





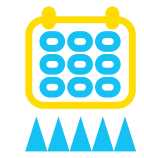
Whatever the conditions, however tough the competition

Sports grasses have a lot to contend with. From tees to courts, pitches to out-field, and starting line to final furlong, every square metre matters.

Increasing pressure from extended seasons, and growing demand for competition surfaces to be in peak condition makes grass pitches, courses and courts the real focus of the contest.

For every playing surface, the grounds team matters most of all.

Working with you to understand your changing needs and solve the challenges is central to the way we progress at Barenbrug.



Long term development and breeding

Ongoing investment in new grass cultivars and products yields continuous improvements in the qualities of your playing surface.



In depth consulting and guidance

Collaboration in product design, development and trialling brings us closer together.



Ireland service and support

Field expertise and technical help is on hand to find immediate solutions to grass needs on site.



Bastiaan and Frank Barenbrug

The Barenbrug family

Founded in 1904, Barenbrug is a family owned and run group, dedicated to grass seed development and production to support sports, leisure, and agricultural needs.

The business took root in 1983; since then we have been active supporters of the creativity, tenacity, and commitment of the nation's turf managers. Through R&D, breeding, and working with farmers to produce the grass seed in Ireland, where we can, we deliver seed to grounds managers. In addition to our seed, we share our knowledge and experience to help you and your team excel.



GOLF
16-27



FOOTBALL,
RUGBY & GAA
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& LANDSCAPE
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Play the long game

It takes 15 years to breed a winner. From initial cross to seed certification, every new grass must prove itself fit for the nation's most hallowed greens, lawns, and pitches.

A scientific breeding programme is at the core of our business. Delivering a new cultivar to the Sport Range is a long and multifaceted process, involving many people and departments of the Royal Barenbrug Group in our "Story of Grass".



Stage 1 of the grass breeding process - crossing different existing cultivars.



Stage 2 of the grass breeding process - selecting and testing cultivars.



Climate control tunnels at Barenbrug research stations trialling cultivars for breeding performance such as drought tolerance.



Harvesting breeder's seed.

The Story of Grass

Each cultivar is the product of a long and rigorous cycle of breeding, selection and testing to identify the grasses that will fill the world's great sporting venues.

Years 1-3 Searching for candidates

Every new grass story begins at one of our breeding stations in Wolfheze in the Netherlands or Mas-Germier in southern France. To develop a new grass cultivar, we cross plants of an existing cultivar with plants isolated from unique traits, the wild or from a particular environment that offers interesting potential.

Year 7 Picking the team

We pick out the best plants and group them based on similarities, allowing them to cross-pollinate within each group. The resulting "synthetic line" is the basis for a new cultivar. It is important to remember that a cultivar always exists as a population of genetically different individual plants that are very similar (but not identical) to one another.

Years 8-10 Proving performance

Each new line is tested against other elite lines and existing cultivars from Barenbrug's and competitors' global breeding programmes. They may be stress tested under simulated wear or traffic and at a low mowing height. Further trials or laboratory testing might test tolerance to a particular turfgrass disease or sustained drought conditions. This takes place at multiple locations, including our UK research station Cropvale, to ensure reliable results for wide-ranging end-user markets.

Years 4-6 Selection process

Once these crosses have seeded, a detailed selection process identifies those with the strongest potential to perform. Individual, unmown plants in a large nursery are scrutinised for a broad range of characteristics, removing those with weaknesses to disease, heat, cold etc. and selecting only the very best to continue on the journey.

We are looking for a range of characteristics that turf managers tell us matter most to them, such as disease resistance, climate tolerance, soil preference, colour and growth qualities.

After initial selection, individual mown plants are examined to assess turf quality and persistence. This three-year process may whittle down 10,000 plants to as few as a dozen or more.

Year 11 Multiplication

The results of the performance tests indicate which lines should be multiplied to become new cultivars. Barenbrug product development teams across the globe decide on the line, based on performance data and where it meets the range of needs of customers in our very different markets. The multiplication process is a costly one, creating the breeder's seed stock, which will become the foundation for commercial production. It is imperative to ensure absolute seed purity at this stage.

Years 12-15 Final assessment

Each cultivar, based on its intended market, is submitted to official trials across the globe. In the UK, the BSPB/STRI trials that inform the Turfgrass Seed booklet offer respected, reliable, and independent data to demonstrate the merit of new turfgrass seeds.

In parallel, it is necessary for a cultivar to be examined under legislative protocols to ensure it is eligible for sale. Aspects such as distinction (different from existing material), uniformity (individuals within the population must be very similar) and stability (no reversion to parental wild-type) are scrutinised over a fixed period (typically three years or longer).

Product Development and R&D

Consistent performance in grass lies in combining the strengths of different species and individual cultivars. It's a team thing.

The relationships we've built with customers informs our breeding programmes and product development, helping us to refine selections to meet the challenges of the present. Throughout this year's catalogue you can find grass seed mixes that compound the characteristics of a range of cultivars to respond to your environment.



Choosing the final line-up

The mixtures of grass varieties that make up our products are the result of technical knowledge combined with customer experiences and insight from the field.

Product development encompasses a range of processes; just as individual seed cultivars are trialled, products are tested to establish synergies in the performance of species and cultivars. Within each product we also look closely at the traits of individual cultivars, and how best to match those with customer needs in different sporting contexts and locations. We take this process far beyond the scope of official trials, aiming to find the best possible match for our customers around the world.

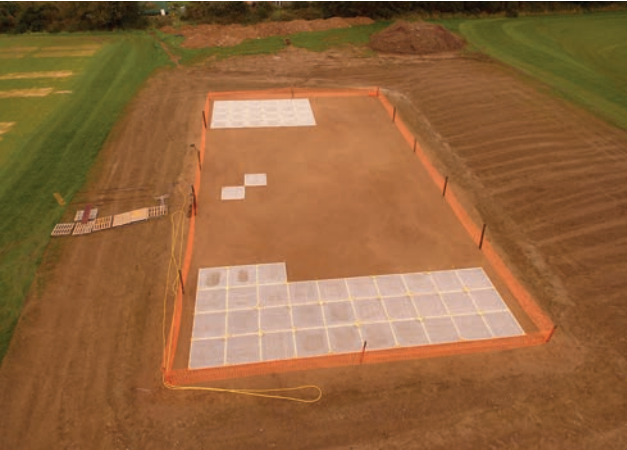
The R&D process in Ireland is a collaborative one, with work carried out at the Barenbrug research and development site, Cropvale, the Sports Turf Research Institute (STRI) and the Irish Sports Turf Institute (ISTI), as well as drawing insights from our customers.

A good example of how the wider R&D team works can be found in the development of our new Sustainable Grass Technology (SGT), see page 12. The SGT project is still on-going and brought together development work from across our European breeding stations, with external partners (STRI and Landlab), and further trials with end users, to investigate drought and heat stress more closely.



Trials at St Andrews - focusing on traditional links grasses for tees and fairways.

Further investment in high quality research and development for the turf market saw the start of a joint trial with the **ISTI research centre in Ireland**, to measure the performance of new varieties and mixtures for golf greens. The trial greens were newly constructed to USGA specification. Now well established, the research is delivering robust data for course managers across Ireland.



Trials - Golf green trial establishment at the ISTI.

