super Concentrates
A blend of nitrogen & Potash sources with added sulphur and magnesium. Formulated for sandy soils, USGA Greens, etc. Ideal spring start and mid season boost.

Spring & Summer 36-0-12 + 2%S +1% mgo
Ideal as a spring start & mid season feed.

Complete 30:7:22
The ideal ratio of NPK. Complete is a good all round product for use throughout the year.

Premium N 35-0-0 W/V Methylene Urea
- Methylene urea formulation
- SFR/N is slow release Polymethylene Urea
- Gives superior root growth
- 70/30 soil/leaf uptake

Calcium Plus 19.5-0-0 + 9%c+ 3%mg + 1.3%fe
- A root & foliar feed that builds and strengthens cell walls in the plant
- Improves soil texture & makes nutrients more available
- 70/30 soil/leaf uptake

Potash Plus 2.5-0-25
- Source of potassium as Acetate which gives a far greater foliar uptake than other forms such as nitrate & thiosulphate
- Includes trace elements
- Improves germination when over seeding
- Ideal turf hardener
- Promotes turf density
Available in 10/210L

AMENITY TURF FEEDS AND CONDITIONERS (CONTINUED)
SOIL CONDITIONERS, PH ADJUSTERS AND BACTERIAL BOOSTERS

PACK COVERAGE/ APPLICATION RATE UNIT

Farmura Combi
Trace element package
- Contains a full range of trace elements which are in a fully chelated form

XL Pro Bio Products

The XL ProBio 20/50 Brewer
- 50L of brew will treat one hectare.
- The air valve on the lid is used to vary the amount of air sent to the main bubble diffuser
- During the first 2 hours of brewing close the air valve with the lid left of the brewer
- After 2 hours adjust the air valve to reduce the agitation
- After 24 hours turn of the air compressor , allowing the solids to settle
- Withdraw the brew in filter & the concentrate is ready for use
- For the 20/50 brewer we recommend that you use the jug supplied and decant in to your sprayer
- Product must be used within 6 hours of completion of the brewing process

The XL ProBio 200 Brewer
- Due to the weight of the brewer when filled it requires to be placed on a solid platform prior to filling
- The 200 brewer comes complete with a tap
- If your water has chlorine in it add 4 cap fills of BioStim per drum
- Allow to bubble for 24 hours, before drawing of the liquid brew by opening the tap & allowing to run through the filter sock
- 200L of brew treats 4 hectares

Revitalised Turf Treatment
Revitalised is a cost effective solution to applying biology to very large areas. Revitalised is a one pot solution and no starter additives or boosters are required. Simple and easy to brew with the XL Brewer and is ready to use in 24 hours.
- A thermophilic compost from selected green matter with added worm casts
- Disease suppression
- Suppress some pests (nematodes)
- Reduces the need for conventional fungicides
- Reduces nutrient leaching
- Improves water retention
- Improves cationic exchange & unlocks nutrients
- Stimulates root development

Unit 2.5L & 6L tub treats 2 & 5 hectares respectively.

Biolift Turf Treatment
A ready to use liquid source of biology derived from Vermi compost.
- All the benefits of Revitalised without the hassle of the brewer
- Derived from worm casts
- Biolift is not a fertiliser however the beneficial biology will feed of the thatch in the root zone
- Suppresses pests & diseases
- Promotes root development
- AIDS in the effective uptake of fertilisers
- NB 6 month shelf life
- 10L can treat 1 hectare.

SOIL CONDITIONERS, PH ADJUSTERS AND BACTERIAL BOOSTERS (CONTINUED)

Charcoal

The use of charcoal will combat the undenoted.
- The accumulation of thatch under ‘anaerobic’ soil conditions, where bacterial action is drowned out and soil pore space is permanently saturated, can be significantly alleviated by the use of charcoal.
- This product is an important absorbtent in our quest for a balanced soil structure, inducing air into the pore space at the expense of super saturation. Such an all round improvement will lead to increased sward density, improved colour and will assist in combating excessive acidity.

General use
Back-end renovation
- Apply up to 100 grammes per sq. m. after aeration, incorporation down tine holes and into intimate contact with growing medium is very important.

Golf green/tee construction
- Apply up to 100 grammes per sq. m. to the rootzone immediately before turfing. Rotate the surface to a depth of approximately 100mm, heel tread and apply a further 25 grammes per sq. m. before raking and establishing final levels before turfing.

General use
- Apply 20 grammes per sq. m. of fine grade charcoal (0.5mm) up to 4 times during the growing season after scarifying. Use a cane (switch) to assist the material into the linear groves produced by the scarifier. Top dress with a well balanced compost thereafter. 3 grades available 1-2mm, 0.5-1mm and a powder, in either 20 or 25kg bags.

Zeolite - Clinoptilolite Zeolite Amendment

What is Zeolite?
A naturally occurring non-toxic porous mineral rock of volcanic origin. Zeolite is 80-85% pure.

What are its properties?
- Zeolite has the ability to absorb and retain water and nutrients such as nitrogen and potassium, plus other trace elements
- Its unique crystalline lattice structure enables it to release these nutrients into the root zone when the plant demands
- With regard to this exchange process, Zeolite has one of the highest CEC ratings compared to other soil amendments

What are the benefits?
- Boosts cation exchange capacity
- Fertiliser utilisation is significantly improved by its nutrient retention, reducing fertiliser costs whilst maintaining quality
- Leaching of nutrients is dramatically reduced, saving money and reducing pollution
- Improves percolation rates
- Increased water retention, the porous nature means the soil will look dry but the Zeolite will have up to 52% plant available water (by weight) in the pores
- Helps to relieve compaction
- When applied to rootzone, it continues to exchange N and K cations year after year
- 100% natural
- Application rate is 70-140g per m²

Typical physical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Physical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Density</td>
<td>0.27 g/cm³</td>
</tr>
<tr>
<td>Apparent Bulk Density</td>
<td>0.79 g/cm³</td>
</tr>
<tr>
<td>Hardness (Mohs scale)</td>
<td>3.5-4.0</td>
</tr>
<tr>
<td>Hardness (Mohs scale)</td>
<td>2.0-3.5</td>
</tr>
<tr>
<td>Thermal Stability</td>
<td>Up to 350°C</td>
</tr>
<tr>
<td>Thermal Stability</td>
<td>0.10</td>
</tr>
<tr>
<td>Core Volume</td>
<td>103.0 (kg)</td>
</tr>
<tr>
<td>Oil Absorption</td>
<td>73% (w/w)</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>29.5% (w/w)</td>
</tr>
</tbody>
</table>

SOIL CONDITIONERS, PH ADJUSTERS AND BACTERIAL BOOSTERS (CONTINUED)

What are the chemical properties?

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkalinity Stability</td>
<td>7.11 pH</td>
</tr>
<tr>
<td>Acid Stability</td>
<td>2.74 pH</td>
</tr>
<tr>
<td>Leaching</td>
<td>Up to 350°C</td>
</tr>
<tr>
<td>Leaching</td>
<td>0.10</td>
</tr>
<tr>
<td>CEC</td>
<td>1.6 &amp; 1.8 mg/l/m</td>
</tr>
</tbody>
</table>
### SOIL CONDITIONERS, pH ADJUSTERS AND BACTERIAL BOOSTERS (CONTINUED)

**Seaweed Meal**
- Organic soil conditioner
- Dry, easy to spread, suitable for applying after hollow coring and vertidraining
- Dry matter - 90.2%
- pH of moist meal 5.6, particle size 20-80 mesh
- Expansion factor - Volume of wet meal - 3.5 Volume of dry meal

**Soluble Seaweed**
- 100% soluble seaweed bio-stimulant containing natural growth stimulants and chelated trace elements.

**Headland Sulphur**
- 14.2L-71/70-140L for pH adjustment
- Sulphur is used for soil acidification and can be applied from early spring to late autumn ideally when soil moisture is high.

**Bactolife Soluble Concentrate**
- 200g/Hectare
- 100g

**Q-Bac**
- 5kg/Hectare
- 2.5kg tub

**Amino Sorb F**
- Retains turf quality during Stress conditions. This foliage absorbed amino acid supplement will give turf relief from stress, and helps it to maintain overall quality by increasing the photosynthesis Rate and chlorophyll concentration. Plant metabolism is stimulated thus creating conditions for weedkillers and fungicides to work more efficiently. In tests Amino Sorb F showed positive reductions in incidence of Dollar Spot on Creeping Bent Grass.

**Amino Sorb R**
- A root absorbed amino acid supplement expressly formulated for root growth, enhanced germination and stress relief, Amino Sorb R also increases nutrient uptake and creates conditions for weedkillers and fungicides to work more efficiently.

**Nutrimate Amenity Liquid**
- Nutrimate Amenity Liquid is concentrated Fulvic acid which having a small molecular weight aids absorption into the plant and increases the efficiency of all applied fertilisers. Fulvic acid increases the efficiency of photosynthesis within the plant, thus increasing chlorophyll levels, resulting in a greenup without any top growth associated with applying nitrogen. Fulvic acid is one of the best known naturally occurring electrolytic chelating agents and has a PH of 5.6.

### SOIL CONDITIONERS, pH ADJUSTERS AND BACTERIAL BOOSTERS (CONTINUED)

**Downcast**
- A non-pesticidal, plant nutrient based liquid that improves turf health and discourages casting worms from the surface
- Contains low levels of Nitrogen, Sulphur & Iron
- Rapid plant green up
- No flushes of growth
- Huge reduction in worm casts on sward surface
- Increases stress tolerance within the plant
- Contains indicator dye
- Encourages chlorophyll production within the leaf
- Initial application 20L per hectare

**Spring and Autumn Organic Soil Conditioner**

Velvit Ltd is pleased to introduce a special all new organic mini grade soil conditioner, made from plant extracts, which is designed to purify the soil before the on-set of spring growth and autumn/winter shut down. The aim of this product is to provide the soil with a building block of organic matter, which will stimulate all available nutrients in the product to be watered in for 5-10 minutes. This is designed to wash the micro fine plant extracts into the turf and start the break down process.

**Benefits of organic plant extract**
- Promotes establishment of Fescues, Bents and Rye grasses.
- Improves root mass and increases nutrient uptake.
- Increases plant tolerance to stress conditions.
- Encourages faster grow-in and establishment of new grass seedlings. - Increase resistance to and speedier recovery from disease.
- Maintains plant count entering into a dormant period.
- Acts as a bio-stimulant, which will enhance microbial activity.
- Can be applied to all types of turf, greens, tees, fairways, sports pitches and general amenity turf.
- Suitable for all type of soils.

**APPLICATION RATES:** 30gms/m2 (300 kg /ha) UNIT: 20kg
**Wetting Agents**

**Yucca**
Natural wetter derived from the yucca plant.

**Aquifer Liquid**
A soil surfactant which produces and maintains an omni directional flow of applied irrigation and/or natural rainwater. A downward and lateral movement of water which provides a uniform moisture profile.
- Reduced localised dry patch
- Reduced wilt
- Reduced summer stress
- Increased water retention
- Non scorch
- Does not have to be watered in

**Aquifer Granular**
All the benefits of the liquid but easily applied via fertiliser applicator. Particularly use in combating deep-seated dry-patch.
Ni & As: This product is residual it is important to use in conjunction with aeration brushing the granules down the tine holes.
Excellent for use on greens and bunker faces.

