Turf Variety Product Guide

SEED FOR SUCCESS
Whatever The Sport!

A world of seed innovation, right here.
Introducing DLF Seeds

DLF Seeds is a well-established and respected company in New Zealand with its roots going back more than 100 years; DLF Seeds is owned by DLF, a Danish seed farmers’ cooperative which began business in 1906.

DLF is easily the world’s largest seed company involved in the breeding, production and sale of temperate climate grasses and clovers. DLF is active in both the forage (agriculture) and turf (amenity) sectors.

DLF combines the world’s largest grass and clover research programme spread over its 9 breeding stations worldwide, with access to multiple independent breeding and testing stations globally, to ensure that customers get the very best solutions to their needs. This makes our motto very appropriate,

*A world of seed innovation, right here*.

Our professional turf customers are generally very quality-conscious and demand a number of useful traits in turf grass seed. Our new and innovative concepts together with on-going development of our variety portfolio provide our customers with a continuously expanding range of turf solutions.

High quality and documented results from variety lists and independent trials in many countries means that DLF’s turf varieties appear in the most prestigious venues all around the world. DLF supplied turf seed for many stadiums used for the 2016 European Football Championship in France, the 2015 Rugby World Cup in the UK, and in 2012 the Olympic Games in London our turf solutions played a dominant role both at the stadiums and the green areas outside the venues. The list goes on and on with the football World Cup held in Brazil, and the rugby world cup in South Africa, DLF turf varieties can also be seen in some of the most iconic sports grounds and golf courses in Australia and New Zealand.

This Turf Variety Product Guide highlights some of our most successful and up-to-date varieties, all of which have passed intensive local testing. I am sure that these varieties will add value to your business. The DLF Seeds team looks forward to being of service to you.

Tom Bruynel
General Manager, DLF Seeds Ltd.
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DLF HAS SUPPLIED GRASS SEED FOR  
2014 World Cup in Brazil
In 2016, the eyes of Europe were focused on the speed and agility of the continent’s finest footballers and the lush green resilience of its finest turf grasses. If you need a showcase for the best sports grass that Europe can produce, you would have found it in France that summer. Much of the footballing action took place on turf grown from DLF seed.

The natural choice for professionals

DLF turf varieties are hugely popular with groundsmen and pitch managers. Most of the stadiums involved in the tournament in France are seeded with DLF mixtures. A few pitches were relaid to bring the playing surfaces up the highest standard, but most were overseeded with top mixtures of perennial ryegrass from our brands TopGreen Eurosport and Johnsons Sports Seed.

The TopGreen Eurosport mixture out performs the competition! It contains top-performing diploid perennial ryegrass varieties plus the unique tetraploid species 4turf®. TopGreen Eurosport combines the fineness of leaves, shoot density and wear-tolerance of its diploids with the persistence and stress- and disease-tolerance of 4turf®.
Quick Facts

ALL*STAR 3 is a dwarf prostrate variety bred specifically for excellent gray leaf spot resistance. With finer blades for improved density and a very attractive dark green color, ALL*STAR 3 was top-rated for overall turf quality in the most recent NTEP test. ALL*STAR 3 has proven resistance to many diseases including brown patch and pink snow mold. It also features exceptional seedling vigor and rapid establishment. ALL*STAR 3 is an excellent choice for areas where heat and humidity are establishment factors.

ALL*STAR 3 was developed for permanent poly-species turf-grass blends and mixtures containing improved perennial ryegrass, Kentucky bluegrass, chewings, slender creeping and strong creeping red fescue, colonial bentgrass and turf type tall fescue. ALL*STAR 3 is also used extensively in winter overseeding programs on greens, tees and fairways either alone or in species mixtures.

