



R-Range Grass Seed

For sports and amenity



Origin Amenity Solutions (OAS) is a leading supplier of grass seed to the UK amenity market. Working in partnership with grass breeders, OAS has developed a range of grass seeds to suit applications across the sports, golf, amenity and landscape markets, utilising experience and knowledge to source the most optimum cultivars .

As technology has developed the team has worked hard to further enhance its range to include cultivars that can survive the ever-changing climate conditions we are witnessing. Utilising research, development and testing programmes OAS is making great strides to support the amenity sector with grass seed mixes that will endure future climate changes.



Carbon4Grass has been developed to support the industry's awareness of carbon mitigation and the value of grasses for carbon sequestration

Carbon4Grass mixes contain cultivars that sequester relatively more carbon than typical grass seed mixes, offsetting carbon greenhouse gas emissions by machinery and equipment used on-site.

The greenhouse effect

Grasses, just like trees are chlorophyll-based plants, absorbing carbon dioxide (CO₂) from the atmosphere through photosynthesis. A proportion of the absorbed carbon is transferred from the dense canopy of grasses into the fibrous root system and finally into the soil. It is estimated that one hectare of natural, open grassland can sequester up to 2.5 tonnes of CO₂eq per annum, creating a net carbon sink within the soil profile.

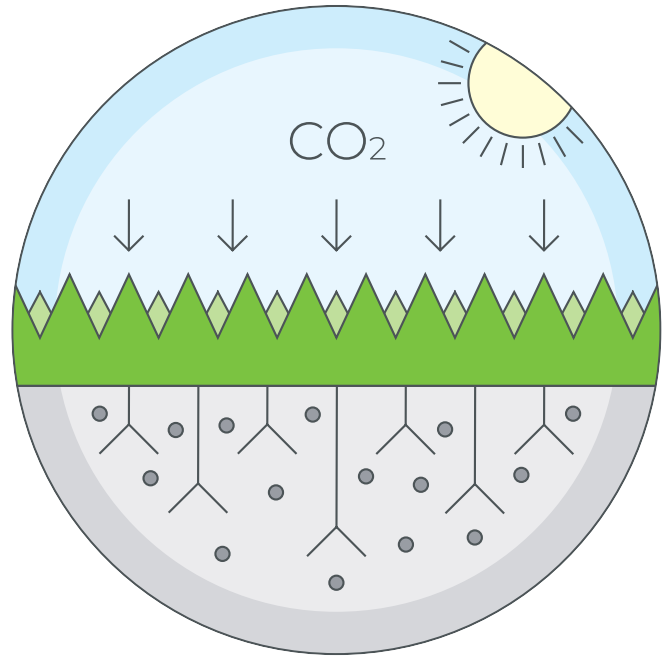
Managed turf

Intensively managed amenity grass surfaces have, by definition, a higher impact on the environment than unmanaged grassland. With frequent maintenance and mowing the carbon footprint increases, reinforcing the case for Carbon4Grass seed mixes that mitigate the impact of carbon production.

“Carbon4Grass mixes have been developed over two decades of controlled trial plot studies. It follows published research of carbon sequestration in trees which aroused our curiosity to the possibility that grasses could support the same concept of carbon sequestration through their ligneous roots systems and that differences must exist between species and cultivars. It has enabled the team to create a comprehensive range of Carbon4Grass mixes that is mindful of the amenity environment whilst offering carbon offset solutions for greenkeepers, landscapers and grounds maintenance professionals.”

Howard Wood
Independent Environmental Consultant

Every mix has now been rated with a carbon sequestration score. For more information, please email sales@originamenity.com



Carbon dioxide is absorbed by the grass canopy during photosynthesis and sequestered through the fibrous root system into the soil as plants senesce and decompose



Product Selector

| Product | Carbon Sequestration t.CO ₂ eq/Ha\$ | Application | | | | | | | Germin-8T Treated | Tetraploid Technology | Carbon4Grass Mix | |
|-------------------------|--|-----------------------|------------------------------|------------------|---------------------------------|-----------------------|---------------------|----------|-------------------|-----------------------|------------------|-----------|
| | | Golf & Bowling Greens | Golf Tees, Fairways & Roughs | Cricket & Tennis | Sports Pitches & Playing Fields | Race Courses and Polo | Lawns & Landscaping | Paddocks | | | | Airfields |
| R140 | 7.87 | | ● | | ● | ● | | | | ● | ● | ● |
| Sports Field Renovation | 8.58 | | | | ● | ● | | | | ● | ● | ● |
| 3 Way Rye | 9.43 | | ● | | ● | ● | | | | ● | ● | ● |
| 4 Tetra | 10.00 | | ● | | ● | ● | | | | ● | ● | ● |
| R314 Rye | 9.32 | | ● | | ● | ● | | | | ● | ● | ● |
| R25CRT | 9.70 | | ● | ● | ● | ● | | | | ● | ● | ● |
| R6CRT | 9.65 | | ● | ● | | | | | | ● | ● | ● |
| Super Root | 9.09 | | ● | ● | ● | ● | ● | | | ● | ● | ● |
| R105 | 9.99 | ● | | | | | | | | ● | | ● |
| R103 | 9.99 | ● | | | | | | | | ● | | ● |
| Egmont | 9.99 | ● | | | | | | | | ● | | ● |
| Cobra Nova | 9.99 | ● | | | | | | | | | | ● |
| R117 | 9.69 | ● | | | | | | | | ● | | ● |
| R1 | 9.75 | ● | | | | | | | | ● | | ● |
| R2 | 9.83 | ● | | | | | | | | ● | | ● |
| Traditional Greens | 7.04 | ● | | | | | | | | | | ● |
| R116 | 11.30 | ● | ● | | | | | | | ● | | ● |
| R8 | 8.25 | ● | ● | ● | | | | | | ● | | ● |
| R9 | 9.09 | ● | ● | ● | | | ● | | | ● | | ● |
| R91 | 7.38 | ● | ● | ● | | | ● | | | ● | | ● |
| R5 | 9.81 | | ● | | | | | | | ● | | ● |
| Pure Fescue | 9.74 | | ● | | | | | | | ● | | ● |
| 3 Way Fescue | 12.84 | | ● | | | | | | | ● | | ● |
| R4 | 10.38 | | ● | | | | | | | ● | | ● |
| Low Maintenance | 11.13 | | ● | ● | | | ● | | | ● | | ● |
| R14 | 8.87 | | | | ● | ● | | | | ● | | ● |
| R14CR | 9.42 | | | | ● | ● | | | | ● | | ● |
| R11 | 8.29 | | | | ● | ● | | | | ● | | ● |
| R41 | 7.66 | ● | ● | ● | ● | | | | | ● | | ● |
| R13 | 9.84 | | ● | ● | | | | | | ● | | ● |
| Multi-Use | 7.11 | | ● | | | | ● | | | | | ● |
| Fine Turf | 12.46 | | ● | | | | ● | | | ● | | ● |
| Shade | 7.24 | | ● | | | | ● | | | | | ● |
| R450 | 7.36 | | | | | | ● | | | ● | | ● |
| R460A | 8.96 | | | | | | ● | ● | ● | ● | ● | ● |
| Drought | 8.01 | | ● | | ● | | ● | | | ● | | ● |
| Pitches | 7.95 | | | | ● | ● | | | | | | ● |
| Parks | 7.66 | | | | ● | | ● | | | | | ● |
| Horse Paddock | - | | | | | | | ● | | | | |

Features

| Rapid Establishment | Strong Roots | Fine Leaved | High Shoot Density | Year-round Colour | Wear Tolerant | Shade Tolerant | Drought Tolerant | Cold Tolerant | Heat Tolerant | Disease Tolerant | Salt Tolerant | Close Mow Tolerant | Cleaner Cut | Page |
|---------------------|--------------|-------------|--------------------|-------------------|---------------|----------------|------------------|---------------|---------------|------------------|---------------|--------------------|-------------|------|
| ● | ● | | | ● | ● | ● | ● | ● | ● | ● | | | | 6 |
| ● | ● | | | ● | ● | ● | ● | ● | ● | ● | | | | 7 |
| ● | ● | | | ● | ● | | ● | ● | ● | ● | | | | 8 |
| ● | ● | | | ● | ● | ● | ● | ● | ● | ● | | | | 9 |
| ● | ● | | | ● | ● | ● | ● | ● | ● | ● | | | | 10 |
| ● | ● | | | ● | ● | ● | ● | ● | ● | ● | | | | 11 |
| ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | | | 12 |
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| | | | ● | ● | | | | | | ● | | ● | | 14 |
| | | | ● | ● | | | | | | ● | | ● | | 15 |
| | | ● | ● | ● | | | | | | ● | | ● | | 16 |
| | | ● | ● | ● | | | | | | ● | | ● | | 17 |
| | | ● | ● | | | | | | | ● | ● | ● | | 18 |
| | | ● | ● | ● | | | | | | ● | | ● | | 19 |
| | | ● | ● | ● | | | | | | ● | | ● | | 20 |
| | | ● | ● | | | | | | | | | ● | | 21 |
| ● | | ● | ● | ● | | | | | | ● | | ● | ● | 22 |
| ● | | ● | ● | ● | ● | | ● | | | ● | | ● | ● | 23 |
| ● | | ● | ● | ● | ● | | ● | | | ● | | ● | ● | 24 |
| ● | | ● | ● | ● | ● | | | | | ● | | ● | ● | 25 |
| | | ● | ● | | | ● | ● | | | ● | ● | | | 26 |
| | | ● | ● | | | ● | ● | | | ● | ● | | | 27 |
| | ● | ● | ● | | | ● | ● | | | ● | | | | 28 |
| ● | ● | ● | ● | ● | ● | ● | ● | | | ● | | | ● | 29 |
| ● | ● | ● | ● | ● | ● | ● | ● | | | ● | | | | 30 |
| ● | | | | ● | ● | | | | | ● | | | | 31 |
| ● | ● | | | ● | ● | | | | | ● | | | | 32 |
| ● | | | | ● | ● | | | | | ● | | | | 33 |
| ● | | ● | ● | ● | ● | | | | | ● | | ● | | 34 |
| ● | ● | ● | ● | ● | ● | | | | | ● | | | ● | 35 |
| ● | ● | | | ● | ● | | | | | | | | | 36 |
| | ● | ● | ● | | | ● | ● | | | | | | | 37 |
| ● | | | ● | ● | ● | ● | ● | | | | | | | 38 |
| ● | ● | ● | ● | ● | ● | ● | ● | | | ● | | | | 39 |
| | ● | | | ● | ● | | ● | ● | ● | ● | ● | | | 40 |
| | ● | | | ● | ● | | ● | | ● | | ● | | | 41 |
| ● | ● | | | ● | ● | | | | | | | | | 42 |
| ● | ● | | | ● | ● | | | | | | | | | 43 |
| ● | | | | ● | | | | | | | | | | 44 |



R140

Hard wearing 100% perennial ryegrass blend with Tetraploid Technology

Double the number of chromosomes makes tetraploid perennial ryegrasses high vigour, extremely stress tolerant plants. Increased cellular chloroplast boosts chlorophyll production, aiding energy absorption and processing. The outcome is a robust, hard-wearing, healthier plant with advanced establishment and recovery capability, even in cooler temperatures down to 4°C, a distinct benefit any time of year. Stronger, denser root mass supports tensile strength and drought tolerance.

