



# SPORT PRODUCT GUIDE 2024



BARENBRUG



**GOLF**  
12-25



**FOOTBALL & RUGBY**  
26-33



**CRICKET & TENNIS**  
34-39



**RACING & EQUESTRIAN**  
40-43

# CONTENTS

4	About Us
5	New Varieties
6	Disease Tolerance in Winter Sport: Elite Defence
6-7	Disease Tolerance
8-9	SGT & Disease Tolerance
10	Ultrafine & SOS
11	RPR

## 12 GOLF

### Ryegrass-Free

14	All Bent
14	Classic 80:20
15	Fescue
16	Fairway
16	Open Rough
17	Shoreline
19	SGT Fine Fescue

### Rye/Fescue Mixture

19	SGT Rye Fairway
20	Ultrafine 30
20	Ultrafine 60
22	Rye Fairway

### Pure Ryegrass

21	Ultrafine 100
22	Extreme
23	RPR Golf

## 26 FOOTBALL & RUGBY

28	Elite Sport
29	Elite Defence
30	RPR Sport
30	Multi Sport
31	Smooth Sport
31	SOS

## 34 CRICKET & TENNIS

36	Extreme
37	Ultrafine 60
37	Ultrafine 100

## 40 HORSE RACING

43	RPR Sprint
43	SOS

44	Turf Grass Identification
45	Guide to Species Characteristics & Sowing & Seeding Rates
46	Our Partners & Distributors
47	Our Team



# 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.



## New Varieties

### ALTIVO

New to the Sport Range for 2024 is *Altivo*, with a #2-ranking in table S1 of BSPB Turfgrass Seed 2024. It is included in **Elite Sport** - the market-leading and top-rated perennial ryegrass blend for winter sports use.

*Altivo* is a true winter sports and late-heading cultivar, with a medium-fine leaf, high shoot density and paler green colour. It offers highly active growth in winter and spring promising superior mid-season recovery before temperatures recover towards the end of the season.

Despite the "non-Bar-" name, the variety was bred and developed by Barenbrug in our Dutch breeding station.

### BARPERSIE

Introduced to the Sport Range in 2023 is *Barpersie*, which now takes pride of place in our market-leading **Ultrafine** product portfolio. Its performance in Table L1 of BSPB Turfgrass Seed 2024 as a new cultivar, is nothing short of staggering.

Unprecedented scores of 9.0 for both visual merit and shoot density, allied to extremely fast growth (which actually lowers its Mean score) promises a cultivar that is finer-leaved, denser, better looking and more wear tolerant than the #1-ranked variety *Barolympic*!

Like *Barolympic*, it is exceptionally pale (the two varieties are #1 & #2 for paleness), which helps it blend visually with grasses such as red fescue and *Poa annua*.

### BARNOUSTIE

A cultivar of slender creeping red fescue bearing the name of the legendary Angus links (host to eight Open Championships) needs to be a bit special – and *Barnoustie* is certainly that. Ranked #2 in Table G3 of BSPB Turfgrass Seed 2024 and provisionally #1 in Table L4 (as a New Cultivar), its performance will force the retirement of the legendary *Barcrown* in the next couple of years.

Mid-green colour, top-ranked visual merit and high disease tolerance are the hallmarks of this debutant. It features in **Fescue** for 2024.



### BARQUESS

2024 sees the launch of not one but two new slender creeping red fescues. *Barquess* is ranked #1 in Table L4 and provisionally #3 (as a New Cultivar) for close-mown turf (Table G3). Its visual merit score for lawns is 0.7 ahead of the next best variety on the main list.

*Barquess* is pale in colour. Trials in Scotland have indicated that it has very high growth potential early in the season for its species, which points to significant benefits in an overseeding programme. Like *Barnoustie*, it features in **Fescue** for 2024, taking this market-leading mixture to another level of performance. It is also included in **SGT Fine Fescue**.



