



SEEDS & SCIENCE

MASTERLINE®

Amenity grass seed mixtures
Wild flowers • Fertilisers 2024

MASTERLINE®

The Professional Choice



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When you deal with seed from DLF, you have science on your side.

Research and development are at the heart of our business. Based on trends, needs and wants of the marketplace our worldwide research and breeding network develop new and better performing varieties to be used in mixtures for a wide range of purposes and climatic conditions. Before we release new seed to the market, we test its suitability in a variety of climates and different soil types. The data tells us how your seed will perform.

We are the world's largest producer and distributor of grass seed with a global network. From our offices in Denmark, Holland, the UK, Ireland, France, Germany, Poland, Czech Republic, Russia, China, New Zealand, Canada, USA, Uruguay and South Africa, we cover the world.

NEW VARIETIES AND BETTER RETURNS, SEASON AFTER SEASON

Growers of grass seed are always looking ahead for better performing varieties. In this constant push for improvement, we lead the way. By devoting so much time and resources to R&D, we release a stream of new and enhanced seed varieties. We give you something fresh and exciting to offer your customers each season. Our history of seed development has created a diverse portfolio. It contains seeds for just about any grass user or set of environmental circumstances. With DLF's seeds and science behind you, you can give your customers exactly what they need.



MIXTURE SELECTOR

	PM5	PM10	PM13	PM15	PM20	PM25	PM25R	PM26	PM27	PM28	PM29	PM35	PM36	PM40
AIRPORT														
ATHLETICS														
BOWLING GREEN														
CARAVAN PARKS														
COASTAL SITES														
CONTAMINATED SITES														
CRICKET OUTFIELD														
CRICKET SQUARE														
DRIVING RANGE														
DRY SOILS														
ECONOMY														
EMBANKMENTS														
FERTILITY BUILDING														
FINE LAWNS														
FOOTBALL														
GALLOPS/POLO														
GOLF FAIRWAY														
GOLF GREEN														
GOLF ROUGH														
GOLF TEE														
HARD WEARING LAWN														
LANDFILL														
LANDSCAPE GENERAL														
LOW MAINTENANCE														
PADDOCKS														
ROAD VERGE														
RUGBY														
SHADE														
TENNIS COURT														
WETLAND														
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TURF TO REDUCE YOUR ENVIRONMENTAL IMPACT

BETTER-PERFORMING TURF REDUCES YOUR INPUTS

For more than 30 years, our breeding and product development has created more resilient varieties adapted to local climates. Our turf solutions, such as 4turf®, ProNitro®, 4salt and Microclover®, are designed for maximum performance from minimal resource input. They show increasing resilience to a changing climate, increased disease pressure, and increasingly severe droughts and floods.

Their ability to thrive with less input from you reduces your own impact on the climate and environment.

TURF TO HELP MEET THE UN SUSTAINABLE-DEVELOPMENT GOALS

All turf is green, but some turf are greener than most. These are the turf solutions that align with the UN's sustainable development goals (SDGs) for a better and more sustainable future for all in 2030.

These greener, more resilient turf solutions need fewer resources (water, fertiliser, pesticide) throughout their lives – from establishment to day-to-day maintenance. By choosing these turf solutions from DLF, you'll be doing your bit to help meet UN SDGs 6, 11, 13 and 15.



SEEDING GREEN SOLUTIONS

SUSTAINABLE TURF SOLUTIONS FROM DLF

Turf plays a major part in recreational and leisure activities. Sports pitches and landscape solutions are key areas where professional turf managers can choose turf solutions from DLF that help them contribute to some of the UN's 17 SDGs.

4TURF® – FOR LOW-INPUT MANAGEMENT

Super resilient 4turf® tetraploid perennial ryegrasses are ideal for the sports and amenity sector. With its exceptional disease tolerance and winter hardiness, 4turf® needs less maintenance and fewer chemical inputs. The drought tolerance of 4turf® keeps professional pitches, parks and landscapes looking greener for longer, and reduces the need for irrigation.

PRONITRO® – NEEDS LESS WATER TO GERMINATE AND ESTABLISH

ProNitro® is a persistent, low-input, flexible and sustainable solution for professional pitches, parks and landscaping. Our ProNitro® seed coating with hydroactive water management technology ensures better use of the water in the soil surrounding each seed. This efficient method of increasing a seed's access to water means that it needs up to 15% less water for successful germination and establishment. At the same time, the precisely targeted fertiliser in the seed coat reduces leaching and eliminates the need for seed-bed fertiliser.

4SALT – FOR BETTER GROWTH WHEN THE WATER QUALITY VARIES

4salt turf varieties have a high tolerance to salt. If you are not able to irrigate with potable water, your turf can suffer. Non-potable water can contain salt and other substances which can compromise turf growth and quality. By including 4salt varieties in your mixture, your turf will stay green and healthy, no matter the water quality.

MICROCLOVER® – THE NATURAL NITROGEN-FIXER

Microclover® fulfils the desire for a more sustainable use of nitrogen. Since clover has the ability to fix nitrogen from the air, its inclusion in a turf mixture provides your turf with a natural supply of nitrogen. Microclover® from DLF is an economic and reliable source of home-grown fertiliser. Microclover® goes well with turf species, providing a dense, uniform appearance and creating a more drought tolerant turf that stays green, longer.

Turf from DLF does more than help to meet the UN SDGs. It also works to protect your turf from some of the other environmental challenges that we face, such as soil erosion, water run-off, and air pollution. In so many ways, these are sustainable solutions.

DLF TURF SOLUTIONS HELP TO ACHIEVE THE FOLLOWING UN SUSTAINABLE DEVELOPMENT GOALS

6 CLEAN WATER AND SANITATION

Clean water is a scarce resource. We offer turf solutions that can withstand irrigation with non-potable water, drought tolerant grasses that need less water, and more disease tolerant grasses that need less herbicides and fungicides that can potentially seep into groundwater. These turf solutions use less water and support sustainable water management.

11 SUSTAINABLE CITIES AND COMMUNITIES

Population growth demands new ways of thinking about cities and the urban environment. Turf creates green urban spaces offering great value in terms of health, exercise, and recreation. Turf also helps to reduce the temperature, clean the air and support the goal of better air quality.

13 CLIMATE ACTION

A changing climate and rising temperatures are the results of continued emissions of greenhouse gases. We have developed turf solutions for sports and recreational areas that have increased resilience and adaptability, and require less maintenance to help reduce CO₂ emissions.

15 LIFE ON LAND

Earth's ecosystems are under pressure, making sustainable management essential. We have developed turf varieties that need less fertiliser and pesticides, yet still show a consistently high quality. These varieties help you provide more sustainable management of your green areas.

MICROCLOVER®

The natural nitrogen-fixer for sustainable turf management

MICROCLOVER® MAKES TURF MANAGEMENT EASIER

Turf managers want healthy, green turf all year round. But local legislation often puts restraints on the use of water and fertiliser, which makes turf management more difficult, more costly and compromises quality. Microclover® can ease the problem of keeping your turf green, lush and sustainable.

Microclover® is a legume with the natural ability to fix nitrogen from the air. To make the most of this ability, we developed our unique small leaved Microclover® specifically for use with turf.

INCREASED DROUGHT TOLERANCE

Microclover® grows low between your turf plants, maintaining an even distribution, while supplying your turf with all the nitrogen it needs.

Microclover® blends in well with turf species to provide a dense, uniform appearance, and a more drought-tolerant turf that stays green longer.

SUSTAINABLE TURF MANAGEMENT WITH MICROCLOVER®

By adding Microclover® to your turf mixture, your turf has its own built-in fertiliser. As the clover grows between its companion turf plants, it feeds them with nitrogen. It can do this because Microclover® develops root nodules that convert atmospheric nitrogen into a natural fertiliser. The process of nitrogen release continues throughout the growing season until the first frosts.

The nitrogen is available when and where it is needed, without risk of leaching or of fertiliser burning in the field. Since Microclover® can generate as much as

180 kg N per ha per year, this natural route to nitrogen fixing can significantly reduce your need for artificial fertiliser. The competitiveness of Microclover® is also beneficial. The plant quickly fills gaps to lock out weeds and reduce the need for herbicides. Since herbicides may harm Microclover®, they're best avoided.

INCREASE THE WEAR-TOLERANCE OF YOUR TURF

The appearance of turf containing Microclover® is superior to that of traditional turf. The Microclover® fertilises the field to increase its wear tolerance. At the same time it weaves its stolons into the turf, spreading and integrating evenly for a harmonious visual look. In so many ways Microclover® improves the performance of even the highest ranking, wear tolerant varieties.



Improved visual appearance

During drought and cold weather, clover stays green for much longer than grasses do. Pitches, courses or fields containing Microclover® look greener earlier and later in the year. Summer colour is better too because the deep rooting system of Microclover® makes it tolerant to drought.

When mown low, the tiny leaves and short stems of Microclover® look – from a distance – like ordinary turf. They provide a good visual fit with your turf mixture.


microclover®
by DLF

Microclover® Mixtures

PM26
ECOSWARD

See page 17

PM27
ECOSWARD PLUS

See page 18

GROMAX

Biostimulants assist the seedlings' ability to take advantage of the soil's own inherent reserves of nutrient by stimulating the soil's microflora, resulting in improved root growth and establishment.

GroMax is a dry formulation of natural humates and humic acids, seaweed extract, a proprietary blend of natural sugars (sucrose), vitamins (B complex & K), soluble potash and buffering agents. The product is compatible with most micronutrients, fertilisers and pesticides.



INGREDIENT SUMMARY

HUMIC ACIDS

- Rich in auxin type substances which enhance antioxidant synthesis – important in increasing plant metabolism under stress conditions
- Serve as an important high carbon food source for soil microorganisms
- Improve the permeability of cell wall membranes in roots, allowing more rapid absorption of essential nutrients

SEAWEED EXTRACT

- Contains high levels of cytokinins which promote cell division and lateral root growth and delay the ageing process of plant tissue
- Stimulates root growth after damage by disease or root feeding insects, or under conditions of temperature, water or salt stress

SUCROSE

- Serves as a high energy food source for plant and soil microorganisms

B COMPLEX & K VITAMINS

- Act as important catalysts to enhance and drive plant metabolism. Vitamin B1 is widely used as a rooting aid

AMINO ACIDS

- Form the building blocks of proteins – essential for plant growth and metabolism

POTASSIUM

- Plays a vital role in disease resistance and overall hardiness of grass plants

GroMax

4TURF® TETRAPLOID

Resilient turf for year-round use

4TURF® WITHSTANDS THE STRESSES OF SPORTS AND LEISURE

4turf® is a unique range of tetraploid perennial ryegrass varieties developed for year-round resilience. 4turf® varieties are fast establishing, deep rooting, resilient, and tolerant to stress. Their ability to quickly generate a large root mass ensures good performance against the stresses of drought, cold, and disease. Turf grown from 4turf® seed stays greener for longer.

FOUR SETS OF CHROMOSOMES FOR BETTER PERFORMANCE

4turf® varieties perform better because they have four sets of chromosomes, whereas perennial ryegrass, in its natural state, has just two sets. The doubling of chromosomes creates bigger cells with more chloroplasts. Each cell contains more chlorophyll and produces more sugars.

The boost in chlorophyll gives you healthy, high energy plants. They are more stress-tolerant and recover faster after periods of extreme temperature and disease attack. They're more sustainable too because you need only a minimal input of fertiliser and water to maintain your turf.

4turf® tetraploid seeds are bigger than diploid seeds. A larger seed size gives you better seed-to-soil contact for faster, stronger establishment and more playing hours.

SECURE MORE PLAYING HOURS – EVEN DURING DROUGHT

4turf® performs better during a drought. The improved root-system structure makes 4turf® more effective at exploiting natural water reserves and need less watering. Your turf stays greener for longer, which reduces the risk of damage to your pitch, course, or landscape during dry periods.

- Fast establishment
- Better drought tolerance
- Better cold tolerance
- Exceptional disease tolerance

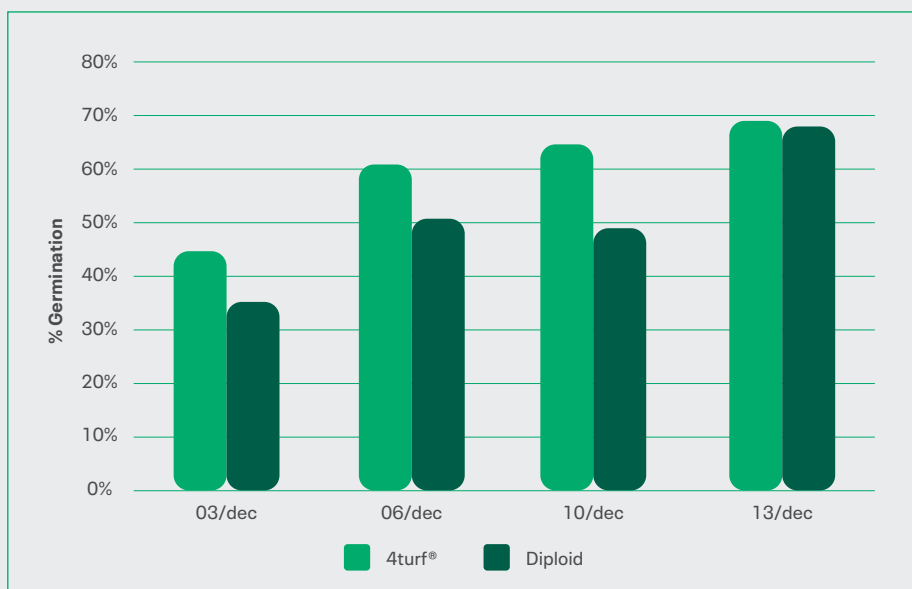
When the rain does return, 4turf® varieties recover faster. Drought trials conducted in France's Loire Valley prove that 4turf® tetraploid varieties are significantly more drought tolerant than diploids.

RESILIENT, LOW-MAINTENANCE TURF FOR ANY USE

4turf® is a high quality solution for turf managers. It makes the establishment or renovation of your pitch, course, or field

more successful. Quick establishment prevents weeds from developing, while proven disease tolerance is a result of stronger and more resilient genetics. The result is a low-maintenance turf that needs less overseeding and herbicides to stay green and healthy throughout a long season of use.

GERMINATION AT 4°C – SOWING DATE NOVEMBER 21ST



"We are experiencing a faster germination and establishment, especially at low temperatures. The growth starts earlier so the tees are ready for use earlier in the spring. Our experience with 4turf® has shown it can be used under all weather conditions including drought, shade and in soils that retain too much water. Using 4turf® has improved the condition of the turf on our tees and it acts as a nurse crop for other grasses. By using 4turf® we get a beautiful, deep green colour turf from early spring, which stays healthy and has a great wear tolerance throughout the year."

Morten Terkelsen – Course Manager, Esbjerg Golf Club, Denmark

By using 4turf® we get a beautiful, deep green colour turf from early spring which stays healthy and has a great wear tolerance throughout the year

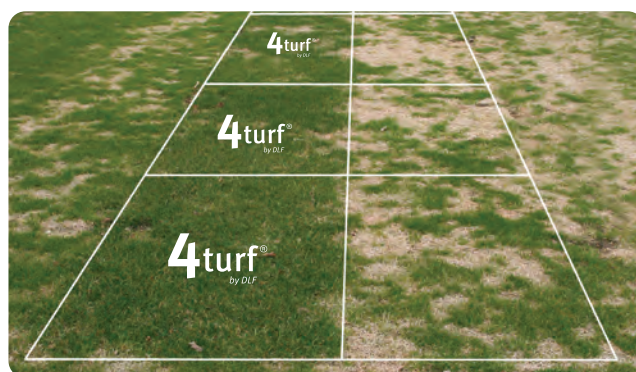


EXCELLENT WINTER GROWTH AND HARDINESS

4turf® shows exceptional winter performance. During cold weather, 4turf® stays active, and the seeds still germinate even at 4°C. As a result, you can sow earlier in the spring or overseed later in the autumn. Tough cold weather trials in Finland proved superior winter hardiness in several 4turf® varieties. 4turf® is also the top performer for general turf quality within independent official SCANTURF trials.

GREEN TURF ALL YEAR ROUND

4turf® looks good throughout the year. The turf is a deeper dark green than traditional perennial ryegrass varieties. At the same time, its improved year-round stress tolerance gives you a healthy and thriving turf with better resistance to weed invasion and turf diseases. Fast establishment extends the 4turf® playing season. Your newly sown turf becomes greener and playable sooner, and for longer, compared to traditional varieties of perennial ryegrass.



PRONITRO® SEED COATING

Give every turf seed a head start in life

NITROGEN AND WATER-MANAGEMENT FOR EVERY SINGLE SEED

ProNitro® provides a helping hand for every seed you sow. The seed coating contains nitrogen with hydroactive water management technology which helps the seed to generate a significantly stronger and faster establishment.

The coating of fertiliser that encases a ProNitro® seed gives it a head start. When supported by a controlled release of nitrogen, turf roots and shoots grow rapidly, developing into strong, resilient plants. At the same time, the hydroactive water management technology helps the seed make more efficient use of water. The two processes combine to give you a more dense and better looking turf that needs less fertiliser and less water. Fast establishment leaves less time or space for weeds to grow, which makes ProNitro® a sustainable and cost saving solution for turf managers.

ProNitro® coated seeds are good for all turf surface types. On golf greens, parks and football pitches in low fertility, sandy soils, ProNitro® provides faster establishment. When you sow with ProNitro®, sports fields become playable sooner, and turf producers obtain a product earlier, both with less *Poa annua* and broad leaved weed.

ADD PRONITRO® TO ANY TURF MIXTURE

It's easy to achieve the benefits of ProNitro®. Just ask your local DLF representative to add the coating to your seed mixture. For a faster and stronger start, get the seeds in your next Masterline® mixture coated with ProNitro®.

SAVE TIME AND MONEY WITH PRONITRO®

The targeted combination of controlled release nitrogen and hydroactive water management technology of ProNitro® makes essential nutrients and water available to each developing seedling. You get stronger germination and improved take up of nutrients during the early stages of plant growth. Since ProNitro® seeds need less water and fertiliser, they save you time and effort; they're a labour saving and cost effective route to better turf.