Cultivars

25% Fabian: Tetraploid perennial ryegrass

Tetraploid, vigorous, high disease tolerance, cold temperature growth, drought

25% Tetrastar: Tetraploid perennial ryegrass

Tetraploid, robust, elevated disease and drought tolerance, cold temperature growth

25% EuroCordus: Perennial ryegrass

Extremely hard wearing and fast recovery after wear

25% Columbine: Perennial ryegrass

High wear tolerance and excellent winter colour

| Turfgrass Seed 2024 | Wear tolerance | Recovery |
|---------------------|----------------|----------|
| EuroCordus | 7.8 | 7.3 |
| Columbine | 7.4 | 7.1 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 40 – 60g/m ² | 25 – 35g/m ² | 12 – 15mm | Down to 12mm |

Usage

- Natural and hybrid grass sports pitches
- Racecourses and polo pitches
- Intense wear golf tees
- Transitional autumn overseeding
- Cold temperature repairs

Performance

- High energy seed with fast germination from just 4°C
- Increased chloroplast boosts chlorophyll and energy production
- Superior winter wear with robust re-growth
- Stronger, deeper, denser root mass for tensile strength and drought tolerance
- Exceptional tolerance to Leaf Spot, *Microdochium* Patch, Red Thread and Rust
- A perfectly balanced blend for quality visuals

Carbon Sequestration

7.87 t.CO₂eq/Ha

Pack Size: 20kg

Order Code: OAI000850



Germin-8T Treated Seed



Tetraploid Technology



Carbon4 Grass Mix



Rapid Establishment



Strong Roots



Year-round Colour



Wear Tolerant



Shade Tolerant



Drought Tolerant



Cold Tolerant



Heat Tolerant



Disease Tolerant



Sports Field Renovation

Hard wearing 100% perennial ryegrass blend with Tetraploid Technology

With robust tetraploid perennial ryegrass, this hard wearing, well-balanced blend grows and recovers in colder conditions. Deep, dense rooting provides improved tensile strength, heat and drought tolerance. Tetraploid seed is higher energy than ultra-fine ryegrass, providing rapid germination and re-growth from just 4°C, especially useful when renovation windows are short and for in-season repairs.

Cultivars

25% Tetragame: Tetraploid perennial ryegrass

Tetraploid, robust, high disease tolerance, cold temperature growth, drought

25% Tetragreen: Tetraploid perennial ryegrass

Tetraploid, robust, high disease tolerance, cold temperature growth, drought

25% Columbine: Perennial ryegrass

Intense wear tolerance with fast recovery and excellent winter colour

25% Berlioz 1: Perennial ryegrass

High wear tolerance with good recovery

| Turgrass Seed 2024 | Wear | Recovery | Winter green | Summer green |
|--------------------|------|----------|--------------|--------------|
| Tetragame | 5.6 | 5.3 | 6.9 | 7.3 |
| Tetragreen | 5.0 | 4.4 | 7.5 | 7.5 |
| Columbine | 7.4 | 7.1 | 6.2 | 5.7 |
| Berlioz 1 | 7.2 | 6.7 | 5.7 | 5.5 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 40 – 60g/m ² | 25 – 35g/m ² | 12 – 15mm | Down to 12mm |

| | | | | | |
|---|--|--|--|--|--|
|  Germin-8T Treated Seed |  Tetraploid Technology |  Carbon4 Grass Mix |  Rapid Establishment |  Strong Roots |  Year-round Colour |
|  Wear Tolerant |  Shade Tolerant |  Drought Tolerant |  Cold Tolerant |  Heat Tolerant |  Disease Tolerant |

Usage

- Natural grass and hybrid sports pitches
- Playing fields
- Racecourses
- Mid-season overseeding
- Cold temperature repairs
- Increasing disease, drought and heat tolerance

Performance

- High energy seed with fast germination from just 4°C
- Increased chloroplast boosts chlorophyll and energy production
- Superior winter wear with robust re-growth
- Stronger, deeper, denser root mass for tensile strength and drought tolerance
- Exceptional tolerance to Leaf Spot, Microdochium, Red Thread and Rust

Carbon Sequestration

8.58 t.CO₂eq/Ha

Pack Size: 20kg

Order Code: OAI001032



3 Way Rye

Hard-wearing 100% perennial ryegrass blend with Tetraploid Technology

3 Way Rye is a versatile, balanced 100% amenity perennial ryegrass blend. The inclusion of tetraploid perennial ryegrass means it grows and recovers in colder conditions as well as having improved tolerance to heat and drought. With improved stabilisation through its deep, dense rooting, this robust and hard-wearing blend is an extremely cost-effective solution for intense wear surfaces.

Cultivars

50% Tetragreen: Tetraploid perennial ryegrass

Robust, high disease tolerance, cold temperature growth, drought

25% Greenway: Perennial ryegrass

Hard-wearing yet fine leafed with good density, adding base to the sward

25% Essence: Perennial ryegrass

Good wear tolerance, gives uniform colour to the sward

| Turfgrass Seed 2024 | Wear | Shoot density | Fine leaf | Red thread |
|---------------------|------|---------------|-----------|------------|
| Tetragreen | 5.0 | 4.8 | 4.4 | 7.2 |
| Greenway | 6.4 | 6.4 | 7.0 | 6.1 |
| Essence | 6.3 | 6.5 | 6.2 | 4.7 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 30 – 50g/m ² | 25 – 35g/m ² | 12 – 15mm | Down to 12mm |

Usage

- Racecourses
- Sports pitches and playing fields
- Golf tees, fairways and walkways
- Winter repairs

Performance

- Quick establishment
- Hard-wearing
- Germinates and grows in cold temperatures down to 4°C
- Deep, dense rooting for improved heat and drought tolerance
- Increases disease tolerance
- Uniform colour

Carbon Sequestration

9.43 t.CO₂eq/Ha



Germin-8T Treated Seed



Tetraploid Technology



Carbon4 Grass Mix



Strong Roots



Wear Tolerant



Drought Tolerant



Cold Tolerant



Heat Tolerant



Disease Tolerant

Pack Size: 20kg

Order Code: OAI000854



4Tetra

100% Tetraploid perennial ryegrass blend

Double the number of chromosomes makes tetraploid perennial ryegrasses high vigour, extremely stress tolerant plants. Increased cellular chloroplast boosts chlorophyll production, aiding energy absorption and processing. The outcome is a robust, hard-wearing, healthier plant with advanced establishment and recovery capability, even in colder temperatures down to 4°C. Stronger, deeper, denser root mass supports tensile strength, drought tolerance and recovery.

Cultivars

25% Fabian: Tetraploid perennial ryegrass

25% Tetrastar: Tetraploid perennial ryegrass

25% Tetragame: Tetraploid perennial ryegrass

25% Tetragreen: Tetraploid perennial ryegrass

All hard-wearing tetraploid, with germination from 4°C, high disease and drought tolerance

| Turfgrass Seed 2024 | Winter greenness | Summer greenness |
|---------------------|------------------|------------------|
| Fabian | 6.7 | 6.6 |
| Tetrastar | 7.7 | 8.0 |
| Tetragame | 6.9 | 7.3 |
| Tetragreen | 7.5 | 7.5 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 40 – 60g/m ² | 25 – 35g/m ² | 12 –15mm | Down to 12mm |

Usage

- Natural grass and hybrid sports pitches
- Playing fields
- Racecourses
- Golf tees, fairways, semi-roughs and walkways
- Cold temperature seeding down to 4°C

Performance

- High energy seed with fast germination from just 4°C
- Increased chloroplast boosts chlorophyll and energy production
- Superior winter wear with robust, upright re-growth
- Stronger, deeper, denser root mass for tensile strength and drought tolerance
- Exceptional tolerance to Leaf Spot, *Microdochium* Patch, Red Thread and Rust

Carbon Sequestration

10.00 t.CO₂eq/Ha

Pack Size: 20kg

Order Code: OAI000868



Germin-8T
Treated Seed



Tetraploid
Technology



Carbon4
Grass Mix



Rapid
Establishment



Strong
Roots



Year-round
Colour



Wear
Tolerant



Shade
Tolerant



Drought
Tolerant



Cold
Tolerant



Heat
Tolerant



Disease
Tolerant



R314 Rye

Cold temperature ryegrass repair

R314 Rye is the ultimate blend of quality amenity annual and tetraploid perennial ryegrasses that help keep surfaces fit for use throughout the winter and early spring months. New, darker green cultivar Quickston annual ryegrass germinates from just 3°C supported in R314 Rye by tetraploid perennial ryegrasses which germinate from just 4°C. The blend is not only unrivalled for cold temperature recovery but also offers longevity through 70% tetraploids which provide tensile strength, drought and disease tolerance and recovery after wear going forward.

Cultivars

50% Quickston: Amenity annual ryegrass

Germination from just 3°C, the ultimate for cold temperatures

25% Fabian: Tetraploid perennial ryegrass

Hard-wearing, with germination from 4°C, high disease and drought tolerance

25% Tetragreen: Tetraploid perennial ryegrass

Germination from 4°C, strong, deep dense roots for tensile strength

| Turfgrass Seed 2024 | Wear | Recovery | Winter green |
|---------------------|------|----------|--------------|
| Quickston | - | - | - |
| Fabian | 6.4 | 6.2 | 6.7 |
| Tetragreen | 5.0 | 4.4 | 7.5 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 40 – 60g/m ² | 30 – 40g/m ² | 12 – 15mm | Down to 12mm |

Usage

Cold temperature repairs for:

- Sports pitches
- Racecourses
- Playing fields and outfields
- Golf tees and fairways
- Grass walkways

Performance

- Cold temperature repairs
- High energy seed with fast germination from just 3°C
- Increased chloroplast boosts chlorophyll and energy production
- Superior winter wear with robust re-growth
- Stronger, deeper, denser root mass for tensile strength and drought tolerance
- Exceptional tolerance to Leaf Spot, *Microdochium* Patch, Red Thread and Rust diseases

Carbon Sequestration

9.32 t.CO₂e/Ha

Pack Size: 20kg

Order Code: OAI000821



Germin-8T
Treated Seed



Tetraploid
Technology



Carbon4
Grass Mix



Strong
Roots



Year-round
Colour



Wear
Tolerant



Shade
Tolerant



Drought
Tolerant



Cold
Tolerant



Heat
Tolerant



Disease
Tolerant



R25 CRT

Hard-wearing 100% perennial ryegrass blend with Tetraploid and creeping ryegrass technologies

R25 CRT is an extremely hard-wearing 100% perennial ryegrass blend with the benefit of both tetraploid and creeping ryegrasses together with top performing diploids. This leading innovation provides fast establishment and great recovery capability for high impact wear and stressed turf surfaces.