**Oats PS**
The ultimate soil penetrating surfactant.
**Features:**
- Oats - Organic Acid Redistribution System
- Multi - branched penetrating soil surfactant
- Increased length of activity in the soil

**Benefits:**
- Increases penetration of water
- Removes Humic coatings from hydrophobic soil particles
- Provides firm fast surfaces
- Improves water management efficiency
- Controls soil water repellency

**Oats HS**
Implements water retention with Organic Acid Redistribution System.
**Features:**
- Multi branched hydrating soil surfactant
- Increases number of hydrating sites
- Increased length of activity in soil

**Benefits:**
- Removes Humic coatings from hydrophobic soil particles
- Controls water repellency
- Hydrates the soil to improve moisture retention
- Reduces drought stress
- Consistent performance between applications to maintain adequate moisture in hard to wet soils

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**IRONS**

**Farmura Ferrosol**
6% Iron
Ideal green-up and turf hardener. Nitrogen molecule is used to release iron into plant. Application rate 20L per hectare. However, application rate of 40L per hectare, i.e. double dose does have a profound effect on moss.

**Iron Plus**
Liquid Iron 6%e with marker/wetting agent and Mn. Excellent as a green-up prior to a tournament or as a winter hardener. The addition of a natural wetter and manganese aids uptake of iron by the plant.

**K Plus**
A unique liquid 6% iron complex plus 6% potassium, wetting agent, dye and trace elements. Apply anytime of year, but especially effective in autumn/winter.

**Nutrimate Ironage**
6% FE liquid organically chelated
The first fully controlled release iron for all turf. The unique chelation of iron by Nutrimate liquid means that Ironage lasts months rather than days and provides greater disease resistance than ever before. Organically chelated, ideal to help prevent disease. Ironage is absorbed and retained in the plant more readily, providing excellent colour for longer periods than conventional liquid irons and is clean and easy to use.
- Promotes disease resistance
- Stimulates excellent long lasting colour
- Economical in use due to longevity
- Helps to reduce pH

**Iron Xtra Granular**
2-0-10+8.7%Fe
Greens Grade (1mm 100 SSN particle size turf hardener), that contains a well proven slow release granular iron (FORTIplexes). This product is designed to be applied during the autumn/winter months to aid hardening and create a long lasting green-up. The high potassium content will also help stress relief and maintain plant count.

**Amenity Soluble Iron**
A 20% highly soluble iron, ideal for golf fairways and sports pitches.
WETTING AGENTS (CONTINUED)

Ultraflo Advance
Superior long term non-ionic wetting agent
Ultraflo Advance is a new and unique proprietory blend of soil active surfactants formulated for applications in professional turf management. Ultraflo Advance can be used on Greens, tees, fairways, stadiums, athletic fields, sports grounds, turf farms, parks and residential lawns.
- New and improved formulation which remains effective for longer
- Increased turf grass safety
- Lower water volumes
- Increased rate and depth of water penetration
- Will remain effective in the soil for the entire growing season
- Up to 30% irrigation savings can be made by applying Ultraflo Advance, as it promotes more efficient irrigation practices
- All the benefits of the original Ultraflow but with reduced dilution rates

Ultraflo Granular
Water management products
A high quality granular wetting agent, ideal for the treatment of specific areas, including bunker banks and exposed windy areas where liquid application is a problem. Valuable for application at construction stage, and after hollow tining in Autumn.
- All the benefits of Vitax Ultraflo liquid in an easy-to-apply granule
- New formula gives faster penetration
- Totally biodegradable carrier
- Rapid granule breakdown
- Cost-effective – one pack covers 500m²

Aquaduct
A penetrant to treat dry patch. Apply weekly until the problem is corrected.

Fifty 90
A 90 day long term surfactant. Suitable for tees and sportsfields. Apply before dry patch starts.

Dewdrop Dew Dispersant
- Reduces leaf surface moisture, suppressing formation of dew
- Leaf dries quicker following rain or irrigation
- Less moisture reduces disease pressure
- Frost is less damaging
- Cost saving compared to manual dew removal
- Easy and safe to use

Aqua Root Pellets
Wetting agent with the addition of humates to aid rooting in pellet form.

Oats Pellets
The hydrating and water saving pellet.
• 100% active ingredient
• Reduces hand watering
• Manages localised dry spots
• Increases water infiltration
• Helps wet hydrophobic soils
• Provides uniform wetting

Advantage + Pellets
A wax type pellet which is ideal for treating localised dry spot on greens and bunker tops.

Advantage + Pellets + Seaweed
The same formula as the Advantage + but with the addition of 3.3% Humic acids + 5% seaweed which makes them ideal in assisting rapid germination of seed.

Magnum Blaster Pellet
For use in irrigation systems. Easy application of a wetter during busy periods, also lubrication of the popups, preventing sticking heads.

Magnum One Shot
Magnum One Shot sachet for large scale economic use and tank mixing. Magnum One Shot is a super concentrated wetting agent designed to give economical yet superior turf wetting and water penetration on hydrophobic soils. Magnum One Shot is economical enough to be used on large areas such as fairways and out fields prior to rain or irrigation to aid in water movement into the soil. Magnum One Shot can also be used, where product compatibility allows, with spray solutions to improve the spread and penetration of the tank mix.
Usage period: all year round
Pack size: 20 sachets
Pack coverage: 10 hectares

Primer Select
The classic, unique Matrix Flow soil surfactant which encourages uniform, high quality turf and does not scorch. Begin early spring followed by monthly applications.

Dispatch Sprayable NEW
Includes the same patented chemistry as Dispatch Penetrant, with 3 times the active ingredient!
- Improves water movement in soil
- Improves Nitrogen efficiency
- Late Autumn Benefit
- Healthier more uniform turf before dormancy sets in
- More uniform soil moisture before the ground freezes
- Winter Benefit
- Help free water drain of the surface faster
- Avoid damage caused by crown hydration injury
- Spring Benefit
- Ensure quick uniform penetration of any snow melt &/or precipitation that occurs
- Improve soil moisture levels as the ground thaws
- Maximise photosynthesis * root growth coming out of winter
Revolution

A monthly programme surfactant. Apply a minimum of 4 consecutive monthly applications and continue a monthly programme as required. Wet or dry year. Revolution works to help manage soil moisture distribution.

Better Moisture Distribution
Better Playability
Better Root Growth
Better Soil Health

It’s no surprise that Revolution is trusted by so many turf professionals around the world. It’s the only soil surfactant that goes beyond water repellency issues, providing comprehensive water management and plant health benefits as well.

Revolution’s patented formulation balances air and water in the soil profile, leading to a better root system and improved soil health. By maximizing the potential of your growing environment, Revolution helps turf function more efficiently and perform at consistently higher levels, even under stress.

Try it — and see the benefits for yourself.

Revolution

www.aquatrols.com

5263/110526m²
Dilution rate 42:1

10 & 210L

GRASS SEED

Amenity Special Mixtures

<table>
<thead>
<tr>
<th>Fairways/Tees with Rye</th>
<th>Description</th>
<th>Variety</th>
<th>Sowing Rate</th>
<th>Oversowing</th>
<th>Mowing Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>40% Stravinsky</td>
<td>Perennial</td>
<td>Progress</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35% Sarajevo</td>
<td>Strong Creeping Red Fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20% Wagner/Calliope</td>
<td>Chewings Fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5% Highland</td>
<td>Brown top Bent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pack Size: 20kg
Sowing Rate: 15-35gm/sq m
Oversowing: 25gm/sq m
Mowing Height: down to 10mm

<table>
<thead>
<tr>
<th>Greens Traditional</th>
<th>Description</th>
<th>Variety</th>
<th>Sowing Rate</th>
<th>Oversowing</th>
<th>Mowing Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% Wagner/Calliope</td>
<td>Chewings Fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20% Highland</td>
<td>Brown top Bent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pack Size: 20kg
Sowing Rate: 15-35gm/sq m
Oversowing: 25gm/sq m
Mowing Height: down to 4mm

<table>
<thead>
<tr>
<th>Delux Greens</th>
<th>Description</th>
<th>Variety</th>
<th>Sowing Rate</th>
<th>Oversowing</th>
<th>Mowing Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>40% Musica</td>
<td>Chewings Fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40% Cezanne</td>
<td>Strong Creeping Red Fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5% Manor</td>
<td>Brown top Bent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15% Jorvik</td>
<td>Brown top Bent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pack Size: 20kg
Sowing Rate: 15-35gm/sq m
Oversowing: 25gm/sq m
Mowing Height: down to 4mm

<table>
<thead>
<tr>
<th>Greens Renovation</th>
<th>Description</th>
<th>Variety</th>
<th>Sowing Rate</th>
<th>Oversowing</th>
<th>Mowing Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>10% Manor</td>
<td>Brown top Bent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40% Highland</td>
<td>Brown top Bent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50% Jorvik</td>
<td>Brown top Bent</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Pack Size: 20kg
Sowing Rate: 10gm/sq m
Oversowing: 5gm/sq m
Mowing Height: down to 4mm

<table>
<thead>
<tr>
<th>All Fescue Mix</th>
<th>Description</th>
<th>Variety</th>
<th>Sowing Rate</th>
<th>Oversowing</th>
<th>Mowing Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>30% Pinafore</td>
<td>Slender Creeping Red Fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20% Valdora</td>
<td>Slender Creeping Red Fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30% Calliope</td>
<td>Chewings Fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20% Wagner</td>
<td>Chewings Fescue</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pack Size: 20kg
Sowing Rate: 15-35gm/sq m
Oversowing: 25gm/sq m
Mowing Height: down to 5mm
GRASS SEED (CONTINUED)

**North East Coastal Mix**

<table>
<thead>
<tr>
<th>Description</th>
<th>Variety</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creanne</td>
<td>Slender Creeping Red Fescue</td>
<td>30%</td>
</tr>
<tr>
<td>Moxie</td>
<td>Chewings Fescue</td>
<td>30%</td>
</tr>
<tr>
<td>Valteria</td>
<td>Slender Creeping Red Fescue</td>
<td>25%</td>
</tr>
<tr>
<td>Manetto</td>
<td>Hart Fescue</td>
<td>15%</td>
</tr>
</tbody>
</table>

**Crief Mix**

<table>
<thead>
<tr>
<th>Description</th>
<th>Variety</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Berlioz</td>
<td>Perennial Ryegrass</td>
<td>50%</td>
</tr>
<tr>
<td>Archibal</td>
<td>Slender Creeping Red Fescue</td>
<td>15%</td>
</tr>
<tr>
<td>Creanne</td>
<td>Slender Creeping Red Fescue</td>
<td>15%</td>
</tr>
<tr>
<td>Wagner/Collage</td>
<td>Chewings Fescue</td>
<td>15%</td>
</tr>
<tr>
<td>Highland</td>
<td>Browntop Bent</td>
<td>5%</td>
</tr>
</tbody>
</table>

**Formal Mix**

<table>
<thead>
<tr>
<th>Description</th>
<th>Variety</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sergei</td>
<td>Creeping Red Fescue</td>
<td>50%</td>
</tr>
<tr>
<td>Wagner/Calliope</td>
<td>Chewings Fescue</td>
<td>25%</td>
</tr>
<tr>
<td>Pinafore</td>
<td>Slender Creeping Red Fescue</td>
<td>20%</td>
</tr>
<tr>
<td>Highland</td>
<td>Browntop Bent</td>
<td>5%</td>
</tr>
</tbody>
</table>

**Cricket Mix**

<table>
<thead>
<tr>
<th>Description</th>
<th>Variety</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dickens</td>
<td>Perennial Ryegrass</td>
<td>50%</td>
</tr>
<tr>
<td>Bellevue</td>
<td>Perennial Ryegrass</td>
<td>50%</td>
</tr>
</tbody>
</table>

**TurfGuard Grass Seed Treatment**

**Why use TurfGuard?**

Creating an amenity sward can be time consuming and expensive, consequently turf professionals seek to ensure the maximum chance of success by preparation and seed selection. TurfGuard, a registered biofungicide in the USA, creates a third line of defence from the moment the seed is sown by protecting and nourishing the seedlings. In field trials, using TurfGuard substantially increases root mass and shoot density while improving disease resistance leading to a greatly enhanced sward. This improved establishment leads to reduced invasion of poa annua and weeds and a shorter time from sowing to play.