Production: packs with potential

Refined through selective breeding and proved in trials and R&D, only the best new cultivars advance to production, and when they do, the vital role of the Seed Production team commences. To make any new seed available it must first be multiplied to produce a 'pre-basic' seed, which itself goes through another harvest. The resulting 'basic' seed is supplied to our specialist growers for sowing to produce the certified seed ready for sale.

Final REPORT on a test of fodder plant seed

Report date: 24.08.2020

Client: BARENBRUG LTD. 1701
Variety: BARENBRUG LTD. 1701
Date of analysis: 24.08.2020
Analyst: BARENBRUG LTD. 1701
Seed lot: BARENBRUG LTD. 1701
Seed weight: 1000g
Seed count: 1000000
Seed purity: 100%
Seed viability: 100%
Seed germination: 100%
Seed vigor: 100%
Seed health: 100%
Seed safety: 100%
Seed quality: 100%
Seed performance: 100%
Seed suitability: 100%
Seed value: 100%
Seed price: 100%
Seed cost: 100%
Seed profit: 100%
Seed margin: 100%
Seed return: 100%
Seed risk: 100%
Seed reward: 100%
Seed impact: 100%
Seed legacy: 100%
Seed future: 100%
Seed destiny: 100%
Seed fate: 100%
Seed fortune: 100%
Seed luck: 100%
Seed chance: 100%
Seed opportunity: 100%
Seed potential: 100%
Seed possibility: 100%
Seed probability: 100%
Seed likelihood: 100%
Seed chance: 100%
Seed opportunity: 100%
Seed potential: 100%
Seed possibility: 100%
Seed probability: 100%
Seed likelihood: 100%

Pure production - Minimum criteria are required for certified seed and every seed lot will be issued with a seed certificate.

Seed usage

The final (and most important) chapter in the Story of Grass is yet to be written. It is over to you now! This catalogue showcases the products that have been created from the process above, all designed with you and your needs in mind. We trust they will be used to deliver the very best turf possible, to be enjoyed by professional and recreational sports people up and down the country.

New Varieties

BARZICO

Barzico holds the coveted top position on BSPB/STRI Turfgrass Seed 2023 booklet Table S1. Varieties ranked in Table S1 are trialled for live ground cover, visual merit and wear simulation for sports pitches, such as football and rugby, receiving intensive wear during winter and cut to a height of 25mm. Originating from Barenbrug's Dutch breeding station, *Barzico* is a very strong all-round perennial ryegrass. Visually, it is mid-fine, extremely dense (score 7.9 for this trait) with a medium green colour.

BARBASTEN

Ranked #4 in BSPB/STRI Turfgrass Seed 2023 booklet Table S1, *Barbasten* is a true winter sports perennial ryegrass and a late-heading variety, coarser in the leaf and paler green. It is exceptionally active in winter and spring promising superior mid-season recovery before temperatures recover towards the end of the season.

In addition to its performance in UK tests, *Barbasten* is #1 for Sport in official Dutch trials. *Barbasten* also possesses high tolerance to *Drechslera* Leaf Spot disease in independent GEVES trials throughout Europe.

In recent BSPB winter sport trials at STRI, wear tolerance over time was rated by live ground cover achieved. *Barbasten* outperformed all other varieties tested, demonstrating a clear superior performance and wear tolerance during high demand winter use.

DANCING

Dancing is a new variety of Chewings red fescue from the excellent RAGT breeding programme in France. It follows in the footsteps of old favourites *Musica* and *Bodega*.

It is ranked #3 on both G2 and L3 tables in BSPB Turfgrass Seed 2023 and has superb scores for both shoot density and visual merit. It is exclusive to the Barenbrug Sport Range in Ireland for 2023.

Download your copy of the 2023 BSPB/STRI Turfgrass booklet at barenbrug.co.uk/bspb



SGT

SGT stands for “Sustainable Grass Technology” – Barenbrug’s research-driven concept designed to deliver outstanding turf performance in high stress conditions with reduced fertiliser, chemical and water inputs.

Barenbrug aims to develop seed cultivars and grass seed mixes that respond to customers’ needs and a changing climate. Our new Sustainable Grass Technology (SGT) products are designed to reduce the chemical, fertiliser and water input for turf managers.

Products under the SGT banner promise stress-tolerant grass for sustainable turf management and are the result of years of independent and in-house trials.

Barenbrug’s SGT products have been tested extensively, and offer exceptional performance in one or more of four key areas of research:

- Nitrogen-use efficiency to reduce fertiliser use and cost
- Drought tolerance to increase survival and reduce the need for irrigation in stress periods
- Increased disease tolerance to reduce the need for fungicide
- Lower biomass production (or clipping yield) to reduce mowing frequency, man hours and fuel use.

Visit our website for a detailed video about the years of independent and in-house trials that led to the launch of Sustainable Grass Technology: www.barenbrug.co.uk/SGT



Sustainable

Drought tolerance

The SGT products are curated from specially chosen cultivars. In trials at Landlab in Italy, during the harsh summer of 2018, *Hardtop* hard fescue and *Barjessica* strong creeping red fescue performed particularly well in periods of heat and drought, in comparison with other cultivars (Fig. 1 & Fig. 2).



Figure 1 - Drone Image From Landlab. Highlighted plots are the hard fescue. The quality and endurance of hard fescue stood alone during the most intense heat.

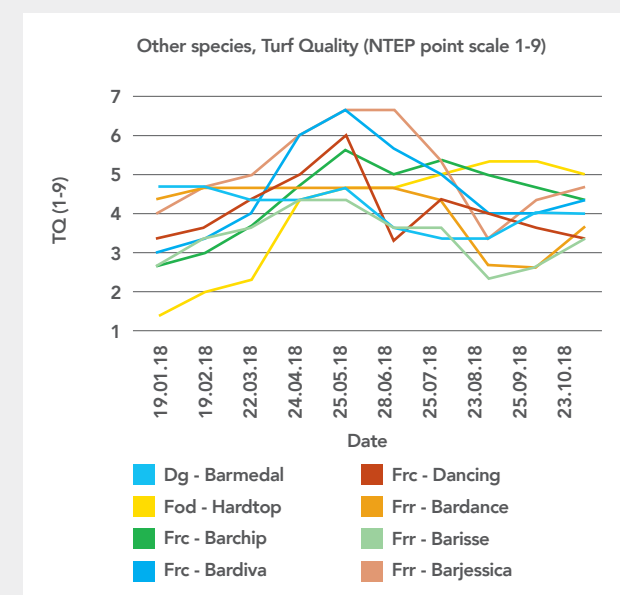


Figure 2 - Graph to show fluctuations in fescue performance (NTEP Turf Quality (TQ) assessments) over 9-month period during 2018 in Landlab, Italy. Note the superior scores of *Hardtop* hard fescue and *Barjessica* strong creeping red fescue.

Nitrogen Efficiency

In *SGT Rye Fairway*, *Barprrium* offers proven capacity for nitrogen-use efficiency, requiring up to 50% less nitrogen. In a recent 18 month STRI trial (shown in Fig. 3), results demonstrate nitrogen efficiency from a number of cultivars against live ground cover. *Barprrium* delivers the highest mean turf cover to all other cultivars. Put simply, it requires far less N to deliver equivalent turf performance.