- Stronger and faster establishment
- Improved stress tolerance
- Cost and time efficient
- Sustainable turf management

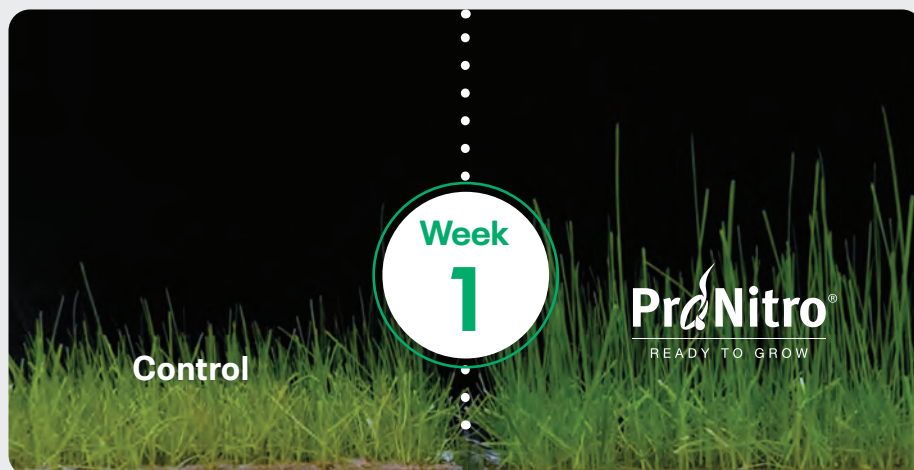
AVAILABLE ON

PM50**NITRO
QUALITY LAWN**

Product formulation: 10% N

PM80**NITRO
RENOVATOR**

Product formulation: 10% N



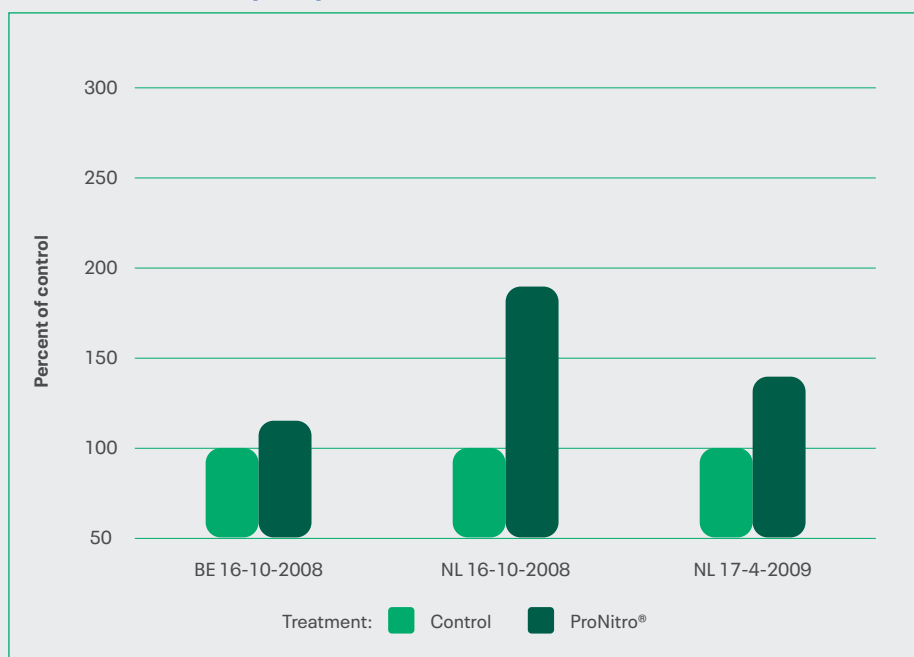
↗ Regrowth over one week after cutting back to 20 mm

ENVIRONMENTALLY FRIENDLY

ProNitro®'s precise targeting of nitrogen reduces nitrogen leaching by up to 50%, which is good for the environment. It also eliminates your need for seedbed fertiliser which saves you time and money. ProNitro® is so effective, it gives you up to 34% more plants. It creates a healthier, more stress tolerant and wear tolerant turf. The increased density of the turf also helps reduce invasion by *Poa annua* and broad leaved weeds.

**SIGNIFICANTLY IMPROVED
WATER DISTRIBUTION AND
DROUGHT TOLERANCE**

The hydroactive water management technology in ProNitro® also reduces the time and cost you spend on irrigation in the establishment phase because the germinating seed makes better use of the water in the surrounding soil. Additionally, the coated seeds develop 30% longer roots. The roots can optimize the water uptake by extraction of deep water resources, which makes the turf more drought tolerant.

ROOT LENGTH (CM)

PM5

ECONOMY GREEN

This traditional 80:20 mixture offers good results at a reasonable price.

GOLF AND BOWLING GREENS

40%	Wagner	Chewings Fescue
40%	Smirna	Slender Creeping Red Fescue
20%	Highland	Browntop Bent

Sowing rate: 35g/m²

Overseeding: 25g/m²

Mowing height: down to 5mm

GroMax treated



PM10

TRADITIONAL GREEN



An ideal mixture for greens renovation providing rapid germination, a fine putting surface and excellent year round colour.

GOLF AND BOWLING GREENS

25%	Esparina	Chewings Fescue
15%	Bogart	Chewings Fescue
20%	Sarolea	Slender Creeping Red Fescue
20%	Absolom	Slender Creeping Red Fescue
10%	Jorvik	Browntop Bent
5%	Manor	Browntop Bent
5%	Arrowtown	Browntop Bent

Sowing rate: 35g/m²

Overseeding: 25g/m²

Mowing height: down to 5mm

GroMax treated



PM13

FINE FESCUE



A high quality fine fescue mixture designed for the renovation of greens, tees and fairways. The mix will establish quickly and has excellent year round colour and disease resistance. Especially useful for over sowing early and late in the season when following a sustainable golf management programme.



HIGH QUALITY GREENS, TEES AND FAIRWAYS – FESCUE OVERSEEDING

15%	Bogart	Chewings Fescue
35%	Esparina	Chewings Fescue
20%	Absolom	Slender Creeping Red Fescue
30%	Sarolea	Slender Creeping Red Fescue

Sowing rate: 35-50g/m²

Overseeding: 15-25g/m²

Mowing height: down to 5mm

GroMax treated

PM15

GREEN ALLBENT



An all browntop mixture, ideal for over sowing of existing greens. Top rated cultivars for greens use, this combination provides excellent year round colour and disease resistance.



HIGH QUALITY HARD WEARING LAWN

25%	Manor	Browntop Bent
25%	Arrowtown	Browntop Bent
50%	Jorvik	Browntop Bent

Sowing rate: 10g/m²

Overseeding: 5g/m²

Mowing height: down to 4mm

GroMax treated

PM20

FINETURF

A mixture of only the best species ensures the production of a truly first class fine turf sward. An important pre-requisite is a clean seed bed free from coarse species so that the full benefits of the short fine varieties can be seen.

TEES, FAIRWAYS AND HIGH QUALITY FINE LAWNS (WITHOUT RYEGRASS)

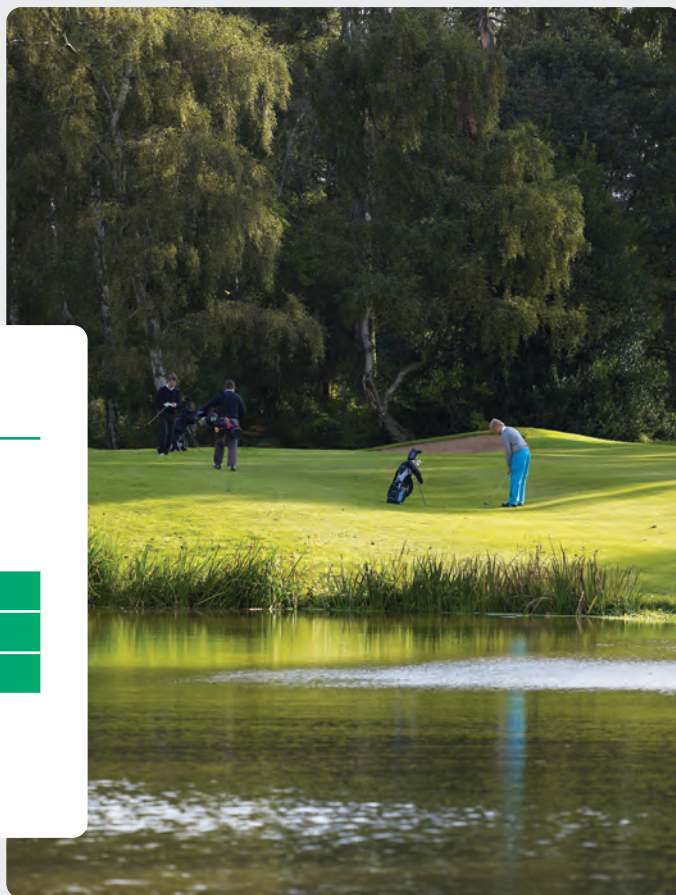
20%	Wagner	Chewings Fescue
20%	Smirna	Slender Creeping Red Fescue
60%	Sergei	Strong Creeping Red Fescue

Sowing rate: 35-50g/m²

Overseeding: 15-25g/m²

Mowing height: down to 10mm

GroMax treated



PM25

GRO-SLOW



This is a reduced maintenance mix that is naturally low growing and attractive. Using fine grasses that are very tolerant of dry and infertile conditions, reducing the need for additional applications of water and fertiliser. The addition of Crested dogstail to the mix ensures a quick germination and green up of the sward.

LOW MAINTENANCE/POOR SOILS/ EMBANKMENTS/GOLF ROUGH

10%	Samanta	Slender Creeping Red Fescue
45%	Maxima	Strong Creeping Red Fescue
30%	Dumas	Hard Fescue
10%		Crested Dogstail
5%	Highland	Browntop Bent

Sowing rate: 25-50g/m² 4g/m² when sowing with wild flora

Overseeding: 15-25g/m²

Mowing height: 20mm or twice/year to approx 100mm

Unmown height: approx 150-200mm (excluding flower heads)
depending on fertility

GroMax treated

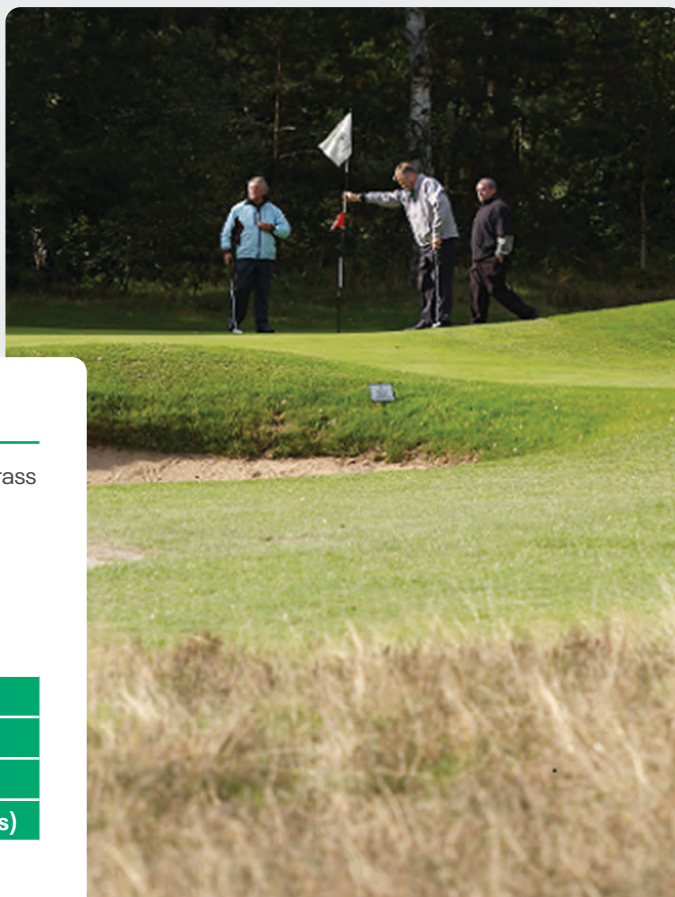


PM25R

GRO-SLOW PLUS



The addition of Double 4turf® tetraploid rye grass to our standard low maintenance mixture is suitable when rapid establishment is also required. 4turf® has a more open habit, perfect to allow the finer grasses to establish & offers improved drought tolerance and a stronger root system



LOW MAINTENANCE/POOR SOILS/EMBANKMENTS

15%	Double	4turf® Tetraploid Perennial Ryegrass
10%	Samanta	Slender Creeping Red Fescue
40%	Maxima	Strong Creeping Red Fescue
20%	Dumas	Hard Fescue
10%		Crested Dogstail
5%	Highland	Browntop Bent

Sowing rate: 25-50g/m²

Overseeding: 15-25g/m²

Mowing height: 20mm or twice/year to approx 100mm

Unmown height: approx 150-200mm (excluding flower heads)

GroMax treated

4turf®
by DLF

PM26

ECOSWARD



Ecosward mixtures have been developed to reduce input costs and be kind to the environment by eliminating the need for excessive fertiliser, water and herbicide. Adding Microclover to the mixture naturally fixes nitrogen for the grasses while significantly increasing drought tolerance and disease resistance. Produces a visually attractive, dark green turf.



LOW MAINTENANCE LANDSCAPE MIX WITH CLOVER

20%	Wagner	Chewings Fescue
15%	Samanta	Slender Creeping Red Fescue
50%	Sergei	Strong Creeping Red Fescue
10%	Evora	Smooth Stalked Meadow Grass
5%		Microclover

Sowing rate: 25g/m²

Overseeding: 25g/m²

Mowing height: 13-25mm

GroMax treated

microclover®
by DLF

PM27

ECOSWARD PLUS

Ecosward mixtures have been developed to reduce input costs and be kind to the environment by eliminating the need for excessive fertiliser, water and herbicide. Adding Microclover to the mixture naturally fixes nitrogen for the grasses while significantly increasing drought tolerance and disease resistance. Produces a visually attractive, dark green, hard wearing turf. Especially suitable for reinforced paving systems. High carbon capture mixture.

LOW MAINTENANCE LANDSCAPE MIX WITH CLOVER INCLUDING RYEGRASS

50%	Double	4turf® Tetraploid Perennial Ryegrass
35%	Sergei	Strong Creeping Red Fescue
10%	Wagner	Chewings Fescue
5%		Microclover

Sowing rate: 25g/m²

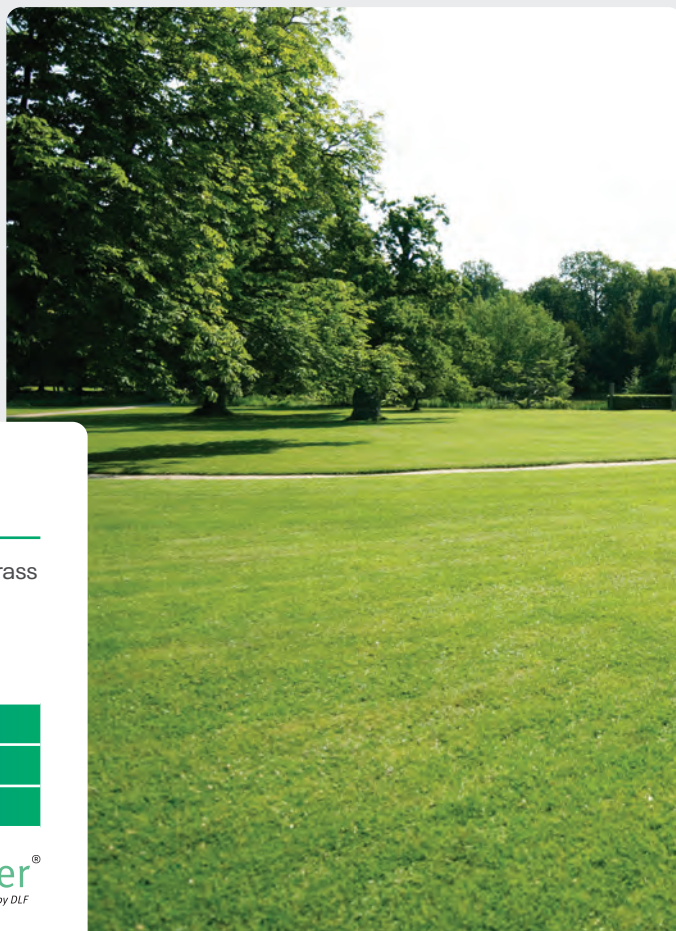
Overseeding: 25g/m²

Mowing height: 13-25mm

GroMax treated

4turf®
by DLF

microclover®
by DLF



PM28

WETLAND

Capable of withstanding prolonged wet conditions on heavy or light soils. When conditions allow the mixture can also be mown down to produce an attractive sward.

DAMP AND WATERLOGGED SOILS

10%	Dakisha	Smooth Stalked Meadow Grass
20%	Maxima	Strong Creeping Red Fescue
10%	Esquire	Perennial Rye
10%	Teno	Small Leaved Timothy
10%		Crested Dogstail
40%	Essential	Tall Fescue

Sowing rate: 25-35g/m²

Overseeding: 25g/m²

Mowing height: as required

GroMax treated



PM29

ALL SEASON

The All Season mixture takes advantage of the significant advances DLF have made in the breeding of turf type tall fescues with regard to fineness of leaf and shoot density, providing an attractive, hard wearing, low maintenance alternative to ryegrass mixtures. Tall fescue has roots which will penetrate the root zone to depths of over 1m, the mix will cope with extremes of heat, drought and occasional waterlogging.

DROUGHT TOLERANCE

25%	Debussy	Tall Fescue
75%	Essential	Tall Fescue

Sowing rate: 25-35g/m²

Overseeding: 25g/m²

Mowing height: down to 10mm

GroMax treated



PM35

UNIVERSAL



This mixture incorporating high quality turf type perennial ryegrass cultivars gives fast establishment, strong soil binding characteristics, fine dense appearance. A versatile mix suitable for any close mown situation under wear.

CRICKET SQUARES, TEES AND TENNIS COURTS

35%	Claudine	Perennial Ryegrass
35%	Chardin	Perennial Ryegrass
10%	Absolom	Slender Creeping Red Fescue
20%	Sarolea	Slender Creeping Red Fescue

Sowing rate: 35-50g/m²

Overseeding: 25-50g/m²

Mowing height: down to 5mm

GroMax treated



PM36

WICKET



The combination of these highly rated close mown cultivars, gives excellent performance with regard to speed of establishment, density and resistance to wear, under close mown conditions.