Cultivars

25% Fabian: Tetraploid perennial ryegrass

Tetraploid, robust, high disease tolerance, cold temperature growth, drought

25% Creepstar: Creeping perennial ryegrass

Hard-wearing, high density, fine-leaved creeping perennial ryegrass, high tillering from the crown in combination with ultra-fine leaf

25% Cameron: Perennial ryegrass

Extremely hard-wearing, high density and very fineleaved with the fastest recovery

25% Angelina: Perennial ryegrass

Fast recovery after wear and great cleanness of cut

| Turfgrass Seed 2024 | Wear | Recov. | Shoot density | Red thread | Clean cut | Visual merit |
|---------------------|------|--------|---------------|------------|-----------|--------------|
| Fabian | 6.1 | 6.2 | 5.0 | 6.7 | - | 6.1 |
| Creepstar | 6.4 | 6.3 | 7.3 | 6.0 | 4.6 | 7.2 |
| Cameron | 7.2 | 7.6 | 7.6 | 5.7 | 7.5 | 7.7 |
| Angelina | 7.2 | 7.4 | 7.3 | 5.8 | 7.7 | 7.3 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 35 – 50g/m ² | 15 – 30g/m ² | 10 – 15mm | Down to 7mm |

Usage

- Golf tees fairways, semi-roughs, walkways
- Cricket squares and outfield, especially for dual use with winter pitches
- Tennis courts
- Construction and renovation of natural grass and hybrid pitches
- Construction and renovation of racecourses
- Polo pitches
- Colder temperature repairs down to 4°C
- Increase drought and disease tolerance

Performance

- Tetraploid gives fast germination from just 4°C
- Superior winter wear with robust regrowth
- Creeping rye to aid establishment and recovery
- Stronger, deeper, denser root mass for tensile strength and drought tolerance
- Exceptional tolerance to Leaf Spot, *Microdochium* Patch, Red Thread and Rust diseases
- Excellent colour and presentation

Carbon Sequestration

9.70 t.CO₂eq/Ha

Pack Size: 20kg

Order Code: OAI00844



Germin-8T Treated Seed



Tetraploid Technology



Carbon4 Grass Mix



Rapid Establishment



Strong Roots



Year-round Colour



Wear Tolerant



Shade Tolerant



Drought Tolerant



Cold Tolerant



Heat Tolerant



Disease Tolerant



R6 CRT

Tetraploid, creeping and diploid ryes with fine fescue

R6 CRT is an extremely hard-wearing, drought tolerant mix with the benefit of both tetraploid and ultra-fine creeping and diploid ryegrasses together with fine fescues. This leading innovation provides fast establishment and great recovery for stressed areas.

Cultivars

20% Fabian: Tetraploid perennial ryegrass

Tetraploid, robust, high disease tolerance, cold temperature growth, drought

20% Creepstar: Creeping perennial ryegrass

Hard-wearing, high density, fine-leaved creeping perennial ryegrass, high tillering from the crown in combination with ultra-fine leaf

20% Cameron: Perennial ryegrass

Extremely hard-wearing, high density and very fineleaved with the fastest recovery

20% Absolom: Slender creeping red fescue

High density and very fine leaf, rhizomes for recovery, excellent tolerance to Red Thread disease

20% Dumas 1: Hard fescue

Superior drought tolerance for a fine fescue

Usage

- Golf tees, fairways, short roughs, driving ranges
- Cricket outfields

Performance

- Tetraploid provides fast germination from just 4°C
- Increased wear
- Creeping rye to aid establishment and recovery
- Stronger, deeper, denser root mass for tensile strength and drought tolerance
- Exceptional tolerance to Leaf Spot, *Microdochium* Patch, Red Thread and Rust diseases
- Excellent colour and presentation

Carbon Sequestration

9.65 t.CO₂eq/Ha

| Turfgrass Seed 2024 | Shoot density | Fine leaf | Red thread | Visual merit | Wear | Recov. |
|---------------------|---------------|-----------|------------|--------------|------|--------|
| Fabian | 5.0 | 5.0 | 6.7 | 5.7 | 6.1 | 6.2 |
| Creepstar | 7.3 | 7.6 | 5.3 | 7.2 | 6.4 | 6.3 |
| Cameron | 7.6 | 7.6 | 5.7 | 7.7 | 7.2 | 7.6 |
| Absolom | 7.5 | - | 7.8 | 7.7 | - | - |
| Dumas 1 | 5.9 | - | 6.3 | 5.9 | - | - |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 30 – 35g/m ² | 15 – 25g/m ² | 4 – 8mm | Down to 7mm |



Germin-8T Treated Seed



Tetraploid Technology



Carbon4 Grass Mix



Rapid Establishment



Strong Roots



Wear Tolerant



Shade Tolerant



Drought Tolerant



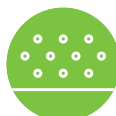
Cold Tolerant



Heat Tolerant



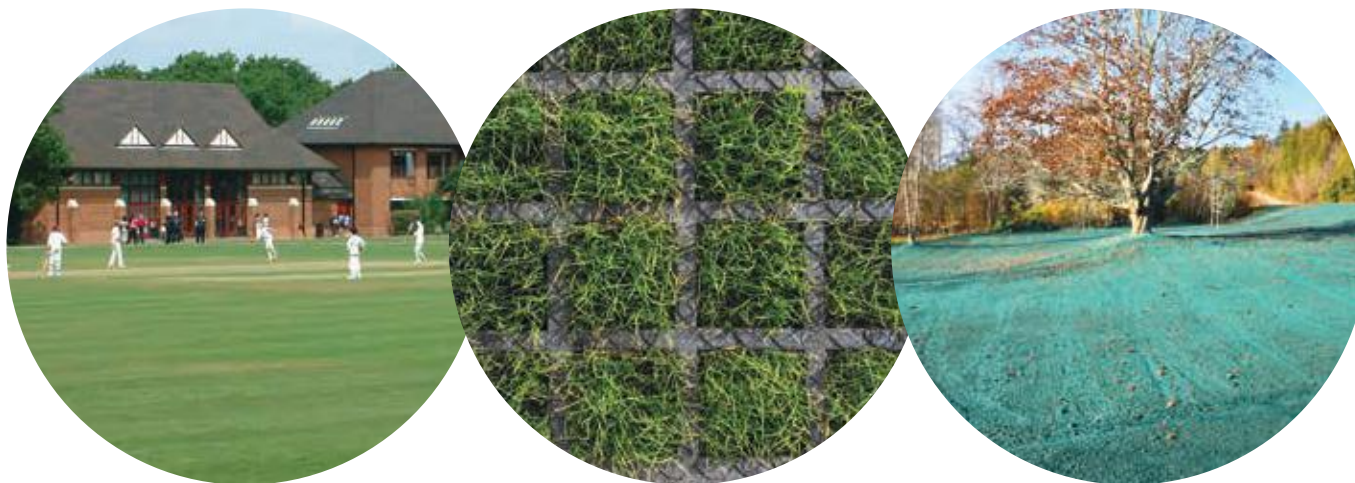
Disease Tolerant



Salt Tolerant

Pack Size: 20kg

Order Code: OAI000838



Super Root

Tetraploid, creeping and diploid ryegrasses with red fescue

Super Root is an extremely hard-wearing mix with the benefit of tetraploid, creeping and diploid ryegrasses together with strong creeping red fescue. Fast establishment, great recovery and year-round colour for stressed turf surfaces, with germination from just 4°C.

Cultivars

30% Tetrastar: Tetraploid perennial ryegrass

Tetraploid, robust, high disease tolerance, cold temperature growth, drought

20% Creepstar: Creeping perennial ryegrass

Creeping perennial ryegrass, hard wearing, high density from the crown in combination with lateral, semiprostrate growth habit

30% Greensky: Perennial ryegrass

Hard wearing, fine rye for improved density

20% Hastings: Strong creeping red fescue

Fast establishing strong creeping red fescue, rhizomes for recovery

| Turfgrass Seed 2024 | Shoot density | Wear | Recovery | Winter green | Summer green |
|---------------------|---------------|------|----------|--------------|--------------|
| Tetrastar | 5.2 | 6.4 | 5.4 | 7.7 | 8.0 |
| Creepstar | 7.3 | 6.5 | 6.4 | 6.9 | 7.5 |
| Greensky | 6.0 | 6.5 | 6.4 | 5.5 | 5.2 |
| Hastings | 5.6 | - | - | 5.3 | 5.4 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 30 – 40g/m ² | 15 – 25g/m ² | 4 – 8mm | Down to 7mm |

Usage

- Playing fields
- Cricket outfields
- Golf tees, fairways, semi-roughs and walkways
- Embankments
- Cellular paving systems
- Terraseeding and Hydroseeding

Performance

- Tetraploid gives fast germination from just 4°C
- Increased wear
- Creeping rye with lateral growth to aid surface cover
- Stronger, deeper, denser root mass for tensile strength and drought tolerance
- Exceptional tolerance to Leaf Spot, *Microdochium* Patch, Red Thread and Rust diseases
- Excellent year-round colour and presentation

Carbon Sequestration

9.09 t.CO₂e/ha

Pack Size: 5kg

Order Code: OAI000867

Pack Size: 20kg

Order Code: OAI000866



Germin-8T Treated Seed



Tetraploid Technology



Carbon4 Grass Mix



Rapid Establishment



Strong Roots



Wear Tolerant



Shade Tolerant



Drought Tolerant



Cold Tolerant



Heat Tolerant



Disease Tolerant



R105

100% bentgrass blend

100% browntop bentgrass blend with excellent colour summer and winter and increased tolerance to *Microdochium*.

Cultivar

50% Cleek: Browntop bent

Improved winter hardiness and tolerance to *Microdochium*

50% Arrowtown: Browntop bent

High shoot density and visual merit

| Turfgrass Seed 2024 | Shoot density | Visual merit | Winter green | Summer green |
|---------------------|---------------|--------------|--------------|--------------|
| Cleek | 6.9 | 7.0 | 4.9 | 5.7 |
| Arrowtown | 7.0 | 7.2 | 4.7 | 5.7 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------|-------------------|------------------|---------------|
| 8g/m ² | 4g/m ² | Rootzone contact | Down to 3mm |

Usage

- Golf and bowling greens

Performance

- High tolerance to close mowing
- Improves disease tolerance
- Increases density
- Excellent yearround colour
- Improved winter hardiness

Carbon Sequestration

9.99 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



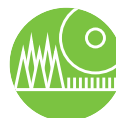
High Shoot
Density



Year-round
Colour



Disease
Tolerant



Close Mow
Tolerant

Pack Size: 10kg

Order Code: OAI000822



R103

100% bentgrass blend

100% browntop bentgrass blend with good year-round colour and improved tolerance to *Microdochium*.

Cultivar

50% Egmont: Browntop bent

Excellent year-round colour, increases sward density and tolerance to *Microdochium* disease

50% Manor: Browntop bent

High shoot density and consistent colour all year round

| Turfgrass Seed 2024 | Shoot density | Visual merit | Winter green | Summer green |
|---------------------|---------------|--------------|--------------|--------------|
| Egmont | 6.6 | 6.7 | 6.4 | 6.6 |
| Manor | 6.8 | 7.0 | 5.4 | 5.4 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------|-------------------|------------------|---------------|
| 8g/m ² | 4g/m ² | Rootzone contact | Down to 3mm |

Usage

- Golf and bowling greens

Performance

- High tolerance to close mowing
- Improves disease tolerance
- Increases density
- Good year-round colour

Carbon Sequestration

9.99 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



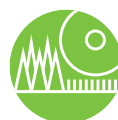
High Shoot
Density



Year-round
Colour



Disease
Tolerant



Close Mow
Tolerant

Pack Size: 10kg
Order Code: OAI000847



Egmont

Browntop bentgrass

Egmont has excellent colour summer and winter and supports tolerance to *Microdochium*.