**What is TurfGuard?**

TurfGuard is a specific strain of the soil bacteria Bacillus subtilis, which is commonly found in the soil, on roots and on leaves. Applied to grass seed, its spores germinate and rapidly colonise the root system of the new plant providing a barrier to soil pathogens while producing beneficial growth hormones that assist the grass plant in numerous ways.

**The Benefits of TurfGuard**

- Increases seed germination
- Increases root mass up to 80%
- Increases ground cover up to 50%
- Improves resistance to disease
- Shorter lead times from sowing to play

**ProNitro**

Unique NEW Seed Coat Technology

Improved seeding results, guaranteed!

**The New Nitrogen Seed Coating**

Faster, More Uniform Establishment & Reduced Costs

- Labour saving and cost effective
- Targeted nutrient application, can reduce losses to the environment by 50% reduces
- Replaces seedbed fertiliser
- Up to 34% more plants
- Up to 30% increase in root mass
- Improved stress tolerance
- Increased wear tolerance
- Reduced Poa annua and weed levels

**GRASS SEED (CONTINUED)**

**TurfGuard Grass Seed Treatment**

Why use TurfGuard?

Creating an amenity sward can be time consuming and expensive, consequently turf professionals seek to ensure the maximum chance of success by preparation and seed selection. TurfGuard, a registered biofungicide in the USA, creates a third line of defence from the moment the seed is sown by protecting and nourishing the seedlings. In field trials, using TurfGuard substantially increases root mass and shoot density while improving disease resistance leading to a greatly enhanced sward. This improved establishment leads to reduced invasion of poa annua and weeds and a shorter time from sowing to play.

What is TurfGuard?

TurfGuard is a specific strain of the soil bacteria Bacillus subtilis, which is commonly found in the soil, on roots and on leaves. Applied to grass seed, its spores germinate and rapidly colonise the root system of the new plant providing a barrier to soil pathogens while producing beneficial growth hormones that assist the grass plant in numerous ways.

The Benefits of TurfGuard

- Increases seed germination
- Increases root mass up to 80%
- Increases ground cover up to 50%
- Improves resistance to disease
- Shorter lead times from sowing to play

**A unique solution**

ProNitro is a patented seed coating that focuses on improving nutrient utilization during the early stages of plant growth. Typical nitrogen content found in other commercial products is 1-2%, with the effects often being negligible. The ProNitro coating contains a combination of both fast acting and slow release N. As the fertiliser is coated onto the seeds, the germinating and developing seedling receives the benefit, not the surrounding plants. The roots and shoots grow rapidly and the seedlings become strong and vigorous. This improves the use of all the available soil nutrients and decreases nutrient losses into the environment by fixation or leaching. This is particularly important when overseeding into a competitive sward.

The nitrogen uptake with ProNitro is up to four times more efficient compared to broadcast applied ordinary fertilisers.
GRASS SEED (CONTINUED)

Johnson's Sport and Amenity Grass Mixtures

NEW FORMULATION J Green
Golf and Bowling Greens

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% Musica Chewings Fescue</td>
<td>7.6</td>
</tr>
<tr>
<td>20% Sidik Chewings Fescue</td>
<td>7.3</td>
</tr>
<tr>
<td>20% Nigella Slender Creeping Red Fescue</td>
<td>7.8</td>
</tr>
<tr>
<td>20% Cezanne Slender Creeping Red Fescue</td>
<td>7.7</td>
</tr>
<tr>
<td>10% Amowood Brown Top Bent</td>
<td>7.6</td>
</tr>
<tr>
<td>10% Manor Brown Top Bent</td>
<td>7.1</td>
</tr>
</tbody>
</table>

Sowing rate: 20-35g/m²
Oversowing: 10-20g/m²
Mowing height: down to 4mm

NEW FORMULATION J Rye Green
Premium fairway and heavily shaded golf and bowling greens

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>30% Clementine Perennial Ryegrass</td>
<td>7.6</td>
</tr>
<tr>
<td>30% Dickson Perennial Ryegrass</td>
<td>6.9</td>
</tr>
<tr>
<td>20% Cezanne Slender Creeping Red Fescue</td>
<td>7.7</td>
</tr>
<tr>
<td>10% Amowood Brown Top Bent</td>
<td>7.2</td>
</tr>
<tr>
<td>10% Amowood Close Cut Bent</td>
<td>7.8</td>
</tr>
</tbody>
</table>

Sowing rate: 10-20g/m²
Oversowing: 10-20g/m²
Mowing height: down to 4mm

NEW FORMULATION J Premier Green
Golf greens, high performance renovation mix

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% Musica Chewings Fescue</td>
<td>7.6</td>
</tr>
<tr>
<td>20% Beaud Slender Creeping Red Fescue NEW</td>
<td>7.7</td>
</tr>
<tr>
<td>40% Amowood Brown Top Bent</td>
<td>7.2</td>
</tr>
<tr>
<td>20% Amowood Close Cut Bent</td>
<td>7.8</td>
</tr>
</tbody>
</table>

Sowing rate: 15-20g/m²
Oversowing: 8g/m²
Mowing height: down to 3.5mm

NEW FORMULATION J All Bent
Golf greens (4 Annuals, overseeding)

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>40% Amowood Brown Top Bent</td>
<td>7.8</td>
</tr>
<tr>
<td>40% Manor Brown Top Bent</td>
<td>7.2</td>
</tr>
</tbody>
</table>

Sowing rate: 10g/m²
Oversowing: 5g/m²
Mowing height: down to 3mm

NEW FORMULATION J Links
Grass greens, surrounds, tees, fairways and semi roughs – overseeding

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% Beaud Slender Creeping Red Fescue</td>
<td>7.9</td>
</tr>
<tr>
<td>20% Nigella Slender Creeping Red Fescue</td>
<td>7.9</td>
</tr>
<tr>
<td>20% Sidik Chewings Fescue NEW</td>
<td>8.0</td>
</tr>
<tr>
<td>20% Rosianne Strong Creeping Red Fescue</td>
<td>5.9</td>
</tr>
<tr>
<td>10% Quanto Sheep’s Fescue</td>
<td>8.2</td>
</tr>
<tr>
<td>10% Rossiane Strong Hard Fescue</td>
<td>5.7</td>
</tr>
</tbody>
</table>

Sowing rate: 25-35g/m²
Oversowing: 10-25g/m²
Mowing height: down to 10mm

NEW FORMULATION J Fairway
Sustainable golf fairways and tees

NEW FORMULATION J Premier Fairway
Sustainable golf fairways and tees

NEW FORMULATION J Tee
Artificial turf, shaded golf tees and paths (with ryegrass)

NEW FORMULATION J Pitch
Ideal for football & rugby training pitches

NEW FORMULATION J Premier Pitch
Premier quality football and rugby pitches
**GRASS SEED (CONTINUED)**

**J 4Turf**
Pre winter overseeding program, winter sports pitches, racecourses & high wear turf

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>25% Fabian 4Turf Tetraploid Perennial Ryegrass</td>
<td>6.6</td>
</tr>
<tr>
<td>25% Double 4Turf Tetraploid Perennial Ryegrass</td>
<td>5.1</td>
</tr>
<tr>
<td>50% Berlioz Perennial Ryegrass</td>
<td>7.4</td>
</tr>
</tbody>
</table>

Oversowing 10-50g/m²  
Mowing height down to 12mm

**NEW FORMULATION J Multi Sport**
Sports fields, cricket outfield, athletics use

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>25% Chardin Perennial Ryegrass</td>
<td>7.5</td>
</tr>
<tr>
<td>50% Berlioz Perennial Ryegrass</td>
<td>7.4</td>
</tr>
<tr>
<td>25% Rossinante Strong Creeping Red Fescue</td>
<td>7.4</td>
</tr>
</tbody>
</table>

Oversowing 10-50g/m²  
Mowing height down to 12mm

**J Rescue Stadia**
Get-Dee winter overseeding program, shaded sportsturf, football & rugby pitches

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>30% Quickston Annual Ryegrass NEW</td>
<td>7.1</td>
</tr>
<tr>
<td>20% Double Tetraploid Perennial Ryegrass NEW</td>
<td>5.1</td>
</tr>
<tr>
<td>20% Berlioz Perennial Ryegrass</td>
<td>7.4</td>
</tr>
<tr>
<td>10% Sabrina Rough Stalked Meadow Grass</td>
<td>-</td>
</tr>
</tbody>
</table>

Oversowing 10-50g/m²  
Mowing height down to 12mm

**NEW FORMULATION J Rescue 100**
Emergency overseeding & rapid repairs! Football & rugby pitches, tennis, polo fields & racecourses

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% Quickston Annual Ryegrass NEW</td>
<td>7.4</td>
</tr>
</tbody>
</table>

Oversowing 30-50g/m²  
Mowing height down to 12mm

**NEW FORMULATION J RR**
Rhizome recovery - New sports stadia, football & rugby pitches, polo fields & racecourses

<table>
<thead>
<tr>
<th>Description</th>
<th>STRI Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% Bizet Perennial Ryegrass</td>
<td>7.1</td>
</tr>
<tr>
<td>20% Columbine Perennial Ryegrass</td>
<td>7.9</td>
</tr>
<tr>
<td>20% Monroe Perennial Ryegrass</td>
<td>7.8</td>
</tr>
<tr>
<td>20% Sombrero Smooth Stalked Meadow Grass</td>
<td>7.3</td>
</tr>
<tr>
<td>20% Miracle Smooth Stalked Meadow Grass NEW</td>
<td>5.9</td>
</tr>
</tbody>
</table>

Oversowing 15-50g/m²  
Mowing height down to 12mm
Lindum has developed a range of products to suit the particular needs of golf courses and has earned a reputation for consistently high quality turf and innovation in grass technology.

We grow a diverse range of turf for greens, tees, fairways, bunkers, high traffic areas and landscaping around the course, including Wildflower Turf for biodiversity areas.

Our products include turf made up of varying mixtures of finer grasses suitable for specialist golf greens as well as low input mixtures requiring reduced fertiliser and irrigation.

### Greens

**LT1 Tournament Greens**
A dense Bent/Fescue mix with very high purity and low thatch content.

- **Features**
  - Mowing height at harvest 6-8mm
  - The final composition is usually 60-70% Bent and 30-40% Fescue
  - Accurate botanical composition carried out by an independent RIPTA agronomist

- **Uses**
  - Ideal for top quality high Bent greens

**LT1 is available in three formats**
- Green on sandy loam soil
- Washed to avoid any soil contamination
- Grown to order on USGA specification rootzones

### Tees

**LT4 Smooth Stalked Tees**
A high quality mixture of smooth stalked meadow grasses and fescues combining fine appearance with high wear resistance and recovery, suitable for golf tees and surrounds.