CRICKET WICKET, TENNIS AND TEES RENOVATION

30%	Chloe	Perennial Rye
50%	Chardin	Perennial Rye
20%	Dickens	Perennial Rye

Sowing rate: 35-75g/m²

Overseeding: 25-75g/m²

Mowing height: down to 5mm

GroMax treated



PM40

TEE AND FAIRWAY



A traditional 100% fescue fairway mixture which delivers a fine dense playing surface with improved drought tolerance and disease resistance under a sustainable management program. Now benefitting from top rated Rossinante strong creeping red fescue with unparalleled shoot density and visual merit, and Dumas hard fescue for increased drought and disease tolerance.

TEES, FAIRWAYS AND CRICKET OUTFIELDS (WITHOUT RYEGRASS)

20%	Rossinante	Strong Creeping Red Fescue
25%	Sergei	Strong Creeping Red Fescue
20%	Sarolea	Slender Creeping Red Fescue
10%	Esparina	Chewings Fescue
20%	Wagner	Chewings Fescue
5%	Dumas	Hard Fescue

Sowing rate: 35-50g/m²

Overseeding: 15-25g/m²

Mowing height: down to 12mm

GroMax treated



PM45

TEE AND FAIRWAY PLUS



An excellent mixture for the rapid renovation of tees and fairways. The addition of Chardin perennial ryegrass, combined with fine fescues, ensures a dense, hard wearing surface which repairs easily from divoting. Now benefitting from top rated Rossinante strong creeping red fescue with unparalleled shoot density and visual merit.

TEES, FAIRWAYS, CRICKET OUTFIELDS AND DRIVING RANGES (WITH RYEGRASS)

35%	Chardin	Perennial Rye
15%	Rossinante	Strong Creeping Red Fescue
20%	Sergei	Strong Creeping Red Fescue
10%	Archibal	Slender Creeping Red Fescue
20%	Esparina	Chewings Fescue

Sowing rate: 35-50g/m²

Overseeding: 15-25g/m²

Mowing height: down to 12mm

GroMax treated



PM50

QUALITY LAWN



An excellent mixture, fine in appearance and hard wearing with excellent colour. The improved new cultivars ensure, a shade tolerant, low maintenance turf, with good disease resistance, keeping future maintenance costs to the minimum. The inclusion of our unique 4turf® tetraploid ryegrass Tetragame deliver fast establishment, improved colour, increased drought tolerance and incredible disease resistance. A very successful mixture for both private and local authority use, on housing and industrial developments where a high quality and durable turf is called for.

HIGH QUALITY HARD WEARING LAWN

10%	Tetragame	4turf® Tetraploid Perennial Rye
20%	Chardin	Perennial Rye
10%	Dickens	Perennial Rye
40%	Sergei	Strong Creeping Red Fescue
10%	Wagner	Chewings Fescue
10%	Smirna	Slender Creeping Red Fescue

Sowing rate: 35-50g/m²

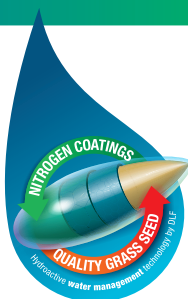
Overseeding: 15-25g/m²

Mowing height: down to 10mm

GroMax treated

4turf®
by DLF

ProNitro® coated option available



PM51

GREENSCAPE



A hard wearing mixture that will establish rapidly. Ideal for general purpose landscaping and lawns. Our unique Double 4turf® Tetraploid ryegrass delivers fast establishment, improved colour, increased drought tolerance and incredible disease resistance. Improved performance and reduced management costs. Contains only STRI UK listed cultivars.

HARD WEARING LAWNS (WITH RYEGRASS)

30%	Double	4turf® Tetraploid Perennial Rye
20%	Esquire	Perennial Ryegrass
50%	Maxima	Strong Creeping Red Fescue

Sowing rate: 35-50g/m²

Overseeding: 25-50g/m²

Mowing height: down to 13mm

GroMax treated

4turf®
by DLF



PM52

FINE LAWN



An economical, fine textured mixture, containing both chewings and slender creeping red fescue reduces maintenance, suitable for landscaping and lawns. Contains only STRI UK listed cultivars.

FINE LAWNS (WITHOUT RYEGRASS)

10%	Wagner	Chewings Fescue
20%	Smirna	Slender Creeping Red Fescue
70%	Maxima	Strong Creeping Red Fescue

Sowing rate: 35-50g/m²

Overseeding: 25-50g/m²

Mowing height: down to 13mm

GroMax treated



PM60

GREENSHADE



A top quality mixture designed to produce an excellent wear tolerant turf under shaded conditions. Sabrena 1 rough stalked meadow grass germinates rapidly, providing an exceptionally fine, dense, green growth year round. To ensure successful results, do not mow too closely and feed regularly.

SHADED CONDITIONS (WITHOUT RYEGRASS)

10%	Sabrena 1	Rough Stalked Meadow Grass
30%	Wagner	Chewings Fescue
20%	Smirna	Slender Creeping Red Fescue
40%	Sergei	Strong Creeping Red Fescue

Sowing rate: 35-50g/m²

Overseeding: 25-50g/m²

Mowing height: down to 25mm

GroMax treated



PM65

HEAVY WEAR



This mixture is designed for new courses/grounds and end of season renovation. The deeper root system, improved colour and incredible disease resistance of Tetragame 4turf® tetraploid ryegrass combined with the improved wear tolerance of the diploid ryegrasses deliver a high performance turf.

WINTER SPORTS, RACE COURSES AND POLO GROUNDS

30%	Tetragame	4turf® Tetraploid Perennial Rye
25%	Columbine	Perennial Rye
25%	Gladys	Perennial Rye
20%	Dakisha	Smooth Stalked Meadow Grass

Sowing rate: 35-50g/m²

Overseeding: 25-50g/m²

Mowing height: 75-100mm

GroMax treated

4turf®
by DLF



PM70

RECREATION



A versatile mixture that will produce a very hard wearing sward with a high shoot density suitable for winter and summer games. The introduction of unique 4turf® tetraploid ryegrass delivers the fastest possible establishment, especially important for the rapid renovation of worn turf, plus improved disease resistance and improved drought tolerance thanks to the deeper root system. The perfect mixture to bring your venue back to life following that summer tournament or festival.

SPORTS FIELDS, TEES AND FAIRWAYS AND HARD WEARING LANDSCAPE TURF

10%	Tetragame	4turf® Tetraploid Perennial Rye
25%	Double	4turf® Tetraploid Perennial Ryegrass
10%	Chardin	Perennial Rye
25%	Esquire	Perennial Rye
30%	Sergei	Strong Creeping Red Fescue

Sowing rate: 35-50g/m²

Overseeding: 25-50g/m²

Mowing height: down to 12mm

GroMax treated

4turf®
by DLF



SAFEGUARD YOUR TURF BY CHOICE - NOT BY CHANCE

With the ongoing reduction in curative chemistry, and new and increasing challenges with turf diseases, DLF are committed to utilising their global research network to develop sustainable turfgrass solutions. Bi-annually, turf managers are invited to complete DLF's 'Disease Watch Programme' which seeks to monitor and understand the changing disease landscape across Europe.

DLF use the data from the survey to create scientific independent screening programmes where our portfolio of grasses are evaluated for disease resistance. Based on this, we can create mixtures with the broadest resistance – designed

to give turf managers increased performance and peace of mind. Specifically under the spotlight has been Brown Patch and, during 2023, Grey Leaf Spot.

A significant observation from both programmes was that there are many fungal strains of both Brown Patch and Grey Leaf Spot – the fungal strain determining the severity and impact of the disease attack. While the level of infection varied, there was a distinct consistency to the resistance shown by the individual turf cultivars, namely the outstanding tolerance demonstrated by some of DLF's diploid and 4turf tetraploid perennial ryegrass varieties.

4turf® by DLF

4TURF® GIVES YOU:

- High, proven natural resistance to many turf diseases
- Lower use of fungicide saving time and money and improving environmental credentials
- Improved pitch quality with more playing hours
- Reduced requirement for maintenance operations such as overseeding

BROWN PATCH RESISTANT

BROWN PATCH

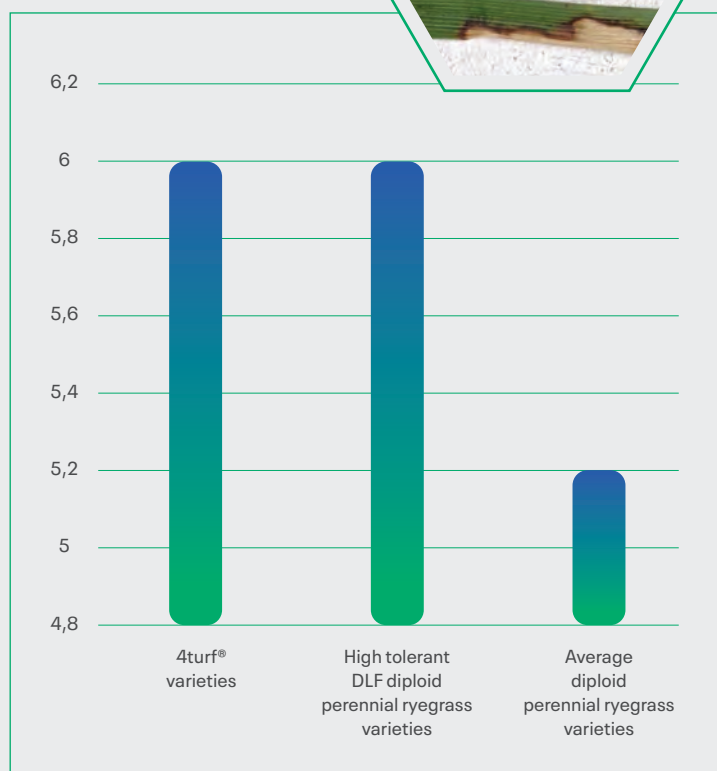
Brown Patch is a turfgrass foliar disease caused by *Rhizoctonia* spp. The fungus can attack all cool-season turfgrasses, but is

most devastating to perennial ryegrasses, bent grass, annual meadow grass and some fescue species. Attacks can be triggered by hot, humid conditions, especially if the grass has been over-stimulated with nitrogen fertiliser. Symptoms are dependent on mowing height, but will traditionally consist of patches varying from tan to dark brown. In severe cases, total loss of grass cover can result.

DLF were able to determine with confidence that the 4turf® varieties are significantly more resistant to Brown Patch which correlates with the results seen in other disease trials when 4turf® species have performed strongly against a number of different fungal diseases.

They also identified specific DLF diploid perennial ryegrass varieties that demonstrated good resistance to Brown Patch.

AVERAGE BROWN-PATCH TOLERANCE SCORE



GREY LEAF SPOT

Grey Leaf Spot has been discovered in different locations across southern and central Europe, known to cause significant damage to stadium pitches. In the UK, cases have primarily been reported during, or just after, the renovation phases. Caused by *Pyricularia oryzae* it is known to attack both cool and warm season grasses, primarily perennial ryegrass and tall fescue where seedlings up to 5 weeks are especially susceptible. Symptoms begin as small, irregularly shaped, greyish-brown lesions which enlarge and/or elongate as the disease progresses. As the lesions enlarge, they may change colour and/or coalesce, leading to extensive blighting of the turfgrass and a thinning and weakened turf.

The trials for Grey Leaf Spot took place in three international locations, rating grass varieties against a number of genetically different GLS fungal isolates, some of them gathered from venues across Europe. The results highlighted top performing diploid and tetraploid perennial ryegrass cultivars – particularly Fiesta 4 and the 4turf® variety Fabian, proven to have a degree of natural resistance to GLS.



With such a broad variety of fungal genotypes posing a significant threat to your turf, using mixtures with varieties proven to have high overall disease resistance, tested against a number of strains with different pathogenicity, is critical. This will help to retain a better quality pitch that can withstand the pressure of more playing hours with a reduced need for chemical inputs. Using mixtures from the Johnsons Sports Seed range, incorporating 4turf® and specific diploid varieties with proven increased disease resistance, provides a natural solution against Brown Patch, Grey Leaf Spot and other common turf grass diseases.

PM79

PLAYING FIELD



The introduction of Double 4turf® tetraploid ryegrass from DLF delivers fast establishment, improved colour, drought tolerance, nitrogen efficiency and incredible disease resistance! A good quality, economical sports field renovation mixture.

Contains only STRI UK listed cultivars. Delivers great results & value.

SPORTS FIELD RENOVATION

50%	Double	4turf® Tetraploid Perennial Ryegrass
20%	Platinum	Perennial Rye
30%	Esquire	Perennial Rye

Sowing rate: 35-75g/m²

Overseeding: 25-75g/m²

Mowing height: down to 25mm

GroMax treated

4turf®
by DLF



PM80

RENOVATOR



An ideal mixture for the renovation of worn playing surfaces. Tetragame 4turf® tetraploid ryegrass introduces the latest genetics from DLF ensuring that PM 80 will establish rapidly with improved colour, drought tolerance, nitrogen efficiency and incredible disease resistance! The inclusion of Chardin perennial ryegrass provides excellent colour and shoot density. An ideal mixture for the renovation of worn playing surfaces.

SPORTS FIELD RENOVATION

25%	Tetragame	4turf® Tetraploid Perennial Rye
25%	Chardin	Perennial Rye
30%	Platinum	Perennial Rye
20%	Columbine	Perennial Rye

Sowing rate: 35-50g/m²

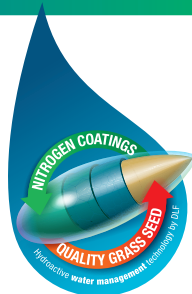
Overseeding: 15-25g/m²

Mowing height: down to 25mm

GroMax treated

4turf®
by DLF

ProNitro® coated option available



PM81

PREMIER RENOVATION



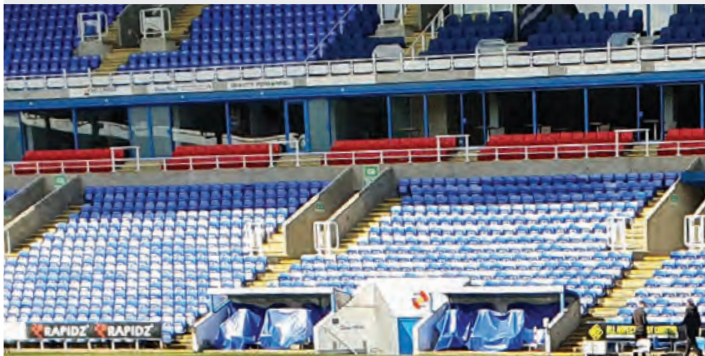
PM 81 incorporating top rated Alatheia & Gildara perennial ryegrass gives unrivalled sward density and wear tolerance. Fabian & Tetragame 4turf® tetraploid ryegrass introduces the latest genetics from DLF ensuring that PM 81 will establish rapidly with improved colour, drought tolerance, nitrogen efficiency and incredible disease resistance! A mixture suitable for new builds and the renovation of top performance winter sports pitches.

SPORTS FIELD RENOVATION

10%	Tetragame	4turf® Tetraploid Perennial Rye
10%	Fabian	Perennial Ryegrass
20%	Eurodiamond	Perennial Ryegrass
20%	Alatheia	Perennial Ryegrass
20%	Gildara	Perennial Ryegrass
20%	Columbine	Perennial Ryegrass
Sowing rate: 35-75g/m ²		
Overseeding: 25-75g/m ²		
Mowing height: down to 25mm		

GroMax treated

4turf®
by DLF



PM82

MICROCLOVER SPORT



Microclover Sport has been developed to improve turf quality and be kind to the environment through reduced herbicide, fertiliser use and lower carbon footprint. The Microclover is able to fix free nitrogen from the atmosphere. In independent trials Microclover Sport is proven to produce a sward with increased wear tolerance, disease resistance, colour and a higher visual merit, especially in drought or other high stress environments.

SPORTS AND PLAYING FIELDS, REDUCED INPUT COSTS

30%	Platinum	Perennial Ryegrass
40%	Double	4turf® Tetraploid Perennial Ryegrass
25%	Esquire	Perennial Ryegrass
5%		Microclover

Sowing rate: 25-50g/m²

Overseeding: 15-50g/m²

Mowing height: down to 25mm

GroMax treated

4turf®
by DLF



PM85

ROAD VERGE



This mixture is ideally suited for road verges where the soil may not be of the best quality and where quick establishment, short growth, and some salt and exhaust fume tolerance are called for. 4turf® perennial ryegrass ensures fast establishment, deeper rooting, improved drought tolerance and nitrogen efficiency. 4turf® perennial ryegrass also provides the perfect nurse crop. The inclusion of Samanta slender creeping red fescue increases the mixture's tolerance to salinity.

ROAD VERGES

25%	Double	4turf® Tetraploid Perennial Ryegrass
40%	Maxima	Strong Creeping Red Fescue
15%	Smirna	Slender Creeping Red Fescue
15%	Dumas	Hard Fescue
2.5%	Highland	Browntop Bent
2.5%	Galway	Small White Clover

Sowing rate: 10-20g/m²

Overseeding: 10g/m²

Mowing height: as necessary or twice/year to 75-100mm

GroMax treated

4turf®
by DLF



PM90

COASTAL



The protection of our coastline is of paramount importance and the above mix is versatile enough to suit both flat and sloping aspects, able to produce a sward tolerant of salt laden winds. Double 4turf® tetraploid ryegrass is used for its rapid establishment and improved salt tolerance over standard diploid amenity rye grasses.