# Disease Tolerance in Winter Sport: Elite Defence

Disease tolerance of mixtures and cultivars is an ever-increasing focus of breeding and R&D programmes. Climate change is rapidly impacting on turfgrass disease incidence and severity in the UK and Ireland, and simultaneously, chemical prevention of pathogens is becoming increasingly challenging with new legislation.

As a grass breeder, Barenbrug is acutely aware of this, and the responsibility we have to provide products that can offer a potential solution to the problems faced by turf managers. A good example of this is the recent occurrence of Grey Leaf Spot (GLS; *Pyricularia grisea* or *P. oryzae*) in stadium environments in the south of England. GLS only appeared in France a few years ago, and likely due to increasing temperatures and humidity, it now seems that the UK will have to deal with this damaging disease on enclosed perennial ryegrass pitches for the foreseeable future.

Help is at hand though. Barenbrug breeders on a global level have been screening ryegrasses for this pathogen for many years, and have identified several **European-bred, diploid** cultivars that have strong tolerance to a range of *Pyricularia* isolates (the fungus has large variability).

The launch of **Elite Defence** (page 29) in 2024 represents the culmination of a huge R&D effort that promises a product with significantly higher tolerance to GLS, as well as increased protection against *Drechslera* leaf spot and Brown Patch (*Rhizoctonia solani*). Significantly, the product utilises only **European-bred, diploid** cultivars, ensuring minimal compromise on other factors such as wear tolerance and shoot density – traits that have quickly established Elite Sport as the market-leading winter sports seed mix in the UK.

## Grey Leaf Spot Data

Several laboratory and field trials in Europe have resulted in the identification of *Amiata*, *Barprimum* and *Barorlando* as varieties with excellent tolerance to GLS. Figure 1 shows data from one of these trials, with % surviving plants after a GLS inoculation in laboratory conditions. The other cultivars in trial include GLS-tolerant material from USA, as well as other European varieties from Barenbrug's portfolio.

Figure 2 shows an independent turf field trial from Landlab in Italy, after a particularly damaging naturally occurring GLS infection. The potential benefits of *Amiata* and *Barprimum* are clear to see.

Figure 1 - GLS Laboratory Trial Data

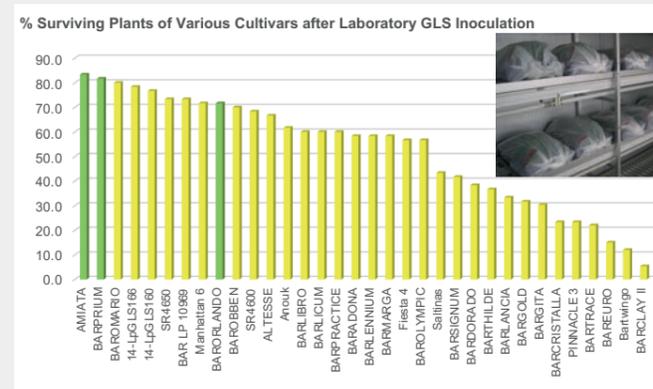


Figure 2 - GLS infection in independent field trials with Landlab (Italy)



Figure 3 - 2016 S1 BSPB/STRI Trial Scores of *Drechslera* Leaf Spot Tolerance

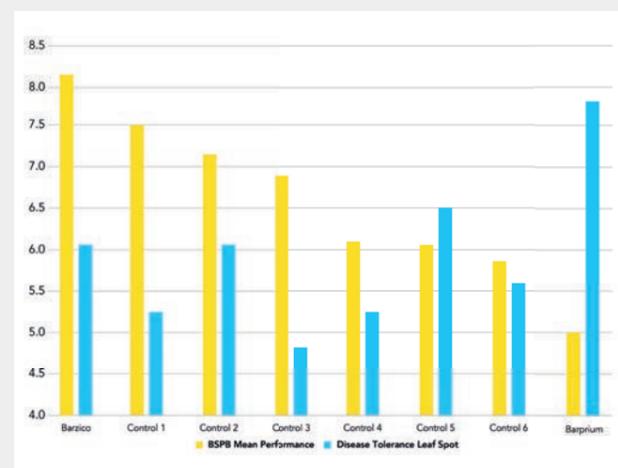


Figure 4 - Comparison of Score Index & *Drechslera* Leaf Spot in Perennial Ryegrasses French Turfgrass List 2023