- **Features**
  - Fine appearance
  - Hard wearing
  - Quick recovery from rhizomes

- **Uses**
  - Tees
  - Fairways

- **Roll size**
  - Standard rolls: 1 square metre
  - Large rolls: 0.73m or 1.05m x up to 28m

**LT5 Rye Tees**
A hard wearing mix combining the repair and recovery of wear tolerant ryegrasses with a dense smooth stalked meadow grass/Fescue base.

- **Features**
  - Hard wearing
  - Quick repair and recovery

- **Uses**
  - Hard wearing tees
  - Walk-on, walk-off areas

- **Roll size**
  - Standard rolls: 1 square metre
  - Large rolls: 0.73m or 1.05m x up to 28m

### Bunker Retovetting

Ready cut strips for building retovetted bunkers.

- **Features**
  - Ready-cut in easy to handle strips
  - Cut 30-40mm thick
  - Good batch
  - Sprayed off or unprayed available
  - 80 pieces per pallet provides approximately 3 Face Meters

- **Uses**
  - Retovetted bunker faces and walls
  - Also available: bunker lining turf

### Other Grades

**LT2 Low Input Fine Turf**
An environmentally sustainable mixture suitable for intensive (greens) or extensive use (fairways and semi-rough).

- **Features**
  - Fine appearance
  - Reduced irrigation, fertiliser and fungicide inputs
  - Salt tolerant
  - Will tolerate sand splash
  - Will move down to 15mm or can be left to grow in natural height of 300mm

- **Uses**
  - Intensive
  - Greens and greens surrounds as a fine fescue replacement

- **Extensive**
  - Fairways, bunker surrounds and semi-rough
  - Exposed drought prone areas
  - Difficult banks where mowing is a problem
  - Low fertility areas
  - Links courses

**LT10 Lindum Shade**
Designed to withstand shade and wear making it extremely versatile.

- **Features**
  - Shade tolerant
  - Wear tolerant
  - High shoot density
  - Continuous to grow later into winter

- **Uses**
  - Areas in shade

### Other specialist products

**Lindum Lokturf™**
A fibre reinforced turf giving a durable surface that is stable, firm, free-draining and very hard wearing.

- **Features**
  - Durable load bearing surface
  - Immediate use
  - Greater resistance to wear and tear
  - Rapid drainage by reducing moisture retention

- **Uses**
  - Walkways and high traffic areas
  - Golf buggy routes
  - Overflow grass car parking
  - Grass access roads for emergency vehicles

- **Roll size**
  - Large rolls: 0.73m 1.2m x 2.0m
  - Standard rolls: 1 square metre

**Lindum Wildflower Turf**
A ready established native wildflower meadow mixture growing in a strong moisture retentive felt. It can be rolled out on flat surfaces or pegged to banks for soil stabilisation.

- **Features**
  - Establishes a wildflower meadow instantly
  - Fell mat base acts as a barrier to weeds
  - Strong and easy to install
  - Low maintenance requirement

- **Uses**
  - Enhancing biodiversity around the course

- **Roll size**
  - 0.6m or 1.2m x 2.0m
TOP DRESSINGS

Eden Rootzone
Screened to 5mm. Standard mixes 70/30 and 50/50.

Divot Mix
Good quality mix. Standard mixes 50/50 and 70/30.

Medium Coarse Sand
A high quality top dressing sand suitable for greens, tees and fairways.

Bunker Sand
TA Silica Sand - Medium coarse sand suitable for golf bunkers or top dressing sports pitches.

Pathway and Drainage Materials
Washed Gravel:
- 2mm
- 10mm
- 20mm

Terram
Ideal for use under sand in bunkers to prevent stones surfacing but still allowing the flow of water.

Pack sizes: 4.5m x 11m and 100m x 4.5m

Perforated Land Drain
150m x 60mm, 100m x 80mm, 50m x 125mm and 45m x 160mm.

Amenity Tree and Shrub Fertiliser
4-19-10+8%mg (Slow Release)
Provides plant nutrients in a slow soluble form, versatile, resists leaching.

We offer a wide range of screened and sterilised quality dressings and root zones to suit all your requirements. Prices are dependent on specification, quantity and delivery address. Available bulk or bagged.

Bathgate Leisure
Bathgate Leisure produce an established range of quality Top Dressings and Root Zone mixtures. All blends are produced using high purity silica sand. Products are washed, screened, graded and blended using only state of the art equipment. Quality is assured by their on site laboratory which utilises the latest computer based testing procedures. All systems operate under the auspices of BS EN ISO 9002:94 and the company is registered with the British Standards Institute as complying with these requirements. Bathgate are founder members of the British Topdressing and Root Zone Manufacturers Association.

Raycam EasyDrag Rubber Dragmat
The Raycam EasyDrag Rubber Dragmats are of a lightweight, high strength reinforced rubber construction for easy handling. Intended for fairway dragging or dew/grass clipping dispersal on greens. Suitable for hand dragging, general machinery and three point linkage. Available in four sizes and two grades of thickness for specific tasks and different uses.

Sizes: 1.2m, 1.8m, 2.4m and 3m x 1.8m long
Grades: 12mm thick for fine turf 20mm thick for out field turf
### CHEMICALS (CONTINUED)

#### Fungicides

<table>
<thead>
<tr>
<th>Product</th>
<th>Pack Size</th>
<th>MAPP</th>
<th>Water Vol L/Ha</th>
<th>Application Rate L/Ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Heritage Maxx</td>
<td>3L</td>
<td>14787</td>
<td>400-800L/Ha</td>
<td>3L/Ha</td>
</tr>
<tr>
<td>New Heritage Maxx</td>
<td>3L</td>
<td>13181</td>
<td>200-400L/Ha</td>
<td>3L/Ha</td>
</tr>
<tr>
<td>Pan Panama</td>
<td>500g</td>
<td>13950</td>
<td>800-1000L/Ha</td>
<td>500g/Ha</td>
</tr>
<tr>
<td>Instrata</td>
<td>3L</td>
<td>14154</td>
<td>100-1000L/Ha</td>
<td>50L/Ha</td>
</tr>
<tr>
<td>Dedicated</td>
<td>200ml</td>
<td>13812</td>
<td>300-500L/Ha</td>
<td>1L/Ha</td>
</tr>
</tbody>
</table>

#### Aquatic Herbicides

- Vitax Lawn Clear - Clompyral MCPA 24D
  - Product: Vitax Lawn Clear
  - Pack Size: 750ml
  - MAPP: 13309
  - Water Vol L/Ha: a/a
  - Application: Spot treatment broad spectrum, shagewproof formulation.

#### Growth Regulators

- TurfMaster
  - Product: TurfMaster
  - Pack Size: 1 & 2L
  - MAPP: 16444
  - Water Vol L/Ha: 170-400L/Ha
  - Application Rate L/Ha: 1.5L/Ha

### CHEMICALS

1. Fungicides
2. Selective Herbicides
3. Aquatic Herbicides
4. Moss Control
5. Growth Regulators
6. Water Treatments
7. Total and Residual Herbicides

### Fungicides

- **Emerald Turf**
  - Product: Emerald Turf
  - Pack Size: 5L
  - MAPP: 17590
  - Water Vol L/Ha: 50L/Ha
  - Application Rate L/Ha: 20L/Ha
  - Provides exceptional curative and preventative control of the major turf diseases in the U.K. Contains 250g/L Pyridalix.

- **Scorpio/Microturf**
  - Product: Scorpio/Microturf
  - Pack Size: 250g
  - MAPP: 12293
  - Water Vol L/Ha: 400-500L/Ha
  - Application Rate L/Ha: 500g/Ha
  - A strobilurin which controls take-all path, fusarium, anthracnose and type 2 fairy ring on managed amenity turf. Contains Azoxystrobin.

- **Instrata**
  - Product: Instrata
  - Pack Size: 3L
  - MAPP: 14154
  - Water Vol L/Ha: 100-1000L/Ha
  - Application Rate L/Ha: 50L/Ha
  - A three-way mode of action contact and systemic fungicide which gives powerful protection from disease infection. Instrata also provides curative and eradicant activity if disease symptoms have already broken out. It will treat Fusarium Patch, Anthracnose, Dollar Spot and Brown Patch. Contains 362g/L propiconazole.

- **Medallion**
  - Product: Medallion
  - Pack Size: 200ml
  - MAPP: 13287
  - Water Vol L/Ha: 315-3000L/Ha
  - Application Rate L/Ha: 3L/Ha
  - A new contact acting fungicide offering long term disease control. Rainfast in 1 hour. Maximum of 4 applications per year. Contains 125g/L Fludioxonil.

#### Selective Herbicides

- **Esteem Selective Weedkiller**
  - Product: Esteem
  - Pack Size: 2L
  - MAPP: 13181
  - Water Vol L/Ha: 200-400L/Ha
  - Application Rate L/Ha: 3L/Ha
  - Esteem™ sets the standard in outstanding control of difficult weeds in managed amenity turf, whilst maintaining excellent safety to turf grass species. **Very powerful 3 - way mix of herbicides - Clompyral MCPA 24D**
  - Application rate: 3 litres per hectare
  - Be-souding possible after 6 weeks
  - Wide application window
  - Rainfast after 1 hour
  - Low odour
  - Water based weedkiller for managed amenity turf
  - Controls a broad spectrum of weeds including Creeping Buttercup, Plantain, Daisy, Common Dandelion and White Clover on turf

- **Instrata**
  - Product: Instrata
  - Pack Size: 3L
  - MAPP: 14154
  - Water Vol L/Ha: 500-1000L/Ha
  - Application Rate L/Ha: 500g/Ha
  - A strobilurin which controls take-all path, fusarium, anthracnose and type 2 fairy ring on managed amenity turf. Contains Azoxystrobin.

- **New Heritage Maxx**
  - Product: New Heritage Maxx
  - Pack Size: 2L
  - MAPP: 14787
  - Water Vol L/Ha: 400-800L/Ha
  - Application Rate L/Ha: 3L/Ha
  - New Heritage Maxx is an effective systemic turf fungicide providing control of Fusarium Patch, Take-all Patch, Brown Patch, Dollar Spot and Rust. It will also provide moderate control of Anthracnose and limited evidence suggests it will reduce the effects of Type 2 Fairy Rings in managed amenity turf. Contains 95g/L azoxystrobin.

- **Pan Panama**
  - Product: Pan Panama
  - Pack Size: 500g
  - MAPP: 13950
  - Water Vol L/Ha: 800-1000L/Ha
  - Application Rate L/Ha: 500g/Ha
  - A strobilurin which controls take-all path, fusarium, anthracnose and type 2 fairy ring on managed amenity turf. Contains Azoxystrobin.

#### Growth Regulators

- **TurfMaster**
  - Product: TurfMaster
  - Pack Size: 1 & 2L
  - MAPP: 16444
  - Water Vol L/Ha: 170-400L/Ha
  - Application Rate L/Ha: 1.5L/Ha
  - A selective for the control of many annual weeds in managed amenity turf. Contains 43.3g/L Esteem Selective Weedkiller

#### Water Treatments

- **Depitox**
  - Product: Depitox
  - Pack Size: 4L
  - MAPP: 13288
  - Water Vol L/Ha: 400L/Ha
  - Application Rate L/Ha: 2.5L/Ha
  - A selective weedkiller effective on a wide range of common broad-leaved and shrubby forming weeds. Contains 350g/l 2,4D

- **Agritox**
  - Product: Agritox
  - Pack Size: 1L
  - MAPP: 07400
  - Water Vol L/Ha: 200L/Ha
  - Application Rate L/Ha: 3.2L/Ha
  - For the control of many broad-leaved weeds in managed amenity turf. Agritox is particularly effective in controlling weeds with deeper roots, such as Dandelions, Cats’ ear and Dock. Contains 500g/l MCPA.