USE
- Golf courses
- Sports fields
- Parks & reserves
- Home lawns
- Landscaping

SOWING RATE
- 30-40 (g/m²)
- (20–30 when oversowing)

ENDOPHYTE LEVEL
- High

BENEFITS
- Dark green colour
- Good heat tolerance
- High wear tolerance
- Excellent turf quality
- High disease resistance

RATING
- Density
- Wear tolerance
- Rust resistance
Quick Facts

TOPHAT 2 is a new generation, heat and disease tolerant, very dark green, endophyte enhanced perennial ryegrass variety. It can be utilized in all perennial ryegrass applications where high quality turf is desired. TOPHAT 2 forms a leafy fine textured turf with rapid germination, excellent traffic tolerance, and poly-species compatibility. In the 2001 Rutgers Turfgrass Proceedings report, TOPHAT 2 showed resistance to Gray Leaf Spot, a disease devastating to many turfgrasses: “Two experimental selections, RNS comp, and PR-154 (TOPHAT 2) showed very good resistance to this disease.” (2001 Rutgers Turfgrass Proceedings).

TOPHAT 2 was developed for permanent poly-species turf-grass blends and mixtures containing improved perennial ryegrass, Kentucky bluegrass, chewings, slender creeping and strong creeping red fescue, colonial bentgrass and turf type tall fescue. TOPHAT 2 is also used extensively in winter overseeding programs on greens, tees and fairways either alone or in species mixtures.

USE
- Golf courses
- Sports fields
- Home lawns
- Parks & reserves

SOWING RATE
- 30-40 (g/m²)
- (20-30 when oversowing)

ENDOPHYTE LEVEL
- High

BENEFITS
- Dark green colour
- Quick establishment
- Good wear tolerance
- Good cold tolerance
- Grey leaf spot resistant

RATING
- Density
- Fineness of leaves
- Colour
- Salt tolerance
Quick Facts

KEYSTONE 2 was one of the top varieties in the NTEP Perennial Ryegrass trials.

The most significant improvements of KEYSTONE 2 over the original KEYSTONE are its increased density, summer performance and disease resistance.

KEYSTONE 2 also has one of the finest leaf textures of any perennial ryegrass variety. KEYSTONE 2 does well under heavy wear traffic. An excellent resistance to Crown Rust and cool season Brown Patch reduces the need for fungicide applications.

Earlier spring green-up means denser turf earlier in the year, which can be an important advantage for sports fields and golf courses.

USE
- Sports fields
- Golf courses
- Parks & reserves
- Home lawns
- Landscaping

SOWING RATE
- 30-40 (g/m²)
- (20-30 when oversowing)

ENDOPHYTE LEVEL
- High

BENEFITS
- Dark green colour
- Consistent
- High disease & rust resistance
- Low maintenance
- Low inputs

RATING
- Density
- Rust resistance
- Wear tolerance
- Colour

Keystone 2 Perennial Ryegrass
Quick Facts
DERBY XTREME featured as the primary sports turf at the 2010 World Cup in South Africa. DERBY XTREME is a proven standout for high end sports fields and home lawns. Developed for increased density and rust resistance, this beautiful dark green turf is very sturdy and stands up extremely well in high traffic areas. It also has a strong resistance to gray leaf spot and other leaf spot diseases.

DERBY XTREME was developed for permanent polyspecies turfgrass blends and mixtures containing improved perennial ryegrass, Kentucky bluegrass, chewings, slender creeping and strong creeping red rescue, colonial bentgrass and turf type tall fescue. DERBY XTREME can also be used in winter oversowing blends and mixtures on greens, tees and fairways where rapid transitional qualities are desired.

Final of ANTEP Perennial Ryegrass & Tall Fescue Variety Trial (2007 & 2008)

<table>
<thead>
<tr>
<th>Variety</th>
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<td>MATILDA</td>
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</table>

USE
- Sports fields
- Golf courses
- Parks & reserves
- Home lawns
- Recreational areas

SOWING RATE
- 30-40 (g/m²)
- (20-30 when oversowing)

ENDOPHYTE LEVEL
- High

BENEFITS
- Dark green colour
- Superb turf density
- Strong wear tolerance
- Disease resistant

RATING
- Disease resistance
- Fineness of leaves
- Wear tolerance
- Rust resistance
Quick Facts

An improved ‘dwarf-type’ perennial ryegrass developed for low growth, fine leaf texture, active winter growth and excellent shade tolerance – ranking first in 1994 NTEP Shade Trials. It is a bright green cultivar that exhibits superb turf quality while maintaining disease resistant traits. This is one of the few varieties that has no endophyte which may benefit some grounds managers.