Cultivar

100% Egmont: Browntop bent

Excellent year-round colour, increases sward density and tolerance to *Microdochium* disease

| Turfgrass Seed 2024 | Shoot density | Visual merit | Winter green | Summer green |
|---------------------|---------------|--------------|--------------|--------------|
| Egmont | 6.6 | 6.7 | 6.4 | 6.6 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------|-------------------|------------------|---------------|
| 8g/m ² | 4g/m ² | Rootzone contact | Down to 3mm |

Usage

- Overseeding golf and bowling greens

Performance

- High tolerance to close mowing
- Improves disease tolerance
- Increases density
- Excellent year-round colour

Carbon Sequestration

9.99 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



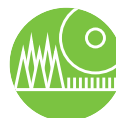
High Shoot
Density



Year-round
Colour



Disease
Tolerant



Close Mow
Tolerant

Pack Size: 10kg
Order Code: OAI000830



Cobra Nova

Creeping bent

Cobra Nova is a new generation cultivar with advanced turf qualities. The darkest genetic green colour for creeping bent in Turfgrass Seed 2024, it has early spring green-up and increased disease tolerance, rapid establishment and close mowing tolerance down to 2.5mm.

Cultivar

100% Cobra Nova: Creeping bent

Increased disease tolerance and lower inputs

| Turfgrass Seed 2024 | Shoot density | Visual merit | Winter green | Summer green |
|---------------------|---------------|--------------|--------------|--------------|
| Cobra Nova | 6.3 | 6.3 | 7.4 | 5.9 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------|-------------------|------------------|---------------|
| 8g/m ² | 4g/m ² | Rootzone contact | Down to 2.5mm |

Usage

- Golf greens

Performance

- Cool weather colour retention helps eliminate the appearance of winter stress
- Early spring greenup
- Higher tolerance to a range of turf grass diseases including *Microdochium* and Brown Patch (*Rhizoctonia*)
- High seedling vigour and fast establishment
- Excellent turf quality, fine leaf texture
- High density and rapid tillering helps out-compete *Poa annua* ingress
- Tolerant of very close mowing down to 2.5mm
- High salt tolerance

Carbon Sequestration

9.99 t.CO₂e/Ha



Carbon4 Grass Mix



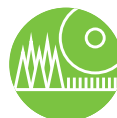
High Shoot Density



Year-round Colour



Disease Tolerant



Close Mow Tolerant

Pack Size: 11.34kg

Order Code: OAI000823



R117

Fine fescue blend

This high density, balanced blend of fine fescues increases salt and Red Thread tolerance.

Cultivars

25% Bogart: Chewings fescue

Very high shoot density and excellent tolerance to Red Thread disease

25% Greensleeves: Chewings fescue

High shoot density, good winter colour, early spring green-up, high salt tolerance for the species

25% Absolom: Slender creeping red fescue

Best in class for visual merit and excellent tolerance to Red Thread disease

25% Beudin: Slender creeping red fescue

High shoot density, consistent mid-green colour summer and winter

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit |
|---------------------|---------------|------------|--------------|
| Bogart | 7.6 | 6.9 | 7.7 |
| Greensleeves | 7.4 | 6.8 | 7.3 |
| Absolom | 7.1 | 7.8 | 7.7 |
| Beudin | 7.4 | 5.0 | 7.5 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 20 – 30g/m ² | 10 – 20g/m ² | 4 – 8mm | Down to 4mm |

Usage

- Golf and bowling greens
- Free-draining golf tees and fairways

Performance

- Increases density and salt tolerance
- Withstands regular close mowing down to 4mm
- Improves tolerance to Red Thread disease
- A balanced blend giving early spring green-up and recovery

Carbon Sequestration

9.69 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Fine
Leaved



High Shoot
Density



Disease
Tolerant



Salt
Tolerant



Close Mow
Tolerant

Pack Size: 20kg

Order Code: OAI000849



R1

Fine fescues and bents

Featuring top quality cultivars, this high shoot density, fine fescue/bent mix provides early spring green-up and good year-round colour.

Cultivars

20% Bogart: Chewings fescue

Very high shoot density and excellent tolerance to Red Thread

20% Greensleeves: Chewings fescue

High shoot density, good winter colour, early spring green-up

20% Absolom: Slender creeping red fescue

Best in class for visual merit and excellent tolerance to Red Thread disease

20% Beudin: Slender creeping red fescue

High shoot density, consistent mid-green colour summer and winter

10% Cleek: Browntop bent

Improved winter hardiness and tolerance to *Microdochium*

10% Arrowtown: Browntop bent

High shoot density and visual merit

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit |
|---------------------|---------------|------------|--------------|
| Bogart | 7.6 | 6.9 | 7.7 |
| Greensleeves | 7.4 | 6.8 | 7.3 |
| Absolom | 7.1 | 7.8 | 7.7 |
| Beudin | 7.4 | 7.0 | 7.5 |
| Cleek | 6.9 | 5.6 | 7.0 |
| Arrowtown | 7.0 | 5.9 | 7.2 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 20 – 25g/m ² | 10 – 15g/m ² | 2 – 4mm | Down to 3mm |



Germin-8T
Treated Seed



Carbon4
Grass Mix



Fine
Leaved



High Shoot
Density



Year-round
Colour



Disease
Tolerant



Close Mow
Tolerant

Usage

- Golf and bowling greens

Performance

- Increases shoot density
- High tolerance to close mowing
- Improves disease tolerance
- Excellent year-round colour and early spring greenup
- 60% creeping grasses to aid recovery

Carbon Sequestration

9.75 t.CO₂eq/Ha

Pack Size: 20kg
Order Code: OAI000834



R2

Fine fescues and bents

This fine fescue/bent mix improves density, year-round colour and increases tolerance to *Microdochium* and Red Thread diseases.

Cultivars

50% Bogart: Chewings fescue

Very high shoot density and excellent tolerance to Red Thread

30% Beudin: Slender creeping red fescue

High shoot density, consistent mid-green colour summer and winter

20% Egmont: Browntop bent

Excellent winter colour, increases tolerance to *Microdochium* disease

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit |
|---------------------|---------------|------------|--------------|
| Bogart | 7.6 | 6.9 | 7.7 |
| Beudin | 7.4 | 7.0 | 7.5 |
| Egmont | 6.5 | 6.2 | 7.1 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 20 – 25g/m ² | 10 – 15g/m ² | 2 – 4mm | Down to 3mm |

Usage

- Golf and bowling greens

Performance

- Increases density
- High tolerance to close mowing
- Improves disease tolerance
- Excellent year-round colour and early spring green-up

Carbon Sequestration

9.83 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Fine
Leaved



High Shoot
Density



Year-round
Colour



Disease
Tolerant



Close Mow
Tolerant

Pack Size: 10kg

Order Code: OAI000835



Traditional Greens

Fine fescues and bents

This competitively priced, fine-leaved traditional Chewings fescue/browntop bent mix improves density and year-round colour.

Cultivar

45% Greenmile: Chewings fescue

Good winter colour, early spring green-up, improves tolerance to *Microdochium* and Red Thread diseases

45% Belleaire: Chewings fescue

Good density, consistent mid-green colour summer and winter

10% Egmont: Browntop bent

Excellent winter colour, improves tolerance to *Microdochium* disease

Usage

- Golf and bowling greens

Performance

- Increases density
- High tolerance to close mowing
- Early spring greenup from Chewings fescues
- Improves disease tolerance

Carbon Sequestration

7.04 t.CO₂eq/Ha

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit |
|---------------------|---------------|------------|--------------|
| Greenmile | 6.5 | 7.2 | 6.6 |
| Belleaire | 6.5 | 4.7 | 6.8 |
| Egmont | 6.6 | 6.1 | 6.7 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 20 – 25g/m ² | 10 – 15g/m ² | 2 – 4mm | Down to 3mm |



Carbon4
Grass Mix



Fine
Leaved



High Shoot
Density



Close Mow
Tolerant

Pack Size: 20kg
Order Code: OAI000856



R116

Fine fescues and ultra fine dwarf rye

R116 is a mix of fine fescues and ultra-fine dwarf perennial ryegrass, producing a fine, dense sward with excellent cleanness of cut and tolerance to Red Thread. R116 is Germin-8T treated to speed up establishment and recovery in testing conditions.

Cultivars

30% Clementine: Perennial ryegrass

A stand-out cultivar for cleanness of cut and shoot density

40% Bogart: Chewings fescue

Very high shoot density and excellent tolerance to Red Thread

30% Absolom: Slender creeping red fescue

Best in class for visual merit and excellent tolerance to Red Thread disease

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit | Fine leaf | Clean cut |
|---------------------|---------------|------------|--------------|-----------|-----------|
| Clementine | 7.8 | 6.1 | 7.8 | 7.5 | 7.7 |
| Bogart | 7.6 | 6.9 | 7.7 | - | - |
| Absolom | 7.1 | 7.8 | 7.7 | - | - |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 35g/m ² | 15 – 25g/m ² | 6 – 8mm | Down to 4mm |

Usage

- Rye/fescue golf and bowling greens
- Golf tees and surrounds

Performance

- Fast establishment for an ultra-fine sward
- High shoot and root density
- Superb cleanness of cut
- Recovery from close mowing
- Good tolerance to Red Thread

Carbon Sequestration

11.30 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Rapid
Establishment



Fine
Leaved



High Shoot
Density



Year-round
Colour



Disease
Tolerant



Close Mow
Tolerant



Cleaner
Cut

Pack Size: 20kg
Order Code: OAI000848



R8

Ultra-fine dwarf ryegrass and fine fescues

R8 is a fast establishing, hard-wearing mix of ultra-fine dwarf perennial ryegrass and fine red fescues, producing a dense sward. R8 is Germin-8T treated to speed up establishment and recovery in testing conditions.

Cultivars

35% Clementine: Perennial ryegrass

A stand-out cultivar for cleanness of cut and shoot density

35% Angelina: Perennial ryegrass

Fast recovery after wear and great cleanness of cut

15% Greensleeves: Chewings fescue

High density and early spring green-up

15% Beudin: Slender creeping red fescue

Great density and very fine leaf, rhizomes for recovery, good tolerance to Red Thread disease

| Turfgrass Seed 2024 | Shoot density | Fine leaf | Red thread | Clean cut | Visual merit | Recovery |
|---------------------|---------------|-----------|------------|-----------|--------------|----------|
| Clementine | 7.8 | 7.5 | 5.9 | 7.7 | 7.8 | 7.0 |
| Angelina | 7.3 | 7.1 | 5.8 | 7.7 | 7.3 | 7.5 |
| Greensleeves | 7.4 | - | 6.8 | - | - | - |
| Beudin | 7.4 | - | 7.0 | - | - | - |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 35g/m ² | 15 – 25g/m ² | 6 – 8mm | Down to 4mm |

Usage

- Rye/fescue golf and bowling greens
- Tees and fairways
- Cricket squares
- Tennis courts

Performance

- Fast establishment
- Recovery from close mowing
- High wear tolerance
- Ultra-fine leaves and low crowns
- High shoot density
- Superb cleanness of cut
- Good disease tolerance

Carbon Sequestration

8.25 t.CO₂eq/Ha



Germin-8T Treated Seed



Carbon4 Grass Mix



Rapid Establishment



Fine Leaved



High Shoot Density



Year-round Colour



Wear Tolerant



Drought Tolerant



Disease Tolerant



Close Mow Tolerant



Cleaner Cut

Pack Size: 20kg

Order Code: OAI000839



R9

100% Ultra-fine dwarf perennial ryegrass blend

R9 is a fast establishing, ultra-fine, hard-wearing balanced blend of four cultivars dwarf perennial ryegrasses, Germin-8T treated to further speed up recovery in testing conditions.