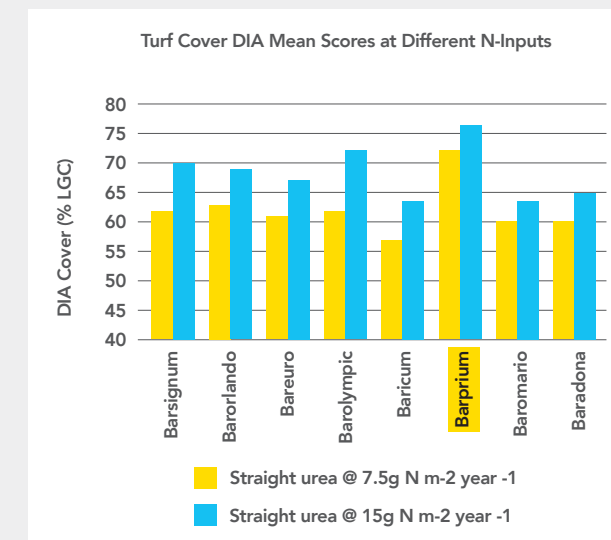


Figure 3 - STRI N-Efficiency Trial Data. *Barprrium* delivers equivalent mean turf cover to all other cultivars at 50% less nitrogen input.

STRI researchers concluded in their trial report: “The best performing cultivar in this trial was *Barprrium*, with good turf quality and coverage observed at all N levels and N types. Even at very low levels of N, *Barprrium* still showed good quality and coverage. Conversely at high levels of N, *Barprrium* did not promote excessive vertical growth.”

Barprrium is highly ranked in the BSPB/STRI Turfgrass Seed 2023 booklet with a mean score of 7.5 on Table L1 and exhibits strong summer colour – another useful characteristic for low-input golf fairways.

Products available in the SGT range include SGT Rye Fairway and SGT Fine Fescue and represent the culmination of many years of research and are targeted at golf course fairway overseeding to combat the effects of climate change and reduce future maintenance inputs.

Products available with SGT technology:

SGT Fine Fescue see page 21.

Ultrafine

Ultrafine

The leading fine leaf perennial ryegrass range from Barenbrug is now available with a range of products, for use in areas of fine turf that demand close-mowing and high wear.

As interest in perennial ryegrass products increases, Barenbrug has stepped in to offer greater flexibility, suited to areas requiring fine turf and high wear. Barenbrug’s purpose-bred perennial ryegrasses are designed to last during the season, offering solutions for common problems from weather extremes and demands of the course and players.

The backbone of the Ultrafine range is the market leading variety, *Barolympic*. With a score of 8.6 in the 2023 BSPB G4 table of Turfgrass Seed, *Barolympic* is by far the standout perennial ryegrass variety for high quality, close-mown turf. *Barolympic* is partnered in the Ultrafine range by *Barprrium*, another elite quality ryegrass. When blended together in the Ultrafine 100 mixture, they form the highest quality perennial ryegrass mixture available on the market for close mown sportsturf.

Ultrafine products available include:

Ultrafine 60 - A 60% perennial ryegrass blend see page 23.
Ultrafine 100 - A 100% perennial ryegrass see page 23.



RPR

Revolutionary technology: regenerating grass.

Regenerating Perennial Ryegrass (RPR) is a group of cultivars bred from Barenbrug's grass breeding stations that delivers unparalleled recovery from wear and naturally self-regenerating growth habit.

- Faster establishment compared to normal perennial ryegrasses, particularly 'fill-in' between disc-seeding lines or in golf divot repair
- Gives a very dense sward, excellent wear tolerance and unparalleled recovery after wear
- Added traction strength due to interconnected plants, RPR's creeping growth habit helps fill in sand slits and drainage lines.

Normal perennial ryegrasses exhibit a purely tufted growth habit, with limited sideways growth. Barenbrug's unique RPR cultivar, *Barlibro*, produces determinate stolons (Fig. 1) (a stem that grows below the ground surface) as it establishes and grows.

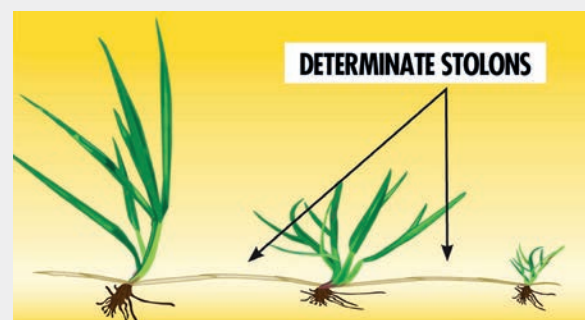


Figure 1 - The lateral growth habit results in fast establishment between seeding lines and unparalleled capacity for recovery after and during wear. Figure 2 clearly shows the rapid spread of RPR.



Figure 2 - Perennial ryegrass (left) v RPR (right) both sown at the same time.

The determinate stolons are growth shoots emerging from auxiliary buds at the base of each plant. When an RPR plant is damaged, creating space, determinate stolons will grow horizontally into the empty space and develop roots (Fig. 1). Each RPR plant connects to other plants and into the top layer of the soil; this produces a network of stolons.

Our unique products that utilise the RPR technology - RPR and RPR SPRINT - are blends of hard-wearing perennial ryegrasses and the RPR cultivar, *Barlibro*, for the renovation and construction of elite winter sports pitches, racecourses, and golf courses.

Products available in the RPR Range:

RPR see page 24 & 31.
RPR Sprint see page 33.



SOS

Fastest overseeding solution.

The saviour of the winter season, this specially formulated solution establishes quickly to resurrect high traffic areas from mid-season turf damage, aiming for the fastest possible establishment and growth in cool temperatures.

- Designed for emergency winter turf repair
- Fast germination, establishment and growth
- Can be used at temperatures as low as 3.5 °C.

SOS is designed with mixture synergy in mind, utilising three tried and tested Barenbrug annual and perennial ryegrass cultivars for a longer-term winter repair solution.

Barterra and *4IR-1* are Barenbrug fine-leaved annual ryegrass that will germinate as low as 3.5°C; quicker and at lower temperatures than perennial ryegrass, including tetraploid varieties.

Bardorado (diploid) Perennial Ryegrass is specifically chosen for its performance characteristics. Trials have proven that it germinates particularly well at low temperatures, down to 5°C, and quickly at 7-10°C; 90% germination in a recent 14-day trial (Fig. 1).

Barenbrug research shows the advantages of using a hard-wearing diploid perennial ryegrass, rather than a tetraploid alternative, as a partner to annual ryegrasses for winter grass seed mixtures. The combination of *Barterra*, *4IR-1* & *Bardorado* results in SOS delivering rapid repair qualities with good wear and disease tolerance.



Overseeding at lower temperatures

In recent trials - overseeded in January at a soil temperature of 6.2°C - SOS was shown to establish and restore a sward faster than a perennial ryegrass, recovering from 20% to more than 60% within a month (Fig. 2).