PR8821 was developed for permanent poly-species turfgrass blends and mixtures containing improved perennial ryegrass, Kentucky bluegrass, chewings, slender creeping and strong creeping red fescue, colonial bentgrass and turf type tall fescue. It’s also used extensively in winter overseeding programs on green tees and fairways either alone or in species mixtures.

USE
- Sports fields
- Golf courses
- Home lawns
- Landscaping

SOWING RATE
- 30-40 (g/m²)
- (20-30 when oversowing)

BENEFITS
- Bright green colour
- Rapid establishment
- Fine bladed leaves
- Active winter growth
- Shade tolerant
- Excellent density
- Good wear tolerance
- Excellent disease resistance

RATING
- Density
- Wear tolerance
- Rust resistance
- Winter hardiness
Quick Facts

STOLAWN is a perennial ryegrass variety purposely developed for its creeping ability. It was selected for low growth habit, large crown size, bright green colour and stolon development. It is an exceptionally stoloniferous variety that has demonstrated excellent summer performance in France.

STOLAWN does well under fairway and athletic field managements. A high level of resistance to crown rust and cool season brown patch reduces the need for fungicide applications. Early spring green-up means denser turf earlier in the year, which can be an important advantage for sports fields and golf courses.

USE

Golf courses
Sports fields
Landscaping
Lawns

SOWING RATE
30-45 (g/m²)

BENEFITS

Bright green colour
Good heat tolerance
High wear tolerance
Excellent turf quality
High disease resistance
High salt tolerance

RATING

Disease resistance
Fineness of leaves
Wear tolerance
Salt tolerance
Quick Facts

REGAL 5 is an elite perennial ryegrass variety. NTEP results indicate that REGAL 5 is one of the darkest varieties now available. This allows it to blend well with Kentucky bluegrasses. It has a dense growth habit and excellent overall turf quality. REGAL 5 has also demonstrated strong resistance to both gray leaf spot and brown blight.

REGAL 5 was developed for permanent poly-species turf-grass blends and mixtures containing improved perennial ryegrass, Kentucky bluegrass, chewings, slender creeping and strong creeping red fescue, colonial bentgrass and turf type tall fescue. REGAL 5 is also used extensively in winter overseeding programs on greens, tees and fairways either alone or in species mixtures.

USE
Sports fields
Golf courses
Home lawns
Landscaping

SOWING RATE
30-40 (g/m²)
(20-30 when oversowing)

BENEFITS
Dark green colour
Good heat tolerance
High wear tolerance
Excellent turf quality
High disease resistance

RATING
Salt tolerance
Disease resistance
Recovery from wear
Fineness of leaf
Your eyes wouldn’t believe it!

Have you ever wanted to speed up germination of your newly sown lawn? At DLF Seeds Research Division it only takes 20 days from nothing to a completely green stand.

20 days, you say? Yep. These turf trial plots, which were sown at DLF Seeds research division at Store Heddinge on August 29th have all germinated and grows vigorously as of prior to September 17th, shining like a green carpet under a blue sky. Aside from good seed quality and average temperatures around 18°C, the trick is to keep a high moisture content in the top soil.
The No.1 Choice for renovations and oversowing

Quick Facts

Ryegrass is one of the most well-adapted grasses for use under extreme traffic conditions. JETA AR1 long rotation ryegrass provides outstanding regeneration after heavy use making it ideal for stud and equine use. The structure of its leaves, dense growth and vigorous growth rate secures the best wear tolerance for shear damage.

A strong year-round performer, JETA AR1 delivers excellent growth throughout the difficult winter and early spring periods. The animal-friendly AR1 endophyte in JETA provides protection against insect pasture pests.

JETA AR1 is also being used in Ryegrass and Kikuyu blends and has shown to be an outstanding partner seed choice.

**USE**
- Race tracks
- Polo fields

**SOWING RATE**
- 25-30 (g/m²)
- (15-25 when oversowing)

**ENDOPHYTE LEVEL**
- High

**BENEFITS**
- Fast establishing
- High shoot density
- Adapted for shear strength & heavy wear recovery
- Low inputs

**RATING**
- Wear tolerance
- Regeneration
- Establishment
- Colour

![Image of Jeta Long Rotation Ryegrass]

www.dlfseeds.co.nz
What is 4TURF®?