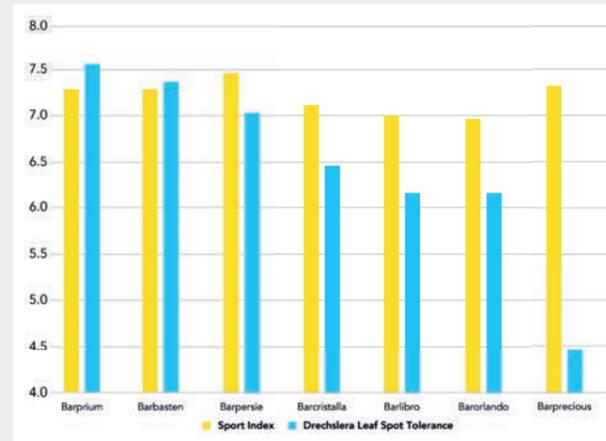


Figure 5 - Brown patch tolerance of Barenbrug cultivars (internal laboratory trials)

Cultivar	Brown Patch Mean Score
Bartrace	7.67
Barprimum	7.50
Barorlando	7.17
Barprecious	7.17
Barbions	7.00
Barlancia	6.83
Bareuro	6.83
Babosa	6.67
Barthierry	6.67
Barlicum	6.50
Barcristalla	6.50
Amiata	6.50
Barbasten	6.50
Barpropel	6.50
Barrobben	6.50
Barlibro	6.33
Barpersie	6.00
Barclay II	5.83
Barolympic	5.17

## *Drechslera* Leaf Spot Data

Figures 3 and 4 represent data on *Drechslera* Leaf Spot from independent turf trials in the UK (BSPB/STRI 2016 S1 trial) and across Europe (GEVES Turfgrass List), respectively. *Barprimum* and *Barbasten* exhibit high tolerance levels to this disease.

## Brown Patch Data

In internal Barenbrug trials, Figure 5 shows a ranking of breeding material against *Rhizoctonia*. *Barprimum* and *Barorlando* offer good protection against this pathogen.

## Conclusion

Disease tolerance is an increasingly important aspect of turfgrass breeding for the UK market. Traits such as wear tolerance will always be desirable in perennial ryegrass for winter sports use, but environmental pressures, particularly in a large stadium begin to tip the balance in favour of other aspects. With technologies such as hybrid pitches, under-soil heating and growth lighting, wear tolerance is already well covered.

The launch of **Elite Defence** is the result of extensive research into variety tolerance against diseases increasingly associated with stadium environments; specifically GLS, *Drechslera* Leaf Spot and Brown Patch. This new product (page 29) promises increased disease protection with excellent genetic colour and wear tolerance.



### Disease Factfiles

Brand new to the range of Barenbrug resources are our disease factfiles. Grass disease is an ongoing problem for many when maintaining golf courses, football/rugby pitches and cricket outfields. The series of factfiles are great tools to learn about different grass disease types, how to reduce risk, identify, and control them. To download your free copies, visit our website.

[barenbrug.co.uk/resources/sport-resources/disease-factfiles](https://barenbrug.co.uk/resources/sport-resources/disease-factfiles)



## “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 pillars 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)

### 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). Both varieties feature in SGT Rye Fairway and SGT Fine Fescue.



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.