COASTAL SITES

20%	Double	4turf® Tetraploid Perennial Ryegrass
25%	Smirna	Slender Creeping Red Fescue
22%	Maxima	Strong Creeping Red Fescue
20%	Dumas	Hard Fescue
10%		Saltmarsh Grass
3%	Kromi	Creeping Bent

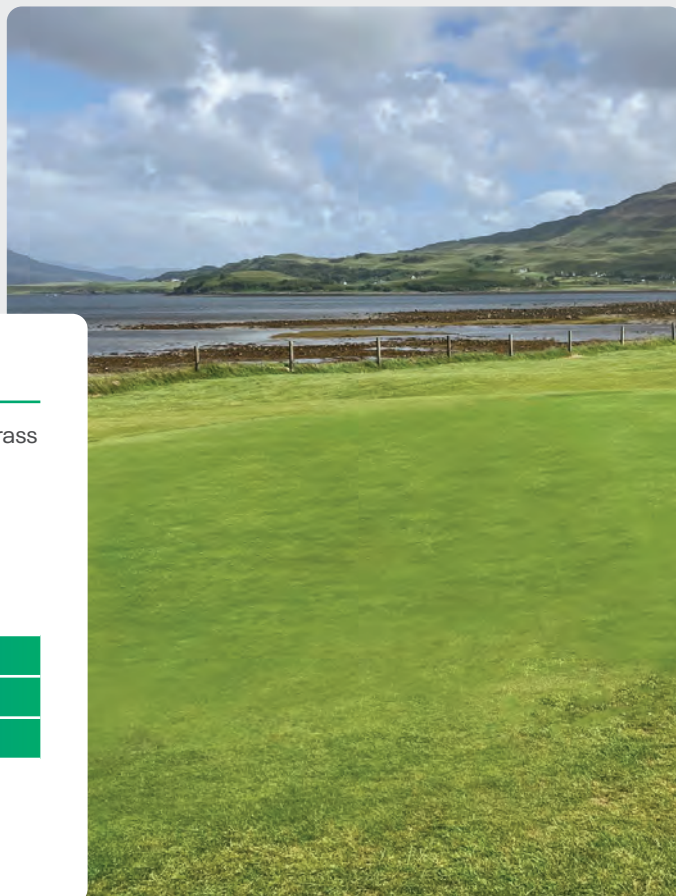
Sowing rate: 35g/m²

Overseeding: 25g/m²

Mowing height: down to 12mm

GroMax treated

4turf®
by DLF



PM95

WITH RYE



Land reclamation mixture suitable for landfill/quarry sites and soil heaps. The cultivars chosen represent the best that are commercially available. The perennial ryegrass will establish quickly and act as a nurse crop whilst the broad range of adaptable low maintenance species provide excellent tolerance to environmental stresses.



LAND RECLAMATION INFERTILE, DROUGHT, ACID TO ALKALINE

30%	Double	4turf® Tetraploid Perennial Ryegrass
25%	Smirna	Slender Creeping Red Fescue
20%	Dumas	Hard Fescue
10%		Crested Dogstail
10%	Highland	Browntop Bent
2.5%		Small Leaved White Clover
2.5%		Birdsfoot Trefoil

Sowing rate: 10-20g/m²

Overseeding: 10g/m²

Mowing height: versatile, light grazing or mow as required down to 75mm

GroMax treated

4turf®
by DLF

PM105

FERTILITY

PM 105 Pioneer mixture is ideally suited to land reclamation sites where short term cover is required or where fertility and soil structure needs to be improved.



FERTILITY BUILDING PIONEER MIX

15%	Alsike White Clover
15%	Red Clover
25%	White Clover
20%	Yellow Trefoil
25%	Birdsfoot Trefoil

Sowing rate: 5g/m²

GroMax treated

PRO FLORA 110

FLORASCAPE

This mix contains a wide range of wild flowers, formulated to meet a demand for creating an economical, floristically diverse sward.

For full specification see Pro Flora section - page 59.

LOW MAINTENANCE LANDSCAPE WITH WILD FLORA

5%	Browntop Bent
19%	Crested Dogstail
19%	Chewings Fescue
19%	Hard Fescue
9%	Smooth Stalked Meadow Grass
24%	Strong Creeping Red Fescue
5%	Wild Flora

Sowing rate: 5-8g/m², 50-80kg/ha

Mowing height: once or twice a year to no lower than 100mm



PM120

SLOWGROWTH



The cultivar Claudine is the key to the mixture. Claudine has an excellent rating for slow regrowth, significantly reducing mowing costs. The new mixture is ideal for use in a variety of landscape situations, including, housing estates, road verges, parkland and play areas, establishing rapidly to provide a dense and attractive reduced maintenance surface.

LANDSCAPE, PARKLAND AND PLAY AREAS

60%	Claudine	Perennial Rye
35%	Sarolea	Slender Creeping Red Fescue
5%	Highland	Browntop Bent

Sowing rate: 35-50g/m²

Overseeding: 25g/m²

Mowing height: 12-50mm as necessary

GroMax treated



PM125

CLEARSKY

Authorities responsible for the safety of aircraft have been concerned with the danger of damage caused by aircraft striking birds while in flight. Methods of reducing this have been sought, which has brought about the introduction of "Long Grass Management". Tall fescue was found to be the most suitable species for a long grass policy due to its erect stiff habit of growth. It is a highly persistent, frost and drought resistant species, and when managed at an optimum mown height of 150mm, the most suited to long grass management. New turf type annual ryegrass Quickston provides the quickest germination and groundcover, and acts a nurse crop for the Tall fescue.

AIRPORT LANDSCAPE AND BIRD STRIKE MIX

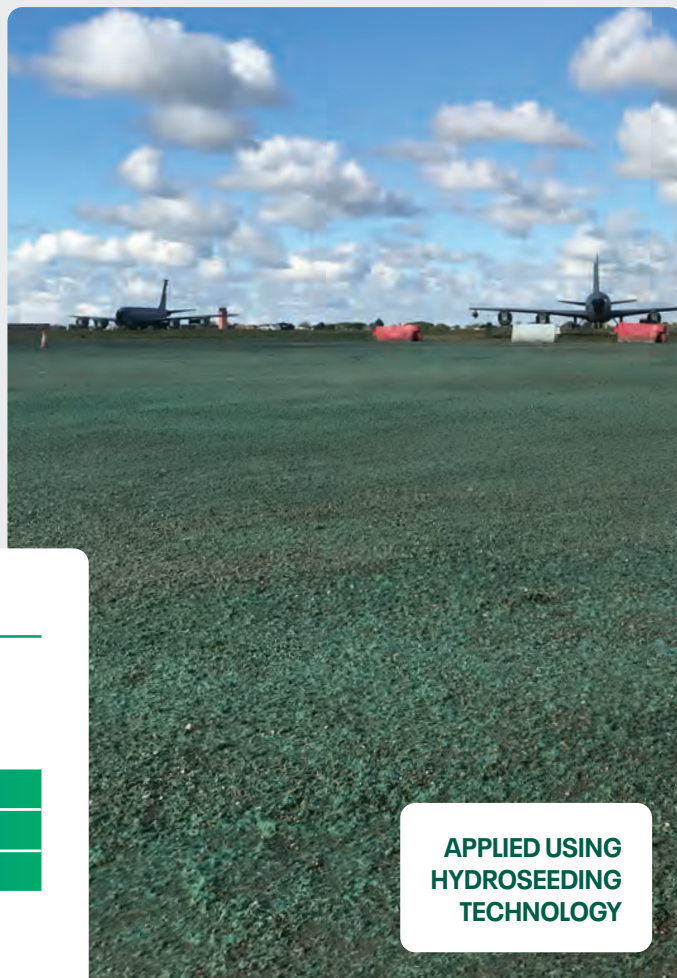
20%	Debussy	Tall Fescue
75%	Essential	Tall Fescue
5%	Quickston	Annual Ryegrass

Sowing rate: 20g/m²

Overseeding: 10g/m²

Mowing height: 150mm optimum height requirement

GroMax treated



**APPLIED USING
HYDROSEEDING
TECHNOLOGY**

HORSEMAX

Paddock

Long term horse grazing with an option to produce a quality hay crop. HorseMax Paddock is designed using diploid Perennial Ryegrasses, Timothy and Creeping Red Fescue. Sward density is a key consideration as both grazing and winter feed are often produced from the same area. Timothy is much favoured by horses and in particular gives hay a sweet smell and is very palatable. Creeping Red Fescue is key to binding the sward together and because of its growth habit quickly repairs the turf when damaged by hooves.

Paddock, Grazing Mix

15%	Calvano 1	Intermediate Perennial Rye
30%	Boyne	Intermediate Perennial Rye
25%	Toddington	Late Perennial Rye
20%	Maxima	Creeping Red Fescue
10%	Comer	Timothy

Pack size: 10kg bag (37 – 50kg/Ha)

GroMax treated



PRO TURF 1

(WITH RYE)

The inclusion of Fabian 4turf® tetraploid ryegrass introduces the latest genetics from DLF, delivering fast establishment, improved colour, drought tolerance, nitrogen efficiency and incredible disease resistance!

A top class mixture providing a high quality, hard wearing turf. The inclusion of Chardin & Chloe ryegrass combines all of the benefits associated with modern turf perennials, incredible fineness of leaf, shoot density and exceptional visual merit.



HIGH QUALITY LANDSCAPE TURF

10%	Chardin	Perennial Rye
10%	Chloe	Perennial Rye
5%	Fabian	4turf® Tetraploid Perennial Rye
35%	Rossinante	Strong Creeping Red Fescue
10%	Nigella	Slender Creeping Red Fescue
10%	Esparina	Chewings Fescue
20%	Dakisha	Smooth Stalked Meadow Grass

Sowing rate: 25g/m²

Mowing height: down to 20mm

Harvest: 6-12 months

GroMax coating available

4turf®
by DLF

PRO TURF 2

(WITH RYE)

The inclusion of Fabian 4turf® tetraploid ryegrass introduces the latest genetics from DLF, delivering fast establishment, improved colour, drought tolerance, nitrogen efficiency and incredible disease resistance!

A top class mixture providing a high quality, hard wearing turf. The inclusion of Chardin combines all of the benefits associated with modern turf perennials, incredible fineness of leaf and shoot density. The high proportion of creeping red fescue provides a rhizomatous root structure increasing root strength, making the resultant turf more resistant to damage when lifting.



HIGH QUALITY LANDSCAPE TURF

15%	Chardin	Perennial Rye
10%	Fabian	4turf® Tetraploid Perennial Rye
45%	Sergei	Strong Creeping Red Fescue
20%	Archibal	Slender Creeping Red Fescue
10%	Esparina	Chewings Fescue

Sowing rate: 25g/m²

Mowing height: down to 20mm

Harvest: 6-12 months

GroMax coating available

4turf®
by DLF

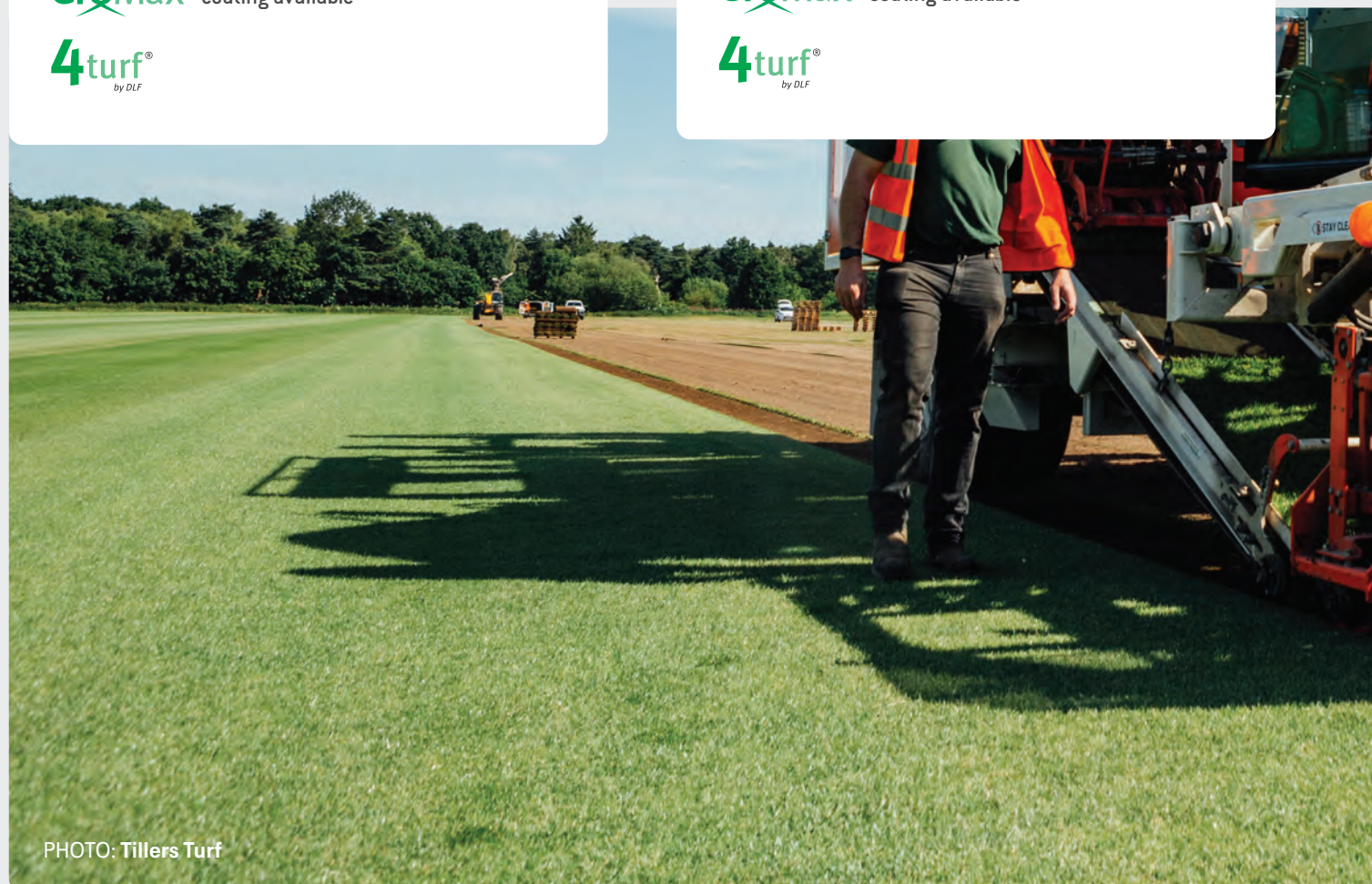


PHOTO: Tillers Turf

PRO TURF 3

(WITH RYE ECONOMY)

The inclusion of Double and new Tetragame 4turf® tetraploid perennial ryegrass introduces the latest genetics from DLF, delivering fast establishment, improved colour, drought tolerance, nitrogen efficiency and incredible disease resistance! A good, general purpose turf mixture, which will establish quickly and provide a hardwearing landscape turf, which will not be too demanding with regard to maintenance. New tetraploid rye grass provides improved colour, drought tolerance and disease resistance.

LANDSCAPE TURF

15%	Double	4turf® Tetraploid Perennial Rye
15%	Tetragame	4turf® Tetraploid Perennial Rye
45%	Sergei	Strong Creeping Red Fescue
10%	Sarolea	Slender Creeping Red Fescue
15%	Wagner	Chewings Fescue

Sowing rate: 25g/m²

Mowing height: down to 20mm

Harvest: 6-12 months

GroMax coating available

4turf®
by DLF

PRO TURF 4

(WITHOUT RYE)

A mixture of the best varieties ensures the production of a truly first class traditional lawn turf. An important pre requisite is a clean seed bed, free from coarse species, so that the full benefit of the short, fine varieties can be seen.



FINE TURF

25%	Nigella	Slender Creeping Red Fescue
25%	Seroa	Slender Creeping Red Fescue
25%	Humboldt	Chewings Fescue
25%	Bogart	Chewings Fescue

Sowing rate: 25g/m²

Mowing height: 15-25mm

Harvest: 6-12 months

GroMax coating available



PURITY YOU CAN RELY ON



GUARANTEED SEED PURITY YOU CAN RELY ON

THE PUREST SEED ON THE MARKET

To give you the purest seed on the market we had to set new standards of quality control – to define levels of purity that exist nowhere else.

For our most demanding level of purity – our superior quality, S-grade – we applied a tenfold increase to the standard sample size. DLF Select S-grade seed is for customers who demand the extraordinary.

Our DLF Select 00-grade gives you the highest purity and quality based on a standard seed sample of 2500 seeds. The 00 grade has 0,0% contamination of other seeds, giving you a 100% clean seed sample.

Our professional grade A offers a significant improvement in quality over standard EU-certified seed. It is free of coarse grasses and has a low level of Poa species.

A STABLE AND RELIABLE SOURCE OF HIGH-PERFORMANCE, HIGH-PURITY TURF SEED

DLF is a world leader in the supply of high-performance seed to turf managers for whom quality and purity are essential. Our turf seed has been chosen for four of the world's most high-profile football tournaments, for international golf championships such as the Phoenix Open, and by many of the world's leading turf producers.

The market is becoming ever-more demanding as customer needs and expectations increase. A changing climate and tougher weed-control regulations make high standards of purity ever harder to achieve. DLF Select is our response to this market need. DLF Select brings stability to the high-purity seed market. You now have regular access to the highest-purity seed stocks you demand.

QUALITY GRADES

Quality category code	Specification
S1	10x analysis 0 other seeds
S2	10x analysis 0 Poa trivialis Max TR* Poa annua 0 coarse grasses
00	Standard purity analysis 0,0% other seeds
00X	Standard purity analysis Max 0,5% Vulpia sp. 0,0% other seed
A1	Standard purity analysis Max 0,5% Vulpia sp. Max 0,1% other seeds Max TR Poa annua 0,0% Poa trivialis 0,0% coarse grasses
A2	Standard purity analysis Max 0,5% Vulpia sp. Max 0,2% other seeds Max 0,1% Poa annua + Poa trivialis 0,0% coarse grasses
EU	According to EU rules and standards



* The exact number of seeds accepted must be agreed upon between customer and DLF



WILD FLORA

Wildflower mixtures suitable for amenity landscaping and habitat recreation

In order to meet with the increasing demand for conservation mixtures we have formulated seventeen seed mixtures, each designed to recreate a site specific habitat.



PRO FLORA RANGE

ORIGIN

The wild flowers used in the Wild Flora range are guaranteed to be UK Native Origin.

TECHNICAL SUPPORT

Our experienced team is available to provide advice on mixture selection and site management. For larger projects site visits followed by a written report are available.

CONTRACT GROWING SERVICE

DLF Seeds has many years experience in the contract production of wild flower seed and plants. This is particularly relevant where extremely large quantities or unusual/rare species are required.

SPECIAL MIXTURE SERVICE

Whilst our standard mixtures will cater for most situations we are always pleased to advise upon and produce mixtures to your own specification.