- **Blaster Pro**
  - Product: Blaster Pro
  - Pack Size: 1L
  - MAPP: 13752
  - Water Vol L/Ha: 200-300L/Ha
  - Application Rate L/Ha: 3.2L/Ha
  - A foliar applied herbicide for the control of perennial broad-leaved weeds, especially Woody weeds such as Nettle, Oak, Bramble, Broom and Goose in established amenity grassland. Contains 240g/l trifloxysul and 13g/l Clopyralid.

- **Kaskara**
  - Product: Kaskara
  - Pack Size: 1L
  - MAPP: 15993
  - Water Vol L/Ha: 200-400L/Ha
  - Application Rate L/Ha: 2.5L/Ha
  - A powerful selective weedkiller for the control of woody and herbaceous weeds such as Nettle, Bramble, Broom and Goose in established amenity grassland. Contains 225g/l 2,4D, 85g/l dicamba and 60g/l clopyralid.

- **Cabadex**
  - Product: Cabadex
  - Pack Size: 1L
  - MAPP: 13948
  - Water Vol L/Ha: 200L/Ha
  - Application Rate L/Ha: 2L/Ha
  - A new selective herbicide based on Fluroxypyr and Fluroxypyr Cabadex is particularly good at controlling difficult weeds such as Speedwells and Yellow Clover. It can be used from the two leaf stage onwards. It grows and sets seed. Contains 50g/l Fluroxypyr and 2.5g/l Fluroxypyr.
## Moss Control

**Product**
- **Rescue**
- **Mossguard**

### Rescue

- **Pack Size:** 1L
- **MAPP:** 148128
- **Water Vol/Lt:** 250-5000/L
- **Application Rate/Lt:** 2-3.3/L

A selective herbicide for the control of perennial infestations in fine turf. Rescue quickly and effectively reduces invasive clump mosses that adversely affect the quality and usability of turf without recourse to expensive mechanical cutting or labour-intensive hand weeding or returfing. Contains 45g/L Prounol and 11.25g/L diquat (reversionary).  

### Mossguard

- **Product:** Mossguard
- **Pack Size:** 1L
- **MAPP:** 600/L
- **Application Rate/Lt:** 1/L

A combination of non-staining nutrients originally developed for moss on artificial surfaces. Mossguard can be used on all types of turf as a preventative to the growth and development of Moss. Mossguard provides Foliar & Root absorbed Iron and Copper. Note: Use only with Micromix Indicators Dyes as alternatives may not be compatible with liquids containing Copper.

## Total & Residual Herbicides

### Roundup Pro Vantage 480

- **Product:** Roundup Pro Vantage 480
- **Pack Size:** 5L
- **MAPP:** 153344
- **Water Vol/Lt:** 200/L
- **Application Rate/Lt:** 3.7/L

A foliar applied tank mixed herbicide for the control of emerged weeds in industrial and amenity situations, in grasslands, orchards, forestry and in aquatic areas. This product contains 480 g/L glyphosate.

## Aquatic Herbicides & Water Treatments

### Crystal Clear

- **Product:** Crystal Clear
- **Pack Size:** 20 pouches or 10 x WSBs per 1L, covers 5000m² 1L/10 x WSBs

A foliar applied translocated herbicide for the control of unsprayed weeds in industrial and amenity situations, in grasslands, orchards, forestry and in aquatic areas. This product contains 480 g/L glyphosate.

### Crystal Black Lake Colourant

- **Product:** Crystal Black Lake Colourant
- **Pack Size:** 1 x WSB per 500m³/1Lt, covers 5000m² 1/Lt/0 x WSBs

Crystal Black is a blend of environmentally friendly, non-toxic, water soluble black dyes formulated to reduce sunlight penetration. Size can help to control algal and submerged weeds by blocking light thus reducing photosynthesis. Crystal Black imparts a natural black colour when applied to any water feature.

## Growth Regulator

### Primo Maxx

- **Pack Size:** 50g
- **Application Rate:** 0.1-0.2L/100L

A plant growth regulator designed to regulate vertical grass growth and promote a high quality, dense, discernive turf of healthier turf for better playing conditions. Treated turf has a bigger root mass which better resists the effects of drought and stress and recovers far quicker. Contains 12.7g/L trinexapac-ethyl.

### Sympal Black Indicator Dye

- **Application Rate:** 100-250ml in 100L spray solution 1/10L

Dyes formulated to reduce sunlight penetration. Use can help to control algae and impart a natural black colour when applied to any water feature.

## Spray Pattern Indicators & Aids

### Vitax Safe T Clean Spray Tank Cleaner

- **Application Rate:** 100-250ml in 100L spray solution 1/10L

A specifically formulated cleaner/emulsifier that removes and suspends spray tank residues so that they may be completely cleaned from tanks, booms, hoses, filters and nozzles.

### Headland Guard Pro Spray Drift Reducer & Waterproofer

- **Application Rate:** 100-250ml in 100L spray solution 1/10L

Drastically reduces spray drift. Renders spray rainfast within 1 hour. Sticks applied to leaves to ensure better uptake.

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**CHEMICALS (CONTINUED)**

**Vitax Defoamer**

- **Application Rate:** 1/10L

Liquid formulation prevents and removes foam in seconds. Easy to use bigger pack.”
**HEALTH & SAFETY ITEMS**

- Spray Tech Chemical Suits, Sizes S-XL
- Disposal Chemical Suits Sizes S-XL
- Nitrile Gloves, Sizes M-XL
- Dust Masks
- Headguard and Clear Visor
- Ear Defender/Visor Set, Clear or Mesh Visor
- Peltor Ear Defenders
- Safety Gasses
- North Half Mask Respirator/Cartridges
- Measuring Jugs, Sizes 1/4L-5L
- First Aid Kits, various sizes available

**HEALTH & SAFETY ITEMS (CONTINUED)**

- Chainsaw Sarawak professional safety helmet combination.
  - High impact resistant ABS helmet.
  - Durable stainless steel visor.
  - Articulated cap mounted ear muffs

- Waipoua NonProtective Jacket
  - Ultra lightweight & comfortable.
  - Fuel, oil & heat resistant.
  - Sizes S - 3XL

- Waipoua Chainsaw leather safety boot
  - Polyurethane rubber durable outsole.
  - Steel toe cap/vulcanised rubber toe guard.
  - Sizes 4 - 14

- Yukon 11 Chainsaw rubber boots
  - Steel toe cap with reinforced rubber protection.
  - Shock absorbent heal.
  - Oil & slip resistant rubber sole.
  - Sizes 5 - 13.
  - NB some half sizes available

- Fiordland Safety Gloves
  - Reinforcement in palm area & fingers.
  - Velcro strap for optimum fit around the wrist.
  - Sizes M - XL.

- Waipoua protective trousers & bib & brace
  - 6-layer protective material.
  - Trousers have 2 large front pockets with flap & snap buttons.
  - Bib & Brace has 2 large open fronted pockets & one chest pocket.
  - Fuel, oil & heat resistant.
  - Sizes 5 - 3XL.
Chemical Safes

Designed to fully meet the requirements of The Food and Environment Protection Act 1985 and The Control of Pesticides Regulations 1986, Chemsafe storage units are the ideal containers for storing chemicals, paint, tools or components safely and securely. The boxes have been designed specifically for use with a fork lift truck and the convenient sizes mean that they can be loaded on to a trailer or pick-up truck.

Large Chemsafe
Constructed from 2mm steel providing exceptional strength and security. It has sufficient capacity to store 200 litres of liquid or 200kg of powder or granular pesticides. It has gas stays for easy opening and closing with heavy duty castors and additional shelving available as an optional extra. Warnings and padlocks are provided.
Dimensions: Height 142cm x Width 147cm x Depth 80cm.
Weight: 198 kg.

Mini Chemsafe
Ideal for safe and secure storage of smaller quantities of chemicals, paint, tools or components. The mini Chemsafe has sufficient capacity for 75 litres of liquid. It is portable, so can easily be fastened to a van, truck or trailer. The unit is supplied with a secure lock and warning symbols.
Dimensions: Height 103cm x Width 100cm x Depth 50cm.
Weight: 60 kg.

Transchem Safe
For transporting small quantities of pesticides in appropriate vehicles. This unit may be fully locked with snap lock hinges, has a non-slip base to prevent movement when braking and has carrying handles. The construction is strong fibreglass and has one hour long fire protection. Chemicals can be stored in this unit for up to 24 hours.
Dimensions: Top 460mm x 385mm. Base 430mm x 355mm. Height 400mm.
Weight: 7 kg.

Sprayers (Cont.)

Berthoud Vermorel Pro 2000 Sprayer
Tank: 16 litre capacity. Visible liquid level. Reinforced ergonomic seat for improved back comfort for prolonged use. Highly comfortable innovative carrying concept (designed and developed in partnership with AFUMA, a specialist in back packs) very comfortable shoulder strap/back strap/waist belt: set (straps and belt are adjustable lengthwise), weight distribution is 50% on the shoulders and 50% on the lower back - each strap is adjustable - removeable accessory bag (nozzles, etc).
The Reversible pump lever (left/right) is adjustable in all positions (width and height - in 10 degree increments). Highly chemical resistant and mechanically tough composite telescopic lance tube, 0.6m/1.2m long. Adjustable universal nozzle holder. Comes complete with a set of weeding nozzles included:
Treatment:
- 1 nozzle holder with plate and
- 3 tips (10, 12 and 15/100th)

Weeding:
- 1 nozzle holder without plate
- 1 blue brush nozzle
- 1 brown mirror nozzle
- 1 high-capacity stainless steel
- Mirror nozzle

62000 Tree & Turf Pro
- 15L capacity
- Brass lances
- Brass trigger
- Stainless steel stand and handle
- Wide straps and waist band
- Adjustable pump handle included
- Flo control valve

Ev-N-Sprey 300
- 1600mm double independent spray boom
- Ideal for spraying pesticides and liquid fertilisers
- Use the right hand boom independently or both
- 18 amp hour battery pack
- Instantly adjustable spray pressure
- Back to tank agitation
- Pneumatic grass tyres
- 30 litre tank
- On board storage compartment (for spray accessories)
- Recharge point on chassis
- Unique fold away booms for storage and transportation

Ev-N-Sprey 250
- Adjustable handle height
- 25 litre tank capacity
- Shurflo pump with an output of 4.5 L/min
- 7.2 amp hour battery
- Pneumatic tyres
- Lightweight 3 wheeled sprayer
- Easy and simple to use
- Interchangeable spray nozzles
- Boom width 1.5m
Topline Briteliner
The Briteliner is a time proven and extremely robust transfer wheel marking machine. Marking liquid is carried on the grooved rubber surfaces of the transfer wheels and evenly applied directly to the grass. It is extremely easy to use as long as the machine is properly cleaned after use. Wheel sets can be changed to alter line width in seconds. For best results – ensure the position of the spreader brush on the transfer wheel is perfect as this will ensure the perfect line is achieved. Thorough cleaning after use is also essential to ensure along and trouble free life for the machine.