Cultivars

25% Clementine: Perennial ryegrass

A stand-out cultivar for cleanness of cut and shoot density

25% Mocora: Perennial ryegrass

Extremely hard wearing with high visual merit

25% Angelina: Perennial ryegrass

Fast recovery after wear and great cleanness of cut

25% Cameron: Perennial ryegrass

High shoot density with good visual merit

Usage

- Rye golf and bowling greens
- Golf tees, fairways and semi-roughs
- Cricket squares and outfields
- Tennis courts
- Hard-wearing, high quality lawns and landscaping

Performance

- Very rapid establishment
- Intense wear tolerance
- Ultra-fine leaves and low crowns
- High shoot and root density
- Superb cleanness of cut
- Excellent tolerance to turf grass diseases
- Genetic colour gives greater consistency summer and winter

Carbon Sequestration

9.09 t.CO₂eq/Ha

| Turfgrass Seed 2024 | Shoot density | Fine leaf | Red thread | Clean cut | Visual merit | Recovery |
|---------------------|---------------|-----------|------------|-----------|--------------|----------|
| Clementine | 7.8 | 7.5 | 5.9 | 7.7 | 7.8 | 7.0 |
| Mocora | 7.6 | 7.7 | 6.2 | 6.8 | 7.7 | 7.3 |
| Angelina | 7.3 | 7.1 | 5.8 | 7.7 | 7.3 | 7.5 |
| Cameron | 7.6 | 7.6 | 5.7 | 7.5 | 7.7 | 7.6 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 15 – 25g/m ² | 6 – 12mm | Down to 4mm |



Germin-8T
Treated Seed



Carbon4
Grass Mix



Rapid
Establishment



Fine
Leaved



High Shoot
Density



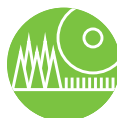
Year-round
Colour



Wear
Tolerant



Disease
Tolerant



Close Mow
Tolerant



Cleaner
Cut

Pack Size: 20kg

Order Code: OAI000840



R91

100% Ultra-fine dwarf perennial ryegrass blend

Increased wear and disease pressures make fast establishing grasses a vital part of maintenance. With high shoot density and great recovery, R91 is ultra-fine leaved and is Germin-8T treated for faster establishment and longer term plant health.

Cultivars

30% Clementine: Perennial ryegrass

A stand-out, ultra-fine creeping rye for cleanness of cut and shoot density

35% Estelle: Perennial ryegrass

Ultra-fine, high shoot density, with great wear and recovery

35% Creepstar: Creeping perennial ryegrass

Ultra fine leaf, hard wearing, fast establishing

| Turfgrass Seed 2024 | Shoot density | Fine leaf | Red thread | Clean cut | Visual merit | Recov. |
|---------------------|---------------|-----------|------------|-----------|--------------|--------|
| Clementine | 7.8 | 7.5 | 5.9 | 7.7 | 7.8 | 7.0 |
| Estelle | 7.7 | 7.7 | 5.7 | 5.5 | 7.9 | 7.6 |
| Creepstar | 7.3 | 7.6 | 5.3 | 4.6 | 7.2 | 6.4 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 15 – 25g/m ² | 6 – 12mm | Down to 4mm |

Usage

- Golf and bowling rye greens, tees, fairways and semi-roughs
- Cricket Squares and outfields
- Tennis Courts
- Lawns and urban landscapes

Performance

- Very rapid establishment
- High wear tolerance
- Ultra-fine leaves and low crowns
- High shoot and root density
- Fast recovery

Carbon Sequestration

7.38 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Rapid
Establishment



Fine
Leaved



High Shoot
Density



Year-round
Colour



Wear
Tolerant



Disease
Tolerant



Close Mow
Tolerant



Cleaner
Cut

Pack Size: 20kg
Order Code: OAI000846



R5

100% fescue blend

This high shoot density, salt tolerant blend of fescues includes hard fescue for excellent recovery from drought and good winter colour. With strong creeping red fescue for faster establishment, the genetic colour of this multi fescue blend gives greater consistency summer and winter.

Cultivars

10% Greensleeves: Chewings fescue

High shoot density, good winter colour, early spring green-up, high salt tolerance for the species

20% Absolom: Slender creeping red fescue

Best in class for visual merit and excellent tolerance to Red Thread disease

20% Hastings: Strong creeping red fescue

Fast establishing with rhizomatous recovery

50% Dumas 1: Hard fescue

Excellent drought, salt and shade tolerance

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit | Winter green | Summer green |
|---------------------|---------------|------------|--------------|--------------|--------------|
| Greensleeves | 7.4 | 6.8 | 7.3 | 6.2 | 6.1 |
| Absolom | 7.1 | 7.8 | 7.7 | 4.2 | 5.0 |
| Hastings | 5.6 | 4.8 | 5.7 | 5.3 | 5.4 |
| Dumas 1 | 5.9 | 6.3 | 5.9 | 6.7 | 5.9 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 20 – 30g/m ² | 10 – 20g/m ² | 4 – 6mm | Down to 7mm |

Usage

- Golf tees, fairways and roughs

Performance

- Increases sward density, drought and salt tolerance
- Improves tolerance to Red Thread disease
- Genetic colour gives greater consistency summer and winter
- Tolerant of shade and a wider range of pH
- Early spring greenup and recovery
- Sow at 10g to create open, playable deep roughs
- Produces attractive fescue flower heads for deep roughs

Carbon Sequestration

9.81 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Fine
Leaved



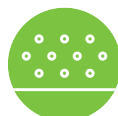
Shade
Tolerant



Drought
Tolerant



Disease
Tolerant



Salt
Tolerant

Pack Size: 20kg

Order Code: OAI000837



Pure Fescue

100% fescue blend

This high shoot density blend of five sub-species of fescues gives great salt tolerance and strengthens recovery from drought. With strong creeping red fescue for faster establishment, the genetic colour of this multi fescue blend gives greater consistency summer and winter.

Cultivars

20% Quatro: Sheeps fescue

Outstanding shoot density and tolerance to Red Thread, good salt tolerance

30% Dumas 1: Hard fescue

Excellent drought, salt and shade tolerance

20% Hastings: Strong creeping red fescue

Fast establishing with rhizomatous recovery

20% Absolom: Slender creeping red fescue


Best in class for visual merit with high tolerance to Red Thread disease

10% Greensleeves: Chewings fescue

High shoot density, good winter colour, early spring green-up, high salt tolerance for the species

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit | Winter green | Summer green |
|---------------------|---------------|------------|--------------|--------------|--------------|
| Quatro | 8.4 | 8.4 | 7.9 | 6.5 | 7.0 |
| Dumas 1 | 5.9 | 6.3 | 5.9 | 6.7 | 5.9 |
| Hastings | 5.6 | 4.8 | 5.7 | 5.3 | 5.4 |
| Absolom | 7.5 | 7.8 | 7.5 | 4.5 | 5.2 |
| Greensleeves | 7.4 | 6.8 | 7.3 | 6.2 | 6.1 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 20 – 30g/m ² | 10 – 20g/m ² | 4 – 6mm | Down to 7mm |

| | | | |
|---|---|---|---|
|  |  |  |  |
| Germin-8T Treated Seed | Carbon4 Grass Mix | Fine Leaved | High Shoot Density |
|  |  |  |  |
| Shade Tolerant | Drought Tolerant | Disease Tolerant | Salt Tolerant |

Usage

- Golf tees, fairways and roughs, in particular coastal, links and heathland courses where sheep's fescue naturally flourishes

Performance

- Increases sward density, drought and salt tolerance
- Improves tolerance to Red Thread
- Genetic colour gives greater consistency summer and winter
- Tolerant of shade and a wider range of pH
- Early spring greenup and recovery
- Sow at 10g to create open, playable deep roughs
- Multi-fescue species for attractive fescue flower heads for deep roughs

Carbon Sequestration

9.74 t.CO₂eq/Ha

Pack Size: 20kg

Order Code: OAI000865



3 Way Fescue

100% fescue blend

With 75% rhizomatous grasses to aid repair and recovery, and good colour in summer and winter, this 100% fescue blend includes 50% strong creeping red fescue for faster establishment.

Cultivars

25% Greenmile: Chewings fescue

Good winter colour, early spring green-up, improves tolerance to *Microdochium* and Red Thread diseases

25% Absolom: Slender creeping red fescue

High shoot density, visual merit and tolerance to Red Thread disease

50% Hastings: Strong creeping red fescue

Fast establishing with rhizomes for recovery and stability

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit | Winter green | Summer green |
|---------------------|---------------|------------|--------------|--------------|--------------|
| Greenmile | 7.0 | 7.2 | 6.9 | 7.3 | 6.8 |
| Absolom | 7.5 | 7.8 | 7.7 | 4.5 | 5.2 |
| Hastings | 5.6 | 4.8 | 5.8 | 5.3 | 5.4 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 20 – 30g/m ² | 10 – 20g/m ² | 4 – 6mm | Down to 7mm |

Usage

- Golf tees, fairways and roughs

Performance

- 75% rhizomatous grasses to aid repair and recovery
- Early spring greenup
- Genetic colour gives greater consistency summer and winter
- Improves tolerance to red thread disease
- Tolerant of shade
- Sow at 10g to create open, playable deep roughs
- Produces attractive flower heads for deep roughs

Carbon Sequestration

12.84 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Strong
Roots



High Shoot
Density



Shade
Tolerant



Drought
Tolerant



Disease
Tolerant

Pack Size: 20kg

Order Code: OAI000855



R4

Ultra-fine rye and fescues

Clementine ultra-fine perennial ryegrass blends perfectly with fine fescues to produce a fast establishing, drought tolerant, dense sward with increased wear tolerance. Hard fescue is excellent for recovery from drought and helps maintain healthy winter colour.

Cultivars

30% Clementine: Perennial ryegrass

A stand-out cultivar for cleanness of cut and shoot density

20% Greensleeves: Chewings fescue

High shoot density, good winter colour, early spring green-up, high salt tolerance for the species

20% Absolom: Slender creeping red fescue

High shoot density and excellent tolerance to Red Thread disease

20% Hastings: Strong creeping red fescue

Fast establishing with rhizomatous recovery

10% Dumas 1: Hard fescue

Excellent drought, salt and shade tolerance

Usage

- Golf tees, fairways, short roughs

Performance

- Fast establishment and good wear tolerance
- Increases sward density, drought and salt tolerance
- Ultra-fine with excellent cleanness of cut for an attractive sward
- Genetic colour gives greater consistency summer and winter

Carbon Sequestration

10.38 t.CO₂eq/Ha

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit | Winter green | Summer green |
|---------------------|---------------|------------|--------------|--------------|--------------|
| Clementine | 7.8 | 5.9 | 7.8 | 5.1 | 5.3 |
| Greensleeves | 7.4 | 6.8 | 7.3 | 6.2 | 6.1 |
| Absolom | 7.5 | 7.8 | 7.7 | 4.5 | 5.2 |
| Hastings | 5.6 | 4.8 | 5.7 | 5.3 | 5.4 |
| Dumas 1 | 5.9 | 6.3 | 5.9 | 6.7 | 5.9 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 35g/m ² | 15 – 25g/m ² | 4 – 6mm | Down to 7mm |



Germin-8T
Treated Seed



Carbon4
Grass Mix



Rapid
Establishment



Strong
Roots



Fine
Leaved



High Shoot
Density



Year-round
Colour



Wear
Tolerant



Shade
Tolerant



Drought
Tolerant



Disease
Tolerant



Cleaner
Cut

Pack Size: 20kg

Order Code: OAI000836



Low Maintenance

Ultra-fine rye and fescues

Low Maintenance includes the shortest re-growth ultra-fine rye cultivars for reduced mowing and creeping rye for fast establishment to help out-compete weed ingress. Hard-wearing, excellent colour and also drought tolerant with the inclusion of hard and sheep's fescues.