PRO FLORA 1

CORNFIELD ANNUALS



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
50	Corn Cockle	<i>Agrostemma githago</i>	60-120	Purple	June - Aug
25	Corn Flower	<i>Centurea cyanus</i>	30-60	Blue	June - Aug
10	Corn Marigold	<i>Chrysanthemum segetum</i>	15-45	Yellow	June - Oct
10	Corn Poppy	<i>Papaver rhoeas</i>	30-60	Red	June - Sept
5	Corn Chamomile	<i>Anthemis arvensis</i>	15-50	White	June - July

80% GRASSES:

5	Browntop Bent	<i>Agrostis capillaris</i>	10-70
25	Crested Dogtail	<i>Cynosurus cristatus</i>	5-75
20	Hard Fescue	<i>Festuca trachyphylla</i>	15-70
10	Sheeps Fescue	<i>Festuca ovina</i>	20-60
30	Red Fescue	<i>Festuca rubra</i>	15-90
10	Smooth Stalked Meadow Grass	<i>Poa pratensis</i>	10-90

Sowing rate: 5g/m²



PRO FLORA 2

ACID SOILS



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
1	Betony	Stachys officianlis	30-80	Purple	June - Sept
1	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	June - Aug
9	Black Knapweed	Centaurea nigra	30-80	Purple	June - Sept
2	Common Cats Ear	Hypochaeris radicata	15-60	Yellow	June - Sept
2	Common Storksbill	Erodium cicutarium	5-30	Pink	April - Sept
1	Devils Bit Scabious	Succisa pratensis	20-80	Lilac	July - Sept
2	Foxglove	Digitalis purpurea	50-150	Purple	June - Sept
9	Fragrant Agrimony	Agrimonia procera	40-150	Yellow	June - Aug
5	Greater Birdsfoot Trefoil	Lotus uliginosus	50-60	Yellow	June - Aug
2	Heath Bedstraw	Galium saxatile	5-30	White	June - Sept
11	Lady's Bedstraw	Galium verum	50-80	Yellow	June - Sept
11	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
6	Oxeye Daisy	Leucanthernum vulgare	20-100	White	May - Oct
6	Ragged Robin	Lychnis flos-cuculi	30-80	Red	May - June
2	Sheeps Sorrel	Rumex acetosella	30-100	Pink	May - June
4	Sneezewort	Achillea ptarmica	20-150	White	July - Sept
6	Sorrel	Rumex acetosa	30-100	Pink	May - July
7	Tufted Vetch	Vicia cracca	100-200	Purple	June - Aug
6	Yarrow	Achillea millefolium	20-45	White	June - Oct
7	Yellow Rattle	Rhianthus minor	15-40	Yellow	May - Aug
80% GRASSES:					
5	Browntop Bent	Agrostis capillaris	10-70		
3	Sweet Vernal Grass	Anthoxanthum odoratum	10-100		
38	Crested Dogtail	Cynosurus cristatus	5-75		
4	Wavy Hairgrass Grass	Deschampsia flexuosa	20-100		
10	Sheeps Fescue	Festuca ovina	20-60		
40	Chewings Fescue	Festuca rubra commutata	20-100		

Sowing rate: 5g/m²



PRO FLORA 3

DAMP SOILS



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
2	Autumn Hawkbit	Leontodon autumnalis	30-50	Yellow	Aug - Oct
1	Betony	Stachys officinalis	30-80	Purple	June - Sept
2	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	June - Aug
12	Black Knapweed	Centaurea nigra	30-80	Purple	June - Sept
2	Goatsbeard	Tragapogon pratensis	30-60	Yellow	June - Sept
2	Great Burnet	Sanguisorba officinalis	40-90	Red	June - Sept
13	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
1	Meadow Cranesbill	Geranium pratense	30-60	Blue	June - Sept
4	Meadow Vetchling	Lathyrus pratensis	80-100	Yellow	May - Aug
8	Ox-Eye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
1	Pepper Saxifrage	Silaum silus	50-75	White	June - Aug
2	Rough Hawkbit	Leontodon hispidus	20-40	Yellow	June - Sept
14	Selfheal	Prunella vulgaris	5-20	Purple	June - Sept
6	Sorrel	Rumex acetosa	30-100	Pink	May - July
12	Tufted Vetch	Vicia cracca	100-200	Purple	June - Aug
8	Yarrow	Achillea millefolium	20-45	White	June - Oct
10	Yellow Rattle	Rhianthus minor	15-40	Yellow	May - Aug

80% GRASSES:

5	Browntop Bentgrass	Agrostis capillaris	10-70
15	Chewings Fescue	Festuca rubra commutata	20-90
16	Crested Dogtail	Cynosurus cristatus	5-75
11	Golden Oatgrass	Trisetum flavescens	20-80
7	Meadow Foxtail	Alopecurus pratensis	30-120
16	Sheeps Fescue	Festuca ovina	5-60
20	Slender Creeping Red Fescue	Festuca rubra litoralis	20-100
10	Smooth Stalked Meadow Grass	Poa pratensis	10-90

Sowing rate: 5g/m²



PRO FLORA 4

CALCAREOUS SOILS



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
1	Betony	Stachys officianlis	30-80	Purple	June - Sept
1	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	June - Aug
3	Bladder Campion	Silene vulgaris	20-60	White	May - Sept
9	Bulbous Buttercup	Ranunculus bulbosus	15-35	Yellow	May - Aug
1	Cluster Bellflower	Campanula glomerata	15-50	Blue	June - Oct
1	Common St Johns Wort	Hypericum perforatum	30-100	Yellow	June - Sept
2	Common Toadflax	Linaria vulgaris	50-90	Yellow	June - Oct
1	Cowslip	Primula veris	10-30	Yellow	April - June
2	Dark Mullein	Verbascum nigrum	110-130	Yellow	June - Oct
4	Dropwort	Filipendula vulgaris	60-80	White	June - Aug
7	Greater Knapweed	Centaurea scabiosa	50-90	Purple	July - Aug
1	Hairy St Johns Wort	Hypericum hirsutum	30-100	Yellow	July - Aug
5	Hoary Plantain	Plantago media	10-40	Lilac	May - Aug
6	Kidney Vetch	Anthyllis vulnearia	15-30	Yellow	May - Aug
12	Lady's Bedstraw	Galium verum	50-80	Yellow	June - Sept
11	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
8	Ox-Eye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
2	Small Scabious	Scabiosa columbaria	20-45	Lilac	June - Aug
11	Tufted Vetch	Vicia cracca	100-200	Purple	June - Aug
4	Vipers Gloss	Echium vulgare	30-100	Blue	June - Aug
1	Weld	Reseda luteola	30-100	Yellow	June - Sept
1	Wild Basil	Clinopodium vulgare	30-60	Pink	July - Sept
5	Wild Carrot	Daucus carota	30-100	White	June - Sept
1	Wild Marjoram	Origanum vulgare	20-80	Pink	June - Sept

80% GRASSES:

5	Browntop Bentgrass	Agrostis capillaris	10-70
10	Smooth Stalked Meadow Grass	Poa pratensis	10-90
22	Crested Dogtail	Cynosurus cristatus	5-75
4	Golden Oatgrass	Trisetum flavescens	20-80
1	Quaking Grass	Briza media	15-75
21	Hard Fescue	Festuca trachyphylla	15-70
12	Sheeps Fescue	Festuca ovina	5-60
20	Slender Creeping Red Fescue	Festuca rubra litoralis	20-100
5	Smaller Catstail	Phleum bertolonii	10-50

Sowing rate: 5g/m²



PRO FLORA 5

WET SOILS



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
1	Betony	Stachys officinalis	30-80	Purple	June - Sept
11	Black Knapweed	Centaurea nigra	30-80	Purple	June - Sept
1	Devils Bit Scabious	Succisa pratensis	20-80	Lilac	July - Sept
3	Gipsywort	Lycopus europaeus	30-100	White	July - Sept
5	Greater Birdsfoot Trefoil	Lotus uliginosus	5-40	Yellow	June - Oct
3	Great Burnet	Sanguisorba officinalis	40-90	Red	June - Sept
2	Hemp Agrimony	Erigeron acer	30-180	White	July - Sept
1	Marsh Mallow	Althaea officinalis	90-120	Pink	Aug - Sept
1	Marsh Woundwort	Stachys palustris	20-100	Pink	July - Sept
11	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
6	Meadowsweet	Filipendula ulmaria	50-150	White	June - Aug
9	Ox-Eye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
1	Pepper Saxifrage	Silaum silus	50-75	White	June - Aug
4	Purple Loosestrife	Lythrum salicaria	5-100	Purple	July - Sept
3	Ragged Robin	Lychnis flos-cuculi	30-80	Red	May - June
8	Selfheal	Prunella vulgaris	5-20	Purple	June - Sept
2	Sneezewort	Achillea ptarmica	20-150	White	July - Sept
1	Sq. Stem St. Johns Wort	Hypericum tetrapterum	30-60	Yellow	July - Sept
5	Tufted Vetch	Vicia cracca	100-200	Purple	June - Aug
9	Yellow Flag Iris	Iris psudacorus	60-120	Yellow	May - July
13	Yellow Rattle	Rhinanthus minor	15-40	Yellow	May - Aug
80% GRASSES:					
4	Browntop Bentgrass	Agrostis capillaris	10-70		
20	Chewings Fescue	Festuca rubra commutata	20-90		
19	Crested Dogtail	Cynosurus cristatus	5-75		
6	Meadow Foxtail	Alopecurus pratensis	30-120		
2	Pendulas Sedge	Carex pendula	80-150		
5	Sheeps Fescue	Festuca ovina	5-60		
25	Slender Creeping Red Fescue	Festuca rubra litoralis	20-100		
10	Smooth Stalked Meadow Grass	Poa pratensis	10-90		
1	Soft Rush	Juncus effusus	20-70		
4	Sweet Vernal Grass	Anthoxanthum odoratum	10-100		
4	Tufted Hairgrass	Deschampsia caespitosa	20-200		

Sowing rate: 5g/m²



PRO FLORA 6

DRY SOILS



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
3	Autumn Hawkbit	Leontodon autumnalis	10-60	Yellow	Aug - Oct
2	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	June - Aug
9	Black Knapweed	Centaurea nigra	30-80	Purple	June - Sept
2	Black Medick	Medicago lupulina	15-50	Yellow	May - Sept
3	Bladder Campion	Silene vulgaris	20-60	White	May - Sept
2	Bulbous Buttercup	Ranunculus bulbosus	15-35	Yellow	May - Sept
1	Clustered Bellflower	Campanula glomerata	15-50	Blue	June - Oct
3	Common St Johns Wort	Hypericum perforatum	30-100	Yellow	June - Sept
9	Common Agrimony	Agrimony eupatoria	30-60	Yellow	July - Sept
2	Common Toadflax	Linaria vulgaris	50-90	Yellow	June - Oct
1	Cowslip	Primula veris	5-10	Yellow	April - June
1	Doves Foot Cranesbil	Geranium molle	5-10	Pink	May - Aug
5	Field Scabious	Knautia arvensis	30-90	Lilac	July - Sept
5	Hoary Plantain	Plantago media	10-40	Lilac	May - Aug
2	Great Mullein	Verbascum thapsus	40-200	Yellow	July - Sept
8	Lady's Bedstraw	Galium verum	50-80	Yellow	June - Sept
1	Musk Mallow	Malva moschata	20-80	Pink	July - Oct
6	Ox-Eye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
9	Salad Burnet	Sanguisorba minor	30-90	Yellow	May - Aug
5	Vipers Bugloss	Echium vulgare	30-100	Blue	June - Aug
1	Weld	Reseda luteola	30-100	Yellow	June - Sept
2	Wild Carrot	Daucus carota	30-100	White	June - Sept
7	Yarrow	Achillea millefolium	20-45	White	June - Oct
11	Yellow Rattle	Rhianthus minor	15-40	Yellow	May - Aug
80% GRASSES:					
5	Browntop Bentgrass	Agrostis capillaris	10-70		
25	Chewings Fescue	Festuca rubra commutata	20-90		
21	Crested Dogstail	Cynosurus cristatus	5-75		
4	Golden Oatgrass	Trisetum flavescens	20-80		
5	Sheeps Fescue	Festuca ovina	5-60		
25	Slender Creeping Red Fescue	Festuca rubra litoralis	20-100		
5	Smaller Catstail	Phleum bertolonii	10-50		
10	Smooth Stalked Meadow Grass	Poa pratensis	10-90		

Sowing rate: 5g/m²



PRO FLORA 7

HEDGEROW AND LIGHT SHADE



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
1	Betony	Stachys officianlis	30-80	Purple	June - Sept
3	Columbine	Aquilegia vulgaris	30-100	Purple	May - June
10	Common Agrimony	Agrimony eupatoria	30-60	Yellow	July - Sept
2	Common St Johns Wort	Hypericum perforatum	30-120	Yellow	June - Sept
5	Field Scabious	Knautia arvensis	30-90	Lilac	July - Sept
2	Foxglove	Digitalis purpurea	50-150	Purple	June - Sept
2	Greater Mullein	Verbascum thapsus	40-200	Yellow	July - Sept
1	Hairy St Johns Wort	Hypericum hirsutum	30-100	Yellow	July - Aug
10	Hedge Bedstraw	Galium mollugo	30-160	White	June - Sept
1	Hedge Cranesbill	Geranium pyrenaicum	20-40	Pink	June - Aug
4	Hedge Garlic	Alliaria petiolata	90-125	White	May - Aug
1	Hedge Woundwort	Stachys sylvatica	30-100	Red	July - Aug
1	Lesser Stitchwort	Stellaria graminea	5-40	White	May - July
1	Musk Mallow	Malva moscata	30-80	Pink	May - Aug
1	Nettle Leaved Bellflower	Campanula trachelium	40-80	Blue	July - Sept
6	Ox-Eye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
12	Red Campion	Silene dioica	50-80	Red	May - Sept
14	Selfheal	Prunella vulgaris	5-20	Purple	June - Sept
8	Tufted Vetch	Vicia cracca	100-200	Purple	June - Aug
1	Upright Hedge Parsley	Torilis japonica	80-100	White	July - Aug
1	Wild Basil	Clinopodium vulgare	30-60	Pink	July - Sept
3	Wild Garlic	Allium ursinum	15-50	White	April - June
5	Wood Avens	Geum urbanum	40-60	Yellow	May - June
2	Wood Sage	Teucrium scorodonia	20-30	Yellow	July - Sept
3	Yarrow	Achillea millefolium	20-45	White	June - Oct

80% GRASSES:

5	Browntop Bentgrass	Agrostis capillaris	10-70
25	Chewings Fescue	Festuca rubra commutata	20-90
20	Crested Dogstail	Cynosurus cristatus	5-75
20	Sheeps Fescue	Festuca ovina	5-60
15	Slender Red Fescue	Festuca rubra litoralis	20-100
5	Tufted Hairgrass	Deschampsia caespitosa	20-200
10	Rough Stalked Meadow Grass	Poa trivialis	15-90

Sowing rate: 5g/m²



PRO FLORA 8

LEGACY COUNTRY MEADOW (GENERAL PURPOSE)



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
1	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	Aug - Oct
11	Black Knapweed	Centaurea nigra	30-80	Purple	June - Sept
6	Black Medick	Medicago lupulina	15-50	Yellow	May - Sept
1	Common Vetch	Vicia sativa	20-100	Pink	May - Aug
12	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
1	Musk Mallow	Malva moschata	30-80	Pink	May - Aug
12	Ox-Eye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
5	Ribwort Plantain	Plantago lanceolata	5-50	Brown	May - Sept
11	Red Campion	Silene dioica	50-80	Red	May - Sept
5	Salad Burnet	Sanguisorba minor	30-90	Yellow	May - Aug
15	Self Heal	Prunella vulgaris	5-20	Purple	June - Sept
12	White Campion	Silene alba	30-100	White	May - Sept
8	Yarrow	Achillea millefolium	20-45	White	June - Oct

80% GRASSES:

5	Browntop Bent	Agrostis capillaris	10-70
25	Red Fescue	Festuca rubra	15-90
20	Crested Dogstail	Cynosaurus cristatus	5-75
20	Chewings Fescue	Festuca commutata	20-90
20	Hard Fescue	Festuca trachyphylla	15-70
10	Smooth Stalked Meadow Grass	Poa pratensis	10-90

Sowing rate: 5g/m²



PRO FLORA 9

HERITAGE GENERAL PURPOSE



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
10% WILD FLOWERS:					
4	Agrimony	Agrimonia eupatoria	50-80	Yellow	June - Aug
1	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	June - Aug
7	Black Knapweed	Centaurea nigra	30-80	Purple	June - Sept
2	Common Evening Primrose	Oenothera biennis	80-150	Yellow	June - Sept
1	Common Storksbill	Erodium cicutarium	5-30	Pink	April - Sept
1	Common Vetch	Vicia sativa	20-100	Pink	May - Aug
12	Corncockle	Agrostemma githago	60-120	Purple	June - Aug
5	Corn Feverfew	Matricaria perforata	10-80	White	April - Nov
1	Cowslip	Primula veris	10-30	Yellow	April - June
2	Dovesfoot Cranesbill	Geranium molle	5-10	Pink	May - Aug
2	Field Poppy	Papaver rhoeas	30-60	Red	June - Sept
1	Foxglove	Digitalis purpurea	50-150	Purple	June - Sept
2	Hedge Bedstraw	Galium mollugo	30-160	White	June - Sept
2	Hoary Plantain	Plantago media	10-40	Lilac	May - Aug
3	Lady's Bedstraw	Galium verum	50-80	Yellow	June - Sept
5	Salad Burnet	Sanguisorba minor	20-90	Yellow	May - Sept
4	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
1	Musk Mallow	Malva moschata	20-80	Pink	July - Oct
5	Oxeye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
1	Ragged Robin	Lychnis flos-cuculi	30-80	Red	May - June
3	St Johns Wort	Hypericum perforatum	30-100	Yellow	June - Sept
8	Red Campion	Silene dioica	60-80	Red	May - Sept
5	Ribwort Plantain	Plantago lanceolata	5-50	Brown	May - Sept
5	Selfheal	Prunella vulgaris	5-20	Purple	June - Sept
1	Suckling Clover	Trifolium dubium	15-50	Yellow	May - Sept
1	Wild Carrot	Daucus carota	30-100	White	June - Sept
2	Wild Clary	Salvia verbanaca	40-80	Blue	May - Sept
6	Wild Parsnip	Pastinaca sativa	30-150	Yellow	May - Sept
4	White Campion	Silene alba	30-100	White	May - Sept
2	Wood Avens	Geum urbanum	40-60	Yellow	May - June
1	Yarrow	Achillea millefolium	20-45	White	June - Oct