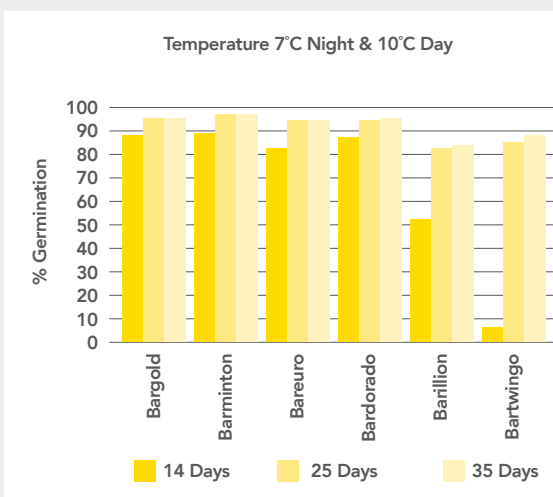


Figure 1

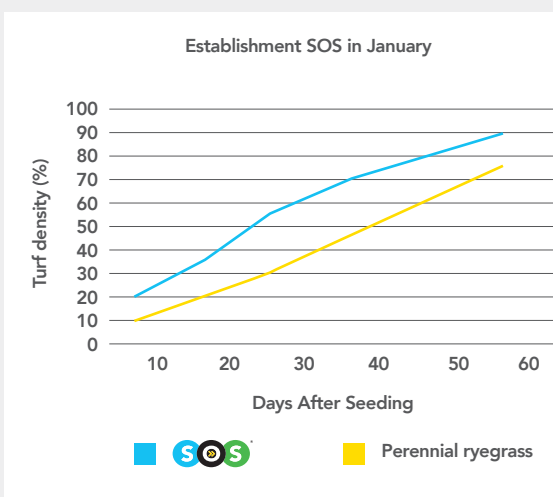


Figure 2

Products available with SOS technology:

SOS for Football, Rugby & GAA see page 30.
SOS for Racecourses see page 33.

Golf

Parkland, heathland or links – we have you covered from tee to green.

With over 3000 golf courses in the UK and Ireland, it's not surprising to hear how different the needs and experiences of golf course managers are.

Whether you are alone managing a remote 9-hole links course on the Atlantic coast or leading a team of twenty staff on a pristine striped parkland in a large city, we have the knowledge, research and breeding to help find a solution to your problem. From a wiry salt-tolerant fescue to an immaculate polished fine-leafed ryegrass, we have bred it, tested it, grown it, and bagged it!

In the pages that follow, our golf range is presented in groups: ryegrass-free, ryegrass and fescue mixtures, and pure ryegrass.

Carnoustie Golf Links



INTRODUCTION

TECHNOLOGY GROUPS

GOLF

FOOTBALL, RUGBY & GAA

RACING & EQUESTRIAN

LAWN & LANDSCAPE

TECHNICAL & SUPPORT

All Bent

A 100% browntop bentgrass blend designed for overseeding and species exchange in golf and bowling greens.

- Exceptional blend of two browntop bentgrass cultivars
- Charles ranked #1*
- BarKing has a high Microdochium (Fusarium) tolerance
- 100% Browntop bentgrass delivers good shade tolerance

Usage
Designed for overseeding golf and bowling greens.

Features & Benefits
A 100% browntop bentgrass blend designed for overseeding and species exchange in greens. It is of particular interest to golf courses focused on outcompeting Poa annua and improving Microdochium (Fusarium) tolerance of greens.

Charles is a new NZ-bred variety, named after Bob Charles, the first left-handed golfer to win a major. Like Bob, it breaks new ground, being ranked #1* by a clear half-point. Its scores for visual merit and shoot density promise to have a major impact as part of a species exchange programme, improving golf greens and out-competing the ubiquitous Poa annua.

BarKing is a European-bred variety with exceptional tolerance to Microdochium Patch disease (Fusarium) and superior winter colour (see Fig 1).



Recent data from the USGA (summarised from University studies) suggests browntop (colonial) bentgrass is superior to creeping bentgrass in performance under low light or shade conditions.

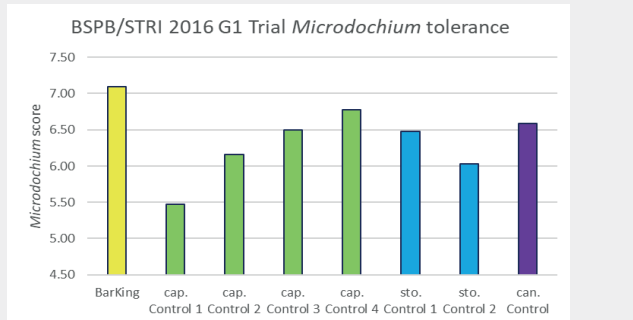




Figure 1 - Microdochium data from a recent BSPB bentgrass trial at Bingley. BarKing (yellow) had superior disease tolerance to control varieties of browntop (green), creeping (blue) and velvet (purple) bentgrasses.

☒ Greens ☐ Tees ☐ Fairways ☐ Walkways ☐ Roughs


How to use it




Sowing rate
8-10g/m²



Oversowing rate
4-6g/m²



Sowing depth
rootzone contact



Mowing height
down to 3mm

In the bag		Bag size 20kg
75%	BarKing	Browntop bentgrass
25%	Charles	Browntop bentgrass

BarKing is also available as a straight variety in 10kg bags.

Classic 80:20

The traditional 80:20 mix of red fescue and browntop bentgrass, for a consistent and balanced fine-turf sward when sowing out greens.

- 80:20 fescue:bent remains the preferred option in independent trials for seeding out new golf greens
- Combination of high shoot density and disease tolerance assists in out-competing Poa annua.



Usage
Construction of free-draining fine-turf areas.


Features & Benefits
Red fescue contributes to 80% of the mixture and is made up of both slender creeping red fescue and Chewings red fescue. The combination of these two sub-species offers the best solution for year-round performance and growth in fescue-dominant turf.

Includes the highly rated Chewings red fescues, Bodega and Barlineus, slender creeping red fescues, Barcrown and Barpearl, combined with the top-rated browntop bentgrass on the market, Charles, with a mean score of 7.6*, and BarKing with exceptional Microdochium Patch disease (Fusarium) tolerance and superior winter colour.


Chewings fescues will generally be most active in spring through to mid-summer, whereas slender creepers "kick-in" during early summer and perform to autumn.

☒ Greens ☐ Tees ☐ Fairways ☐ Walkways ☐ Roughs


How to use it




Sowing rate
8-10g/m²



Oversowing rate
4-6g/m²



Sowing depth
rootzone contact



Mowing height
down to 4mm

In the bag		Bag size 20kg
20%	Barcrown	Slender creeping red fescue
20%	Barpearl	Slender creeping red fescue
20%	Barlineus	Chewings red fescue
20%	Bodega	Chewings red fescue
10%	BarKing	Browntop bentgrass
10%	Charles	Browntop bentgrass

Find out more at barenbrug.co.uk/classic-80-20

Fescue

Barenbrug's most popular blend of red fescue cultivars ideally suited to free-draining, sandy soil.

- 60% Slender creeping red fescue and 40% Chewings red fescue
- Ideal for free-draining, sandy soils.



Usage
Construction and overseeding of free-draining fine-turf areas.

Features & Benefits
A specially designed blend of four red fescue cultivars: Barcrown, Barpearl, Barlineus and Dancing, for the overseeding and construction of free-draining fine turf.


The mixture is made up of 60% slender red creeping fescue and 40% Chewings red fescue. The combination of these two sub-species offers the best solution for year-round performance and growth in fescue-dominant turf. Chewings fescues will generally be most active in spring through to mid-summer, whereas slender creepers "kick in" during early summer and perform well through to autumn.