Cultivars

15% Angelina: Perennial ryegrass

Exceptional, shortest re-growth, ultra-fine, high density, high wear, fast recovery

15% Creepstar: Creeping perennial ryegrass

Hard-wearing, high density, ultra-fine leafed creeping perennial ryegrass, high tillering from the crown in combination with semi-prostrate growth habit

40% Hastings: Strong creeping red fescue

Fast establishing strong creeping red fescue, rhizomes for recovery

15% Dumas 1: Hard ryegrass

Superior drought tolerance for a fine fescue

15% Quatro: Sheep's fescue

Exceptional shoot density and drought tolerance

| Turfgrass Seed 2024 | Slow re-growth | Shoot density | Fine leaf | Wear | Recov. | Winter green | Summer green |
|---------------------|----------------|---------------|-----------|------|--------|--------------|--------------|
| Angelina | 8.2 | 7.3 | 7.1 | 7.2 | 7.5 | 5.2 | 5.5 |
| Creepstar | 7.3 | 7.3 | 7.6 | 6.5 | 6.4 | 6.5 | 7.5 |
| Hastings | - | 5.6 | - | - | - | 5.3 | 5.4 |
| Dumas 1 | - | 5.9 | - | - | - | 6.7 | 5.9 |
| Quatro | - | 8.4 | - | - | - | 6.5 | 7.0 |

#Compared with lowest scoring cultivars 5.2

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 15 – 25g/m ² | 6 – 8mm | Down to 7mm |

Usage

- Low maintenance lawns and landscape with or without wear
- Verges and embankments
- Cricket outfields, especially for low maintenance
- Golf tees, fairways, short roughs and driving ranges

Performance

- Fast establishing and high wear tolerance
- Reduced mowing from the shortest re-growth ryes
- Increased drought tolerance
- Creeping rye with high tillering from the crown to aid recovery
- Excellent colour and presentation
- Attractive, dense sward with fine appearance

Carbon Sequestration

11.13 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Rapid
Establishment



High Shoot
Density



Wear
Tolerant



Drought
Tolerant

Pack Size: 20kg

Order Code: OAI000861



R14

100% perennial ryegrass blend

R14 is the premium fast establishing, hard-wearing, balanced blend of dwarf perennial ryegrasses for natural and hybrid grass sports pitches. The balanced blend of cultivars is selected not only for fast establishment and intense wear tolerance but also for vital recovery after wear and colour matched for consistent visuals. Germin-8T treated to speed up establishment.

Cultivars

25% Europitch: Perennial ryegrass

Extremely hard-wearing, fast recovery, adds density to the base of the sward

25% EuroCordus: Perennial ryegrass

Extremely hard-wearing with fast recovery

25% Eurosport: Perennial ryegrass

Extremely hard-wearing, high density with fast recovery after wear

25% Alathea: Perennial ryegrass

High wear with fast recovery and excellent winter colour

| Turfgrass Seed 2024 | Wear | Recovery | Shoot density | Visual merit | Winter green | Summer green |
|---------------------|------|----------|---------------|--------------|--------------|--------------|
| Europitch | 7.8 | 7.3 | 7.7 | 7.9 | 5.4 | 5.0 |
| EuroCordus | 7.8 | 7.3 | 7.4 | 7.5 | 5.4 | 5.3 |
| Eurosport | 7.6 | 7.3 | 7.1 | 7.5 | 5.7 | 5.6 |
| Alathea | 7.6 | 7.3 | 7.2 | 7.6 | 5.4 | 5.2 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 15 – 25g/m ² | 10 –15mm | Down to 7mm |

Usage

- Construction and renovation of natural grass and hybrid sports pitches
- Racecourses

Performance

- Rapid establishment
- Intense wear tolerance
- Fastest recovery after wear
- Cultivars colour matched for consistent, quality visuals
- Good disease tolerance

Carbon Sequestration

8.87 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Rapid
Establishment



Year-round
Colour



Wear
Tolerant



Disease
Tolerant

Pack Size: 20kg
Order Code: OAI000843



R14CR

Creeping and diploid perennial ryegrass blend

R14CR is a fast establishing, hard-wearing, balanced blend of dwarf perennial ryegrasses, featuring ultra-fine leafed Creepstar creeping perennial ryegrass for increased density and recovery. Germin-8T treated to further speed up recovery in testing conditions.

Cultivars

30% Creepstar: Creeping perennial ryegrass

Hard-wearing, ultra-fine-leafed creeping perennial ryegrass, fast early establishment, high tillering from the crown in combination with lateral, semi-prostrate growth habit

20% EuroCordus: Perennial ryegrass

Extremely hard-wearing with excellent recovery

30% Europitch: Perennial ryegrass

Extremely hard-wearing and very fine-leafed

20% Cameron: Perennial ryegrass

Very hard-wearing with good winter colour

| Turfgrass Seed 2024 | Wear | Recovery | Shoot density | Fine leaf | Visual merit |
|---------------------|------|----------|---------------|-----------|--------------|
| Creepstar | 6.4 | 6.3 | 7.3 | 7.6 | 7.2 |
| EuroCordus | 7.8 | 7.4 | 6.9 | 6.5 | 6.9 |
| Europitch | 7.9 | 7.3 | 7.1 | 7.5 | 7.4 |
| Cameron | 7.2 | 7.6 | 7.6 | 7.6 | 7.7 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 15 – 25g/m ² | 10 – 15mm | Down to 7mm |

Usage

- Natural grass and hybrid sports pitches
- Racecourses and polo pitches

Performance

- Features creeping rye to aid rapid establishment
- Intense wear tolerance
- Fast recovery
- High shoot and root density
- Colour balanced for high quality visuals

Carbon Sequestration

9.42 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Rapid
Establishment



Strong
Roots



Year-round
Colour



Wear
Tolerant



Disease
Tolerant

Pack Size: 20kg
Order Code: OAI000819



R11

100% perennial ryegrass blend

R11 is a fast establishing, hard wearing, balanced blend of dwarf perennial ryegrasses for natural grass and hybrid sports pitches. The balanced blend of cultivars gives vital recovery after wear and produces an attractive sward with increased density. Germin-8T treated to speed up establishment.

Cultivar

25% Europitch: Perennial ryegrass

Extremely hard wearing with fast recovery and high visual merit

25% Columbine: Perennial ryegrass

Extremely hard wearing with fast recovery and good winter colour

25% Eurosport: Perennial ryegrass

High shoot density, wear tolerance and great recovery with high visual merit

25% Mocora: Perennial ryegrass

Extremely hard wearing with high visual merit

| Turfgrass Seed 2024 | Wear | Recovery | Shoot density | Visual merit | Winter green |
|---------------------|------|----------|---------------|--------------|--------------|
| Europitch | 7.9 | 7.3 | 7.7 | 7.9 | 5.4 |
| Columbine | 7.4 | 7.1 | 6.7 | 7.3 | 6.2 |
| Eurosport | 7.6 | 7.3 | 7.1 | 7.5 | 5.6 |
| Mocora | 7.4 | 7.0 | 7.1 | 7.5 | 5.4 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 15 – 25g/m ² | 12 – 15mm | Down to 7mm |

Usage

- Construction and renovation of natural grass and hybrid sports pitches
- Racecourses

Performance

- Rapid establishment
- Intense wear tolerance
- Fast recovery after wear
- Improves sward density

Carbon Sequestration

8.29 t.CO₂eq/Ha



Germin-8T
Treated Seed



Carbon4
Grass Mix



Rapid
Establishment



Year-round
Colour



Wear
Tolerant



Disease
Tolerant

Pack Size: 20kg
Order Code: OAI000841



R41

Hard-wearing dwarf perennial ryegrass blend

R41 is a great all-rounder, combining high wear tolerance and quick recovery with excellent density and cleanness of cut. Germin-8T treated for faster establishment and longer-term plant health benefits.

Cultivars

25% Angelina: Perennial ryegrass

Fast recovery after wear and great cleanness of cut

25% Estelle: Perennial ryegrass

Very high shoot density, high wear and great recovery

25% Gianna: Perennial ryegrass

High shoot density, great recovery and tolerance to Red Thread disease

25% Duparc: Perennial ryegrass

Unbeatable against Red Thread disease

| Turfgrass Seed 2024 | Wear | Recov. | Shoot density | Fine leaf | Red thread | Clean cut | Visual merit |
|---------------------|------|--------|---------------|-----------|------------|-----------|--------------|
| Angelina | 7.2 | 7.5 | 7.3 | 7.1 | 6.1 | 7.7 | 7.3 |
| Estelle | 7.0 | 7.6 | 7.7 | 7.7 | 6.1 | 5.5 | 7.9 |
| Gianna | 6.9 | 7.3 | 7.5 | 7.0 | 7.3 | 7.4 | 7.6 |
| Duparc | 6.8 | 7.0 | 7.3 | 6.7 | 8.1 | 6.5 | 7.2 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 15 – 25g/m ² | 12 – 15mm | Down to 5mm |

Usage

- Sports pitches and playing fields
- Cricket squares and outfielders
- Intense wear golf and bowling greens
- Golf tees, fairways, semi-roughs and walkways

Performance

- High wear tolerance and speedy recovery
- Very fast establishment
- High density and excellent cleanness of cut
- Fast recovery
- Increased tolerance to Red Thread

Carbon Sequestration

7.66 t.CO₂eq/Ha



Germin-8T Treated Seed



Carbon4 Grass Mix



Rapid Establishment



Year-round Colour



Wear Tolerant



Disease Tolerant

Pack Size: 20kg

Order Code: OAI000845



R13

Ultra-fine rye and fescue

Featuring Angelina, the shortest re-growth cultivar for reduced mowing and Estelle for fast recovery after wear, this fast establishing, hard-wearing mix is fine leaved with excellent density.