90% GRASSES:

1	Sweet Vernal Grass	Anthoxanthum odoratum	10-100
2	Meadow Foxtail	Alopercurus pratense	30-120
10	Crested Dogstail	Cynosurus cristatus	5-75
8	Smooth Stalked Meadow Grass	Poa pratensis	10-90
15	Slender Red Fescue	Festuca rubra litoralis	20-100
5	Browntop Bentgrass	Agrostis capillaris	10-70
10	Sheeps Fescue	Festuca ovina	5-60
35	Chewings Fescue	Festuca rubra commutata	20-90
4	Salt Marsh Grass	Puccinella distans	10-60
2	Yellow Oatgrass	Trisetum flavescens	20-80
8	Rough Stalked Meadow Grass	Poa trivialis	20-100

Sowing rate: 5g/m²

PRO FLORA 10

GENERAL PURPOSE PLUS ANNUALS



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
10% WILD FLOWERS:					
1	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	Aug - Oct
6	Black Knapweed	Centaurea nigra	30-80	Purple	June - Sept
2	Black Medick	Medicago lupulina	15-50	Yellow	May - Sept
1	Common Vetch	Vicia sativa	20-100	Pink	May - Aug
7	Corn Cockle	Agrostemma githago	60-120	Purple	June - Aug
5	Corn Flower	Centaurea cyanus	30-60	Blue	June - Aug
5	Corn Marigold	Chrysanthemum segetum	15-45	Yellow	June - Oct
4	Corn Poppy	Papaver rhoeas	30-60	Red	June - Sept
10	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
1	Musk Mallow	Malva moschata	20-80	Pink	May - Aug
10	Ox-Eye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
10	Ribwort Plantain	Plantago lanceolata	5-50	Brown	May - Sept
5	Red Campion	Silene dioica	30-100	Red	May - Sept
13	Self Heal	Prunella vulgaris	5-20	Purple	June - Sept
10	Suckling Clover	Trifolium dubium	15-50	Yellow	May - Sept
5	White Campion	Silene alba	30-100	White	May - Sept
5	Yarrow	Achillea millefolium	20-45	White	June - Oct
90% GRASSES:					
5	Browntop Bent	Agrostis capillaris	10-70		
25	Red Fescue	Festuca rubra	15-90		
20	Crested Dogs Tail	Cynosurus cristatus	5-75		
20	Chewings Fescue	Festuca commutata	30-120		
20	Hard Fescue	Festuca trachyphylla	15-70		
10	Smooth Stalked Meadow Grass	Poa pratensis	10-90		

Sowing rate: 5g/m²



PRO FLORA 11

WOODLAND AND HEAVY SHADE



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
15	Blue Bell	Hyacinthoides non-scripta	10-40	Blue	April - June
4	Columbine	Aquilegia vulgaris	30-100	Purple	May - June
4	Foxglove	Digitalis purpurea	50-150	Purple	June - Sept
1	Greater Stitchwort	Stellaria holostea	20-60	White	March - July
1	Hairy St Johns Wort	Hypericum hirsutum	30-100	Yellow	July - Aug
8	Hedge Bedstraw	Galium mollugo	30-160	White	June - Sept
8	Hedge Garlic	Alliaria petiolata	90-125	White	May - Aug
1	Hedge Woundwort	Stachys sylvatica	30-100	Red	July - Aug
1	Hemp Agrimony	Erigeron acer	30-180	White	July - Sept
8	Meadowsweet	Filipendula ulmaria	50-150	White	June - Aug
1	Nettle-Leaved Bellflower	Campanula trachelium	40-80	Blue	July - Sept
4	Ragged Robin	Lychnis flos-cuculi	30-80	Red	May - June
14	Red Campion	Silene dioica	50-80	Red	May - Sept
13	Selfheal	Prunella vulgaris	5-20	Purple	June - Sept
3	Upright Hedge Parsley	Torilis japonica	80-100	White	July - Aug
6	Wood Avens	Geum urbanum	50-70	Yellow	June - Aug
1	Wild Angelica	Angelica sylvestris	50-200	White	July - Sept
1	Wild Basil	Clinopodium vulgare	30-60	Pink	July - Sept
3	Wild Garlic	Allium ursinum	15-50	White	April - June
3	Wood Sage	Teucrium scorodonia	20-30	Yellow	July - Sept

80% GRASSES:

5	Browntop Bentgrass	Agrostis capillaris	10-70
25	Chewings Fescue	Festuca rubra commutata	20-90
20	Crested Dogstail	Cynosurus cristatus	5-75
10	Sheeps Fescue	Festuca ovina	5-60
15	Slender Creeping Red Fescue	Festuca rubra litoralis	20-100
5	Tufted Hairgrass	Deschampsia caespitosa	20-200
20	Wood Meadowgrass	Poa nemoralis	15-90

Sowing rate: 5g/m²



PRO FLORA 12

WATER MARGIN AND POND EDGES



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
2	Common Fleabane	Pulicaria dysenterica	30-80	Yellow	July - Sept
5	Gipsy Wort	Lycopus europaeus	30-100	White	June - Sept
3	Great Burnet	Sanguisorba officinalis	40-90	Red	June - Sept
8	Greater Birdsfoot Trefoil	Lotus uliginosus	5-40	Yellow	Aug - Sept
2	Hemp Agrimony	Erigeron acer	30-180	White	July - Sept
1	Marsh Mallow	Althaea officinalis	90-120	Pink/White	Aug - Sept
12	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
10	Meadowsweet	Filipendula ulmaria	50-150	White	June - Aug
2	Pepper Saxifrage	Silene silus	50-75	White	June - Aug
6	Purple Loosestrife	Lythrum salicaria	50-100	Purple	July - Sept
3	Ragged Robin	Lychnis flos-cuculi	30-80	Red	May - June
9	Salad Burnet	Sanguisorba minor	20-90	Yellow	May - Sept
12	Self Heal	Prunella vulgaris	5-20	Purple	June - Sept
2	Sneezewort	Achillea ptarmica	20-150	White	July - Sept
1	Square Stemmed St Johns. Wort	Hypericum tetrapetrum	30-60	Yellow	July - Sept
6	Tufted Vetch	Vicia cracca	100-200	Purple	June - Aug
2	Water Avens	Geum rivale	60-80	Pink	April - July
14	Yellow Flag Iris	Iris pseudacorus	60-120	Yellow	May - July

80% GRASSES:

5	Browntop Bentgrass	Agrostis capillaris	10-70
1	Soft Rush	Juncus effusus	20-70
32	Crested Dogtail	Cynosurus cristatus	5-75
10	Meadow Foxtail	Alopecurus pratensis	30-120
1	Pendulous Sedge	Carex pendula	60-180
7	Rough Stalked Meadow Grass	Poa trivialis	20-100
10	Sheeps Fescue	Festuca ovina	5-60
25	Slender Creeping Red Fescue	Festuca rubra litoralis	20-100
4	Sweet Vernal	Anthoxanthum odoratum	10-100
5	Tufted Hairgrass	Deschampsia caespitosa	20-200

Sowing rate: 5g/m²



PRO FLORA 13

SPECIES RICH LAWN AND LANDSCAPE



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
2	Autumn Hawkbit	Leontodon autumnalis	30-50	Yellow	Aug - Oct
3	Black Medick	Medicago lupulina	15-50	Yellow	May - Sept
2	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	June - Aug
7	Bulbous Buttercup	Ranunculus bulbosus	15-35	Yellow	May - Aug
2	Common Cats Ear	Hypochaeris radicata	15-60	Yellow	June - Sept
1	Common Mouse Ear	Cerastium fontanum	10-60	White	April - Nov
1	Cowslip	Primula veris	10-30	Yellow	April - June
1	Field Pansy	Viola arvensis	10-39	Yellow/Violet	April - Oct
7	Hoary Plantain	Plantago media	5-30	Lilac	May - Aug
8	Kidney Vetch	Anthyllis vulnearia	15-30	Yellow	May - Aug
11	Lady's Bedstraw	Galium verum	50-80	Yellow	June - Sept
14	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
2	Native Red Clover	Trifolium pratense	20-60	Red/Purple	May - Oct
2	Native White Clover	Trifolium repens	20-50	White	May - Oct
9	Oxeye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
2	Rough Hawkbit	Leontodon hispidus	20-40	Yellow	June - Sept
14	Selfheal	Prunella vulgaris	5-20	Purple	June - Sept
5	Sorrel	Rumex acetosa	30-100	Pink	May - July
7	Yarrow	Achillea millefolium	20-45	White	June - Oct
80% GRASSES:					
4	Browntop Bent	Agrostis capillaris	10-70		
27	Crested Dogtail	Cynosurus cristatus	5-75		
25	Sheeps Fescue	Festuca ovina	5-60		
20	Slender Creeping Red Fescue	Festuca rubra litoralis	20-100		
5	Small Timothy	Phleum bertolonii	10-50		
15	Smooth Stalked Meadow Grass	Poa pratensis	10-90		
4	Sweet Vernal	Anthoxanthum odoratum	10-100		

Sowing rate: 5g/m²



PRO FLORA 14

TALL HERB AND TUSsock



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
8	Black Knapweed	<i>Centaurea nigra</i>	30-80	Purple	June - Sept
9	Common Agrimony	<i>Agrimony eupatoria</i>	30-60	Yellow	July - Sept
3	Cow Parsley	<i>Anthriscus sylvestris</i>	40-150	White	April - June
4	Greater Knapweed	<i>Centaurea scabiosa</i>	50-90	Purple	July - Aug
10	Hedge Bedstraw	<i>Galium mollugo</i>	30-160	White	June - Sept
5	Lesser Burdock	<i>Arctium minus</i>	50-150	Purple	July - Sept
0.5	Meadow Cranesbill	<i>Geranium pratense</i>	30-60	Blue	June - Sept
3	Musk Mallow	<i>Malva moschata</i>	20-80	Pink	May - Aug
6	Ox-Eye Daisy	<i>Leucanthemum vulgare</i>	20-100	White	May - Oct
5	Ribwort Plantain	<i>Plantago lanceolata</i>	5-50	Brown	May - Sept
12	Red Campion	<i>Silene dioica</i>	30-100	Red	May - Sept
8	Salad Burnet	<i>Sanguisorba minor</i>	30-90	Yellow	May - Aug
10	Self Heal	<i>Prunella vulgaris</i>	5-20	Purple	June - Sept
6.5	Teasel	<i>Dipsacus fullonum</i>	50-200	Pale Purple	July - Sept
5	Wild Carrot	<i>Daucus carota</i>	30-100	White	June - Sept
5	Yarrow	<i>Achillea millifolium</i>	20-45	White	June - Oct

80% GRASSES:

12	Cocksfoot	<i>Dactylis glomerata</i>	15-140
25	Crested Dogs Tail	<i>Cynosurus cristatus</i>	5-75
10	Meadow Fescue	<i>Festuca pratensis</i>	30-120
3	Meadow Foxtail	<i>Alopecurus pratensis</i>	30-120
10	Sheeps Fescue	<i>Festuca ovina</i>	5-60
14	Red Fescue	<i>Festuca rubra</i>	15-90
8	Tall Fescue	<i>Festuca arundinacea</i>	45-200
5	Tall Oat Grass	<i>Arrhenatherum elatius</i>	50-150
10	Timothy	<i>Phleum pratense</i>	40-150
3	Yorkshire Fog	<i>Holcus lanatus</i>	20-100

Sowing rate: 5g/m²



PRO FLORA BEST SELLERS

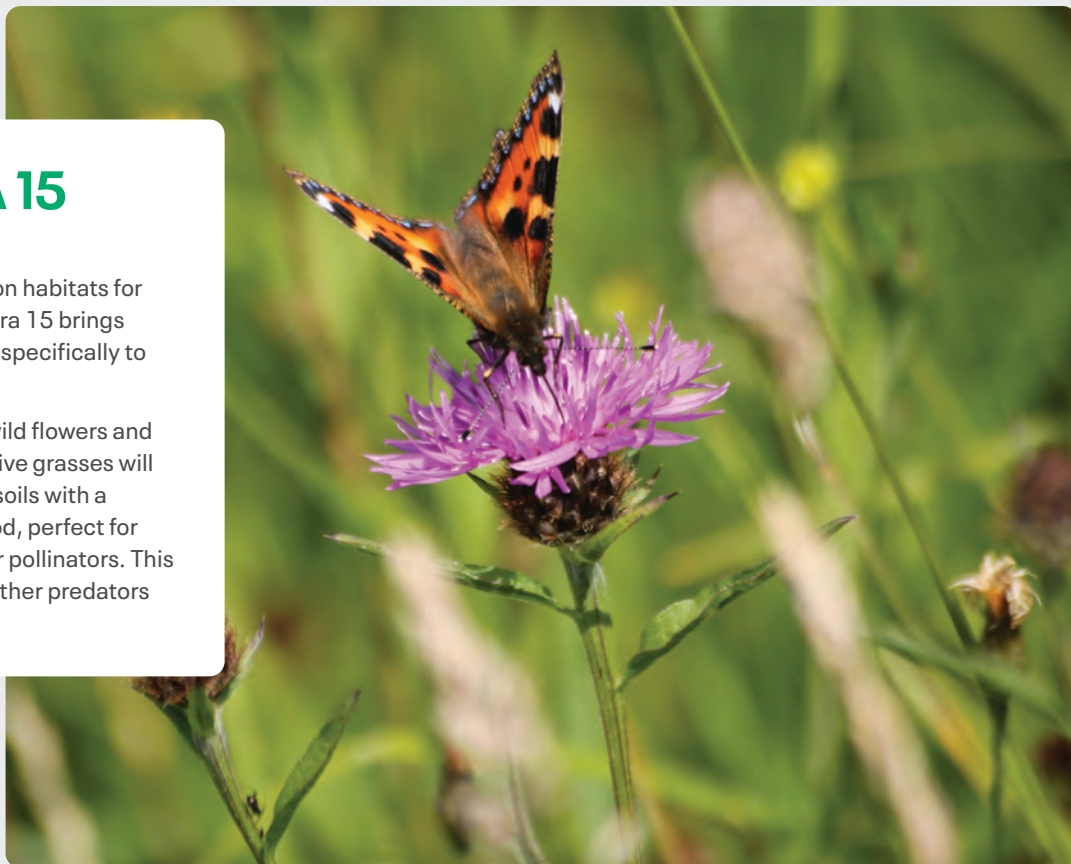
2023

PRO FLORA 15

POLLINATOR

With increased pressure on habitats for pollinating insects Pro Flora 15 brings together a mix of species specifically to attract pollinators.

This mix of native origin wild flowers and fine leaved non-competitive grasses will thrive on a wide range of soils with a prolonged flowering period, perfect for bees butterflies and other pollinators. This mixture will also benefit other predators higher up the food chain



PRO FLORA 16

COASTAL

Many of our coastal areas are under threat from the sea and the activities of humans, Pro Flora 16 provides a solution for land managers either restoring areas near the coast or improving areas of poor quality land.

Regenerating these areas can also help with erosion control and improve biodiversity, providing habitats for coastal dwelling species of insect and invertebrate. With the careful selection of location this mix also provides an opportunity for coastal golf courses to improve diversity and create habitats.



PRO FLORA 15

POLLINATOR



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
4.5	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	June - Sept
15	Black Knapweed	Centaurea nigra	30-80	Purple	June - Aug
0.5	Devils bit Scabious	Succisa pratensis	20-80	Lilac	July - Sept
0.5	Field Scabious	Knautia arvensis	30-90	Lilac	July - Sept
5	Kidney Vetch	Anthyllis vulnearia	15-30	Yellow	May - Aug
10	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
12	Oxeye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
2.5	Red Clover	Trifolium pratensis	10-30	Red	May - Aug
20	Sainfoin	Onobrychis viciifolia	30-60	Pink	May - Sept
15	Selfheal	Prunella vulgaris	5-20	Blue	June - Sept
2.5	Tufted Vetch	Vicia cracca	100-200	Blue	June - Aug
2.5	Vipers Bugloss	Echium vulgare	30-100	Blue	June - Aug
7.5	Wild Carrot	Daucus carota	30-100	White	June - Sept
2.5	Wild Clary	Salvia verbenaca	40-80	Blue	May - Sept

80% GRASSES:

5	Browntop Bent	Agrostis capillaris	10-70
34	Chewings Fescue	Festuca rubra commutata	30-120
35	Crested Dogtail	Cynosurus cristatus	5-75
3	Meadow Foxtail	Alopecurus pratensis	30-120
20	Smooth Stalked Meadow Grass	Poa pratensis	10-90
3	Sweet Vernal Grass	Anthoxanthum odoratum	10-100

Sowing rate: 5g/m²



PRO FLORA 16

COASTAL AND LANDSCAPE



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
20% WILD FLOWERS:					
5	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	June - Sept
1	Bladder Campion	Silene vulgaris	20-60	White	May - Sept
15	Black Knapweed	Centaurea nigra	30-80	Purple	June - Aug
0.5	Catsear	Hypochaeris radicata	15-60	Yellow	June - Sept
1	Common St Johns wort	Hypericum perforatum	30-100	Yellow	June - Sept
1	Evening Primrose	Oenothera biennis	50-120	Yellow	June - Sept
2	Greater Knapweed	Centaurea scabiosa	50-90	Purple	July - Aug
7.5	Kidney Vetch	Anthyllis vulnearia	15-30	Yellow	May - Aug
3	Ladys Bedstraw	Galium verum	50-80	Yellow	June - Sept
15	Oxeye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
0.5	Red Clover	Trifolium pratensis	10-30	Red	May - Aug
10	Ribwort Plantain	Plantago lanceolata	5-50	Brown	May - Sept
18	Selfheal	Prunella vulgaris	5-20	Blue	June - Sept
7	Sheeps Sorrel	Rumex acetosella	10-45	Red	June - Aug
2.5	Vipers Bugloss	Echium vulgare	30-100	Blue	June - Aug
5	Wild Carrot	Daucus carota	30-100	White	June - Sept
6	White Campion	Silene alba	30-100	White	May - Sept

80% GRASSES:

19	Crested Dogstail	Cynosurus cristatus	10-70
6	Creeping Bent	Agrostis stolonifera	10-70
18	Sheeps Fescue	Festuca ovina	5-60
25	Slender Red Fescue	Festuca rubra litoralis	30-120
12	Small Timothy	Phleum bertolonii	20-50
10	Saltmarsh Grass	Puccinellia maritima	5-80
10	Smooth Stalked Meadow Grass	Poa pratensis	10-90

Sowing rate: 5g/m²



PRO FLORA 110

GENERAL PURPOSE (ECONOMY PLUS ANNUALS)



%	COMMON NAME	SPECIES	HEIGHT CM	COLOUR	PERIOD
5% WILD FLOWERS:					
1	Birdsfoot Trefoil	Lotus corniculatus	5-40	Yellow	Aug - Oct
6	Black Knapweed	Centaurea nigra	30-80	Purple	June - Sept
2	Black Medick	Medicago lupulina	15-50	Yellow	May - Sept
1	Common Vetch	Vicia sativa	20-100	Pink	May - Aug
7	Corn Cockle	Agrostemma githago	60-120	Purple	June - Aug
5	Corn Flower	Centaurea cyanus	30-60	Blue	June - Aug
5	Corn Marigold	Chrysanthemum segetum	15-45	Yellow	June - Oct
4	Corn Poppy	Papaver rhoeas	30-60	Red	June - Sept
10	Meadow Buttercup	Ranunculus acris	30-100	Yellow	May - Sept
1	Musk Mallow	Malva moschata	20-80	Pink	May - Aug
10	Ox-Eye Daisy	Leucanthemum vulgare	20-100	White	May - Oct
10	Ribwort Plantain	Plantago lanceolata	5-50	Brown	May - Sept
5	Red Campion	Silene dioica	30-100	Red	May - Sept
13	Self Heal	Prunella vulgaris	5-20	Purple	June - Sept
10	Suckling Clover	Trifolium dubium	15-50	Yellow	May - Sept
5	White Campion	Silene alba	30-100	White	May - Sept
5	Yarrow	Achillea millefolium	20-45	White	June - Oct

95% GRASSES:

5	Browntop Bent	Agrostis capillaris	10-70
25	Red Fescue	Festuca rubra	15-90
20	Crested Dogs Tail	Cynosurus cristatus	5-75
20	Chewings Fescue	Festuca commutata	30-120
20	Hard Fescue	Festuca trachyphylla	15-70
10	Smooth Stalked Meadow Grass	Poa pratensis	10-90

Sowing rate: 5g/m²



COLOUR BOOST

Intense colourful flower experiences are the idea behind our Colour Boost Range.