This balanced mix offers top-performing varieties from two separate European breeding programmes, ensuring a broad range of characteristics and disease tolerance. Barcrown's exceptional tolerance to Dollar Spot is a particular point to note in the current climate.


Dancing is a brand new high-performing variety from the RAGT breeding in France, which has Musica in its lineage.

☒ Greens ☒ Tees ☒ Fairways ☐ Walkways ☒ Roughs


How to use it




Sowing rate
25-35g/m²



Oversowing rate
15-25g/m²



Sowing depth
8-12mm below thatch



Mowing height
down to 4mm

In the bag		Bag size 20kg
30%	Barcrown	Slender creeping red fescue
30%	Barpearl	Slender creeping red fescue
30%	Barlineus	Chewings red fescue
10%	Dancing	Chewings red fescue

Find out more at barenbrug.co.uk/fescue

Find out more at barenbrug.co.uk/all-bent

Fairway

A balanced blend of slender creeping, strong creeping and Chewings fescues designed for free-draining and coastal areas.

- 100% fescue mix shines on heaths and links courses
- High quality red fescues with excellent disease resistance.



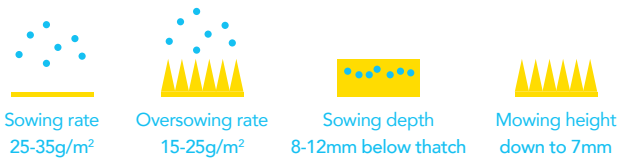
Usage
Overseeding, divoting and construction of free-draining turf areas.

Features & benefits
FAIRWAY is an excellent blend of three sub-species of red fescue; slender creeping, strong creeping and Chewings. The cultivars are all excellent performers and are all top-11 ranked in the BSPB/STRI Turfgrass Seed 2023 booklet.

Of particular note is the outstanding red thread tolerance of *Barris* (#1) and *Barpearl* (#3), an important factor in fairways under low nutrition.

☐ Greens ☒ Tees ☒ Fairways ☒ Coastal ☒ Roughs

How to use it



In the bag		Bag size 20kg
30%	Barpearl	Slender creeping red fescue
30%	Sergei	Strong creeping red fescue
20%	Barris	Strong creeping red fescue
20%	Bodega	Chewings red fescue

Find out more at barenbrug.co.uk/fairway

SGT Fine Fescue

Pure fine fescue blend, utilising our sustainable grass technology (SGT), with varieties bred to deliver reduced water, fertiliser and chemical inputs.

- SGT technology offers outstanding turf performance with reduced water, fertiliser and chemical inputs
- An innovative mixture of fine fescue species
- 50% hard fescue for increased drought tolerance
- High tolerance to Dollar Spot and Red Thread pathogens.



Usage
Overseeding, divoting and construction for medium-fine turf on sites with particular drought stress.

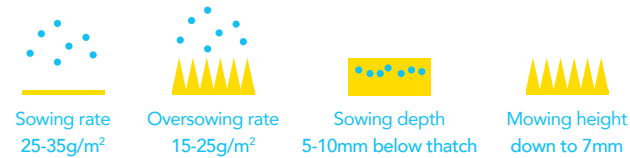
Features & benefits
Central to the product is a large proportion of hard fescue, a fine fescue species with well-documented tolerance to drought and heat stress and proven performance with low-input maintenance, as well as good overall turf quality for density and visual merit, helping to maintain good aesthetics in the harshest environments. Hard fescue also offers a potential reduction in insect damage and increased Dollar Spot tolerance.

In trials at Landlab in Italy, *Hardtop* hard fescue is the top-performing fine fescue in periods of intense heat and drought. *Barris* (#1-ranked BSPB) and *Barpearl* (#3-ranked BSPB) offer outstanding tolerance to the low-input disease of Red Thread.

☐ Greens ☒ Tees ☒ Fairways ☐ Walkways ☒ Roughs



How to use it



In the bag		Bag size 20kg
50%	Hardtop	Hard fescue
25%	Barpearl	Slender creeping red fescue
25%	Barris	Strong creeping red fescue

Find out more at barenbrug.co.uk/sgt-fine-fescue

* in BSPB/STRI Turfgrass Seed 2023 booklet



Ultrafine 60

A 60% blend of fine turf perennial ryegrass and red fescue.

Formerly Medal

- 60% ultrafine perennial ryegrasses combined with 40% fine red fescues
- *Barolympic* is the stand-out cultivar ryegrass for summer sports use.



Usage
Designed for the construction or overseeding of medium-fine and fine turf under high wear pressure.

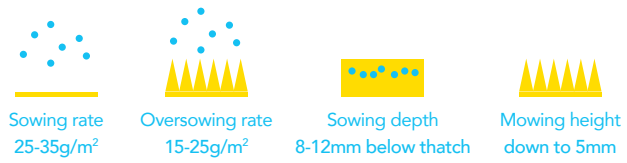
Features & benefits
Barolympic is the stand-out cultivar ryegrass for summer sports use. It is ranked with a score of 8.6*, the highest mean score in the entire publication, and more than a full point clear of its nearest rival.

Barprrium is ranked #6 overall in BSPB/STRI Turfgrass Seed 2023 booklet Table L1 and as a new cultivar in G4 with a mean score of 7.0 which demonstrates its ability to create a high-quality sward at low heights of cut.

The remainder of the product is made up of highly ranked varieties of red fescue: strong creeping red *Barris* and slender creeping red *Barpearl*. The fescue content in this mixture combines with the ryegrass to create a turf with exceptional density and high disease tolerance.

☒ Greens ☒ Tees ☒ Fairways ☐ Walkways ☐ Roughs

How to use it



In the bag		Bag size 20kg
30%	Barolympic	Perennial ryegrass
30%	Barprrium	Perennial ryegrass
20%	Barpearl	Slender creeping red fescue
20%	Barris	Strong creeping red fescue

Find out more at barenbrug.co.uk/ultrafine-60

Ultrafine 100

A 100% blend of fine turf perennial ryegrasses, simply offering the best fine ryegrass on the market.

- Exceptional fineness of leaf
- *Barolympic* is the stand-out cultivar ryegrass for summer sports use.



Usage
Overseeding and construction of fine turf with intense wear that demands tolerance to close-mowing. Golf green surrounds, pinch-points and walk-offs are perfect examples of where this product comes into its own.

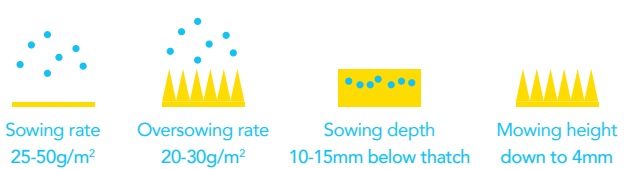
Features & benefits
Barolympic is the stand-out cultivar ryegrass for summer sports use. It is ranked with a score of 8.6* in Table G4, the highest mean score in the entire publication.

Barprrium is a recent cultivar from Barenbrug's breeding station in France. It forms a large part of the Sustainable Grass Technology (SGT) concept due to its independently proven drought tolerance, Nitrogen-use efficiency, and disease resistance. *Barprrium* is ranked as a 'new cultivar' with a score of 7.0* in Table G4* and a score of 7.5 in Table L1*.

ULTRAFINE 100 truly offers unparalleled performance for perennial ryegrass under close-mowing.