4TURF® is a new turf type of tetraploid perennial ryegrass bred especially for rapid installation and unique stress tolerance. Tetraploid ryegrasses have long been known to show better stress tolerance and disease tolerance compared to diploids. Now these advantages have become available for turf grasses as 4TURF®.

Better sward quality after stress

In southern and continental areas in Europe 4TURF® shows better recovery from both drought and heat stress as well as winter stress. Thus it outperforms ordinary diploid ryegrasses.

Rapid installation

4TURF® seeds are 1.5 times bigger than normal turf grasses. 4TURF® produces stronger seedlings with faster establishment, resulting in less chances for the establishment of weeds. Thus 4TURF® is the perfect oversowing choice for perennial ryegrass applications.

4TURF® is very well suited for oversowing Bermuda in the transition zone resulting in a fast establishment and excellent turf quality but no more clippings.

Better disease resistance and stress tolerance

4TURF® has an improved disease resistance, both under warm and cold conditions. In DLF trials from Scandinavia to the Mediterranean it has proven to be more resistant against F.E. rust, Fusarium, Elminthosporium, Drechslera, and Red Thread. It is very well suited for extensive management conditions.
**Good wear tolerance**

In German trials 4TURF® varieties DOUBLE and TETRAGREEN are rated 8 sport/wear conditions using a 1-9 score. The shear strength is enhanced due to the deeper root systems.

**Excellent blend partner**

4TURF® is slightly less dense compared to normal Diploid Turf Ryegrasses. As a result its companion species in blends have better establishment. When combined with Annual Ryegrasses and Tall Fescue the larger leaves of 4TURF® result in a more homogeneous aspect of the turf.

When combined with an Elite Diploid Perennial Ryegrass, the result will be a dense sward, combining the best of both worlds. When 4TURF® is used for oversowing Bermuda, the slightly more open structure compared to diploids, results in a faster re-growth of the Bermuda after dormancy. 4TURF® is healthier in winter. After winter it outperforms diploid ryegrasses.

**DLF Seeds Research Centre 12 month report:**

To date Double has scored consistent highs of 7 to 8.5 across establishment, density and uniformity. Double also scored high in vigour. (Scale 1-9)

<table>
<thead>
<tr>
<th>Country</th>
<th>4Turf® Variety</th>
<th>Fusarium</th>
<th>Rank</th>
<th>Red Thread</th>
<th>Rank</th>
<th>Winter Greenness</th>
<th>Rank</th>
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<td>Tetrageen</td>
<td>8.3</td>
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<td>3 out of 101</td>
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<tr>
<td>UK</td>
<td>Double</td>
<td>9.2</td>
<td>1 out of 101</td>
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</table>

*Source: official trials in the Netherlands (sport, sown in 2006) and UK (lawn, sown in 2007). poor = 1 - 9 = ideal*
Quick Facts

Tetraploids have long been known to show better stress and disease tolerance compared to diploids. Now these advantages are also available in a turf grass variety: TETRAGREEN.

Improved disease resistance is observed for rusts, Fusarium and Drechslera.

As TETRAGREEN is less dense than diploids it makes it easier for Poa pratensis to establish. When combined with diploid perennial ryegrass a perfect overseeding mix is obtained. In mixtures with tall fescue the larger leaves of TETRAGREEN compared to diploids leads to a more homogeneous aspect.

Seed of TETRAGREEN is at least 1.5 times heavier than diploid seed. It makes it easy to seed and provides stronger seedlings with faster establishment, Another argument for using TETRAGREEN in overseeding mixtures.

TETRAGREEN has better salt tolerance than most diploids. Have TETRAGREEN in mind when establishing new turf areas!

USE

Hardwearing lawns
Outfields
Sports fields
Golf courses

SOWING RATE
30-40 (g/m²)
(?? when oversowing)

BENEFITS

Improved stress tolerance
Idea mixture partner
All round disease resistance

RATING

Density

Finesse of leaves

Wear tolerance

Rust resistance

Colour

DLF HAS SUPPLIED GRASS SEED TO THE

Football World Cup in South Africa in 2010
and the Rugby World Cup in England in 2015
Quick Facts

Tetraploids have long been known to show better stress and disease tolerance compared to diploids. Now these advantages are also available in a turf grass variety: DOUBLE. In particular in dry conditions DOUBLE outperforms diploids. DOUBLE is one of the varieties in our 4turf® brand.

Improved disease resistance is observed for rusts, Fusarium and Drechslera. After the very hard winter 2010/11 we had an excellent proof of the extremely high Fusarium resistance of DOUBLE.

As DOUBLE is less dense than top-quality diploids it makes it easier for *Poa pratensis* to establish. When combined with diploid perennial ryegrass a perfect overseeding mix is obtained. In mixtures with tall fescue the larger leaves of DOUBLE compared to diploids leads to a more homogeneous aspect.

DOUBLE has better salt tolerance than most diploids. Have DOUBLE in mind when establishing new turf areas!

**USE**
- Sports fields
- Lawns

**SOWING RATE**
- 25-30 (g/m²)
- (15-25 when oversowing)

**ENDOPHYTE LEVEL**
- High

**BENEFITS**
- Superior in dry conditions
- Ideal mixture partner
- All round disease resistance

**RATING**
- Density
- Fineness of leaves
- Wear tolerance
- Rust tolerance
- Colour

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**DLF HAS SUPPLIED GRASS SEED FOR**

Euro 2012 in Poland and Ukraine and France 2016
Axcella 2
Annual Ryegrass

Quick Facts
AXCELLA 2 is the second generation of commercially available annual ryegrass recommended exclusively for turfgrass. It was developed from unique dwarf annual ryegrass plants that exhibit greater shoot density, narrower leaf blades, less vertical leaf growth, and a darker green leaf color than standard annual ryegrass cultivars. AXCELLA 2 exhibits strong seedling vigor for a weed free turf and requires less pesticide use. AXCELLA 2 has similar or better overseeded turf quality than most intermediate ryegrasses in 13mm cut fairway trials. AXCELLA 2 has been used in seed mixtures blended with perennial ryegrass to provide quick cover for heavily worn areas in sports fields. AXCELLA 2 is also seeded on its own in the fall or winter as it is able to germinate at 5°C. This has been especially useful on athletic fields that receive almost constant playing pressure, and in those situations where turf is needed on very short notice.

USE
Sports fields
Golf courses
Landscaping
Oversowing of Couch Blends

SOWING RATE
25-30 (g/m²)
(15-25 when oversowing)

BENEFITS
Fast cool season germination
Fine Texture
Slow growth
High tiller density
Dark green colour

RATING
Fast establishment
[] [] [] [] [] [] [] [] [] []
Colour
[] [] [] [] [] [] [] [] [] []
Density
[] [] [] [] [] [] [] [] [] []
Salt tolerance
[] [] [] [] [] [] [] [] [] []
Phoenix Open is the world's biggest golf tournament. 132 professional golfers play the 72 holes and the organizers expect 525,000 spectators for the tournament, followed worldwide by millions of golf enthusiasts. The winner of the tournament gets $1,170,000 of the $6.5 million purse.

DLF provides turfgrass seed to the famous golf course located in Scottsdale, Arizona, through DLF Pickseed. The DLF Group has supplied turfgrass for the golf course for more than 15 years. We are a very proud supplier of the planting seed for “The Largest Show on Turf” at TPC-Scottsdale.
Quick Facts

RHIZING STAR is a new and improved, heat and disease resistant tall fescue variety developed for superior turf quality across a wide area of adaptation. RHIZING STAR is a dark green, moderately fine textured variety that exhibits excellent wear tolerance, improved turf density and resistance to Brown Patch. It quickly forms a strong dense turf because of its rhizomatous root system. RHIZING STAR is endophyte enhanced for added disease resistance.

RHIZING STAR is recommended for permanent turf in full or partial shade on golf course roughs and low maintenance sites. It is an excellent choice for sod growers. It can be utilised in polyspecies grass seed mixtures maintained at a moderate height of cut.

USE

High traffic conditions
Parks & reserves
Sod turf growers
Golf courses

SOWING RATE
35-45 (g/m²)
(25-35 when oversowing)

ENDOPHYTE LEVEL
High

BENEFITS

Good drought tolerance
Good disease resistance
Excellent wear tolerance
Very good density
Good disease resistance
Dark green colour

RATING

Density

Wear tolerance

Colour

Fineness of leaves
Jamboree
Tall Fescue

Quick Facts

JAMBOREE is a unique medium-to-low growing tall fescue with dark green color that is noted for its dense, fine bladed turf and resistance to brown patch. JAMBOREE will produce persistent, superior quality turf in marginal conditions. It is ideal for high traffic areas requiring low maintenance. Rapid establishment and early spring green up round out this adaptable variety that is a top choice for home lawns, parks and playing fields.

JAMBOREE is recommended for permanent turf in full or partial shade on golf course roughs, out of bounds areas and low maintenance sites. It can be utilized in polyspecies grass seed mixtures maintained at a moderate height of cut. Can be used in dry temperate regions in addition to hot and humid regions with excellent results.

USE
High traffic conditions
Parks & reserves
Sod turf growers
Golf courses

SOWING RATE
35-45 (g/m²)
(25-35 when oversowing)

BENEFITS
Rapid establishment
Dense fine blades
Medium dark green
Brown patch resistant
Wear tolerant
Disease resistance

RATING
Leaf texture

Wear tolerance

Salt tolerance

Drought tolerance

DLF HAS SUPPLIED GRASS SEED FOR
2016 Olympics in Rio and 2012 Olympics in London
**Quick Facts**

MYSTIC is breaking the rules with its density as it is far greater than any other variety in this group of red fescues.

Often a variety has one strong point in disease resistance, but MYSTIC has several! In the official trials in France, MYSTIC has scored high resistance not only in both rust - and helminthosporium resistance, but also against fusarium.

<table>
<thead>
<tr>
<th></th>
<th>Index</th>
<th>Resistance to Rust</th>
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**USE**
- Sports fields
- Golf courses
- Home lawns
- Parks & reserves
- Landscaping

**SOWING RATE**
- 35-45 (g/m²)
- (25-35 when oversowing)

**BENEFITS**
- High persistence
- Very high shoot density
- High rust resistance
- High fusarium resistance

**REFERENCE**

*Having used all DLF seed for the brand new Orlando Country Club Golf Course in Palmerston North, the fantastic response and even establishment allowed us to open on time & with a beautifully presented course.*

*Would absolutely recommend DLF Seeds to anyone establishing or renovating lawns, sports fields, or courses.*

*Henry Lourie, Orlando Country Club, Palmerston North*
**Quick Facts**

LONGFELLOW 3 chewings fescue is an elite variety with improvements in overall turf quality and especially high marks for disease resistance. It will perform well in traffic, heat and shade. With high levels of naturally occurring endophyte, LONGFELLOW 3 will repel surface feeding insects, thereby reducing stress and vulnerability to disease.

LONGFELLOW 3 is designed to be used in mixtures, typically with perennial ryegrass and Kentucky bluegrass or other mixes where chewing fescue is a desirable component. It has a bright dark green color that blends well and will add factors of increased disease resistance and wear tolerance to the mix.

**USE**
- Golf courses
- Sports fields
- Sod turf growers
- Landscaping

**SOWING RATE**
- 35-45 (g/m²)
- (25-35g/m² when oversowing)

**BENEFITS**
- Dark green colour
- Disease resistance
- Endophyte enhanced
- Good shade tolerance

**RATING**
- Turf Quality
- Disease Resistance
- Shade Tolerant
- Drought tolerant
Quick Facts

SABRE 4 is the latest generation of improved *Poa trivialis*. It has greatly improved shoot density, leaf texture and color, as well as resistance to leaf spot diseases. It performs better under cold, wet conditions than the previous improved *Poa trivialis* varieties did, including Sabre II, Winterplay and Fuzzy. SABRE 4 was specifically bred for overseeding, and out-performs other overseeding products with quick establishment, cover and frost tolerance. Its erect growth habit, fine leaf texture and tolerance of close mowing makes it ideally suited for overseeding on golf courses.

It can also be used in mixtures for shady areas, as *Poa trivialis* is one of the most shade tolerant species available. When used in mixtures, it should be incorporated at 10-15% of the mixture.

**USE**
- Sports fields
- Shady areas
- Home lawns
- Golf courses

**SOWING RATE**
- 15-20 (g/m²)
- (5-15 when oversowing)

**BENEFITS**
- Dark green colour
- Quick establishment
- Very fine textured
- Good cold tolerance
- Disease resistant

**RATING**
- Shade tolerance
- Good
- Fineness of leaves
- Good
- Colour
- Good
Quick Facts

LASER *Poa trivialis* tolerates an extremely low height of cut due to its prostrate growth habit. This leads to fewer clippings, a neater appearance and less work for you. Used alone or blended with perennial ryegrass and/or Chewings fescue, LASER germinates quickly and can be cut immediately after over-seeding, making it a natural choice for winter over-seeding. Because LASER is exceptionally cold tolerant and retains its colour in cool weather, it can be used in many areas. It is also very shade and damp tolerant. Whatever your growing situation, the darker green colour of LASER will stand out on the course!

**USE**
- Sports fields
- Shady areas
- Golf courses
- Home lawns

**SOWING RATE**
- 15-20 (g/m²)
- (5-15 when oversowing)

**BENEFITS**
- Excellent shade tolerance
- Quick establishment
- Medium green colour
- Cold tolerance

**RATING**
- Germination
- Shade tolerance
- Establishment
- Colour
NZ Browntop

Browntop Bent

For that Luxury Look!

Quick Facts

Browntop

For high quality, prestige golf greens NZ BROWNTOP Bent is the cultivar of choice. More and more greenkeepers are now using bent grasses in their greens and tees.

NZ BROWNTOP has a high leaf density, fine textured and a uniformed mid green colour. Blends well with chewing’s and creeping fescues for bowling greens and golf greens. Has good salt tolerance for all those costal courses! Responds quickly in the spring, even under low fertiliser inputs. Has a low maintenance requirement as opposed to creeping bent grasses, plus great disease resistance.

NZ BROWNTOP bent can be used in ornamental garden lawns and landscaping where high quality varieties are required.

NZ BROWNTOP can certainly compete with the best bent grasses of the world!

USE
- Golf courses
- Landscaping
- Bowling & croquet greens
- Home lawns

SOWING RATE
- 15-20 (g/m²)
- (5-10 when oversowing)

BENEFITS
- Very high density
- Uniform green
- Fine textured
- Fast spring green-up
- Low inputs
- Good salt tolerance

RATING
- Density
- Fineness of leaves
- Salt tolerance
Quick Facts

DENSO Browntop Bent is used extensively on golf greens in mixtures with Red Fescue and Chewings Fescue for low input purposes. With its mid uniform green colour DENSO always looks great. It tolerates close mowing very well. The shoot density is high and it is very adaptable to changeable growing conditions.

DENSO has a high salt tolerance as well as being winter hardy. DENSO reacts quickly in the spring to help maintain a high quality putting surface. DENSO requires less maintenance than creeping bent grasses which can be beneficial where budgets are tight.

Shaped for today’s demands!
Where moderate maintenance and pesticide use is critical, DENSO is becoming more popular!

USE
- Golf courses
- Landscaping
- Bowling & croquet greens
- Home lawns

SOWING RATE
- 15-20 (g/m²)
- (5-10 when oversowing)

BENEFITS
- Very dense
- Uniform green
- Fine textured
- Fast spring green-up
- Low inputs
- Very winter hardy in cold conditions
- Good salt tolerance

RATING
Density
Fineness of leaves
Salt tolerance
Quick Facts
Many years of natural selection have resulted in revolutionary microclovers with all the benefits of traditional clover packed into very tiny leaves.

Healthy & Lush
PIROUETTE MICROCLOVER® “spoon feeds” nitrogen to the grass, producing a healthy, dense and naturally green lawn that is easy to maintain.

Weed Free Turf
The vigorous and dense growth of clover and grass together crowds out existing weeds and prevents new weeds from establishing. The unique dense stolon structure allows it to tolerate exceptionally low mowing heights.

Green Lawn all year long
PIROUETTE MICROCLOVER® has been bred to stay green from spring to winter. The healthy growth of the accompanying grasses contributes to the overall attractive green color which remains throughout the year.

Environmentally friendly
Very little fertilizer, fungicides and water are required for PIROUETTE MICROCLOVER®. It would be difficult to find a more environmentally friendly, cost effective, and low maintenance turf solution!

USE
Landscaping
Home lawns
Sports fields
Parks & reserves
Blends

SOWING RATE
2.5-5 (g/m²)
(5% in mixtures)

BENEFITS
Naturally green
Crowds out weeds
Tolerates close mowing
Low maintenance
Nitrogen enhancement

RATING
Density
Fineness of leaves
Salt tolerance

DLF HAS SUPPLIED GRASS SEED FOR Roskilde Festival (In front of Orange Stage)
Turf Blends

DLF SEEDS has formulated 5 turf blends covering almost every possible turf requirement in one application. Stock is readily available off the shelf and is always well-priced.

DLF SEEDS turf blends are a very convenient way to save you time and effort, and removes any potential errors in getting the proportions just right. Using DLF SEEDS turf blends also minimises your losses as you won’t be stuck with left-over part bags.

DLF SEEDS uses only the top certified varieties in each blend.

<table>
<thead>
<tr>
<th>Mixes</th>
<th>Uses</th>
<th>Blend</th>
<th>% Mix Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Golf Master</td>
<td>Fairways</td>
<td>Perennial Rye Grass</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Tees</td>
<td>Creeping Red Fescue</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Fine Lawns</td>
<td>Chewings Fescue</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Browntop Bent</td>
<td>5</td>
</tr>
<tr>
<td>Sports Master</td>
<td>Stadiums</td>
<td>Turf Perennial Ryegrass</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Sports Fields</td>
<td>Turf Perennial Ryegrass</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Out fields</td>
<td>Turf Perennial Ryegrass</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Rye fairways</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lawn Master</td>
<td>Fescue blend</td>
<td>Tall Fescue</td>
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<tr>
<td></td>
<td>Lawns</td>
<td>Creeping Red Fescue</td>
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<tr>
<td></td>
<td>Fescue fairways</td>
<td>Chewings Fescue</td>
<td>10</td>
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<tr>
<td></td>
<td>Shade areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luxury Master</td>
<td>Ornamental Lawns</td>
<td>Chewings Fescue</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Fescue greens</td>
<td>Creeping Red Fescue</td>
<td>50</td>
</tr>
<tr>
<td>All Terrain Master</td>
<td>Vineyards</td>
<td>Turf Perennial Ryegrass</td>
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<tr>
<td></td>
<td>Landscaping</td>
<td>Chewings Fescue</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Golf tees</td>
<td>Browntop Bent</td>
<td>10</td>
</tr>
<tr>
<td>Leaves expanded</td>
<td>Rhizomes Present</td>
<td>No rhizomes</td>
<td>RED FESCUE Festuca rubra trichophylla</td>
</tr>
<tr>
<td>-----------------</td>
<td>-----------------</td>
<td>-------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Leaf folded in shoot</td>
<td>Upper leaf surface ribbed</td>
<td>Auricles present</td>
<td>No rhizomes</td>
</tr>
<tr>
<td>Leaf rolled in shoot</td>
<td>Leaves hairy</td>
<td>White rhizomes present</td>
<td>No rhizomes</td>
</tr>
<tr>
<td>Leaves not hairy</td>
<td>Auricles present</td>
<td>Hairless auricles</td>
<td>Rhizomes present</td>
</tr>
<tr>
<td>Auricles present</td>
<td>Remains of old Leaf sheaths at base</td>
<td>Rhizomes or stolon present</td>
<td>Rhizomes</td>
</tr>
<tr>
<td>Auricles absent</td>
<td>No remains of old Leaf sheaths at base</td>
<td>No rhizomes or stolon present</td>
<td>Stolons</td>
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<tr>
<td>Base not bulbous. Purple Leaf sheath</td>
<td>Base not bulbous. Purple Leaf sheath</td>
<td>Base not bulbous. Purple Leaf sheath</td>
<td></td>
</tr>
</tbody>
</table>

**Grass Specimen Identification Guide**
Dedicated to bringing out the very best in seed

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EDITION 2