- Interchangeable transfer wheels (3 or 4 inch options)
- Adjustable handlebar height
- Large tubed pneumatic tyres
- Adjustable liquid flow system
- Improved centre transfer wheel design for quietness in use
- Adjustable transfer wheel weight for individual preference
- Adjustable application wheel scraper blade

Concentrate Marking Compound
Manufactured especially for those with frequent remarkings. This space-saving concentrate offers high pigment content, excellent water resistance and value for money. It is suitable for use in any spray or transfer wheel marking machine.
Initial mark 3:1; 10L Over Mark up to 7:1

Super Concentrate Compound
Offers longer lasting lines resulting in the need for less frequent marking. Higher pigment density and greater water resistance results in bright white, durable lines. Designed for use with any spray or transfer wheel marking machine.
Initial Mark 4:1; Over Mark up to 10:1

Premierline
The ultimate marking compound used by the top professional clubs. Made from the best pigments and a unique binder, it results in brilliant white lines that outlast all others. Suitable for all machines.
Initial Mark 5:1; Over Mark up to 12:1

Spray Brilliant White
Water resistant, this ready-to-use formulation is suitable for spraying through the Line Laser Electric marking machine or for use in transfer wheel markers. Colours available.
HAND TOOLS (CONTINUED)

SJ Professional
Treaded digging spade (also available untreaded).

Danish Shovel
The long handle makes this shovel more operator friendly saving on back strain. This product is used and endorsed by Chris Haspell and the team at Castle Stuart Golf Links.

True Temper 14 Tooth Rake
Pictured A.

SJ Plastic Lawn Rake
Pictured B.

Bulldog Springbok Rake
Pictured C.

Cutters and Pruners

Ceka HD Wood Handle Edging Shears
Bahco Edging Shears
Bahco P19-80 Bypass Loppers
Berger Professional Bypass Loppers
Baranel Professional Secateurs

Tiger claw saw, curved blade, D-Handle
Tiger claw saw, straight rakerblade, D-Handle
Barnel Pole Saw and attachments
Bahco 21" Triangular Bow Saw
Bahco 16-60 Loppers
Bahco 19-80 Bypass Loppers

This is only a small selection of the quality hand tools we stock. If you cannot find what you are looking for please ask, we will be delighted to help you.

Structron Quality Hand Tools

Highest quality shovels and spades, fitted with reinforced fibreglass handles for maximum strength. With heat treated, high carbon, polished steel blades for the ultimate in durability making Seymour Structron the makers of some of the strongest hand tools in the world.
MISCELLANEOUS ITEMS

Hog Pumps
These pumps come in various heights between 3' and 5', and various diameters between 1.5' and 3'. They are ideally suited for draining bunkers, drainage ditches and irrigation bursts. The larger 5' model can also be used for removing water from graves. They are light weight, easy to use and come with a 10' length of pressurised hose as standard. Larger hoses can be supplied on request.

Filter funnels
A selection of hard and soft brushes are available in various widths.

5L 2-stroke and one shots

Duffus and scissor mole traps

Stimmer cord, various thicknesses available

If you cannot find what you are looking for please ask, we will be delighted to help you.

WORKWEAR

Helly Hansen Rost Suit (A)

Dickies Thermal Suits (B)
The perfect all in one suit for cold, wet, wind or snow.

Gill Waterproof Jacket IN12J (C)
This waterproof jacket is ideal for all ride on application and if the conditions deteriorate, it offers excellent weather protection, with a high collar, storm chin flap and fleece lined hand warmer pockets. Made from a completely waterproof 2 Dot fabric incorporating a high-vis stowaway hood.

Gill Waterproof Bib & Brace Trousers IN12T (D)
Proven product which is ideal for ride on applications. Fully waterproof (even in the seat of the trousers). Designed for active use, the knees are articulated for day long comfort and are reinforced to protect against abrasion. Fully taped, it offers breathable performance at a very competitive price without compromising on fit or comfort. Made from a completely waterproof 2 Dot fabric.

Gill Waterproof Warm Jacket IN92J (E)
This Warm Jacket is both practical and waterproof. The warm fleece lining and stowable hood makes it particularly suited for cold, wet weather. Made from one of our 2 Dot waterproof fabrics, it offers excellent breathability and durability.

Gill Waterproof Lite Over Trousers IN31J (F)
Practical Waterproof Waistpants that compliment the Warm Waterproof Jackets. Quick and easy to get into making them perfect for wet weather conditions. The Waistpants offer waterproof and breathable protection and feature self draining side pockets and adjustable ankle closures. There is also a comfortable elasticated waistband with drawcord adjustment.
WORKWEAR (CONTINUED)

Voss Jacket
Various colours      XS-XXXXL
The Helly Hansen classic rain jacket for men. This iconic raincoat has seen global success built on its heritage from protecting fishermen in the coldest of seas in all kinds of weather. Totally windproof and waterproof PU fabric with Helox+ technology provides full weather protection. The lightweight stretch PU Helox+ material adds extra comfort when wearing this jacket for hours on end.

Voss Pant
Various colours      S-XXXXL
• EN 343 3.1 Waterproof
• 100% Polyester - 170 g/m² PU coated
• Waterproof fabric and construction
• Reflective elements
• Elastic at waist
• Push button adjustment at hem

Bergholm Jacket
Various colours      XS-XXXXL
• 100% Polyester - 197 g/m²
• 100% Polyester - 350g/m² Fleece insulation
• 80g padding in arms
• Two chest pockets with zippers
• Sleeve pocket with zipper
• Two pockets at front with push buttons
• Inner pocket with velcro closure
• Chin guard
• Ribbed cuffs
• Ribbed hem
• Zipper for entry inside garment for logo applications
• ID card loop

Gloves

Ansell Polar Grip Gloves (A)
The Ultimate waterproof, fully lined, cold weather glove.
9 &10

Hi-Viz Gloves (B)
Similar to the Polar Grip but with an elasticated wrist.
10 only

Argon Skytec Gloves (C)
75% of this glove is waterproof & incorporates a fleece lining.
M-XL

Cold Star Gloves (D)
A cold weather glove which is not waterproof.

Dickies Leather Lined Gloves (E)
L & XL

Showa Reflex 470 Gloves (F)
Fully lined, 100% waterproof glove. Knitted wrist.
M-XL

Disposable Gloves (G)
M-XL

Boots

Buckboots SF Safety Wellington Boot
882600DBL
• Safety neoprene/rubber waterproof boot
• Structured air mesh breathable linings
• Detachable cushion insoles
• Steel midsole
• Steel toe cap

Buckboots Goodyear Welted Safety Lace Boot
850400SM
• Steel midsole
• Steel toe cap
• Moon dance full grain oil leather incorporating rubber sole

Buckboots Goodyear Welted Safety Lace Boot
87305MWPG
• Whole cut galosh upper and a waterproof breathable system
• Oil resistance rubber outsole
• Steel midsole
• Steel toe cap
• Waterproof
• Dark brown weather grain waxed leather
Complete with carry case.

Hydraulically activated pressure gauge, all stainless steel working parts.

Determine how compacted your soil conditions are, at both surface and root levels.

Soil

- Mowing cut accuracy is important. Comes complete with protective box.
- Golf greens, bowls, baseball infields, cricket pitches, grass tennis courts or any fine turf surfaces of the surface. Graduated measurement lines show both metric and imperial. Ideal for inspecting the instrument, you can determine the actual height of cut as well as the quality of cut and smoothness.
- Simply place directly onto your golf green, tee, fairway or athletic field and look down through the magnifying glass.
- Made from stainless steel holding a solid high quality glass prism that bends light at 90 degrees.
- pH accuracy: ±0.2 Moisture accuracy: ±10%
- Requires no chemicals, distilled water or outside electric power source. Numerous readings.
- A sensitive electrode measures pH values from 3.5 to 8, soil moisture from 0 to 100%.

**ENVIRONMENTAL MONITORING**

The Carrot pH Meter
A sensitive electrode measures pH values from 3.5 to 8, soil moisture from 0 to 100%. Requires no chemicals, distilled water or outside electric power source. Numerous readings can be easily taken over large area. ±1/2%. Leather like case with belt loop and full instructions included.

**Turf Magnifying Glass**
- Foldable Turf Magnifying Glass
- Pocket Size
- Allows easy inspection of Pest and Turf disease

**Grass Height Measuring Prism**
Made from stainless steel holding a solid high quality glass prism that bends light at 90 degrees. Simply place directly onto your golf green, tee, fairway or athletic field and look down through the instrument, you can determine the actual height of cut as well as the quality of cut and smoothness of the surface. Graduated measurement lines show both metric and imperial. Ideal for inspecting golf greens, bowls, baseball infields, cricket pitches, grass tennis courts or any fine turf surfaces where mowing cut accuracy is important. Comes complete with protective box.

Millimetres and inches (1/16th 1-5/8 inch) and (1mm-40mm)

**“Touch Screen” Weather Station**
- Wind Speed and Direction: Average or gusting
- Wind direction displayed on a 360 degree compass
- Measure units: mph, km/h, m/s, knots or bft
- Clock: Clock automatically radio controlled. Manual setting function. 12 or 24 hour display.
- Calendar with day-date-month display
- Forecast: Barometer with icon display. Trend display
- Outdoor temperature: Centigrade or Fahrenheit. Range from -29.9 to 69.9°
- Recording of min/max with time and date of reading
- Pressure: Displays absolute or relative pressure. History display

**Soil Penotrometer/Compaction Tester**
Determine how compacted your soil conditions are, at both surface and root levels. Hydraulically activated pressure gauge, all stainless steel working parts.
Complete with carry case.

**Standard Rain Gauge**
An economical aid for measuring Rainfall

**Pocket Soil Thermometer**
Digital, Pocket Size Probe to measure Soil Temperature

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**GOLF COURSE EQUIPMENT & FURNITURE**

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Golf Course Equipment & Furniture (Continued)

Hole Cup Cover with Grass
- 4.25" Brown Solid Hole Cup Cover
  Order Code: 51340

Greenkeepers Bucket Bag
- Bucket Bag, Greenkeepers Tool & Mls Caddy
  As standard with a Soft Tub, can be replaced with any standard bucket. Extra heavy duty stitching and bracing.
  Order Code: 51070

Hole Cup Cutting Board
- Dual layer high quality composite hole cutting board. No sharp edges to damage greens.
  Order Code: 51100

Hole Cup Cover with Grass
- Hole cup cover with grass.
  Order Code: 51340

Curved Trimming Scissors
- Stainless steel, razor sharp hole trimming scissors. Supplied in a neat storage pouch.
  Order Code: 51150

Hole Cup Lifter / Rammer
- Traditional puller and weight rammer tool.
  Order Code: 51060

Order Code: 51150

Order Code: 51100

UK & US Cup Lifters
- Remove or replace hole cups in seconds. Extracts the cup ‘straight out’ without fiddling around with awkward hook devices. Available to suit our UK and USA cups.

Cam Cup Lifter - UK
- Order Code: 51010

Cam Cup Lifter - USA
- Order Code: 51020

Golf Hole Marker Paint & Application Tool
- Our unique marker paint & Tool is an innovative way to make your cups more visible to both golfers and spectators alike. The long lasting application yields over 80 holes per can, and is easily applied. This patented process requires no preparation time, and can significantly increase play speed on your course.

Hole Marker Paint
- Order Code: 51127

Application Tool
- Order Code: 51122

Golf Hole Stabiliser Ring
- White plastic ring gives the appearance of the top 1" of soil being white. Also helps avoid debris falling into the cup from the side wall.