Cultivar

30% Angelina: Perennial ryegrass

Exceptional shortest re-growth, ultra-fine, high density, clean cut, high wear, fast recovery

40% Estelle: Perennial ryegrass

High density, ultra-fine, high wear, fast recovery

30% Hastings: Strong creeping red fescue

Highly rated, fast establishing strong creeping red fescue, rhizomes for recovery

| Turfgrass Seed 2024 | Short regrowth | Shoot density | Fine leaf | Wear | Recov. | Visual merit |
|---------------------|----------------|---------------|-----------|------|--------|--------------|
| Angelina | 8.2 | 7.3 | 7.1 | 7.2 | 7.5 | 7.3 |
| Estelle | 5.6 | 7.7 | 7.7 | 7.0 | 7.6 | 7.9 |
| Hastings | - | 5.6 | - | - | - | 5.7 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 35g/m ² | 15 – 25g/m ² | 6 – 8mm | Down to 7mm |

Usage

- Golf tees, surrounds, fairways, semi-roughs and driving ranges
- Cricket outfields

Performance

- Fast establishing and high wear tolerance
- Reduced mowing from the shortest re-growth cultivar
- Ultra-fine, dense, attractive sward
- Creeping red fescue to aid fast recovery

Carbon Sequestration

9.84 t.CO₂eq/Ha



Germin-8T Treated Seed



Carbon4 Grass Mix



Rapid Establishment



Strong Roots



Fine Leaved



High Shoot Density



Wear Tolerant



Cleaner Cut

Pack Size: 20kg
Order Code: OAI000842



Multi-Use

Perennial rye and creeping red fescue

Great value, fast establishing, versatile mix of fine rye and strong creeping red fescue. Hard-wearing and persistent with good colour summer and winter.

Cultivars

35% Greensky: Perennial ryegrass

Hard-wearing, fine rye for improved recovery

35% Greenway: Perennial ryegrass

Hard-wearing, fine rye for improved density

30% Maxima: Strong creeping red fescue

Fast establishing strong creeping red fescue, rhizomes for recovery

| Turfgrass Seed 2024 | Shoot density | Fine leaf | Wear | Recov. | Winter green | Summer green |
|---------------------|---------------|-----------|------|--------|--------------|--------------|
| Greensky | 6.3 | 6.2 | 6.5 | 6.6 | 5.4 | 5.2 |
| Greenway | 6.6 | 6.8 | 6.4 | 6.0 | 6.2 | 5.8 |
| Maxima | 4.0 | - | - | - | 7.0 | 5.9 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 30 – 40g/m ² | 15 – 25g/m ² | 6 – 8mm | Down to 7mm |

Usage

- Golf tees, fairways, short roughs and driving ranges
- General landscaping

Performance

- Fast establishing and hard-wearing
- Rhizomes to aid recovery and turf strength
- Hard-wearing, dense sward
- Excellent year round colour

Carbon Sequestration

7.11 t.CO₂eq/Ha



Carbon4 Grass Mix



Rapid Establishment



Strong Roots



Wear Tolerant

Pack Size: 5kg
Order Code: OAI000860

Pack Size: 20kg
Order Code: OAI000859



Fine Turf

Fescues and bents

This competitively priced, lower input fescue/bent mix is faster establishing and improves sward density, with 75% rhizomatous grasses for recovery plus good winter colour.

Cultivars

45% Hastings: Strong creeping red fescue

Fast establishing strong creeping red fescue, rhizomes for recovery

25% Absolom: Slender creeping red fescue

High shoot density, visual merit and tolerance to Red Thread disease

25% Greenmile: Chewings fescue

Good winter colour, early spring green-up, improves tolerance to *Microdochium* and Red Thread diseases

5% Highland: Bentgrass

Good winter colour with short rhizomes for recovery

Usage

- Golf tees, fairways and roughs
- Fine lawns and landscaping

Performance

- Faster establishment
- Fine dense sward
- Increases density
- 75% rhizomatous for recovery
- Good winter colour
- Improves disease tolerance

Carbon Sequestration

12.46 t.CO₂eq/Ha

| Turfgrass Seed 2024 | Shoot density | Red thread | Visual merit | Winter green |
|---------------------|---------------|------------|--------------|--------------|
| Hastings | 5.6 | 4.8 | 5.7 | 5.4 |
| Absolom | 7.5 | 7.8 | 7.7 | 4.5 |
| Greenmile | 7.0 | 7.2 | 6.9 | 7.3 |
| Highland | 4.2 | 5.0 | 4.3 | 8.0 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 10 – 20g/m ² | 4 – 6mm | Down to 7mm |



Germin-8T
Treated Seed



Carbon4
Grass Mix



Strong
Roots



Fine
Leaved



High Shoot
Density



Shade
Tolerant



Drought
Tolerant

Pack Size: 5kg

Order Code: OAI000858

Pack Size: 20kg

Order Code: OAI000857



Shade

Shade tolerant perennial rye and fescues

A mix of faster establishing, fine-leaved perennial ryegrass with hard and strong creeping red fescues for shade and drought tolerance. Hard wearing and persistent with good colour summer and winter.

Cultivars

20% Greenway: Perennial ryegrass

Hard wearing, fine rye for improved density

20% Greensky: Perennial ryegrass

Hard wearing, fine rye for improved recovery

15% Dumas 1: Hard fescue

Superior drought and salt tolerance for a fine fescue

45% Maxima: Strong creeping red fescue

Fast establishing strong creeping red fescue, rhizomes for recovery

| Turfgrass Seed 2024 | Shoot density | Fine leaf | Wear | Recov. | Winter green | Summer green |
|---------------------|---------------|-----------|------|--------|--------------|--------------|
| Greenway | 6.6 | 6.8 | 6.4 | 6.0 | 5.9 | 6.0 |
| Greensky | 6.0 | 6.2 | 6.5 | 6.6 | 5.5 | 5.2 |
| Dumas 1 | 5.9 | - | - | - | 6.7 | 5.9 |
| Maxima | 4.0 | - | - | - | 7.0 | 5.9 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 15 – 25g/m ² | 6 – 12mm | Down to 7mm |

Usage

- Dry or damp shaded lawns and landscaping
- Shaded golf tees, fairways and semi-roughs

Performance

- Tolerant of dry and damp shade
- Fast establishing and good wear tolerance
- Increased drought tolerance and recovery
- Good sward density
- Attractive year round colour

Carbon Sequestration

7.24 t.CO₂eq/Ha



Carbon4 Grass Mix



Rapid Establishment



High Shoot Density



Wear Tolerant



Shade Tolerant



Drought Tolerant

Pack Size: 5kg

Order Code: OAI000864

Pack Size: 20kg

Order Code: OAI000863



R450

Rye, fescues and bent with micro-clover

With a mix of species frequently specified for Department for Transport projects, R450 provides fast establishment, stabilisation and low maintenance for road and rail verges and embankments. The inclusion of hard fescue increases salt tolerance whilst micro-clover fixes nitrogen in the soil to help maintain grass plant health where little or no fertiliser is applied.

Cultivars

25% Greenway: Perennial ryegrass

Fast establishing and fine-leaved with good wear tolerance and density

42.5% Maxima: Strong creeping red fescue

Fast establishing strong creeping red fescue, rhizomes for stabilisation and recovery

25% Dumas 1: Hard fescue

Superior drought and salt tolerance for a fine fescue

5% Highland: Bent

Adds density to the base of the sward

2.5% Pipolina: Micro-clover

Fixes nitrogen in the soil

| Turfgrass Seed 2024 | Shoot density | Fine leaf | Winter green | Summer green |
|---------------------|---------------|-----------|--------------|--------------|
| Greenway | 6.6 | 6.8 | 5.9 | 6.0 |
| Maxima | 4.0 | - | 7.0 | 5.9 |
| Dumas 1 | 5.9 | - | 6.7 | 5.9 |
| Highland | 4.2 | 4.3 | 8.0 | 4.8 |
| Pipolina | - | - | - | - |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 25 – 40g/m ² | 15 – 25g/m ² | 4 – 6mm | Down to 12mm |

Usage

- Road and rail verges and embankments
- Universal impoverished soils

Performance

- Fast establishing
- Rhizomes for stabilisation
- Drought and salt tolerant
- Fixes nitrogen in the soil
- Reduced maintenance
- Fine-leaved, low growing, dense sward
- Healthy year-round colour

Carbon Sequestration

7.36 t.CO₂eq/Ha



Germin-8T Treated Seed



Carbon4 Grass Mix



Fine Leaved



High Shoot Density



Wear Tolerant



Drought Tolerant

Pack Size: 20kg

Order Code: OAI000852



R460A

Rhizomatous tall fescue and tetraploid perennial ryegrass

The combination of rhizomatous tall fescue and tetraploid perennial ryegrass in R460A makes for an extremely deep rooting, drought and heat tolerant sward. Hard-wearing and with good salt tolerance it provides great stress tolerance and stabilisation together with year-round growth and strong recovery for stressed turf surfaces. For faster establishment of tall fescue, ideally sow in warmer soil temperatures 10 – 14°C.

Cultivars

45% Granditte: Rhizomatous tall fescue

Rhizomatous tall fescue for stabilisation and recovery, very deep rooting and salt tolerant

45% Essential: Tall fescue

High wear and shoot density, very deep rooting and salt tolerant

10% Tetragreen: Tetraploid perennial ryegrass

Deep, dense, roots, drought, high disease tolerance, cold temperature growth

| Turfgrass Seed 2024 | Shoot density | Visual Merit | Winter green | Summer green |
|---------------------|---------------|--------------|--------------|--------------|
| Granditte | 7.2 | 6.5 | 7.0 | 6.7 |
| Essential | 7.4 | 7.2 | 6.9 | 6.5 |
| Tetragreen | 4.8 | 4.6 | 7.5 | 7.6 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 35 – 50g/m ² | 30 – 35g/m ² | 10 – 15mm | Down to 15mm |

Usage

- Airfields to help avert bird strike and act as a heat and carbon sink
- Universal landscape for areas prone to drought or salt laden winds and coastal erosion

Performance

- 75% rhizomatous grasses to aid repair and recovery
- Early spring greenup
- Genetic colour gives greater consistency summer and winter
- Improves tolerance to red thread disease
- Tolerant of shade
- Sow at 10g to create open, playable deep roughs
- Produces attractive flower heads for deep roughs

Carbon Sequestration

8.96 t.CO₂eq/Ha



Germin-8T Treated Seed



Tetraploid Technology



Carbon4 Grass Mix



Strong Roots



Year-round Colour



Wear Tolerant



Drought Tolerant



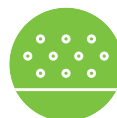
Cold Tolerant



Heat Tolerant



Disease Tolerant



Salt Tolerant

Pack Size: 20kg

Order Code: OAI007807



Drought

A blend of tall fescue and tetraploid perennial ryegrass, Germin-8T treated, including a new tall fescue variety, Armani, for its finer leaf, good recovery and paler colour

Tall fescue is the most heat and drought tolerant of all amenity cool season grass species. Deep rooting, good wear tolerance and high salt tolerance makes tall fescues suitable for wide ranging applications. Warmer soil temperatures, minimum 10°C, are recommended to ensure optimum germination. Although very drought tolerant, seedlings must be kept moist until roots are established.