The exciting new range of mixtures have been designed to create enhanced, attractive amenity spaces. Also providing an essential food source and habitat for many species of animals and invertebrates, especially pollinating insects.





The Colour Boost range of mixtures all have a specific use depending on site and required longevity of the sowing.

With increasing pressure on local authority and golf course budgets, coupled with demands to reduce emissions generated by repeated maintenance operations and the desire to improve and create habitats, sowing a Colour Boost mixture is the natural choice.

Sowing a Colour Boost mixture brings many cost savings for the commercial user compared to more traditional bedding schemes. The mixtures are sown directly

onto the final recipient site, requiring little irrigation, fertiliser/chemical application or maintenance throughout the season. This provides a substantial saving over the production, installation and maintenance costs of a traditional bedding scheme.

100% flower seed mixtures are notoriously difficult to sow when applying at just a few grams per m². To ensure even sowing and correct application rates we suggest using our Rehofix MK1500 corn skin granule as a carrier – natural, biodegradable, easier, and a lot cheaper than running out of an expensive seed mix half way through the project. There is no set application rate for this, as every end users machine and expertise is different, but we would suggest a ratio of 1 part seed 5 parts Rehofix .

CARNIVAL

A STUNNING CELEBRATION OF BRIGHT AND BOLD ANNUALS

Designed to create a robust and attractive display in any park, public open space or golf course. This flower mixture will provide a dazzling annual display. Quick to establish with a long flowering period from 8 weeks after sowing up until the first frosts.

COMMON NAME	SPECIES	COLOUR
Paper Daisy	Helipterum (acroclinium) roseum	White/Pink/Purple
Pheasants Eye	Adonis aestivalis	Red/Orange
Pot Marigold	Calendula officinalis pacific beauty	Red/Orange/Yellow
Pot Marigold	Calendula officinalis fiesta gitana	Orange/Yellow
Centaurea Cyanus	Cornflower	Blue/Pink/White
Painted Daisy	Chrysanthemum carinatum	Red/Orange/Pink/Yellow
Cosmos	Cosmos bipinnatus (dwarf)	Pink/Purple
Dwarf Morning Glory	Convolvulus tricolor	Blue/Purple/Pink/White
Chinese Forget Me Not	Cynoglossum amabile	Blue
California Poppy	Eschscholzia californica	Multi-Colour Mix
Fineflower	Gilia leptantha	Blue/Pink
Godetia	Clarkia amoena	Pink/White
Baby's Breath	Gypsophila elegans	Red/White
Candytuft	Iberis amara	White
Candytuft	Iberis umbellate	Blue/Pink/Purple
Love-In-A-Mist	Nigella damascene	Blue/Pink/Purple/White
Corn Poppy	Papaver rhoeas	Red

Sowing rate: 3-5g/m²



FLORAL CARPET

LOWER GROWING SUMMER ANNUALS

Low-Growing seasonal annuals mixture, designed to create a robust and attractive display in areas where final growing height is of paramount importance. This is particularly relevant when sowing near visibility splays and sight lines on road junctions. This dwarf flower mixture will provide rich blooms throughout the season, perfect for enhancing any street scene. Quick to establish with a long flowering period from 8 weeks after sowing up until the first frosts.

COMMON NAME	SPECIES	COLOUR
Sweet Alyssum	Lobularia maritima	Lilac/White
Dwarf Morning Glory	Convolvulus tricolor	Blue/Purple/Pink/White
Cornflower	Centaurea cyanus	Blue/Pink/White
California Poppy	Eschscholzia californica	Orange/Yellow
Farewell To Spring	Godetia grandiflora	Pink/Red/White
Virginia Stocks	Malcomia maritima	Lilac/Pink/White
Flax	Linum annum	Blue/Red
Love-In-A-Mist	Nigella damascena	Blue/Pink/Purple/White
Mexican Marigold	Tagetes patula	Orange/Red
China Aster	Callistephus sinensis	Multi-Colour Mix
Pot Marigold	Calendula officinalis	Orange/Yellow
Candytuft	Iberis umbellata	Blue/Pink/Purple/White
Lobelia	Lobelia pendula	Multi-Colour Mix
Baby Blue Eyes	Nemophila insignis	Blue
Phlox Drummondii	Drummonds phlox	Multi-Colour Mix

Sowing rate: 3-5g/m²



SKYSCRAPER

LIGHT THE SKY WITH THIS TALLER GROWING MIX

A taller growing mixture containing classics such as Cosmos and Zinnia. Created for areas where a larger or more open surrounding environment requires a taller growing mixture to deliver the same impact. The taller more robust nature of this mixture also provides fantastic shelter and a habitat for small mammals, invertebrates and pollinating insects.

COMMON NAME	SPECIES	COLOUR
Cornflower	<i>Centaurea cyanus</i>	Blue/Pink/White
Cosmos	<i>Cosmos bipinnatus</i>	Pink/Purple
Corn Marigold	<i>Chrysanthemum segetum</i>	Yellow
Tickseed	<i>Coreopsis tinctoria</i>	Yellow/Red
Mexican Sunflower	<i>Tithonia speciosa</i>	Orange/Red
Garden Zinnia	<i>Zinnia elegans</i>	Red/Yellow/Pink
Mexican Marigold	<i>Tagetes erecta</i>	Yellow/Orange

Sowing rate: 3-5g/m²



BIODIVERSITY

DELIVER COLOUR AND LIFE WITH THIS MIX FOR WILDLIFE

Seasonal Annuals, Biennials and Perennials designed to attract a host of varied fauna including pollinating insects. The composition of species is wide and ensures a good adaptability to different growing conditions. The colour scheme of the mix changes during the season depending on which species are in bloom at the time.

COMMON NAME	SPECIES	COLOUR
PERENNIAL:		
Alpine Forget-Me-Not	Mysotis alpestris	Blue/Pink
Yarrow	Achillea millefolium	White
Musk Mallow	Malva moschata	Pink
Sweet William	Dianthus barbatus	White/Pink/Purple
Purple Coneflower	Echinacea purpurea	Purple
Meadowsweet	Filipendula vulgaris	White
Shasta Daisy	Leucanthemum maximum	White/Yellow
Soapwort	Saponaria ocymoides	Pink

ANNUALS:		
Pot Marigold	Calendula officinalis	Yellow/Orange
Corncockle	Agrostemma githago	Mauve
Common Bugloss	Borago officinalis	Blue

BIENNIALS:		
Wallflower	Cherianthus cheirii	Orange/Yellow
Vipers Bugloss	Echium vulgare	Blue
Foxglove	Digitalis purpurea	Purple
Black Medic	Medicago lupulina	Yellow
Canterbury Bells	Campanula medium	Blue

Sowing rate: 3-5g/m²



HONEY BEE & BUTTERFLY

FLOWERS POPULAR WITH PRECIOUS POLLINATORS

Designed specifically with key pollinators in mind, a really attractive mixture doing a vital job in providing a nectar source for our bee population and other pollinating insects. This mixture will provide a spectacular display in year 1 with species such as Foxglove and Sweet William flowering in year 2 if the mixture is left.

COMMON NAME	SPECIES	COLOUR
Common Bugloss	<i>Borago officinalis</i>	Blue
Cornflower	<i>Centaurea cyanus</i>	White/Blue/Pink/Red
Cosmos	<i>Cosmos bipinnatus</i>	Pink/Purple
Cosmos	<i>Cosmos sulphureus</i>	Orange
California Poppy	<i>Eschscholzia californica</i>	Multi/Colour Mix
Dwarf Sunflower	<i>Helianthus annuus</i>	Yellow
Godetia	<i>Clarkia (godetia) amoena</i>	Pink/White
Black-Eyed Susan	<i>Rudbeckia hirta</i>	Yellow/Red
Garden Zinnia	<i>Zinnia elegans</i>	Red/Yellow/Pink
Shasta Daisy	<i>Leucanthemum maximum</i>	White/Yellow
Tickseed	<i>Coreopsis tinctoria</i>	Yellow/Red
Foxglove	<i>Digitalis purpurea</i>	Purple
Sweet William	<i>Dianthus barbatus</i>	White/Pink/Purple
Perennial Flax	<i>Linum perenne</i>	Blue

Sowing rate: 3-5g/m²



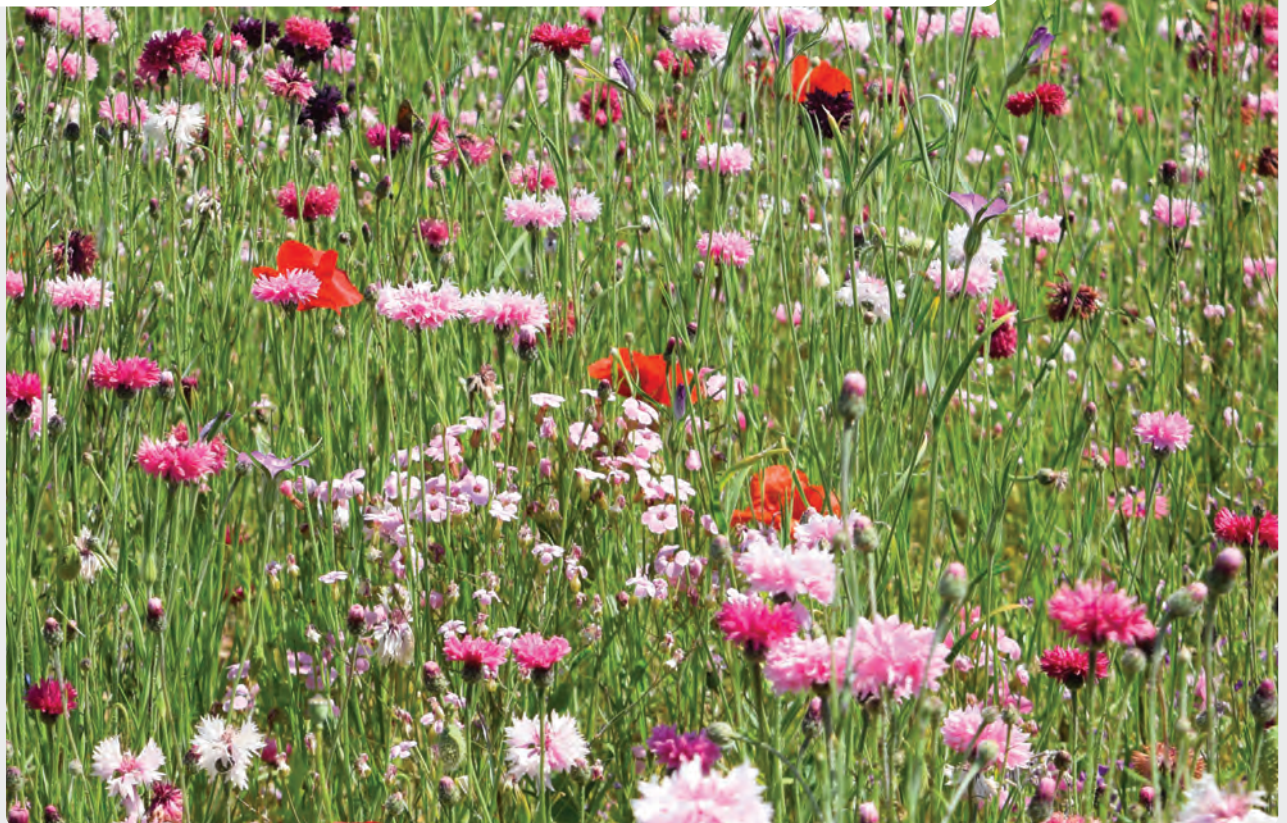
BLUSH

A MIX TO APPEAL TO THE HEART IN TONES OF ROSES AND RED

Pale pinks through to deep reds, Colour Boost Blush provides a beautifully warm mix of flowers from this colour palette. Designed for great succession flowering from late spring through to well into the Autumn.

COMMON NAME	SPECIES	COLOUR
Summer Pheasant's Eye	Adonis aestivalis	Dark Red
Corn Cockle	Agrostemma githago	Purple
Love-Lies-Bleeding	Amaranthus caudatus	Red
China Aster	Callistephus chinensis	Pink/Purple
Corn Flower	Centaurea cyanus	Blue
Spider Flower	Cleome spinosa	Pink
Garden Cosmos	Cosmos bipinnatus	Pink
Forking Larkspur	Delphinium consolida	Dark Blue/Purple
California Poppy	Eschscholzia californica	Red/Orange/Yellow
Strawberry Fields Globe Amaranth	Gomphrena haageana	Red
Showy Baby's Breath	Gypsophila elegans	White/Pink
Pink Sunray	Helipterum manglesii	Pink
Rose Mallow	Lavatera trimestris	Pink
Red Flax	Linum grandiflorum	Red
Night Scented Stock	Matthiola longipetala	Lilac
Marvel Of Peru	Mirabilis jalapa	Yellow/Pink/White
Corn Poppy	Papaver rhoeas	Red
Wild Clary	Salvia horminum	Purple
Cowherb	Saponaria vaccaria	Pink
Youth-And-Age	Zinnia elegans	Pink/Purple/Yellow/Orange

Sowing rate: 3-5g/m²



CLASSICAL

A MIX OF BEAUTIFUL BLUES AND WONDERFUL WHITES

Deep blues through to pure whites gives this trusted colour combination an everlasting appeal. This mixture works especially well in a more formal setting, or providing the transition between a formal and informal landscape.

COMMON NAME	SPECIES	COLOUR
Sweet Alyssum	Alyssum maritimum	White
Queen Anne's Lace	Ammi majus	White
Cornflower	Centaurea cyanus	White
Creeping Daisy	Chrysanthemum paludosum	White
Garden Cosmos	Cosmos bipinnatus	White
California Poppy	Eschscholzia californica	White
Candytuft	Iberis amara	White
Love In A Mis	Nigella damascena	White
Soapwort	Saponaria vaccaria	White
Common Zinnia	Zinnia elegans	White
Common Bugloss	Borago officinalis	Blue
Cornflower	Centaurea cyanus	Blue
Larkspur	Delphinium grandiflorum	Blue
Dragonhead	Dracocephalum moldavicum	Blue
Purple Bugloss	Echium plantagineum	Blue
Flax	Linum usitatissimum	Blue
Love In A Mist	Nigella damascena	Blue
Blue Tansy	Phacelia tanacetifolia	Blue
Annual Sage	Salvia horminum	Blue
Common Vetch	Vicia sativa	Blue

Sowing rate: 3-5g/m²



CHAMELEON

EVER-CHANGING MIX OF BOLD COLOUR THROUGHOUT THE SEASON

A brilliantly diverse mixture of over 40 species and subspecies providing a fantastic range of colours and forms. This mixture is constantly changing throughout the growing season. Summer Chameleon has been a consistent performer on our trial grounds giving a fantastic show throughout the season.

COMMON NAME	SPECIES	COLOUR
Fossflower	Ageratum houstonianum	Blue
Sweet Alyssum	Alyssum martima procumbens	Purple/Pink
Love-Lies-Bleeding	Amaranthus caudatus	Red
Bishop's Weed	Ammi majus	White
Dill	Anethum graveolens	Yellow
Snapdragon	Antirrhinum maximum	Yellow/Pink/White
Borage	Borago officinalis	Blue
Pot Marigold	Calendula officinalis	Orange
China Aster	Callistephus chinensis	Pink/Purple
Safflower	Carthamus tinctorius	Yellow/Orange
Corn Flower	Centaurea cyanus	Blue
Mediterranean Stock	Cheiranthus maritimus	Pink/Lilac
Painted Daisy (Tricolour)	Chrysanthemum carinatum	Pink/Yellow/White
Elegant Clarkia	Clarkia elegans	Pink/Purple
Purple Chinese Houses	Collinsia bicolor	Purple
Dwarf Morning Glory	Convolvulus tricolor	Blue/White/Yellow
Garden Cosmos	Cosmos bipinnatus	Pink
Chinese Hound's Tongue	Cynoglossum amabile	Blue
Garden Dahlia	Dahlia variabilis	Pink/Purple
Doubtful Knight's Spur	Delphinium ajacis	Blue/Pink/White
Sweet William	Dianthus barbatus	Red/White
Purple Viper's Bugloss	Echium plantagineum	Purple
Foothill Poppy	Eschscholtzia caespitosa	Yellow
Farewell To Spring	Godetia hybrida	Pink/White
Showy Baby's Breath	Gypsophila elegans rose	Pink
Common Sunflower	Helianthus annuus	Yellow
Strawflower	Helichrysum bract.Monstrosa	Yellow/Pink/White
Candytuft	Iberis amara	White
Balsam	Impatiens balsamina	Pink/Lilac
Rose Mallow	Lavatera trimestris	Pink
Moroccan Toadflax	Linaria maroccana	Purple
Lupin	Lupinus hartwegii	Pink/Purple/White/Blue
Mallow Wort	Malope trifida grandiflora	Pink/White
Mayweed	Matricaria eximia	White/Yellow
Hoary Stock	Matthiola incana	Pink/White/Lilac
Bells Of Ireland	Moluccella laevis	Green
Love-In-A-Mist	Nigella damascena	Blue/Pink/White/Purple
Yellow Fennel Flower	Nigella orientalis	Yellow
Black Eyed Susan	Rudbeckia hirta	Yellow/Brown
Cowherb	Saponaria vaccaria	Pink
Sweet Scabious	Scabiosa atropurpurea	Pink/Lilac/Purple
Starflower Pincushions	Scabiosa stellata	White
Monarch Of The Veld	Venidium fastuosum	Orange/White
Youth-And-Age	Zinnia elegans	Pink/Purple/Yellow/Orange

Sowing rate: 3-5g/m²

POPPY

THE EPITOME OF REMEMBRANCE AND REFLECTION

Creating an evocative image in drifts of bright red. Whether it's just for show or creating a display to remember those hero's no longer with us, the simple poppy makes a great choice. Poppy can often do best if autumn sown.

COMMON NAME	SPECIES	COLOUR
Corn Poppy	Papaver rhoeas	Red

Sowing rate: 1g/m²



MANAGEMENT GUIDELINES

SITE PREPARATION

The aim is to produce a firm weed-free tilth. Subsoils often provide a weed-free, low nutrient status seed bed, and are therefore suitable for wild flora. It is occasionally necessary to remove the topsoil in areas of high fertility, as these soils tend to promote the growth of more vigorous grasses and pernicious weeds. Treat existing vegetation with a systemic herbicide prior to seed bed cultivation, taking note of any site constraints and manufacturer's instructions first.

SUMMARY

1. Treat with herbicide, cultivate the site and allow to remain fallow if practical. A repeat herbicide application may be necessary
2. Remove topsoil if applicable
3. Cultivate to 10cm
4. Create a surface tilth

SOWING

Sowing can take place throughout most of the year, providing a good tilth can be prepared, however the months of March/April and August/September are generally the most suitable for Pro Flora. Colour Boost is generally most suited to a Spring sowing.

1. Regularly mix seed to ensure even species distribution, drill or broadcast
2. Sow at 5g/m² for mixtures with grass or 0.5-1.0g/m² for pure wild flower mixtures
3. Bulk up small seeding rates with Rehofix MK 1500 Bulking Granules 1 part seed to 5 parts bulking granules
4. Rake or harrow - mix seed into soil (depth approx 0.5cm) Cambridge roll to firm seed bed

WILD FLOWER MAINTENANCE

FIRST YEAR

In the first year control the weeds and reduce competition from grasses. Cut the sward to a height of 5-7cm every two months or when the sward reaches 15cm. Remove all the cuttings. Dig out or spot treat any perennial weeds.

FUTURE MAINTENANCE

Cut to 5-7cm during March/April and remove cuttings. A second cut should take place at the end of the flowering season during August/October. Remove all cuttings. Further cuts in the autumn period to remove untidy growth may be required.

MAINTENANCE SUMMARY

FIRST YEAR

First cut 5cm March/April
(Spring Seeding 1st cut in May).
Cut every 2 months or when sward reaches 15cm
Final cut September/October.
Remove all cuttings.

FUTURE YEARS

First cut 5-7cm March/April
Second cut 5-7cm August/October
Remove all cuttings.

CORNFIELD ANNUALS

Cut once flowering period is over - September/October
Weed treat ground if necessary, cultivate and re-seed Spring or Autumn.

COLOUR BOOST ANNUALS

Cut once flowering period is over - September/October
Weed treat ground if necessary, cultivate and re-seed Spring.
Further cuts in the autumn period to remove untidy growth may be required.

COLOUR BOOST BIENNIALS AND PERENNIALS

Hand weed/spot treat as required.
Cut and remove dead top growth before the next Spring. may be required.

FERTILISER

THE PRO FERT RANGE OF FERTILISERS HAS BEEN SPECIALLY FORMULATED WITH THE LANDSCAPER AND TURF MANAGER IN MIND.

All products are supplied in easy to handle 20kg bags.



PRO FERT 1

PRE-SEED FERTILISER

USE: Mainly in pre-seed situations (spring and autumn) to promote a healthy and vigorous root system. Can also be used as an economical feed for existing turf.

ANALYSIS

6 : 9 : 6

Application Rates: 35-70g/m²

PRO FERT 2

PRE-SEED FERTILISER

USE: Mainly pre-seed situations (spring and autumn), or as a spring dressing on outfield sports turf. The plant nutrient ratio of 1: 1.5: 1 is well recognised.

ANALYSIS

10 : 15 : 10

COMPOUND BLEND

Application Rates: 35-50g/m²

PRO FERT 3

SPRING/SUMMER FERTILISER

USE: An ideal pre-seed fertiliser or as a spring/summer feed to bring on established turf following the winter.

APPLY: between March and September.

ANALYSIS

12 : 6 : 6

Application Rates: 50g/m²

PRO FERT 4

SPRING/SUMMER FERTILISER

A high nitrogen low phosphate fertiliser ideal for all amenity turf situations, this mini compound granule promotes a strong, dense and healthy turf with excellent colour.

USE: An ideal pre-seed fertiliser or as a spring/summer feed to bring on established turf following the winter.

APPLY: between March and September.

ANALYSIS

14 : 0 : 7 + 3MGO + 2FE

1-2MM MINI COMPOUND GRANULE

Application Rates: 50g/m²

PRO FERT 6

AUTUMN/WINTER FERTILISER

A low nitrogen fertiliser with high phosphate and potassium levels enhances root development (where levels are low). Maintains turf colour and improves disease resistance.

USE: An ideal autumn/winter fertiliser for established turf.

APPLY: September onwards until the end of the growing season.

ANALYSIS

3 : 12 : 12

2-4MM COMPOUND GRANULE

Application Rates: 50g/m²

TERRA FSP

HYDROSEEDING MULCH

Terra FSP is a high performance GREEN mulch for hydroseeding applications. It promotes accelerated growth through a combination of seed protection and improved hydration for nourishment. Manufactured from recycled wood fibre and straw, Terra FSP is safe to handle, environmentally sound with an unlimited shelf life.

RAPID GROWTH

Terra FSP holds 1200% its own weight in water. Its water retention capability ensures newly sprayed seed is provided with vital nourishment necessary for successful germination and establishment.

SUPERIOR QUALITIES

Uniform grass cover is more achievable due to an even application of slurry containing the Terra FSP.

ENVIRONMENT

Terra FSP is non-toxic and non-irritant. 100% biodegradable it decomposes to return precious nutrients to the soil.

Application Rates: 100-180g/m²

GROWEB

HYDROSEEDING MULCH

GroWeb Mulch is a blend of natural fibres. The purpose of mulch is to protect and nurture the seed. The fibres knit together when mixed with water, tackifier and fertiliser. Once sprayed onto the surface of the site they provide a protective and moisture retentive cover thus aiding the germination of the seed.

RAPID GROWTH

GroWeb's mix of fibre provides excellent water absorption - up to 400% its own weight. Its strong mat holds moisture and promotes rapid seed growth for quick, quality results.

SUPERIOR QUALITIES

GroWeb has a virtually neutral pH - ideal for establishing vegetation.

ENVIRONMENT

GroWeb is 100% recycled cotton fibre. It is biodegradable and absolutely non-toxic.

Application Rates: 100-180g/m²



GROWEB

TACKIFIER

GroWeb Tackifier is a natural non-toxic powder made up of 99% natural colloids and 1% inhibitor. The purpose of GroWeb Tackifier is a gelling agent that when mixed with water, swells becoming highly viscous, binding the seed, fertiliser and mulch to the soil surface. GroWeb Tackifier helps protect the seed from wind erosion, water erosion and drought.

ADVANTAGES OF USING GROWEB TACKIFIER

GroWeb Tackifier is a harmless powder which is easy to handle

GroWeb Tackifier is highly viscous and will assist erosion control by stabilising the soil and holding the other materials in place

GroWeb Tackifier is highly water absorbent and will retain water and re-wet

GroWeb Tackifier lubricates both the mulch and the moving parts of the hydraseeding machine

GroWeb Tackifier helps protect the seed from wind erosion, water erosion and drought

Application Rates: 2-4g/m²

GROWEB

SOIL & PLANT FERTILISER

Organic slow release fertiliser 8:7:7 and minerals, trace elements and natural growth stimulants. GroWeb Soil and Plant Conditioner is a concentrated liquid fertiliser. It is designed as a total replacement, one stop fertiliser.

ADVANTAGES OF USING GROWEB FERTILISER

A predictable and safe fertiliser

Naturally occurring growth stimulants aid rapid germination

Good micro-organism activity encourages development of healthy sward

Steady Nitrogen release

Increased root depth means greater drought resistance

Organic activity releases locked up nutrients

Both naturally occurring growth stimulants are proven to contribute to recovery from shock as in adverse climatic conditions

Application Rates: 30-40L per/ha



USEFUL DATA

WEIGHT

lbs	to kilograms	divide by	2.205
kilograms	to lbs	multiply by	2.205
tons	to tonnes	multiply by	1.016
tonnes	to tons	divide by	1.016
cwts	to kilograms	multiply by	50.794
kilograms	to cwts	divide by	50.794

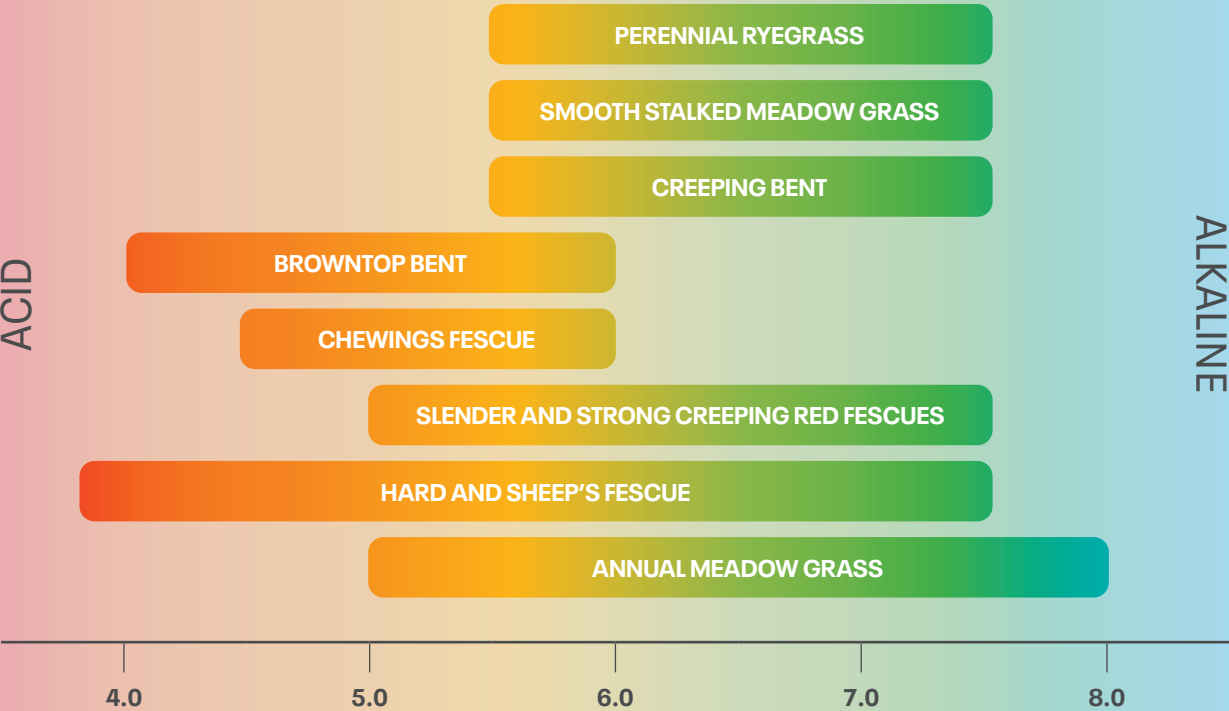
AREA

acres	to hectares	divide by	2.471
hectares	to acres	multiply by	2.471
square yards	to square metres	multiply by	0.8361
square metres	to square yards	divide by	0.8361

PITCH DIMENSIONS

	METRES (L X W)	AREA
Soccer	100 x 64	6,400m ²
Rugby	100 x 69	6,900m ²
Hockey	91.4 x 55	5,027m ²
Cricket Square	30 x 23	690m ²
Lawn Tennis	23.8 x 11	262m ²
Bowls	40 x 40	1,600m ²
Croquet	32 x 25.5	816m ²
Golf Green		500m ² /600m ²
Golf Tee		250m ² /500m ²

SOIL PH AND TURF GROWTH



Soil pH. Table shows most suitable pH for grass species

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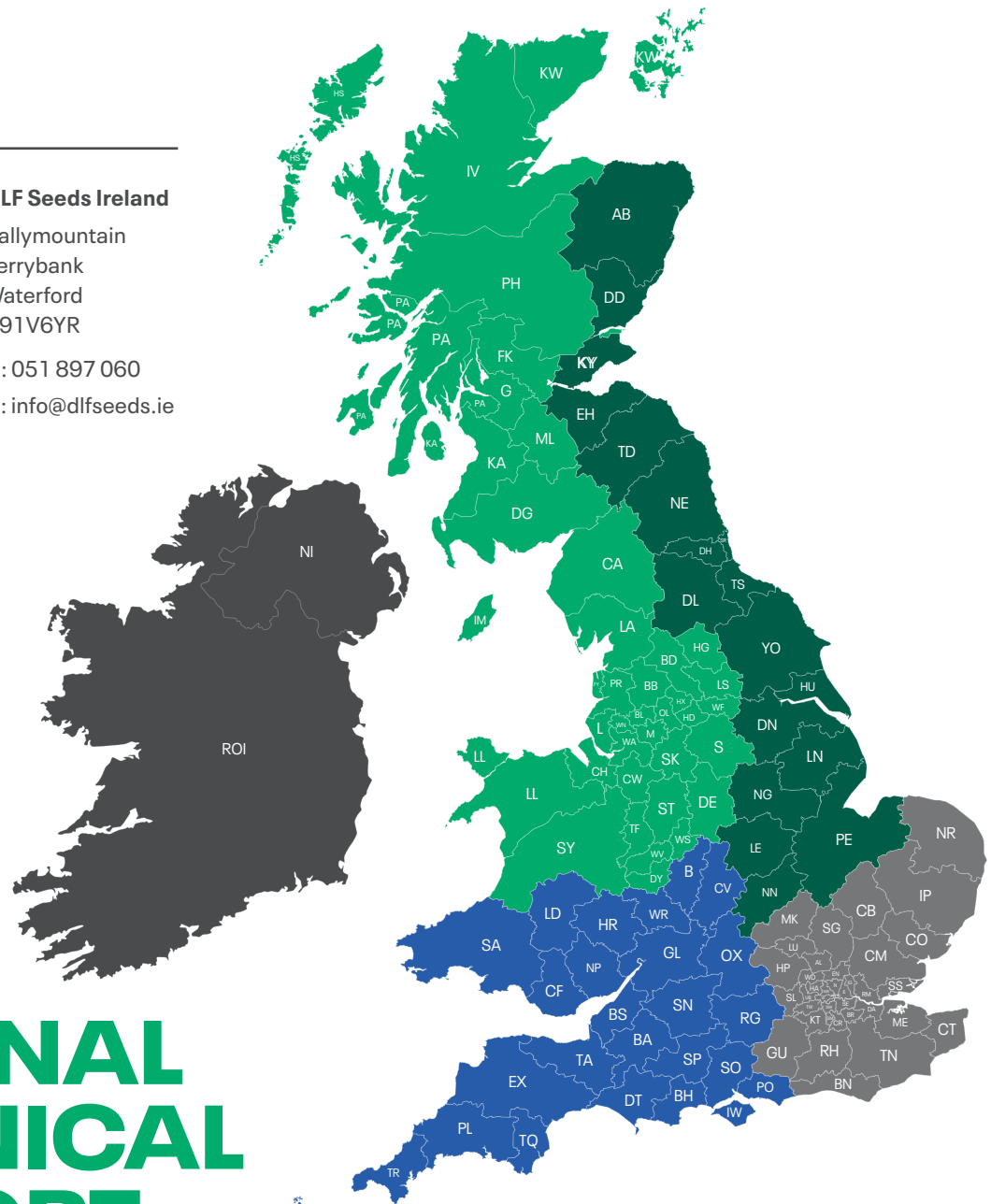
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NATIONAL TECHNICAL SUPPORT

Our experienced team of regional technical representatives are available for Masterline customers, delivering sound advice on mixture & cultivar selection, field support and maintenance.



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STRENGTH, ENERGY AND PERFORMANCE

It is our pleasure to present the Masterline® brand with our superior grass seed varieties. Our focus is on fine-leaved, dense varieties with outstanding disease, wear and drought tolerance.

By integrating the 4turf® concept in the Masterline® brand it is possible to prolong the season in both spring and autumn.

Our Masterline® mixtures are designed to comply with demanding professional usage and our mixtures are used for prestigious projects such as football stadiums, golf courses, parks and residential areas. Masterline® is the right solution, when only the best quality is acceptable.



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