☒ Greens ☒ Tees ☒ Fairways ☐ Walkways ☐ Roughs

How to use it



In the bag		Bag size 20kg
50%	Barolympic	Perennial ryegrass
50%	Barprrium	Perennial ryegrass

Find out more at barenbrug.co.uk/ultrafine-100

* in BSPB/STRI Turfgrass Seed 2023 booklet

RPR

Using Barenbrug’s RPR (Regenerating Perennial Ryegrass) technology for fast establishment and unparalleled capacity for recovery from wear due to the self-regenerating growth habit.

- Barenbrug-bred regenerating ryegrass technology (RPR)
- Exceptional wear tolerance
- Fast recovery
- Good aesthetics
- 100% Barenbrug perennial ryegrass
- Barenbrug-bred varieties only.



Usage
Overseeding, divoting and construction of golf turf with intense wear.

Features & benefits
The unique component of RPR GOLF is *Barlibro*, a **Regenerating Perennial Ryegrass** (RPR), the result of detailed research and trials, which produces determinate stolons, resulting in excellent ground cover with unparalleled capacity for recovery.

RPR is strengthened with three elite ryegrass varieties from Barenbrug’s European breeding programmes: *Barzico*, *Barbasten* and *Baradona*.

Barzico holds the coveted #1 position in table S1 of BSPB/STRI Turfgrass Seed. The cultivar originates from Barenbrug’s Dutch breeding station and is a very strong all-round ryegrass suitable for many applications. Visually, it is mid-fine, extremely dense with a medium green colour.

Barbasten sits below *Barzico*, at #4*, a “late-heading” variety from the Dutch breeding station. Paler green and exceptionally active in winter/spring recovery, *Barbasten* brings additional *Drechslera* leaf spot tolerance to the product.

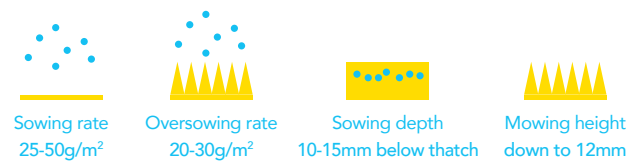
Baradona is selected for excellent performance on both BSPB/STRI Turfgrass Seed 2023 booklet tables S1 and L1, demonstrating the adaptability for multiple uses and variable seasonal mowing heights.

Visit page 14 for further details on RPR innovation and research.

☐ Greens ☒ Tees ☒ Fairways ☒ Walkways ☒ Roughs



How to use it



In the bag		Bag size 20kg
30%	Barlibro	RPR Perennial ryegrass
30%	Barzico	Perennial ryegrass
30%	Barbasten	Perennial ryegrass
10%	Baradona	Perennial ryegrass

Find out more at barenbrug.co.uk/rpr-golf



"The approach we're taking, and the continual advice and support we receive from the experts at Barenbrug, give us confidence that the full value of every bag of seed is realised."

Gordon McKie, Course Manager of the Old Course at St Andrews Links, explains that it is both what you seed and the way that you sow it that gets results.

Endurance is the defining quality of the Old Course, and often of its players. Nearly 500 years on, it welcomes 50,000 rounds annually. In constant use by golfers and their caddies, it leaves little time for the vital maintenance that ensures every visit to its greens and fairways is memorable.

The autumn calendar includes back-to-back R&A fixtures in September followed by the Alfred Dunhill Links Championships which runs into early October, preventing Course Manager Gordon McKie and his team from carrying out maintenance when weather conditions are ideal.

Overseeding greens is an essential restorative and regenerative task but one that is especially challenging. On the double greens the playing surface varies, but the aim is to improve consistency. "To achieve this, and to ensure the surfaces remain in excellent condition all year round," Gordon explains, "we're improving our species composition to increase our levels of fescue, while also introducing bentgrasses where *Poa annua* is dominant."

"We need the overseeding to be frequent, swift and effective, with minimal disruption,"

What really makes the difference is the performance of the seed used and the effectiveness of the seeding operation.

The seedlings are under serious pressure from day one; it is vital they establish and build resilience quickly.

Dr David Greenshields, Amenity Commercial Manager, Barenbrug UK, worked with Gordon and Sandy Reid, Director of Greenkeeping, to refine the seed strategy to the benefit of the Old Course greens. "They are being overseeded with fescue and our All Bent blend. Bentgrass tends to outperform fescue coming out of winter and into spring. It also continues to grow a little in colder conditions and generally delivers better year-round surfaces."

"Getting bentgrass to germinate is easy enough," admits David, "but these seedlings are under serious pressure from day one, and it's vital they are given the best opportunity to establish and build resilience."

In the All Bent seed mix, cultivars *Charles* and *BarkKing* complement each other. *Charles* is relatively new and has excellent shoot density and a very fine leaf. It establishes really well under rigorous maintenance regimes where seedlings are under significant pressure. *BarkKing* has excellent winter performance and disease tolerance.

Gordon is clear that it is the mix of seed and sowing regime, combined with expert guidance that underpins success on the Old Course: "The approach we're taking, and the continual advice and support we receive from the experts at Barenbrug, give us confidence that the full value of every bag of seed is realised."



Football, Rugby & GAA

The products and the support to tackle the toughest opponents on the pitch.

The challenge of maintaining a fine quality surface under acute wear through the winter is answered with highly developed cultivars and blends.

Whether the period is eighty minutes or ninety, the fury of the game is the same. That intensity is transferred all too directly to the playing surface, but also, believe it or not, to the laboratory.

At Barenbrug's breeding stations, ongoing research, breeding and trialling for new varieties and blends aims squarely at providing you with the top scoring cultivars to enhance your pitch.

Look out for new, high performing cultivars, named for their perfect match for winter sports pitches, including *Barzico* and *Barbasten* - the #1 and #4 ranked Perennial Ryegrass cultivars from the BSPB/STRI Turfgrass Seed 2023 booklet S1 table.

Multi Sport

Our all-purpose sport field mixture. When your fields are mixed use, we don't think you should have to compromise on seed mix quality.

- Includes *Barbasten*, the #4* rated ryegrass for sports pitches
- 100% Barenbrug bred cultivars from our European breeding programmes
- Excellent speed of establishment and recovery from winter wear
- A high scoring mixture with a score of 7.5*, whilst also having a score of 7.1 for shoot density* at a lower height of 10-15mm.



All-round sport use

Usage

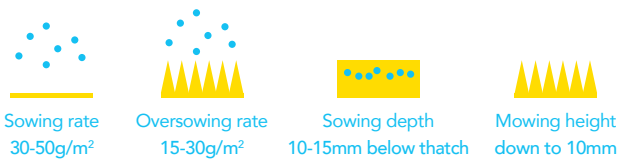
The ultimate all-rounder, ideally suited for multi-use sports pitches such as winter sports pitches that are then used through the summer, sport fields, grounds and pitches.

Features & benefits

The backbone of this seed mix is *Barbasten*, rated #4* in UK listings. Its proven performance as a hard-wearing ryegrass gives you the confidence that your pitches will be sustained throughout the season. *Baradona* is selected for its excellent performance on both BSPB/STRI Turfgrass Seed 2023 booklet tables S1 and L1, demonstrating the adaptability for multiple use sports fields and variable seasonal mowing heights.

Barorlando is a proven, high performing variety for sports pitches. It possesses dark green genetic colour which gives MULTI SPORT an exceptional appearance.

How to use it



In the bag	Bag size 20kg
35% Barbasten	Perennial ryegrass
35% Baradona	Perennial ryegrass
30% Barorlando	Perennial ryegrass

Find out more at barenbrug.co.uk/multi-sport

SOS

The ground team's emergency service. SOS gives fast germination to repair worn or damaged surfaces in the coldest months.

- Purpose-bred varieties, designed for emergency repair of winter sports pitches
- Fast germination, establishment and growth
- Overseeding and patching blend of ryegrass species that germinate and grow vigorously at very low temperatures.



Overseeding

Usage

Designed for emergency mid-season turf repair, aiming for the fastest possible germination, establishment and growth in cool temperatures.

Features & benefits

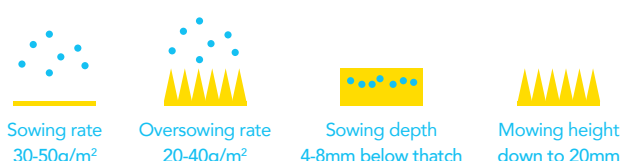
The saviour of the winter season, this specially formulated product contains varieties that germinate and establish quickly to resurrect high traffic areas on any pitch. In recent trials, SOS was shown to establish and restore a sward overseeded in January at a soil temperature of 6.2°C, from 20% to more than 60% within a month.

Barterra is an annual ryegrass that will germinate as low as 3.5°, quicker and at lower temperatures than perennial ryegrass, including tetraploid varieties.

Bardorado provides a longer-term solution with good performance characteristics.

Visit page 15 for further information on SOS

How to use it



In the bag	Bag size 20kg
50% Barterra	Annual ryegrass
50% Bardorado	Perennial ryegrass

Find out more at barenbrug.co.uk/sos

RPR

Using Barenbrug's RPR (Regenerating Perennial Ryegrass) technology for fast establishment and unparalleled capacity for recovery from wear due to the self-regenerating growth habit.

- Barenbrug-bred regenerating ryegrass technology (RPR)
- Exceptional wear tolerance
- Fast recovery
- Good aesthetics
- 100% Barenbrug perennial ryegrass
- Barenbrug-bred varieties only



Regenerating long-term pitches

Usage

Renovation and overseeding of winter sports stadiums and pitches.

Features and benefits

The unique component of RPR is *Barlibro*, a Regenerating Perennial Ryegrass (RPR), the result of detailed research and trials, which produces determinate stolons, resulting in excellent ground cover with unparalleled capacity for recovery.

RPR SPORT is strengthened with three elite ryegrass varieties from Barenbrug's European breeding programmes: *Barzico*, *Barbasten* and *Baradona*.

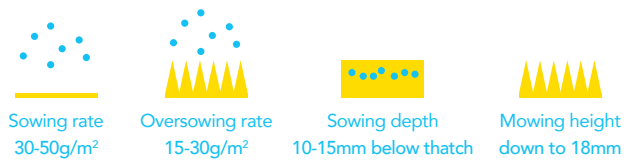
Barzico holds the coveted #1 position in table S1 of BSPB/STRI Turfgrass Seed, trialled under winter sports wear simulation at 25mm height of cut. The cultivar originates from Barenbrug's Dutch breeding station and is a very strong all-round ryegrass suitable for many applications. Visually, it is mid-fine, extremely dense with a medium green colour.

Visit page 14 for further details on RPR innovation and research.

Barbasten sits below *Barzico*, at #4*. It is a true winter sports cultivar and a "late-heading" variety from the Dutch breeding station. Paler green and exceptionally active in winter/spring recovery, *Barbasten* brings additional Drechslera leaf spot tolerance to the product

Baradona is selected for excellent performance on both BSPB/STRI Turfgrass Seed 2023 booklet tables S1 and L1, demonstrating the adaptability for multiple uses and variable seasonal mowing heights.

How to use it



In the bag	Bag size 20kg
30% Barlibro	RPR Perennial ryegrass
30% Barzico	Perennial ryegrass
30% Barbasten	Perennial ryegrass
10% Baradona	Perennial ryegrass

Find out more at barenbrug.co.uk/rpr-sport



Racing & Equestrian

Carefully created products meet the challenges of the course, from the heavy going to the good.

The range of soil types and climates, and the different challenges of flat and national hunt racing together, demand carefully balanced products to maintain the going year-round.

Barenbrug's research and development is directed toward blends that respond to current sporting needs, based on close working relationships with course owners and turf management professionals.

Our range offers two products to maintain a good track and provide rapid repair when the damage is severe.

RPR Sprint

A blend of fast growing perennial ryegrasses, formulated specifically for the demands of racecourses.

- Barenbrug-bred regenerating ryegrass technology* (RPR)
- Exceptional wear tolerance, unparalleled capacity for recovery
- 100% Barenbrug-bred perennial ryegrass
- Broad-leafed and thrives on mowing heights > 60mm.



Usage

Construction, divoting and overseeding of racecourses.

Features & benefits

Designed to give you the wear tolerance and recovery needed either for flat or national hunt racing circuits.

Key to the product's unique recovery ability is *Barlibro*, a Regenerating Perennial Ryegrass (RPR) that produces determinate stolons (a stem that grows along the ground surface as it establishes and grows), resulting in solid ground cover and unparalleled capacity for recovery.

A major difference between equestrian surfaces and other sports is the mowing height. Industry trials mow grasses at 4-7mm, 10-15mm and 25mm, which is of little practical use to racecourse grounds managers. RPR SPRINT is designed to be maintained at **60mm+** height of cut, which allows broader-leafed and faster growing varieties to be utilised. RPR SPRINT includes the agriculture grass variety, *Galgorm*, a perennial ryegrass, with excellent sward density and persistency.

*Visit page 14 for further details about RPR.

How to use it



Sowing rate
25-35g/m²



Oversowing rate
15-25g/m²



Sowing depth
10-15mm below thatch



Mowing height
down to 60mm

In the bag	Bag size 20kg
35% Barlibro	RPR Perennial ryegrass
30% Bardorado	Perennial ryegrass
20% Baradona	Perennial ryegrass
15% Galgorm	Perennial ryegrass

Find out more at barenbrug.co.uk/rpr-sprint

SOS

The ground team's emergency service. SOS gives fast germination to repair worn or damaged surfaces in the coldest months.

- Purpose-bred varieties, designed for emergency repair during winter months
- Fast germination, establishment and growth
- Overseeding and patching blend of ryegrass species that germinate and grow vigorously at very low temperatures.



Usage

Designed for emergency mid-season turf repair, aiming for the fastest possible germination, establishment and growth in cool temperatures.

Features & benefits

The saviour of the winter season, this specially formulated product contains varieties that germinate and establish quickly to resurrect high traffic areas on any pitch. In recent trials, SOS was shown to establish and restore a sward overseeded in January at a soil temperature of 6.2°C, from 20% to more than 60% within a month.

Barterra is an annual ryegrass that will germinate as low as 3.5°, quicker and at lower temperatures than perennial ryegrass, including tetraploid varieties.

Bardorado provides a longer-term solution with good performance characteristics.

Visit page 15 for further details on SOS.

How to use it



Oversowing rate
20-40g/m²



Sowing depth
4-8mm below thatch



Mowing height
down to 20mm

In the bag	Bag size 20kg
50% Barterra	Annual ryegrass
50% Bardorado	Perennial ryegrass

Find out more at barenbrug.co.uk/sos



Lawn & Landscape

High quality, affordable grass seed that delivers on its promises.

Our sport & leisure grass seed mixtures have been developed to cover a wide range of applications, from golf greens through to specialist areas like airfields and motorway embankments.

The mixtures have been formulated to offer assured performance at a competitive price. Advantages such as drought tolerance, slow regrowth and disease tolerance are all things we look for in our varieties to help make better turf. After all, the purpose of turf is for people to enjoy it – and that is purpose, to enhance the enjoyment of green spaces and to Make Life Beautiful.

E1- The All Rounder

A great multi-purpose, everyday grass seed that delivers a lawned area for the rough and tumble of everyday use, while giving a high quality and attractive appearance.

- A general landscape mix with reliable sport & leisure turfgrasses
- Suitable for professional landscaping and domestic lawns, forming a dense and durable turf
- Fast to establish and durable



Usage

Ideal for general purpose lawns and landscaping works, that delivers rapid germination and establishment, designed to withstand heavy foot traffic and wear.


Features & benefits

Our lawn and landscape mixture is simple yet effective. Containing a reliable blend of perennial ryegrass and fescue that germinates and establishes rapidly, it creates a durable turf and is suitable for all soil types.


It's perfect for creating a lawn or landscape area that looks aesthetically pleasing that can be used by everyone. It produces a very fine leaved and dense lawn that adds to its attractive appearance. A reliable blend that has rapid stabilisation for embankments.



How to use it



Sowing rate
25-35g/m²



Mowing height
down to 15mm

In the bag		Bag size 20kg
60%	Perennial ryegrass	
40%	Strong creeping red fescue	

[Find out more at barenbrug.co.uk/e1](https://www.barenbrug.co.uk/e1)



INTRODUCTION

TECHNOLOGY GROUPS

GOLF

FOOTBALL, RUGBY & GAA

RACING & EQUESTRIAN

LAWN & LANDSCAPE

TECHNICAL & SUPPORT

Turf Grass Identification



PERENNIAL RYEGRASS
Lolium perenne



SMOOTH-STALKED MEADOWGRASS
Poa pratensis



SLENDER CREEPING RED FESCUE
Festuca rubra litoralis



STRONG CREEPING RED FESCUE
Festuca rubra rubra



CHEWINGS RED FESCUE
Festuca rubra commutata



BROWNTOP BENT
Agrostis capillaris



CREEPING BENT
Agrostis stolonifera



HARD FESCUE
Festuca brevipila



TALL FESCUE
Festuca arundinacea



TUFTED HAIRGRASS
Deschampsia caespitosa



CRESTED HAIRGRASS
Koeleria macrantha



ANNUAL MEADOWGRASS
Poa annua

Guide to Species Characteristics

SPECIES	SOIL CONDITIONS				MAINTENANCE						
	Seeds per gram (g)	Optimal pH range	Humidity	Salt tolerance	Maintenance level	Fast establishment	Rhizomes / Stolens / Tufted	Shade tolerance	Nitrogen requirement	Water requirement	Thatch build-up
<i>Agrostis capillaris</i> Browntop bent	14,000	5.6 -7.0	Medium	Moderate	Medium	Poor	R	Good	Medium	Medium	High
<i>Agrostis stolonifera</i> Creeping bent	16,000	5.6 -7.0	High	Good	Intensive	Poor	S	Average	Very high	High	Very high
<i>Festuca rubra rubra</i> Strong creeping red fescue	1,000	5.5 -6.8	Low	Weak	Low	Average	R	Very good	Low	Low	Medium
<i>Festuca rubra commutata</i> Chewings red fescue	1,000	5.5 -6.8	Low	Weak	Low	Average	T	Good	Low	Low/medium	High
<i>Festuca rubra litoralis</i> Slender creeping red fescue	1,000	5.5 -6.8	Low	Good	Low	Average	R	Good	Low	Low	High
<i>Festuca ovina</i> Sheep fescue	1,600	4.5 -5.8	Very low	Weak	Very low	Average	T	Good	Very low	Low/very low	Low
<i>Festuca brevipila</i> Hard fescue	1,300	4.5 -7.5	Very low	Good	Very low	Average	T	Very good	Very low	Low/very low	Low
Rhizomatous Tall Fescue (RTF)	400	5.5 -7.0	High	Good	Medium	Average	R	Very good	Medium	Very low	Low
<i>Festuca arundinacea</i> Tall fescue	450	5.5 -7.0	High	Good	Medium	Average	T	Very good	Medium	Very low	Low
<i>Lolium perenne</i> Perennial ryegrass	700	5.8 -7.4	Medium	Medium	Medium	Good	T	Poor	High	Medium	Low
<i>Poa pratensis</i> Smooth-stalked meadowgrass	3,300	5.8 -7.5	Medium	Weak	Medium	Poor	R	Poor	High	Medium	Medium
<i>Poa trivialis</i> Rough-stalked meadowgrass	5,500	5.8 -7.2	High	Weak	Medium	Average	S	Good	High	High	Medium
<i>Poa annua</i> Annual meadowgrass	6,500	5.5 -7.5	High	Weak	Intensive	Average	T	Very good	High	High	Medium
<i>Koeleria macrantha</i> Crested hairgrass	3,000	5.5 -8.0	Low	Good	Very low	Average	R	Good	Very low	Low/very low	Very low
<i>Deschampsia caespitosa</i> Tufted hairgrass	3,800	5.5 -6.5	High	Medium	Low	Good	T	Excellent	Medium	High	High

Sowing and Seeding Rates

SOWING RATES - KILOGRAMS (KG) REQUIRED					AREA COVERAGE	
STANDARD AREAS		5g/m ²	20g/m ²	35g/m ²	SEED RATES (per 20kg bag)	COVERAGE
Football	4,050m ²	-	80	150	5g/m ²	4,000m ²
Football	10,800m ²	-	225	375	10g/m ²	2,000m ²
Rugby	6,900m ²	-	150	225	15g/m ²	1,333m ²
Tennis	262m ²	-	5.5	10	20g/m ²	1,000m ²
Cricket	520m ²	-	10.5	18	25g/m ²	800m ²
Bowls	1,600m ²	8	32	56	30g/m ²	666m ²
Golf	500m ²	2.5	10	17.5	35g/m ²	571m ²

Regional Technical Support

At Barenbrug, we work together as a team to serve our clients wherever they need us. We have a team of technical experts based around the UK, as well as office locations across the UK and as part of the wider Barenbrug Group worldwide. We make our collective knowledge, experience and global network available to our clients.

Our head office, administration centre and main production facility is in Bury St Edmunds, Suffolk as well as in Falkirk, Scotland. Our research site at Cropvale, Evesham, trials both agriculture and sport and leisure varieties and mixtures, providing a solid testing ground for our material.

With over 800 employees and operating companies in 18 countries on 6 continents, we have been the leading grass seed business in the world for over 100 years.



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Conditions of sale

In case of unavailability Barenbrug UK Limited reserves the right to substitute any variety in any mixture with one of similar merit.

Any change will be detailed on the bag.

The placing of an order constitutes an acceptance of our terms and conditions of sale by the buyer.

Full terms and conditions can be found at www.barenbrug.co.uk.



Make Life Beautiful