4" Putting Green Cup
- Order Code: 51122UK

Order Code: 51122USA

Order Code: 51124UK

Order Code: 51124USA

Order Code: 51125SLE

Black Hole ABS Hole Cup
- Black Hole ABS Golf Hole Cup UK
  Order Code: HC0010UK

Black Hole ABS Golf Hole Cup USA
  Order Code: HC0010USA

Order Code: HC0012UK

Order Code: HC0012USA

Hole Stabiliser Ring Application Tool
- Dedicated tool for insertion of the hole stabiliser rings
  Order Code: 51130

Aluminium Phosphat Golf Hole Cup
- Aluminium Phosphat Golf Hole Cup UK
  Order Code: HC0022UK

Aluminium Phosphat Golf Hole Cup USA
  Order Code: HC0022USA

Replacement White Plastic Sleeve
  Order Code: HC0022SLE

FOOTGOLF KITS
- Items sold individually or as a set of nine large cups, pins and flags

Order Code: 51010

Order Code: 51020

Order Code: 51030

Order Code: 51040

Order Code: 51070

Order Code: 51127

Order Code: 51122

Order Code: 51122UK

Order Code: 51122USA

Order Code: 51124UK

Order Code: 51124USA

Order Code: 51125SLE
TOURNAMENT FLAG PINS

Tournament Full Size 2.2m (7ft). The Deluxe Tournament Pins come with Stainless Steel Swivel tops and US bases. BMS Tournament Flag Pins feature thick 20mm (3/4") taper design.

Other ferrules and top arrangements are available on request. Please ask for details.

WHITE & BLACK ONE STRIPE
Order Code: FPT0050

YELLOW & BLACK ONE STRIPE
Order Code: FPT0030

WHITE & BLACK TWO STRIPE
Order Code: FPT0020

YELLOW & BLACK TWO STRIPE
Order Code: FPT0040

PUTTING PINS

Available in Finger Top or Swivel Tube Styles.

Numbered Finger Top Putting Pin - Red
Order Code: 69012

Numbered Finger Top Putting Pin - Blue
Order Code: 69014

Swivel Tube Putting Pin
Order Code: 69110

ORDER CODE: 69110

NEAREST THE PIN & LONGEST DRIVE MARKER

Nearest the Pin unit contains a unique built in 10m (33ft) tape measure. Super durable, solid, premium quality event recorders. Easy to accommodate logos. Dry wipe panel to rear easily cleaned for re-use.

Nearest the Pin Marker
Order Code: SI933010

Longest Drive Marker
Order Code: SI933030

ORDER CODE: SI933010, SI933030

NEAREST THE PIN & LONGEST DRIVE TEESIGN

Super durable, solid, premium quality engraved tee signs.

Nearest the Pin Tee Sign
Order Code: SI933020

Longest Drive Tee Sign
Order Code: SI933040

ORDER CODE: SI933020, SI933040

NEAREST THE PIN & LONGEST DRIVE MARKER

A traditional and still very popular dimpled golf ball marker. Approx. 3.5" diameter complete with integral spike.

Order Code: 70350

Order Code: 70350

Order Code: 70370

ORDER CODE: 70350, 70370

PEAR SHAPED TEE MARKER

The alternative to the golf ball markers. Approx. 3.5" diameter, complete with integral spike.

Order Code: 70130

Order Code: 70150

Order Code: 70160

ORDER CODE: 70130, 70150, 70160

GOLF BALL TEES MARKER

A traditional and still very popular dimpled golf ball tee marker. Approx. 3.5" diameter complete with integral spike.

Order Code: FPT0050

Order Code: FPT0020

Order Code: FPT0040

ORDER CODE: FPT0050, FPT0020, FPT0040

GOLF COURSE EQUIPMENT & FURNITURE (CONTINUED)
**Golf Course Equipment & Furniture (Continued)**

**Golf Course Equipment & Furniture (Continued)**

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**Stock Flags**

Plain Swivel Tube Flags
- Order Code: FGSSWW
- Order Code: FGSSWR
- Order Code: FGSSWBL
- Order Code: FGSSWBL

1-9 Numbered Swivel Tube Flags
- Order Code: FGSSW1-9
- Order Code: FGSSW1-9
- Order Code: FGSSW1-9
- Order Code: FGSSW1-9

Chequered Swivel Tube Flags
- Order Code: FGCHSSW020
- Order Code: FGCHSSW040
- Order Code: FGCHSSW060
- Order Code: FGCHSSW080

Airflow Swivel Tube Flags
- Order Code: FGSSW-VK
- Order Code: FGSSW-VK
- Order Code: FGSSW-VK
- Order Code: FGSSW-VK

Also available in Velcro and Tie On Fitments.

**Printed & Embroidered Flags**

We are proud to offer a full range of flags that can be personalised to suit our customer’s individual needs. We offer printed and embroidered flags in a range of 6 main sizes with a selection of material options.

**Materials**
- Lightweight Nylon
- Heavy Duty Nylon
- Premium Double Layer
- Lightweight Single Layer
- Airflow

**Size Options**
- Putting (210 x 160mm)
- Chipping (380 x 300mm)
- Standard (460 x 350mm)
- Oversized (670 x 480mm)

Also available in Velcro and Tie On Fitments.

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**Single Sided with Sponsor Plate**
- Order Code: SI0040

**Double Sided with Sponsor Plate**
- Order Code: SI0050

**Recycled Plastic Tee Post**
- Order Code: SI0030

**Recycled Plastic Tee Post with Sponsor Plate**
- Order Code: SI0035

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**Deluxe Round Litter Bin**
- Deluxe Round Litter Bin - Brown
  - Order Code: SI0050
- Deluxe Round Litter Bin - Black
  - Order Code: SI0052

**Spare Recycled Plastic Round Liner**
- Order Code: SI0053

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**Tapered Round Litter Bin**
- Tapered Round Litter Bin - Brown
  - Order Code: SI0040
- Tapered Round Litter Bin - Black
  - Order Code: SI0042

**Spare Recycled Plastic Tapered Liner**
- Order Code: SI0043

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**Square Litter Bin**
- Square Litter Bin - Brown
  - Order Code: SI0020
- Square Litter Bin - Black
  - Order Code: SI0022

**Square Plastic Tapered Liner**
- Order Code: SI0023

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**Deluxe Bench**
- Deluxe Bench - Brown
  - Order Code: SI0010
- Deluxe Bench - Black
  - Order Code: SI0012

Backless Options Also Available.

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**Deluxe Plastic Tee Sign**
- Single Sided with Sponsor Plate
  - Order Code: SI0040
- Double Sided with Sponsor Plate
  - Order Code: SI0050

**Recycled Plastic Tee Post**
- Order Code: SI0030

**Recycled Plastic Tee Post with Sponsor Plate**
- Order Code: SI0035
**GOLF COURSE EQUIPMENT & FURNITURE (CONTINUED)**

**SAREL SPIKERS**
Three widths of Sarel Aerators are available. Aids water/gas penetration, greatly improves root growth for use when seeding and general turf maintenance.

- Each large spiked section is 1/2" in diameter, calculated to avoid 'hearing' of the turf. The tine steel spikes are 1/4" in diameter and 1 1/2" in length. Each spike is replaceable, held on with a large nylon nut. Also coupled to each unit is a 6½" diameter roller for transportation across hard surfaces and for use as a ground rolling tool.

  - **300mm (12") Wide Unit**
    - Order Code: 10090
  - **600mm (24") Wide Unit**
    - Order Code: 10060
  - **900mm (36") Wide Unit**
    - Order Code: 10030

**GRASS MEASURING PRISM**
The perfect tool for checking your mower cut accuracy. Graduated measurement lines show both metric and imperial. Ideal for inspecting golf greens, bowls, cricket pitches, grass tennis courts or any fine turf surfaces where moving cut accuracy is important.

- **Depth:** 0.43" (1.1cm)
- **Order Code:** 54500
- **Order Code:** 25210

**SOIL PROFILE SAMPLER**
A robust shovel type sampler, slightly tapered to give a clean cut with minimal disturbance. The blade is easily removed to allow examination of the profile. The plug can be replaced with minimal surface disturbance.

- **Depth:** 12" (30cm)
- **Order Code:** 25010

**SQUARE PATTERN BOOTWIPER**
A traditional square pattern Bootwiper. With a high quality powder coated frame and replaceable brushes. Holes in the four corners enable the frame to be securely fastened to the ground.

- **Order Code:** 60225

**ALUMINIUM SPIRAL ACTION BALL WASHER**
Solid cast aluminium construction with green powder coated finish. Stainless steel hardware. Spiral action plunger. Large capacity tank with easily maintained working parts. Large anti-lamper drain plug.

- **Order Code:** BW3100

**BALL WASHER ROUND POST - GREEN**
Dimensions: 1.2m x 60mm x 60mm
- **Order Code:** BW3030

**FLAT SURFACE BALL WASHER WALL MOUNTING BRACKET**
- **Order Code:** BW3040

**GREEN PLASTIC LITTER BIN WITH LID**
- **Order Code:** 10340

**BIN BRACKET (ROUND POST)**
To suit 60mm diameter round post. (Aluminium spiral ballwasher).
- **Order Code:** BW3070

**BALL WASHER TOWEL**
We also offer a printing and embroidery service which allows us to customise your ballwasher towels with your club or sponsor logo. Please ask for details.
- **Order Code:** BW3070
LEVELAWS & LUTES

BMS manufactures a full range of Levelawn’s (Lutes) for use on fine turf areas. The smaller being ideal for general grading and levelling work, whilst the larger are used to remove even the slightest undulations when used correctly.

28" Flip-Over Levelawn
Order Code: 30280

36" Levelawn
Order Code: 30360

ROLLERSQUEEGES

Designed to push collected water quickly and effectively. A soft sponge core surrounded by a heavy gauge flexible PVC skin to provide superior quality and strength.

ROLLER SQUEEGEE 0.6m (24”) WIDE
Order Code: 23800

ROLLER SQUEEGEE 1m (39”) WIDE
Order Code: 23810

FOLDING DEW BRUSH

The Folding Dew Brush will help eliminate the age old problem of transportation of an item with such large dimensions. Using the easy slider design you can simply slide the Dew Brush closed when you have finished using it, to eliminate any potential breakages or bowing of the brush ends while in transit.

ORDER CODE: 23815

BIG BANANA

For removal of deer, leaves, pine needles and worm castings from greens and other fine turf. Promotes quicker drying and raising of ground temperature to encourage growth and avoid disease.

Aluminium construction with two handle grips and a solid ferrule for preventing distortion of the tube end. The replaceable end section is 2.5 metres in length and constructed from high quality fibreglass rod.

Overall length when extended is approximately 4 metres.

Order Code: 23510

HEAVY DUTY TURF EDGING TOOL

Order Code: 20010

SUPERB TOOL FOR GOLF PROFESSIONALS, MAKING THE COLLECTION OF GOLF BALLS FROM TEACHING AREAS SIMPLE AND STRESS FREE.

ROLLERSQUEEGEE (CONTINUED)

Order Code: 30280

ORDER CODE: 23615

BMS manufactures a full range of Levelawn’s (Lutes) for use on fine turf areas. The smaller being ideal for general grading and levelling work, whilst the larger are used to remove even the slightest undulations when used correctly.

28" Flip-Over Levelawn
Order Code: 30280

36" Levelawn
Order Code: 30360

ROLLERSQUEEGEE (CONTINUED)

Designed to push collected water quickly and effectively. A soft sponge core surrounded by a heavy gauge flexible PVC skin to provide superior quality and strength.

ROLLER SQUEEGEE 0.6m (24”) WIDE
Order Code: 23800

ROLLER SQUEEGEE 1m (39”) WIDE
Order Code: 23810

FOLDING DEW BRUSH (CONTINUED)

The Folding Dew Brush will help eliminate the age old problem of transportation of an item with such large dimensions. Using the easy slider design you can simply slide the Dew Brush closed when you have finished using it, to eliminate any potential breakages or bowing of the brush ends while in transit.

ORDER CODE: 23815

BIG BANANA (CONTINUED)

For removal of deer, leaves, pine needles and worm castings from greens and other fine turf. Promotes quicker drying and raising of ground temperature to encourage growth and avoid disease.

Aluminium construction with two handle grips and a solid ferrule for preventing distortion of the tube end. The replaceable end section is 2.5 metres in length and constructed from high quality fibreglass rod.

Overall length when extended is approximately 4 metres.

Order Code: 23510

HEAVY DUTY TURF EDGING TOOL (CONTINUED)

Order Code: 20010

GOLF COURSE EQUIPMENT & FURNITURE (CONTINUED)
**Driving Mats & Frames**  
**Professional Quality Products**

The **Golf Mat 3 Star** is a well established golf mat and is known for its playing characteristics and quality, both on the course and in the driving ranges. The Golf Mat 3 Star has a 15mm polypropylene playing surface with a unique 10mm polyethylene foam backing. This soft foam contributes to its natural playing characteristics and is very forgiving if the golfer drives straight off the mat. An intermediate stiff felt layer is provided to prevent any indentations, strengthen the mat and extend its proven long life.

Comes with pre-fused holes for rubber tees to provide minimum wear areas.

**Sizes:** 1.50m x 1.50m, 2.00m x 1.00m, 1.50m x 1.00m, 1.83m x 1.22m, 2.00m x 1.50m

The **Golf Mat 2 Star** was manufactured for golf courses who preferred a heavier mat with a solid construction. This Golf Mat 2 Star has the same 15mm polypropylene playing surface as the Golf Mat 3 Star, but is bonded directly to the firmer 10mm rubber crumb backing. The complete mat is twice as heavy as its 3 Star sister but sits securely in temporary positions.

Comes with pre-fused holes for rubber tees to prevent minimum wear areas, or slots.

**Sizes:** 1.50m x 1.50m, 2.00m x 1.00m, 1.50m x 1.00m, 1.83m x 1.22m, 2.00m x 1.50m, 1.00m x 1.00m, 1.00m x 0.50m

**Portable Tee Frames** for temporary or permanent use. They may be moved to various positions to distribute wear on the tee and approaches. The playing performance is similar to that of natural grass but required little maintenance giving long-term cost benefits.

This extremely durable 6ft x 4ft Tee Frame consists of an artificial turf mat enclosed in a solid metal frame with adjustable legs.

**Fairway Mats** protect the fairway, preventing divots and reducing maintenance costs. The course may remain open during adverse weather conditions with the use of a Fairway Mat.

Two alternative mats to suit your budget, available in two standard sizes.

**The Distance Markers** consist of a 10mm flat rubber bonded onto a needle punched surface. 13” low profile disc – durable and weather proof

Available plain or with numbers 100, 150, 200, 25

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**GROUND REINFORCEMENT PRODUCTS**

**SandCatcher Bunker Liners**

- Indigrow’s unique product for stabilising sand on bunker bases and faces
- Environmentally friendly, it’s made from recycled fibres in a carbon neutral facility
- Available in two sizes

SandCatcher 25 and 75 are performance engineered high loft non woven sand stabilisation products, designed to meet the needs of architects, builders and course superintendants the world over. Both SandCatcher 25 and SandCatcher 75 are superior to other bunker liners in that there has proven to be much less ‘pick-up’, in other words a club is less likely to catch the fibre as it is more dense whilst still retaining the ability to hold sand in place. Comparing a SandCatcher lined bunker with a non lined bunker and you can see that they are worlds apart. Golf course architects are designing ever more challenging bunkers so we designed SandCatcher to meet these needs. Both SandCatcher 25 and 75 are made from recycled fibres in a carbon neutral facility so are truly environmentally friendly.

Much time on a course is wasted re-facing the steeper slopes after rain events, with SandCatcher wash out is 75% less prevalent freeing up time for other maintenance duties.

**SandCatcher 25**

Is specifically engineered to be installed in bunker bases to both stabilise the sand and stop contamination from the soil beneath whilst improving drainage and aesthetics.

**SandCatcher 75**

Is specifically engineered for bunker faces. It will form an even three dimensional matrix with which to hold sand on the steep slopes of faces, stabilise the bunker wall leading to improved aesthetics and increase drainage in the most demanding situations.

**Product** | **Pack Size** | **Size** | **Unit**
--- | --- | --- | ---
SandCatcher 25 | 90m² | 2m x 45m | each
SandCatcher 75 | 40m² | 2m x 20m | each
SandCatcher Staples | 500 | 6” staple | each

To further improve and ease installation SandCatcher staples are a high grade 6” galvanised heavy duty steel tool used to hold both SandCatcher 25 and 75 in place in the most demanding situations. SandCatcher is an innovative, cost effective answer to bunker construction and maintenance.
GridLok® Elite is manufactured from 100% recycled polypropylene to form an interlocking permeable paving system which can be filled with gravel or grass. It can be used as part of a sustainable urban drainage system and doesn’t require planning permission.

GridLok® Elite can withstand constant pedestrian traffic and vehicular traffic of up to 40 tonnes per square metre making it more than capable of handling virtually all domestic applications. Its quick and easy to install and will not crack or rot.

Pavers have built in ground spikes to stabilise each panel during installation.

They are ideal for: driveways, golf paths, foot and cycle paths, over flow car parks.

GridLok® Elite

NEW!

SAFETY MAT

TENAX SafetyMat is an environmentally friendly, non-slip, impact absorbing, safety surface. Manufactured from recycled rubber TENAX SafetyMat is simply laid on to the grass and pegged down. During the growing season the grass will quickly grow through the rubber mesh providing a stable and durable surface, ideal for play areas, walkways, embankments and golf courses. It can be used on flat or undulating ground and makes access by wheelchairs and pushchairs all the more easy.

SAFETY MAT

- Interlocking matting made from recycled material.
- 4 tiles per sq metre.
- Available in two thicknesses 16mm and 23mm.
- Hard wearing & easy to install.
- Perfect for golf pathways. Mow over the top after establishment.
- Fire retardant.
Coverlawn.

Coverlawn (Hybrid turf) is a knitted AstroTurf matting incorporating a polyester backing. Similar in appearance to a string vest, the holes allow the existing grass sward to grow up and integrate with the Coverlawn. The turf is available in different pile heights from 12-60mm, and are non slip making them ideal for walkways and playing surfaces.

Areas of use.
- Golf Courses.
- Football Pitches.
- Parks.
- Slopes.

Installation.
Coverlawn is installed directly on to the grass surface and is held down with biodegradable pegs.

CL 1201 Specifications & Use.
- 12mm green pile with 20mm diameter holes.
- Knitted AstroTurf honeycomb structure with reinforced polyester backing.
- Roll dimensions 25m X 2.4m.
- Ideally suited for golf tees and as it can withstand literally hundreds of golf shots, and reduces the amount of divots.
- Perfect for pathways and can be mown to 12mm.

CL 1203 specifications & use.
- 12mm green pile with 30mm diameter holes.
- Knitted Astro Turf honeycomb structure with reinforced polyester backing.
- Roll dimensions 25m X 2m.
- Ideally suited for pathways where mowing down to 12mm is required.
- Will not withstand golf shots.

CL 2003 specifications & use.
- 22mm green pile with 30mm diameter holes.
- Knitted Astro turf honeycomb structure with reinforced polyester backing.
- Roll dimensions 25m X 2m.
- Ideal for pathways with a mowing height down to 22mm.

Pathway Material & Tee Turf

Professional Quality Products

Artificial Grass is an established solution for pathways which become muddy and slippery in wet weather, or dusty and worn in the dry.

The key benefits of Artificial Grass Pathways are:
- Low maintenance
- Natural appearance
- Easy to install
- Slip resistant
- Hardwearing
- Sound resilient
- Long lasting
- Cost effective

Offering two recognised products - Golf Turf and Super Golf Grass - as solutions for pathways, bridges, sleeper steps, slopes, stonewashed areas, tee approaches & club house foyers.

Both products are supplied in standard rolls 2m or 4m wide.

Golf Turf is a hardwearing 20mm open pile artificial grass, which has been supplied for golf course pathways for well over 20 years. The grass is to be filled to within 2-3mm off the surface with kiln-dried sand (approx. 20kg/sq.metre). The sand holds the grass in place, eliminating the necessity for nails or other fixings. The sand also protects the tufts from spiked shoes and provides a natural appearance to the finished installation.

Super Golf Grass is a non sand filled & far denser alternative and is an excellent choice of surface for covering bridges and sleeper steps. Walkways near to the club house also benefit from Super Golf Grass, as it creates a clean, slip resistant path, without the risk of treading sand or dirt inside.

Super Golf Grass has a 12mm curled pile, which is extremely hardwearing and spike resistant. As there is no sand infill to hold the Super Golf Grass in place, alternative fixings are advised.

TeeTurf is a hardwearing 20mm open pile artificial grass, which has been supplied for golf course paths for well over 20 years. The grass is to be filled to within 2-3mm off the surface with kiln-dried sand (approx. 20kg/sq.metre). The sand holds the grass in place, eliminating the necessity for nails or other fixings. The sand also protects the tufts from spiked shoes and provides a natural appearance to the finished installation.

Super Golf Turf (non infill) is an ultra dense nylon artificial grass, designed and constructed especially for the golf market. This 36mm non-infill golf tee is dense enough to support a tee peg, yet durable enough to drive straight off the surface. Launched in 2012, this demanding product has been constructed out of a curled nylon monofilament yarn, chosen for its resilience and hardwearing characteristics.

Ideal for winter and all year round tees, practice strips and driving bays - on the golf course, at the driving range or for home use.

Golf TeeTurf is a 45mm self install All Weather Tee which provides a surface which allows you to tee up from any position.

Sand and rubber granules should be brushed into the pile with minimal effort. The infill retention is excellent providing optimum playing characteristics with very little maintenance. Golf TeeTurf is designed to take either a standard tee peg or for the golfer to drive straight off.

Supplied in 2m and 4m widths.

Supplied in 2m and 4m widths.
Ice Melt

This product is six times more effective than salt on snow and ice.

IT’S USED ON AIRPORT RUNWAYS.

There is no damage to carpets and wooden floors. Can be used on tee mats without damage to grass.

Supaturf SSR70 Salt Spreader

The perfect way to spread salt or other treatments during freezing winter weather.

- Built from robust, corrosion resistant materials
- 32kg capacity pedestrian spreader
- Coverage from 2.4m-3.7m
- Easy to handle and control

Contact us today for a firm quotation

Marram Plugs – For Link’s Sites
Calluna Vulgaris (Heather) in plugs or pots – Suitable for Heathland.

USEFUL DATA

Metrication-Conversion Factors

<table>
<thead>
<tr>
<th>WEIGHT</th>
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Sports Pitch Dimensions

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<td>Rugby</td>
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<tr>
<td>Cricket Square</td>
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<td>Lawn Tennis</td>
<td>23.8 x 11</td>
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<tr>
<td>Bowls</td>
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<tr>
<td>Croquet</td>
<td>32 x 25.5</td>
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<tr>
<td>Golf Green</td>
<td>500m²/600m²</td>
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<tr>
<td>Golf Tee</td>
<td>250m²/500m²</td>
</tr>
</tbody>
</table>
Suppliers to the Fine Turf Industry

Logo flags at Penrith Golf Club

Cover Lawn CL1201 freshly installed at Kingsbarns Golf Links

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