Cultivar

45% Armani: Tall fescue

Mid-green colour, finer-leaved with high density

45% Essential: Tall fescue

Finer-leaved, with high density and slower re-growth

10% Tetrastar: Tetraploid perennial ryegrass

Tetraploid, robust, high disease tolerance, cold temperature growth, drought

| Turfgrass Seed 2024 | Shoot density | Wear | Fineness of leaf | Winter green | Summer green |
|---------------------|---------------|------|------------------|--------------|--------------|
| Armani | 6.8 | 6.9 | 7.5 | 4.9 | 4.5 |
| Essential | 7.4 | 7.0 | 7.2 | 6.9 | 6.5 |
| Tetrastar | 5.2 | 5.7 | 4.9 | 7.7 | 8.0 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|--------------------|--------------|---------------|
| 35 – 50g/m ² | 35g/m ² | 12 – 15mm | Down to 12mm |

Usage

- Golf: grass walkways, coastal erosion, salt-laden winds
- Playing fields: goalmouths for stabilisation, heat and drought
- Landscaping: parkland, coastal sites, heat and drought
- Lawns for drought tolerance and wear once established

Performance

- Dense, upright sward with minimal thatch
- Heat and drought tolerant
- Salt tolerant
- Stronger, deeper, denser root mass down to 1.5m
- Rhizomatous recovery
- High wear tolerance once established
- Perfectly adapted for a range of mowing heights 12 – 250mm

Carbon Sequestration

8.01 t.CO₂eq/Ha

Pack Size: 20kg

Order Code: OAI007447



Germin-8T Treated Seed



Carbon4 Grass Mix



Strong Roots



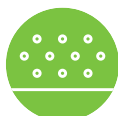
Wear Tolerant



Drought Tolerant



Heat Tolerant



Salt Tolerant



Pitches

100% perennial ryegrass

Pitches is a strong, hard wearing Perennial Ryegrass blend with good turf density, quick establishment and good recovery from wear. The blend is ideal for high usage Sport and Amenity areas.

Cultivars

50% Greenway: Perennial Ryegrass

Fast establishing and fine-leafed with good wear tolerance and density

40% Esquire: Perennial Ryegrass

10% Essence: Perennial Ryegrass

Good wear tolerance, gives uniform colour to the sward

| Turfgrass Seed 2024 | Wear | Recov. | Shoot density | Red thread | Winter green | Summer green |
|---------------------|------|--------|---------------|------------|--------------|--------------|
| Greenway | 6.5 | 6.0 | 6.6 | 6.1 | 6.2 | 5.8 |
| Esquire | 5.8 | 5.3 | 5.3 | 6.0 | 7.0 | 7.0 |
| Essence | 6.4 | 5.2 | 6.5 | 4.7 | 6.4 | 5.8 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 30 – 50g/m ² | 15 – 25g/m ² | 10 – 15mm | Down to 20mm |

Usage

- Sports pitches
- Playing fields
- Utility landscaping

Performance

- Hard wearing
- Quick to establish
- Good turf density

Carbon Sequestration

7.95 t.CO₂eq/Ha



Rapid Establishment



Strong Roots



Year-round Colour



Wear Tolerant

Pack Size: 20kg

Order Code: OAI008771



Parks

Perennial ryegrass/strong creeping red fescue mixture

With 50% rhizomatous grasses to aid repair and recovery, and good colour in summer and winter, this perennial ryegrass and fescue blend germinates quickly, creates a resilient turf and suits all soil types.

Cultivars

50% Greenway: Perennial Ryegrass

Fast establishing and fine-leaved with good wear tolerance and density

50% Maxima: Strong Creeping Red Fescue

Fast establishing strong creeping red fescue, rhizomes for recovery

| Turfgrass Seed 2024 | Shoot density | Red thread | Winter green | Summer green |
|---------------------|---------------|------------|--------------|--------------|
| Greenway | 6.6 | 6.1 | 6.2 | 5.8 |
| Maxima | 4.0 | 4.7 | 7.0 | 5.9 |

| Sowing rate | Overseeding rate | Sowing depth | Mowing height |
|-------------------------|-------------------------|--------------|---------------|
| 30 – 50g/m ² | 15 – 25g/m ² | 10mm | Down to 15mm |

Usage

- Parkland and playing fields
- Utility landscaping
- Embankments and permeable cellular paving

Performance

- Hard wearing
- Quick to establish
- Good turf density

Carbon Sequestration

7.66 t.CO₂eq/Ha



Rapid Establishment



Strong Roots



Year-round Colour



Wear Tolerant

Pack Size: 20kg
Order Code: OAI008770



Horse Master Paddock Mix

Horse Master Paddock Mix is especially designed to produce a nutritious, palatable and persistent paddock. A correct seasonal growth pattern enables it to be used for grazing with the option of shutting up to produce horse hay if required. Timely sowing for example, after weed control, will help promote a healthy, sustainable sward.

Cultivar

- 4.5kg Intermediate diploid ryegrass**
- 3kg Late diploid perennial ryegrass**
- 2.5kg Late diploid perennial ryegrass**
- 1kg Timothy**
- 2kg Strong creeping red fescue**

| Sowing rate | Sowing depth |
|---------------------------|--------------|
| 13kg/acre or 32kg/hectare | 6 – 12mm |

Agricultural grass seed mixtures designed for cattle grazing are rich in protein and sugars. Horses and ponies however, require grass which is high in fibre, with low sugar (fructan) levels. Using a blend of low sugar diploid ryegrasses with Timothy and strong creeping red fescue, and without clover to avoid laminitis, will produce an easily digestible paddock sward.

The way in which cattle graze differs considerably from horses and ponies; cows use their tongues whereas horses and ponies use their lips, enabling horses and ponies to graze a pasture down much shorter, leaving a stubble height of 1-2cm. This short grazing slows and reduces re-growth, making it easy for unwanted annual meadow grass and weeds to ingress into the sward. The lifespan of such an intensively grazed pasture would be very short however, seeding a dedicated paddock mixture at the recommended rate means a dense, nutritious pasture can be maintained.

Usage

- Horse and pony paddocks

Performance

- High fibre, nutritious and palatable
- Low fructan (sugars) to help prevent laminitis
- Can be shut off in mid-summer to produce a hay crop



Rapid
Establishment

Pack Size: 13kg/1 acre
Order Code: OAI000851

Tetraploid technology

Tetraploid perennial ryegrasses are highly valued for their fast establishment, cool temperature recovery, high root mass and greater stress tolerance

Climate extremes and exceptionally high performance demands relentlessly challenge the management of amenity turf. Plant breeders' skills are delivering a new generation of exceptional tetraploid amenity perennial ryegrass cultivars with:

- High energy seed, fast establishment
- Germination and growth from just 4°C
- Double chloroplast for increased energy production
- Superior winter wear with robust re-growth
- Stronger, deeper, denser root mass for tensile strength and drought tolerance
- Faster recovery from heat stress
- Greater tolerance to Leaf Spot, Microdochium, Red Thread and Rust
- Excellent colour and presentation

Proven performance makes them highly valued for natural and hybrid grass surfaces across a wide range of applications. Blended with diploid ryegrasses or mixed with fescues, they are reliable performers that always deliver. With mixes available for sports pitches, playing fields, racecourses, golf courses and landscapes, tetraploids really are the go-to choice choice.



Root mass comparison, tetraploids (L) vs diploids (R)



Tetraploid seedlings emerge faster than diploids

Proven performance

Tetraploid perennial ryegrass provides a host of invaluable characteristics. High energy seed and growth in cooler conditions from 4°C makes blends containing tetraploids such as R140 and Sports Field Renovation perfect not only for construction and end of season renovation but also for cold temperature overseeding and repairs. Superior winter wear and robust re-growth helps keep surfaces in play though the high-pressure period. But tetraploids are not simply cold temperature performers, high root mass also provides survival and recovery from heat and drought, plus surface stability.

Fast establishment is of particular benefit when renovation windows are short any time of year. Sports pitches, golf tees and fairways, cricket outfields, bowlers' run-ups and walkways can all benefit from the speed of emergence and high root mass, helping restore the playing surface in the shortest possible time. Shade and wear trials at Les Alleuds Research Station demonstrates the latest tetraploid cultivars deliver greater wear performance in reduced light levels of 60% PAR (photosynthetic active radiation).

High disease pressure is devastating to the performance and visual qualities of the playing surface. Selecting cultivars with high disease tolerance is an important part of an integrated management approach. Whilst no grasses can offer complete resistance, the official testing programme for the GEVES Turfgrass Testing System highlights greater tolerance of tetraploid cultivars to *Microdochium*, Leaf Spot, Red Thread and Rust diseases.

The robust nature of tetraploids makes them the fastest to recover from disease and wear.

Germin-8T

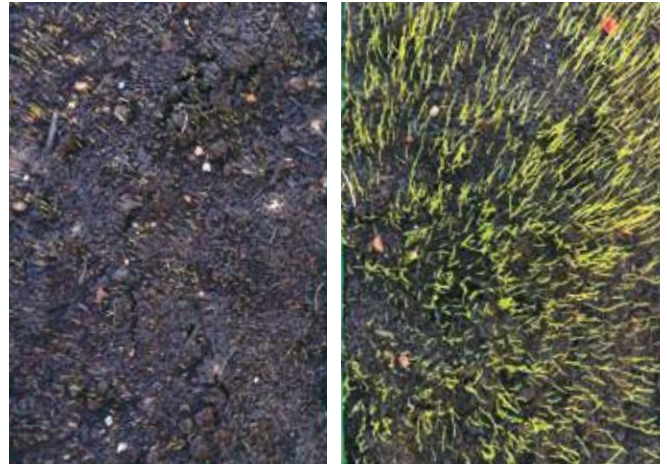
Germin-8T is a technological breakthrough in grass seed pre-treatment

Germin-8T delivers:

- Speciality penetrating surfactant, nutrients and sugars
- Faster germination, particularly beneficial in adverse environmental conditions such as cold and wet
- Stimulated rapid cell division for faster germination and emergence
- Early root mass development to aid faster establishment, ready to take up preseed fertiliser
- Accelerated healthy leaf extension to arrive quickly at three leaf stage
- Higher plant survival following renovation
- Long term symbiotic health benefits for the sward
- Liquid treatment adds a maximum 2% by weight, no need to increase seed sowing rate (unlike coated seed treatments)

What's in Germin-8T:

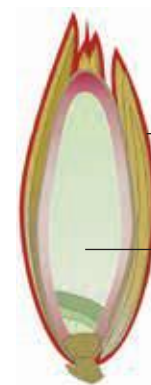
- Speciality penetrating surfactant
- Potassium Nitrate
- Potent cocktail of micro-elements (Zinc, Manganese, Magnesium)
- Activate XL sugars dextrose and molasses
- Micronized mycorrhizal inoculant (spores and hyphae)
- *Trichoderma atroviride*, a filamentous soil fungi that forms a mutual endophytic, beneficial relationship with grass plants. The symbiotic relationship delivers increased tolerance to Leaf Spot, Pythium and Rhizoctonia turf diseases.



Seedling germination comparison of Germin-8T treated seed (right) and untreated seed (left)



R140 germin-8T treated 14 days and 17 days after sowing



Germin-8T treatment coats the seed's surface

The treatment then penetrates the endosperm

Above: Pitch 10 days after seeding

Left: Chelmsford Race Course after seeding

To place an order, please call **0800 138 7222**



Working with you to achieve excellence





Carbon4Grass

Changes in our climate are dramatically challenging and shaping our environment. It is within everyone's duty of care to ensure we do the utmost to minimise or offset our carbon footprint.

Carbon4Grass mixes help mitigate and reduce the carbon footprint of maintenance inputs as part of a climate positive approach to turf maintenance.

Combined excellence

Origin Amenity Solutions combines the expertise, innovation, knowledge and experience of four leading brands – Headland Amenity, Rigby Taylor, Symbio and Turfkeeper. OAS operates at the leading-edge of plant science and turf technology working with a broad spectrum of amenity products alongside integrated pest management and microbiology programmes.

To find out more about Origin Amenity Solutions and our plans for the future of the turf industry, follow us:

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Our brands:

