







## Whatever the conditions, however tough the competition

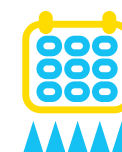


Sports grasses have a lot to contend with. From tees to courts, pitches to out-field, and starting line to final furlong, every square metre matters.

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.



### Nationwide 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 the UK 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 British farmers to produce the grass seed in UK, where we can, we deliver seed to grounds managers across the UK. In addition to our seed, we share our knowledge and experience to help you and your team excel.







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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. Here 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).



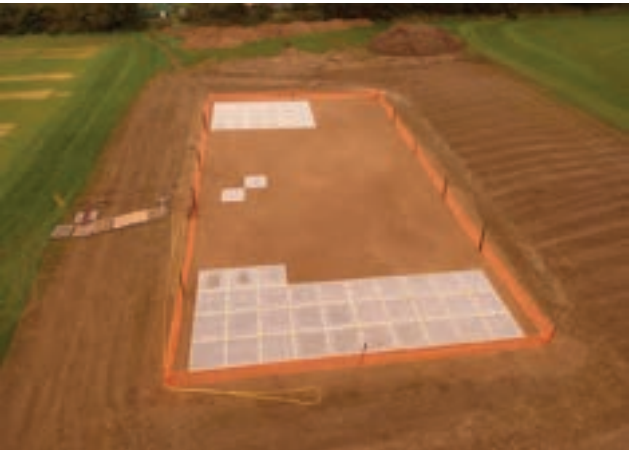
# Product Development and R&D

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.



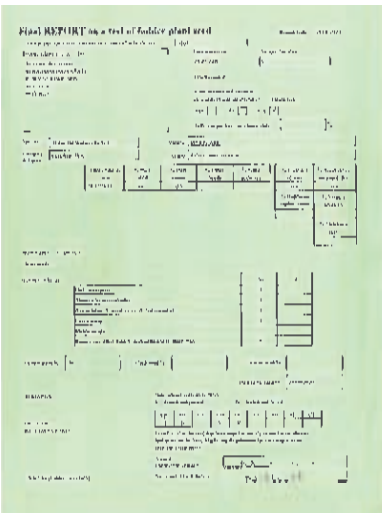
Further investment in high quality research and development for the UK and Ireland turf market saw the start of a joint trial with the **ISTI research centre in Ireland**, to measure the performance of new varieties and mixtures for golf greens. The trial greens were newly constructed to USGA specification.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



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.



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.

## 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 the UK & 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 ongoing 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 in the UK more closely.



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

# 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. 2021 was the first year this variety was produced, and it has been grown exclusively in the UK by Barenbrug's trusted growers.

Find out more about our growers at [barenbrug.co.uk/growers](http://barenbrug.co.uk/growers).

## 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 UK performance, *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.

## BARPERSIE

New to the Sport Range for 2023 is *Barpersie*, following a successful trial launch in top stadia during 2023. This Dutch variety looks set to grace winter and summer sports alike in the coming years. Ranked #6 in table S1 of BSPB Turfgrass Seed 2023, it is characterised by high wear tolerance, extremely fine leaves, exceptional shoot density and pale green colour. It is ranked #1 for Recovery, which indicates a very fast spring growth rate despite its fineness of leaf.

Its debut on Table L1, as a new cultivar, comes with some unprecedented data. Table-topping scores of 9.0 for both visual merit and shoot density, allied to extremely fast growth, points to an exciting future for this variety in any high wear and/or close-mown areas.

Download your copy of the 2023 BSPB/STRI Turfgrass booklet at [barenbrug.co.uk/bspb](http://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](http://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.

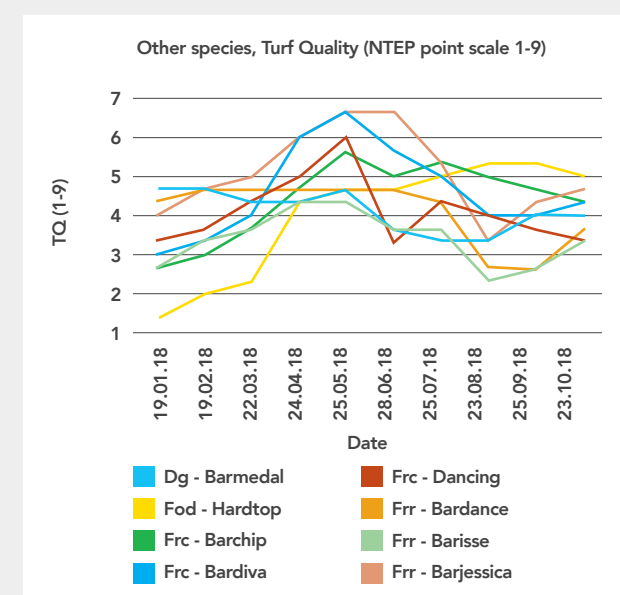


Figure 2 - Graph to show fluctuations in fescue performance (NTEP Turf Quality (TQ) assessments) over 9-month period during 2018 in Landlab, Italy. Note the superior scores of *Hardtop* hard fescue and *Barjessica* strong creeping red fescue.

### 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.

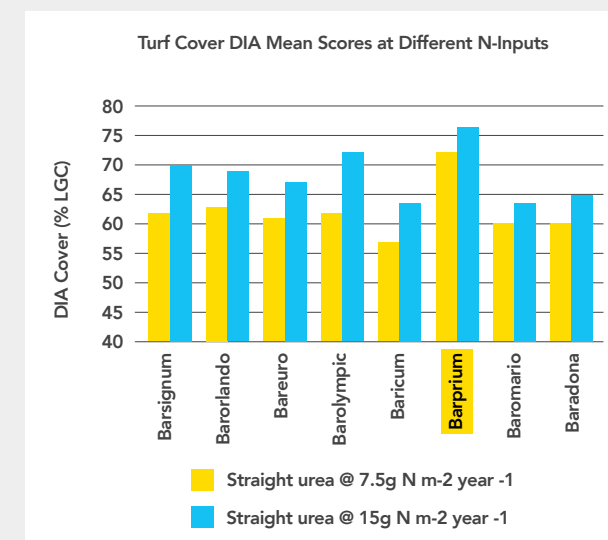


Figure 3 - STRI N-Efficiency Trial Data. *Barprrium* delivers equivalent mean turf cover to all other cultivars at 50% less nitrogen input.

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 23.

SGT Rye Fairway see page 23.

## Ultrafine

## Ultrafine

The leading fine leaf perennial ryegrass range from Barenbrug is now available with three options of superior 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* and *Barsignum*, two other elite quality ryegrasses. 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 30 - A 30% perennial ryegrass blend see page 25.

Ultrafine 60 - A 60% perennial ryegrass blend see page 25.

Ultrafine 100 - A 100% perennial ryegrass see page 26.



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## 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.

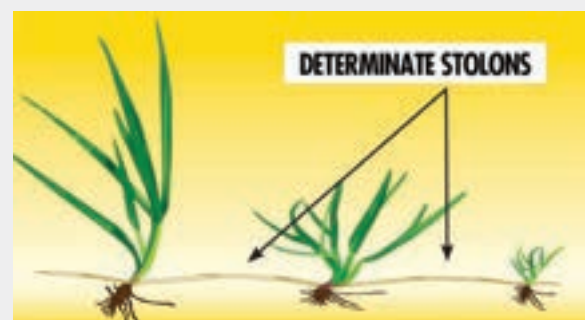


Figure 1 - The lateral growth habit results in fast establishment between seeding lines and unparalleled capacity for recovery after and during wear. Figure 2 clearly shows the rapid spread of RPR.



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 Sport, RPR Golf, 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 Golf see page 27.  
RPR Sport see page 33.  
RPR Sprint see page 47.



## 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 ryegrasses 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).

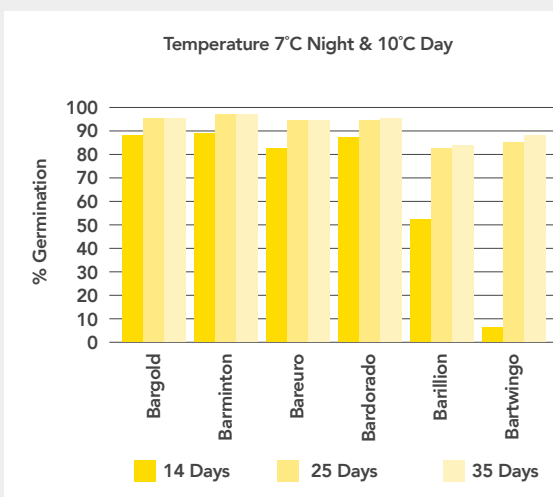


Figure 1

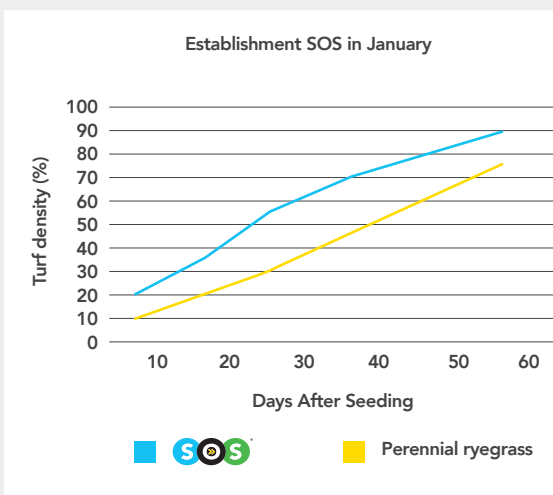


Figure 2

#### Products available with SOS technology:

SOS for Football & Rugby see page 35.  
SOS for Racecourses see page 47.



# 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-leaved 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



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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 five red fescue cultivars: *Viktorka*, *Barcrown*, *Barpearl*, *Barlineus* and *Bodega*, 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 no less than three 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.

- ☒ 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
20%	Barcrown	Slender creeping red fescue
20%	Viktorka	Slender creeping red fescue
20%	Barpearl	Slender creeping red fescue
25%	Barlineus	Chewings red fescue
15%	Bodega	Chewings red fescue

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

Fairway

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

- 100% fescue mix shines on heaths and links courses, resisting drought conditions
- *Hardtop* hard fescue for superior drought tolerance
- 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 four fine fescue species; hard fescue and three sub-species of red fescue; slender creeping, strong creeping and Chewings. The red fescue cultivars in the mix 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 - ranked) and *Barpearl* (#3 - ranked), an important factor in fairways under low nutrition. *Hardtop* hard fescue offers superior performance under many stress factors associated with turf areas that this blend is used for. These include drought, heat, cold and low nutrition.

- ☐ Greens
- ☒ Tees
- ☒ Fairways
- ☒ Coastal
- ☒ 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 7mm

In the bag		Bag size 20kg
35%	Barpearl	Slender creeping red fescue
30%	Sergei	Strong creeping red fescue
20%	Barris	Strong creeping red fescue
10%	Bodega	Chewings red fescue
5%	Hardtop	Hard fescue

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

Shoreline

An innovative 100% blend of slender creeping red fescues for areas exposed to high salinity, such as links and other coastal courses.

- 100% slender creeping red fescue blend
- Germination and survival in salt areas
- Cultivars highly ranked in BSPB/STRI Turfgrass Seed 2023 booklet Table G3.



**Usage**  
Overseeding and construction of free-draining medium-fine turf areas exposed to saline conditions.

**Features & benefits**  
The name SHORELINE is derived from the Latin *litoralis*, the species name for slender creepers. The mix contains three top-11 ranked varieties\*: *Barcrown*; *Viktorka* and *Barpearl*

Providing a superior salt tolerance for fescue dominant golf greens on links and seaside golf courses exposed to salt spray and salt-laden winds, it is suitable for the construction and overseeding of all areas of free-draining turf exposed to salt.

Salt tolerance is a complex issue. Most salt stress issues experienced on golf courses throughout the UK and Ireland are caused by salt spray or salt laden winds. Problems associated with high salinity soils are much more complex, and more difficult to manage due to the ability of varying soil particles to attract salt under differing environmental conditions.

The grass plant’s response to salt stress can vary significantly during its life cycle. The plant’s capabilities at different stages, from germination to established sward must therefore be tested to realise any practical solutions for a dedicated grass seed mix.

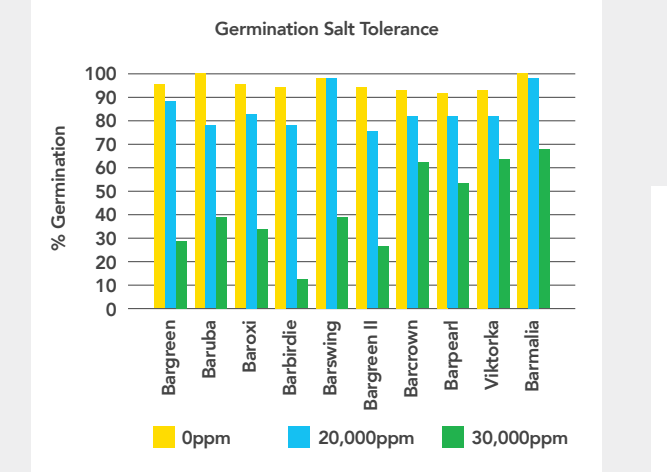


Figure 1 - Graph showing Barenbrug laboratory, testing germination of slender creeping red fescue and Chewings fescues with different levels of sea water parts per million (ppm).

Testing on established grass plants has been carried out in two distinct environments; in a glasshouse grown in rootzone and secondly in field trial sites in native soils and imported rootzones from locations naturally exposed to salt stress. Slender creeping red fescue generally demonstrates superior salt tolerance in comparison with Chewings fescues (See Fig. 2).

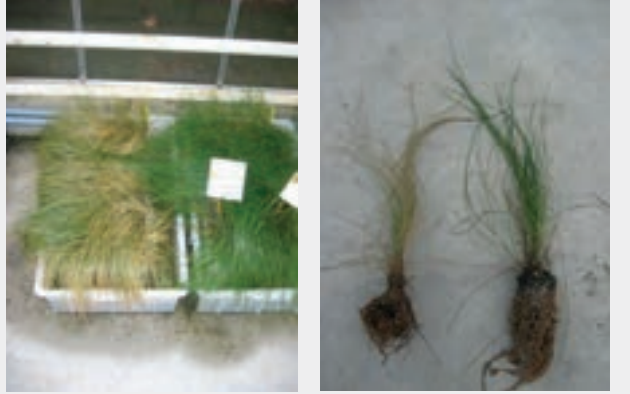


Figure 2 - Glasshouse salt tolerance trial on three month old established plants at Barenbrug Research. Chewings fescue (left) versus slender creeping red fescue (right) at 30,000ppm salt water irrigation over a period of three months.

☒ Coastal

**How to use it**

Sowing rate  
35-45g/m²

Oversowing rate  
20-30g/m²

Sowing depth  
8-12mm below thatch

Mowing height  
down to 4mm

In the bag		Bag size 20kg
50%	Barpearl	Slender creeping red fescue
25%	Barcrown	Slender creeping red fescue
25%	Viktorka	Slender creeping red fescue

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



## SGT

**“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 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.

### 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. 2), 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.

STRI researchers concluded: “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.”

*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.

### 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).



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.

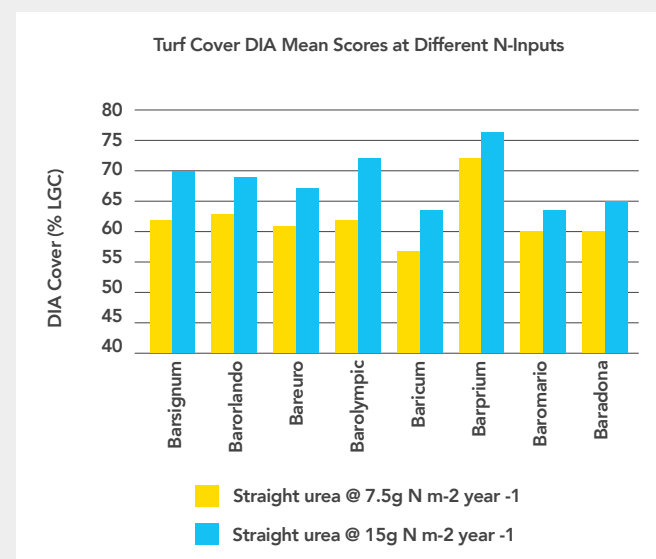


Figure 2 - STRI N-Efficiency Trial Data. *Barprrium* delivers equivalent mean turf cover to all other cultivars at 50% less nitrogen input.



## 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

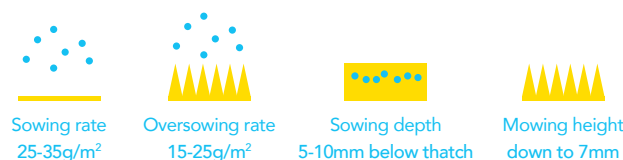
Central to the product is a large proportion of hard fescue, a fine fescue species with well-documented tolerance to drought and heat stress and proven performance with low-input maintenance, as well as good overall turf quality for density and visual merit, helping to maintain good aesthetics in the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

*Beacon* is a newer variety of hard fescue, now listed on Table L6 with a mean score of 7.1\*. Its performance on the GEVES list in France, #1 rated for a range of traits, including “lawn index”, “shoot density”, “fineness of leaves” and “global aesthetic quality”, is of particular relevance to this product.

In trials at Landlab in Italy, *Hardtop* hard fescue and *Barjessica* strong creeping red fescue perform particularly well in periods of heat and drought.

☐ Greens ☒ Tees ☒ Fairways ☐ Walkways ☒ Roughs

### How to use it



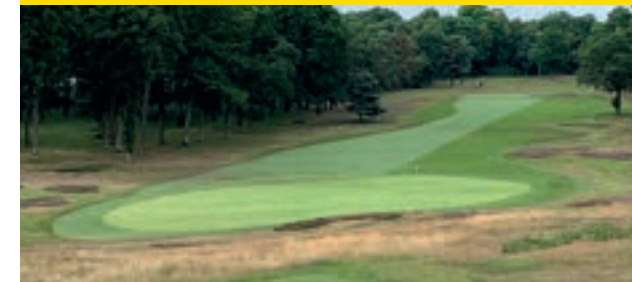
In the bag	Bag size 20kg
30% <b>Hardtop</b>	Hard fescue
30% <b>Barpearl</b>	Slender creeping red fescue
20% <b>Beacon</b>	Hard fescue
20% <b>Barjessica</b>	Strong creeping red fescue

Find out more at [barenbrug.co.uk/sgt-fine-fescue](https://barenbrug.co.uk/sgt-fine-fescue)

## SGT Rye Fairway

Utilising our sustainable grass technology (SGT) delivering grass requiring reduced water, fertiliser and chemical inputs.

- SGT technology offers outstanding turf performance with reduced water and chemical inputs
- Drought and disease tolerance, and superior colour
- *Barprrium* for fine-leaved grass with proven capacity for nitrogen-use efficiency.



### Usage

Overseeding, divoting and construction of medium-fine turf areas across a range of soil types.

### Features & benefits

Our innovative mixture of four grass species. The “driver” of the mixture is *Barprrium* perennial ryegrass. An outstanding fine-leaved ryegrass with proven capacity for nitrogen-use efficiency; put simply, it requires far less nitrogen (up to 50% less) to deliver equivalent turf performance.

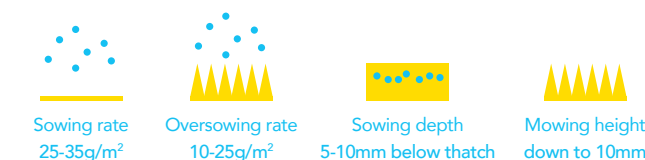
*Barprrium* is highly ranked with a mean score of 7.5\* on Table L1 and exhibits strong summer colour, another useful characteristic for low-input golf fairways.

The fine fescue cultivars are chosen for their sustainable performance characteristics also. In trials at Landlab in Italy, *Hardtop* hard fescue and *Barjessica* strong creeping red fescue perform particularly well in periods of heat and drought.

The mixture exhibits high disease tolerance in low-input environments. Hard fescue copes well under Dollar Spot pressure, and both *Barpearl* and *Barjessica* have excellent Red Thread tolerance.

☐ Greens ☒ Tees ☒ Fairways ☐ Walkways ☒ Roughs

### How to use it



In the bag	Bag size 20kg
30% <b>Barprrium</b>	Perennial ryegrass
35% <b>Barpearl</b>	Slender creeping red fescue
20% <b>Hardtop</b>	Hard fescue
15% <b>Barjessica</b>	Strong creeping red fescue

Find out more at [barenbrug.co.uk/sgt-rye-fairway](https://barenbrug.co.uk/sgt-rye-fairway)

\* in BSPB/STRI Turfgrass Seed 2023 booklet



# Rye Fairway

A reliable and balanced mixture of ryegrass and fescue for medium-fine turf with moderate wear and great all-round performance.

- Superior colour during playing season from *Barcristalla* perennial ryegrass
- High turf density from *Barpearl* and *Barrisse* red fescues
- Contains #1-rated strong creeping red fescue *Barrisse* for Red Thread tolerance.



### Usage

Overseeding, divoting and construction of medium-fine turf with moderate wear.

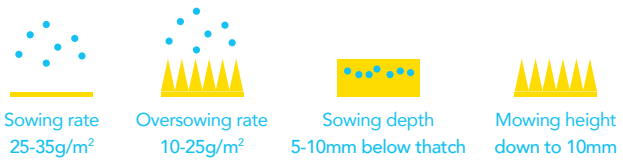
### Features & benefits

The “driver” of the mixture is the perennial ryegrass component (50%). *Barcristalla* is a medium-fine ryegrass with excellent wear-tolerance and superior colour.

The red fescue cultivars are superior examples of their species and are ranked highly in BSPB/STRI Turfgrass Seed 2023. Both feature in top-15s on multiple tables and have outstanding Red Thread tolerance, with *Barrisse* #1-rated.

☐ Greens ☒ Tees ☒ Fairways ☐ Walkways ☐ Roughs

### How to use it



In the bag		Bag size 20kg
50%	<b>Barcristalla</b>	Perennial ryegrass
35%	<b>Barrisse</b>	Strong creeping red fescue
15%	<b>Barpearl</b>	Slender creeping red fescue

Find out more at [barenbrug.co.uk/rye-fairway](https://barenbrug.co.uk/rye-fairway)



# Ultrafine 30

A 30% perennial ryegrass and red fescue blend for fine turf.

Formerly Platinum Fine Turf

- Contains 30% *Barolympic* which has an outstanding mean score of 8.6\*
- Excellent combination of three fine fescue varieties.



### Usage

Overseeding and construction of fine turf with moderate wear.

### Features & benefits

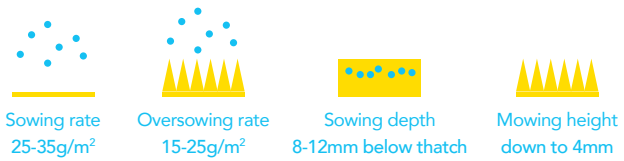
Including, *Barolympic*, the stand-out cultivar ryegrass for summer sports use, with the highest mean score in the entire publication and more than a full point clear of its nearest rival\*.

*Barolympic* is ranked #1 for pale colour and #2 for fineness of leaf\*. This makes it exceptionally easy to blend in with other grass species, such as red fescue or annual meadowgrass.

The red fescue cultivars *Bodega*, *Viktorka* and *Barpearl* are strong performers, ranked #11, #9 and #11 in their respective tables in the BSPB/STRI Turfgrass Seed 2023 booklet, and help to maintain outstanding aesthetics and density.

☒ Greens ☒ Tees ☒ Fairways ☐ Walkways ☐ Roughs

### How to use it



In the bag		Bag size 20kg
30%	<b>Barolympic</b>	Perennial ryegrass
25%	<b>Viktorka</b>	Slender creeping red fescue
25%	<b>Barpearl</b>	Slender creeping red fescue
20%	<b>Bodega</b>	Chewings red fescue

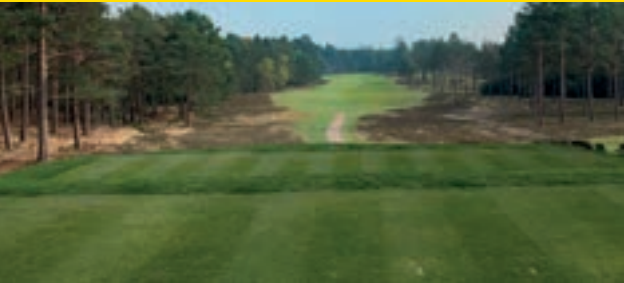
Find out more at [barenbrug.co.uk/ultrafine-30](https://barenbrug.co.uk/ultrafine-30)

# 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

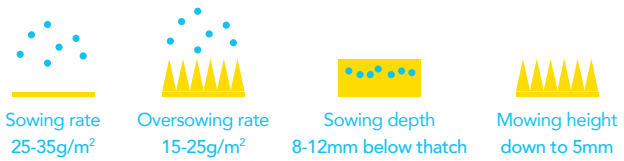
*Barolympic* is the stand-out cultivar ryegrass for summer sports use. It is ranked with a score of 8.6\*, the highest mean score in the entire publication, and more than a full point clear of its nearest rival.

*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 *Barrisse* 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%	<b>Barolympic</b>	Perennial ryegrass
30%	<b>Barprrium</b>	Perennial ryegrass
25%	<b>Barpearl</b>	Slender creeping red fescue
15%	<b>Barrisse</b>	Strong creeping red fescue

Find out more at [barenbrug.co.uk/ultrafine-60](https://barenbrug.co.uk/ultrafine-60)

\* BSPB/STRI Turfgrass Seed 2023 booklet /Table G4



# Ultrafine 100

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

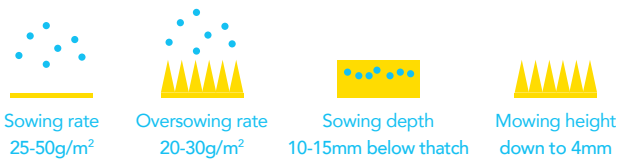
*Barprrium* is a recent cultivar from Barenbrug's breeding station in France. It forms a large part of the Sustainable Grass Technology (SGT) concept due to its independently proven drought tolerance, Nitrogen-use efficiency, and disease resistance. *Barprrium* is ranked as a 'new cultivar' with a score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

*Barsignum* is another excellent ryegrass from our European Turf breeding programme, ranked #7 in Table L1\* (mean score 7.5) and G4\* (mean score 7.0).

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
40% <b>Barolympic</b>	Perennial ryegrass
40% <b>Barprrium</b>	Perennial ryegrass
20% <b>Barsignum</b>	Perennial ryegrass

Find out more at [barenbrug.co.uk/ultrafine-100](https://barenbrug.co.uk/ultrafine-100)

# Extreme

Barenbrug's go-to blend of fine perennial ryegrasses, for all-purpose use in areas requiring medium-fine turf, close-mowing and high wear.

- 100% perennial ryegrass
- Most popular Barenbrug summer sports product.



**Usage**  
Overseeding, divoting and construction of medium-fine turf with intense wear.

**Features & benefits**  
All four Barenbrug-bred cultivars bring advantages and different characteristics to this product.

*Barprrium* is an exceptional ryegrass for summer sports use. It is ranked very highly in both G4 and L1 tables of BSPB Turfgrass Seed 2023.

*Barzico* is an elite variety for medium-fine turf under wear traffic. It is ranked #1 on Table S1\* and within the top-25 on L1\*.

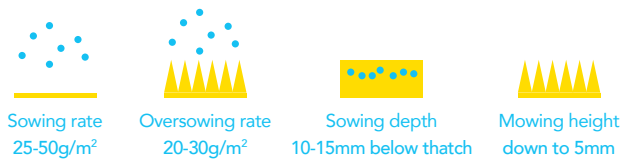
*Baradona* offers outstanding all-round wear tolerance, shoot density, and aesthetics. With a mean score 7.4 in Tables S1\* and L1\*, it is one of only two varieties to hold top-20 rankings in both lists.

*Baromario* is another strong all-rounder with high mean scores Tables S1 and L1\*.

If fineness of leaf or tolerance to very close mowing are the driving factors in product selection, **ULTRAFINE 100** is recommended as a possible alternative.

☐ Greens ☒ Tees ☒ Fairways ☒ Walkways ☐ Roughs

## How to use it



In the bag	Bag size 20kg
40% <b>Barprrium</b>	Perennial ryegrass
25% <b>Baradona</b>	Perennial ryegrass
25% <b>Baromario</b>	Perennial ryegrass
10% <b>Barzico</b>	Perennial ryegrass

Find out more at [barenbrug.co.uk/golf-extreme](https://barenbrug.co.uk/golf-extreme)

# RPR Golf

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).

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. It produces determinate stolons (a stem that grows along the ground surface as it establishes and grows as shown in Fig. 1), resulting in solid ground cover and unparalleled capacity for recovery after and during wear.

*Barprrium* is an exceptional ryegrass for summer sports use. It is ranked very highly in both G4 and L1 tables of BSPB Turfgrass Seed 2023.

*Barcristalla* is a very strong performer under high traffic, with a top-25 ranking in Table S1\*. It also exhibits good retention on winter colour and disease tolerance.

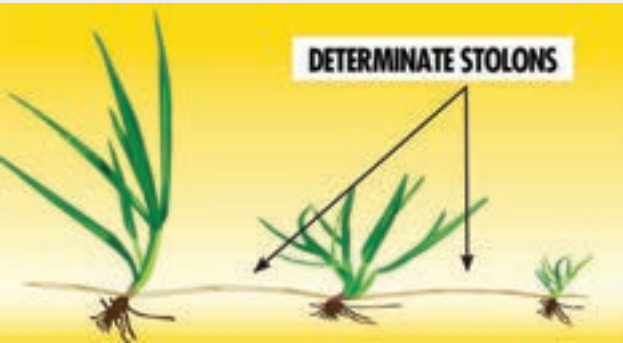


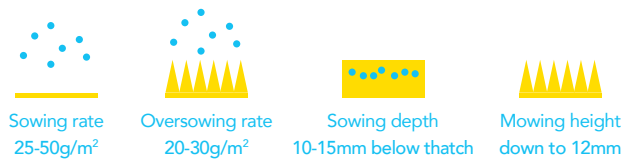
Figure 1 - Schematic diagram of determinate stolons in RPR.

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
50% <b>Barlibro</b>	RPR Perennial ryegrass
30% <b>Barcristalla</b>	Perennial ryegrass
20% <b>Barprrium</b>	Perennial ryegrass

Find out more at [barenbrug.co.uk/rpr-golf](https://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 *BarKing* 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. *BarKing* 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

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*, *Barbasten* and *Barpersie* - the #1, #4 and #6 ranked Perennial Ryegrass cultivars from the BSPB/STRI Turfgrass Seed 2023 booklet S1 table.



Elite Sport

The market leading grass seed product, for premium sport stadiums and pitches, with the top performing grass varieties on the market.

- The UK's no.1 rated mixture with a mixture score of 7.83\*
- The only mixture on the market containing both *Barzico* #1 & *Barbasten* #4 ranked cultivars and new for 2023 the #6\* ranked variety, *Barpersie*.
- Four Barenbrug-bred varieties.



Designed for premier pitches



Top visual merit



High disease tolerance



No. 1 rated mixture



Usage

Designed for elite winter sport stadiums and pitches, it focuses on the key characteristics of wear tolerance, recovery, camera-friendly grass colour and disease resistance. ELITE SPORT is changing the game for the renovation and construction of stadium and other high-quality pitches.

Top performing varieties

Barenbrug's ELITE SPORT product has been re-formulated for 2023 to include brand new cultivars to the market.

*Barzico* holds the coveted #1\* position, 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.

*Barbasten* sits just below *Barzico*, as #4\*. It is a true winter sports cultivar and a "late-heading" variety from the Dutch breeding station. Coarser in the leaf, paler green and exceptionally active in winter/spring recovery, *Barbasten* brings additional *Drechslera* leaf spot tolerance to the product. New for 2023 is the #6 ranked variety, *Barpersie*, featuring exceptional density and will be balanced with the well-established variety *Barcristalla*, cementing ELITE SPORT as the market-leading grass seed mixture of its type, designed for elite winter sport stadiums and pitches.

Features & benefits

Every elite squad should have the perfect combination of characterises. Our ELITE SPORT seed mix blends four of the toughest, most hardwearing perennial ryegrasses into a top performing team.


**High wear tolerance and recovery**

The mixture is formulated primarily on performance in the BSPB/STRI Turfgrass Seed 2023 booklet Table S1 for sports pitch wear simulation. All four cultivars are highly ranked, including the #1 ranked variety and ELITE SPORT has the UK's highest 'mixture score' of 7.83.


**Camera-friendly colour**

*Barcristalla* is a key variety in ELITE SPORT, with a much darker genetic colour than other top varieties, while *Barbasten* brings additional *Drechslera* leaf spot tolerance to the blend and *Barzico* combines top-rated visual merit and wear tolerance.


How to use it




Sowing rate  
30-50g/m²



Oversowing rate  
15-30g/m²



Sowing depth  
10-15mm below thatch



Mowing height  
down to 18mm

In the bag	Bag size 20kg
35% <b>Barzico</b>	Perennial ryegrass
25% <b>Barbasten</b>	Perennial ryegrass
25% <b>Barcristalla</b>	Perennial ryegrass
15% <b>Barpersie</b>	Perennial ryegrass

Find out more at [barenbrug.co.uk/elite-sport](https://barenbrug.co.uk/elite-sport)

RPR Sport

Recovery time is the real measure of fitness. This mix regenerates to keep your pitch looking its best all season long.

- Barenbrug-bred RPR technology for fast establishment and unparalleled capacity for recovery from wear
- Tried & tested at our research station focused on four key traits for high performance pitches
- 100% perennial ryegrass for areas of intensive traffic
- Barenbrug-bred varieties only.





Regenerating long-term pitches

Usage

Wear is inevitable, and for some that means a complete annual renovation, but if that is not possible or is undesirable, RPR SPORT can help. Its unique blend of regenerating perennial ryegrasses copes with high use to maintain the playing surface throughout the year.


**Features & benefits**

The unique component of RPR SPORT 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 the highly rated *Barcristalla* and *Barorando*, which add a stronger genetic green colour with proven wear tolerance.

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


How to use it




Sowing rate  
30-50g/m²



Oversowing rate  
15-30g/m²



Sowing depth  
10-15mm below thatch



Mowing height  
down to 18mm

In the bag	Bag size 20kg
50% <b>Barlibro</b>	RPR Perennial ryegrass
35% <b>Barcristalla</b>	Perennial ryegrass
15% <b>Barorando</b>	Perennial ryegrass

Find out more at [barenbrug.co.uk/rpr-sport](https://barenbrug.co.uk/rpr-sport)

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 for cricket outfields 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. Cultivars like *Baradona* and *Barbasten* are selected for 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. MULTI SPORT is formulated to utilise a high proportion of seed produced here in the UK – reducing the carbon footprint of delivering this product to market.

*Barorando* and *Barcristalla* are proven, all-round high performing varieties. But where they differ is that they combine dark green genetic colour and high wear tolerance, giving MULTI SPORT a deep green colour.


How to use it




Sowing rate  
30-50g/m²



Oversowing rate  
15-30g/m²



Sowing depth  
10-15mm below thatch



Mowing height  
down to 10mm

In the bag	Bag size 20kg
35% <b>Barbasten</b>	Perennial ryegrass
30% <b>Barcristalla</b>	Perennial ryegrass
25% <b>Barorando</b>	Perennial ryegrass
10% <b>Baradona</b>	Perennial ryegrass

Find out more at [barenbrug.co.uk/multi-sport](https://barenbrug.co.uk/multi-sport)





# Smooth Sport

Dedicated smooth-stalked meadowgrass and perennial ryegrass mixture.

- Suitable predominantly for construction of winter sports in a range of soil types
- Smooth-stalked meadowgrass offers vigorous recovery from wear due to rhizomes if sufficient establishment time is afforded to the mixture
- Features highly ranked cultivars in Tables S1 and S2 of the BSPB/STRI Turfgrass Seed 2023 booklet.




**Usage**  
Construction of winter sport pitches, allowing at least three months for the smooth-stalked meadowgrass to establish.


**Features and benefits**  
*Bariris* is ranked in the top-10 varieties in BSPB/STRI Turfgrass Seed 2023 booklet Table S2.  
*Barzico* and *Barbasten* are elite quality perennial ryegrasses, being ranked #1 and #4 respectively in the BSPB/STRI Turfgrass Seed 2023 booklet Table S1.

A favourite for its good wearing qualities and regrowth, smooth-stalked meadowgrass has rhizomes that enable it to recover quickly from wear during the winter season. Combined with the ryegrasses in this mix, the balance of characteristics make it particularly suitable for winter sports pitches.


## How to use it




Sowing rate  
30-50g/m<sup>2</sup>



Oversowing rate  
15-20g/m<sup>2</sup>



Sowing depth  
10-15mm below thatch



Mowing height  
down to 18mm

In the bag		Bag size 20kg
40%	<b>Barbasten</b>	Perennial ryegrass
40%	<b>Barzico</b>	Perennial ryegrass
20%	<b>Bariris</b>	Smooth stalked meadow grass

Find out more at [barenbrug.co.uk/smooth-sport](https://barenbrug.co.uk/smooth-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.



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


**Features and 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.


*Bar dorado* and *Barolympic* provide a longer-term solution with good performance characteristics. Both varieties exhibit excellent low temperature germination in trials when compared against other perennial ryegrass varieties.

Visit page 15 for further information on SOS


## How to use it




Sowing rate  
30-50g/m<sup>2</sup>



Oversowing rate  
20-40g/m<sup>2</sup>



Sowing depth  
4-8mm below thatch



Mowing height  
down to 20mm

In the bag		Bag size 20kg
40%	<b>Barterra</b>	Annual ryegrass
30%	<b>Barolympic</b>	Perennial ryegrass
30%	<b>Bar dorado</b>	Perennial ryegrass

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



**"One advantage of working with a seed breeder is to be able to follow the development of new grass varieties and work with the breeder to see how products can work best for our pitches."**

## Variety is the secret of a great performance on the pitch and in the stadium.

Maintaining a healthy, consistent, and good-looking pitch throughout the season is a battle for any professional club. It is made more difficult when faced with the combined forces of intense use, heavy wear throughout the winter, and poor light that limits growth.

To combat such difficulties, grounds managers like Ben Connell, at Ipswich Town Football Club, find understanding grass varieties gives them an advantage.

"The pitch at Portman Road was constructed more than forty years ago and wasn't made with sand or with any reinforcements in it," he explains, "so, we have to be careful how we're aerating and how much we consolidate it when we're going into a match." Those challenges are compounded by the growing conditions.

**"With a large stadium surrounding the pitch, we suffer with lower light levels during the winter and the big thing for us is managing that as well as possible."**

"Working with a seed breeder we can see how new grass varieties will work best for our pitches."

Ben has worked at Ipswich Town for ten years. Even in that short time, the game has changed, he believes. "The loss of chemicals that might have been used to fight against disease has changed the turf industry a lot," and on top of everything else, that makes the choice of grass variety critical. "It's really important to us as turf managers to have varieties that have more disease resistance and more drought tolerance, so they need lower inputs to create a healthy plant."

To understand how different varieties might be able to help, Ben began trials five years ago with Barenbrugbred grass varieties on the training grounds and academy pitches. Since then he has overseen their introduction into the stadium pitch.

"One advantage of working with a seed breeder," Ben says, "is to be able to follow the development of new grass varieties and work with the breeder to see how products can work best for our pitches."

Barenbrug continues to introduce new grass varieties that have demonstrated their potential in BSPB/STRI Turfgrass Seed booklet S1 table. "We're excited by the new varieties that Barenbrug is developing, and we want to see them in our pitch - they're going to be top of the Table for us too".



# Cricket & Tennis

Highly refined blends to meet the tests of the British summer's sports.

Aside from the intense wear to which summer sports surfaces are subject, the unpredictability of the British weather adds an extra dimension.

Managing fine lawns and squares with close-mowing regimes heightens the risk of material damage through intense traffic and increasingly through drought - a more widespread feature of summers.

Through ongoing research at Barenbrug's breeding stations we are investing in future blends to help maintain the quality of the cricket pitches and lawn tennis courts for which the nation is world famous.

Look out for *Barprrium* and *Barolympic*, two stand-out varieties in the BSPB/STRI Turfgrass Seed 2023 booklet that underpin our grass products for summer sports.



INTRODUCTION

TECHNOLOGY GROUPS

GOLF

FOOTBALL & RUGBY

CRICKET & TENNIS

RACING & EQUESTRIAN

TECHNICAL & SUPPORT



# Ultrafine 60

A 60% blend of fine turf perennial ryegrass and red fescue for free-draining cricket outfields.

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



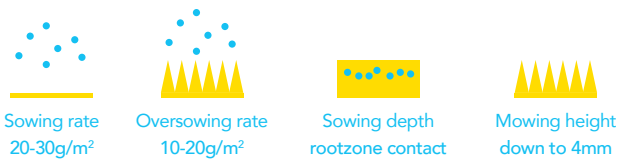
**Usage**  
Designed for the construction or overseeding of medium-fine and fine turf under high wear pressure.

**Features and 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 *Barrissee* 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.

## How to use it



In the bag		Bag size 20kg
30%	<b>Barolympic</b>	Perennial ryegrass
30%	<b>Barprrium</b>	Perennial ryegrass
25%	<b>Barpearl</b>	Slender creeping red fescue
15%	<b>Barrissee</b>	Strong creeping red fescue

Find out more at [barenbrug.co.uk/ultrafine-60](https://barenbrug.co.uk/ultrafine-60)

# Ultrafine 100

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

- Exceptional fineness of leaf
- Perfectly suited for the construction and maintenance of tennis courts
- *Barolympic* is the stand-out cultivar ryegrass for summer sports use.



**Usage**  
Overseeding and construction of fine turf with intense wear. Tennis courts and cricket pitches are perfect examples of where this grass seed product comes into its own.

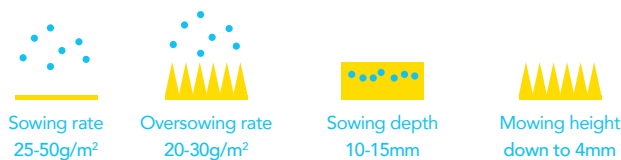
**Features and benefits**  
*Barolympic* is the stand-out cultivar ryegrass for summer sports use. It is ranked with a score of 8.6 in Table G4\*, the highest mean score in the entire publication.

*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\*.

*Barsignum* is another excellent ryegrass from our European Turf breeding programme, ranked #7 in Table L1\* (mean score 7.5) and #4 in G4\* (mean score 7.0).

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

## How to use it



In the bag		Bag size 20kg
40%	<b>Barolympic</b>	Perennial ryegrass
40%	<b>Barprrium</b>	Perennial ryegrass
20%	<b>Barsignum</b>	Perennial ryegrass

Find out more at [barenbrug.co.uk/ultrafine-100](https://barenbrug.co.uk/ultrafine-100)

# Extreme

Hard wearing blend of fine-leaved perennial ryegrasses – ideally suited to all levels of cricket squares.

- A blend of perennial ryegrasses for use in multi-purpose sport areas
- Tolerance to close-mowing and high wear
- Formulated to withstand the high demands of cricket squares, tennis and other high impact areas
- Fast establishment
- Most popular Barenbrug product for summer sports.



**Usage**  
Designed to create the perfect, lasting surface for cricket squares and outfields, when overseeding, divoting and construction. Producing a medium-fine turf for intensive wear and good tolerance of close-mowing regimes.

**Features and benefits**  
Cricket squares and outfields, tennis courts and high-traffic lawns are perfect examples of where this grass seed mix is at home.

*Barprrium* is an exceptional ryegrass for summer sports use. It is ranked very highly in both G4 and L1 tables of BSPB Turfgrass Seed 2023.

*Baradona* offers outstanding all-round wear tolerance, shoot density, and aesthetics. With a mean score 7.4 in Tables S1\* and L1\*, it is one of only two varieties to hold top-20 rankings in both lists.

*Baradona* has also exhibited exceptional ability to tolerate and recover from extreme wear in cricket squares in Barenbrug trials run at Loughborough University.

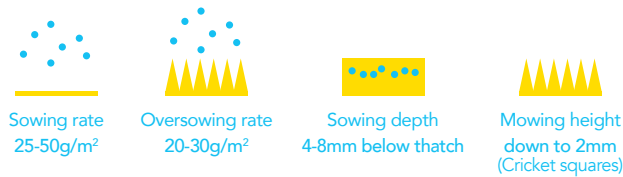
*Baromario* is another strong all-rounder with high mean scores Tables S1 and L1\*.

*Barzico* is an elite variety for medium-fine turf under wear traffic. It is ranked #1 on Table S1\* and within the top-25 on L1\*.



Barenbrug trials run at Loughborough University.

## How to use it



In the bag		Bag size 20kg
40%	<b>Barprrium</b>	Perennial ryegrass
25%	<b>Baradona</b>	Perennial ryegrass
25%	<b>Baromario</b>	Perennial ryegrass
10%	<b>Barzico</b>	Perennial ryegrass

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



# Barenbrug & Queen's Club

**"Professionals produce three months of wear in one week. Starting with Becker, pro tennis players have steadily got bigger and stronger which really chews the courts up."**

## Crowned Courts - The Queen's Club chooses Barenbrug Ultrafine to maintain a surface fit for its members and the annual visit of tennis royalty.

Among the more exclusive of London's sporting clubs, the Queen's Club counts among its members many tennis greats, members of the royal family, and business leaders. It is held in high regard by touring players for its perfectly maintained courts.

Graham Kimpton is Grounds Manager, where he took over the reins in 2010 from his father, David Kimpton. Graham's family association with Groundsmanship is impressive. His uncle Peter worked at the nearby Hurlingham Club for 50 years, his father worked at Queen's for 43 years and his cousin Adam Tester is Grounds Manager at The University of Leicester. With Graham's eldest son, Sam, now working at Queen's, he becomes the third generation of the Kimpton family to tend to the famous West London grass courts - all 12 of them.

The big challenge for court management is coping with the wear during and after the big tournaments. "Professionals produce three months of wear in one week," reflects a stoical Graham Kimpton, second generation Grounds Manager. "Starting with Becker [coincidentally a member of the club], pro tennis players have steadily got bigger and stronger which really chews the courts up."

The answer to heavy wear is to have strong turf that recovers quickly. It's important because maintaining the courts is a balancing act. Whatever happens, the grounds team must provide a championship quality surface for the annual summer tournament and accommodate the year-round needs of the members.

Barenbrug grass was originally the choice of Graham's father, the former Grounds Manager at Queens. The tennis courts at Queen's are unusual as they are composed of a blend of Bent, Fescue and Perennial Ryegrass.

The courts at The Queen's Club are oversown twice per year, with two different mixtures:

**Spring Mixture – 100% Ryegrass | Autumn Mixture – Ryegrass, bent and fescue**

Graham maintains the Bent and Fescue population in the courts to boost the sward density. Although the courts are predominantly Perennial Ryegrass, Graham feels the Bent and Fescue help to 'fill the gaps' in the sward, helping to create a tight barrier to reduce Poa ingress.

In his time at The Queen's Club Graham says there have been many advancements that have contributed to improving the standards of the surfaces. Improvements in machinery, particularly aeration and scarification equipment, as well as developments in grass breeding from Barenbrug.

**"We have used Barenbrug for over 15 years. I feel they offer the best out there, they give me good service and are always pushing the boundaries to create improved varieties"**

Taken together, these tennis court mixes have all the properties that make it a high-quality playing surface fit for a first class tournament.



# 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.

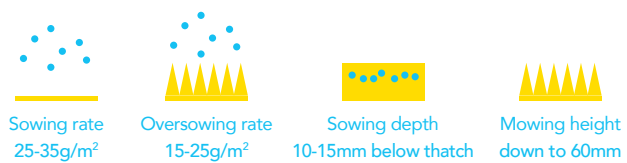
**Features & benefits**  
Designed to give you the wear tolerance and recovery needed either for flat or national hunt racing circuits.

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



In the bag		Bag size 20kg
50%	<b>Barlibro</b>	RPR perennial ryegrass
20%	<b>Bardorado</b>	Perennial ryegrass
20%	<b>Barorlando</b>	Perennial ryegrass
10%	<b>Galgorm</b>	Perennial ryegrass

Find out more at [barenbrug.co.uk/rpr-sprint](https://barenbrug.co.uk/rpr-sprint)

# SOS

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.

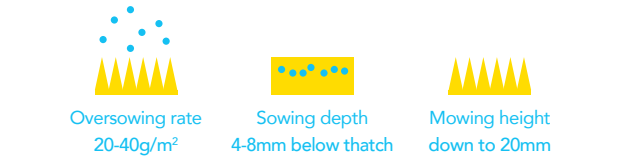
**Features & benefits**  
The saviour of the winter season, this specially formulated product contains varieties that germinate and establish quickly to resurrect high traffic areas on any pitch. In recent trials, SOS was shown to establish and restore a sward overseeded in January at a soil temperature 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* and *Barolympic* provide a longer-term solution with good performance characteristics. Both varieties exhibit excellent low temperature germination in trials when compared against other perennial ryegrass varieties.

Visit page 15 for further details on SOS.

## How to use it



In the bag		Bag size 20kg
40%	<b>Barterra</b>	Annual ryegrass
30%	<b>Barolympic</b>	Perennial ryegrass
30%	<b>Bardorado</b>	Perennial ryegrass

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



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



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## 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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**www.barenbrug.co.uk**

**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](http://www.barenbrug.co.uk).



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