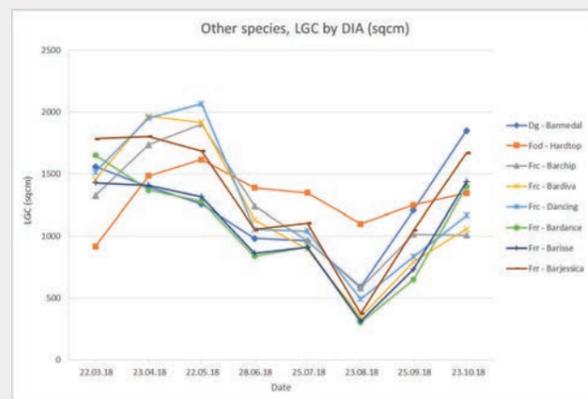


Figure 2 - Graph to show fluctuations in fescue performance (Live Ground Cover assessments) over 9-month period during 2018 in Landlab, Italy. Note the superior performance of *Hardtop* hard fescue and *Barjessica* strong creeping red fescue.

### Nitrogen Efficiency

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

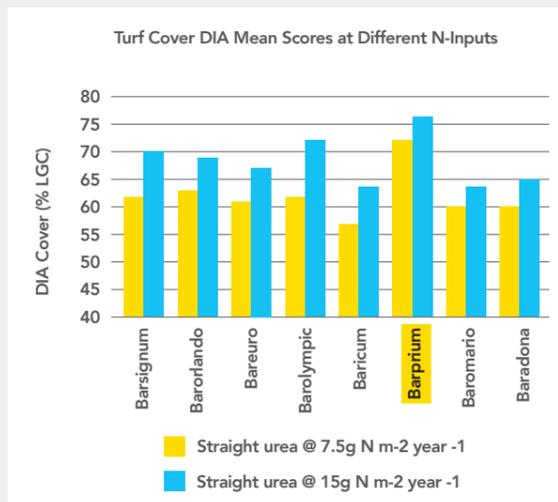


Figure 3 - STRI N-Efficiency Trial Data. *Barprimum* delivers equivalent mean turf cover to all other cultivars at 50% less nitrogen input.

STRI researchers concluded: “The best performing cultivar in this trial was *Barprimum*, with good turf quality and coverage observed at all N levels and N types. Even at very low levels of N, *Barprimum* still showed good quality and coverage.”

*Barprimum* is highly ranked in the BSPB Turfgrass Seed 2024 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, representing the culmination of many years of research and 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 19.  
SGT Rye Fairway see page 19.

## Disease Tolerance

Disease tolerance is an increasingly important focus of Barenbrug’s turfgrass breeding programme for Europe. SGT products contain varieties that have the highest levels of protection against a range of relevant pathogens.

Hard fescue as a species has excellent tolerance to Dollar Spot, which is an increasing concern, particularly on links courses. Figure 4 has data from recent NTEP trials, showing that hard and sheep’s offers higher levels of tolerance on average compared to the red fescue sub-species. Overseeding fairways with SGT Fine Fescue is likely to be a good option to improve fairway performance against Dollar Spot.

cultivars	Dollar Spot Tolerance - All data, all locations 2015-2019 NTEP			
	FRR (Strong)	FRC (Chewings)	FO (hard/sheep's)	FRL (slender)
	6.9	8.2	8	7.4
	6.7	7.9	7.8	6.6
	6.7	7.8	7.7	5.9
	6.6	7.7	7.7	5.6
	6.2	7.6	7.6	
	6.1	7.6	7.5	
	5.8	7.5	7.5	
	5.6	7.4	7.4	
	5.4	7.2	7.4	
	5.2	7.1	7.2	
	5.2	7	7.2	
	5.1	7		
	4.9			
	4.9			
	4.7			
<b>Mean</b>	<b>5.73</b>	<b>7.50</b>	<b>7.55</b>	<b>6.38</b>

Figure 4 - 2015-2019 NTEP fine fescue trials; all data, all locations.

Red Thread is a common turfgrass disease affecting sustainably managed turf areas, such as fairways. SGT mixtures will contain highly ranked cultivars for Red Thread tolerance, such as *Barrissee* (#1-ranked; Table L5) and *Barjessica* (#2-ranked; Table L5) strong creeping red fescue and *Barcrown* (#1-ranked; Table L4) and *Barpearl* (#3-ranked; Table L4).

The designated SGT perennial ryegrass *Barprimum* not only delivers benefits in terms of drought tolerance, nitrogen-use efficiency and lower biomass production, but it also exhibits broad tolerance to a wide range of disease pathogens including *Drechslera* leaf spot, GLS and *Rhizoctonia*.



### Disease Factfiles

To find out more and download your free copies, visit our website: [barenbrug.co.uk/resources/sport-resources/disease-factfiles](http://barenbrug.co.uk/resources/sport-resources/disease-factfiles)

# 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 2024 BSPB G4 table of Turfgrass Seed, *Barolympic* is by far the standout perennial ryegrass variety for high quality, close mown turf.

*Barpersie* is a new cultivar to Ultrafine products for 2024, with an enticing combination of wear tolerance, shoot density, visual merit, and leaf fineness. As a new cultivar in Table L1 of Turfgrass Seed (still undertaking its second trial), its scores of 9.0 for visual merit and shoot density are provisionally table-topping. Its very low slow regrowth score backs up its proven performance under wear (ranked #6 on table S1) – this variety should build on **Ultrafine 100**'s undoubted reputation as **THE** outstanding summer sports ryegrass blend.

### Ultrafine products available include:

- Ultrafine 30 - A 30% perennial ryegrass blend see page 20.
- Ultrafine 60 - A 60% perennial ryegrass blend see page 20.
- Ultrafine 100 - A 100% perennial ryegrass see page 21.



## 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.

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.

### 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 (see Fig. 1).



Figure 1

### Products available with SOS technology:

- SOS for Football & Rugby see page 31.
- SOS for Racecourses see page 43.



## 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 a 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 23.
- RPR Sport see page 30.
- RPR Sprint see page 43.

# 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.



INTRODUCTION

TECHNOLOGY GROUPS

GOLF

FOOTBALL & RUGBY

CRICKET & TENNIS

RACING & EQUESTRIAN

TECHNICAL & SUPPORT

# All Bent

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

- Balanced blend of four browntop bentgrass cultivars
- Charles* ranked #1 available browntop
- BarKing* has particularly strong *Microdochium* (Fusarium) tolerance
- 100% Browntop bentgrass delivers superior performance in shade



### Usage

Designed for overseeding golf and bowling greens.

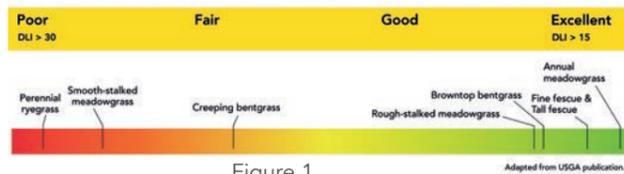
### Features & Benefits

*Charles* is the top-ranked available browntop bentgrass. 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. *Manor* and *Sefton* are long-established well-ranked and reliable varieties.

Recent data from the USGA suggests browntop bentgrass is superior to creeping bentgrass in performance under low light or shade conditions (see Fig. 1). This correlates with 7-8 weeks of additional optimal light conditions for browntop in the UK, compared to creeping bentgrass.

Relative Shade Tolerance of Common Turfgrasses



- Greens
- Tees
- Fairways
- Walkways
- Rroughs

### How to use it

Sowing rate: 8-10g/m<sup>2</sup> | Oversowing rate: 4-6g/m<sup>2</sup> | Sowing depth: rootzone contact | Mowing height: down to 3mm

In the bag		Bag size 20kg
32.5%	<i>Charles</i>	Browntop bentgrass
32.5%	<i>Sefton</i>	Browntop bentgrass
17.5%	<i>BarKing</i>	Browntop bentgrass
17.5%	<i>Manor</i>	Browntop bentgrass

Find out more at [barenbrug.co.uk/all-bent](http://barenbrug.co.uk/all-bent)

# 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 *Viktorka*, combined with the top-rated available browntop bentgrass on the market, *Charles*, with a mean score of 7.6 in Table G1 of Turfgrass Seed 2024, 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
- Rroughs

### How to use it

Sowing rate: 20-30g/m<sup>2</sup> | Oversowing rate: 10-20g/m<sup>2</sup> | Sowing depth: rootzone contact | Mowing height: down to 4mm

In the bag		Bag size 20kg
20%	<i>Barcrown</i>	Slender creeping red fescue
20%	<i>Viktorka</i>	Slender creeping red fescue
20%	<i>Barlineus</i>	Chewings red fescue
20%	<i>Bodega</i>	Chewings red fescue
10%	<i>BarKing</i>	Browntop bentgrass
10%	<i>Charles</i>	Browntop bentgrass

Find out more at [barenbrug.co.uk/classic-80-20](http://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 & 40% Chewings red fescue
- Features three new top-rated cultivars in 2024
- Ideal for free-draining, sandy links greens
- Superb all-round disease tolerance, particularly Dollar Spot and *Microdochium*

### Usage

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

### Features & Benefits

The market-leading and top-performing Fescue blend for overseeding and construction of free-draining fine turf.

The 2024 mixture contains five cultivars, three of which are new to the market – *Barnoustie*, *Barquess*, and *Dancing*.

*Barnoustie* and *Barquess*, with BSPB mean scores in excess of 8 promise new levels of quality for slender creeping red fescue, and *Dancing* enters the Chewings table ranked #3. Aply supported by #2-ranked *Barlineus* and the old favourite *Barcrown* (still ranked #5), this mix has an unparalleled total mean score of 7.88.

*Barquess*, with its pale green colour offers particularly fast early season growth for a slender and *Barcrown's* very high degree of Dollar Spot tolerance is also worth noting.



- Greens
- Tees
- Fairways
- Walkways
- Rroughs

### How to use it

Sowing rate: 25-35g/m<sup>2</sup> | Oversowing rate: 15-25g/m<sup>2</sup> | Sowing depth: 8-12mm below thatch | Mowing height: down to 4mm

In the bag		Bag size 20kg
30%	<i>Barquess</i>	Slender creeping red fescue
25%	<i>Barlineus</i>	Chewings red fescue
20%	<i>Barcrown</i>	Slender creeping red fescue
15%	<i>Dancing</i>	Chewings red fescue
10%	<i>Barnoustie</i>	Slender creeping red fescue

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

# Fairway

A balanced blend of red fescue sub-species designed for free-draining and coastal areas.

- 100% red fescue mix shines on heaths and links courses, resisting drought conditions
- Also recommended for inland sites looking to reduce worm casting on fairways
- High quality cultivars with excellent disease resistance



### Usage

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

### Features & benefits

FAIRWAY is a traditional blend of the red fescue sub-species; slender creeping, strong creeping and Chewings.

The red fescue cultivars in the mix are all excellent performers and are all top-15 ranked in the lawn tables of BSPB Turfgrass Seed 2024 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  Walkways  Roughs

### How to use it

Sowing rate 25-35g/m<sup>2</sup>
 Oversowing rate 15-25g/m<sup>2</sup>
 Sowing depth 8-12mm below thatch
 Mowing height down to 7mm

In the bag	Bag size 20kg
45% <b>Barris</b>	Strong creeping red fescue
25% <b>Viktorka</b>	Slender creeping red fescue
20% <b>Barpearl</b>	Slender creeping red fescue
10% <b>Bodega</b>	Chewings red fescue

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

# Open Rough

A specialist blend of grass species designed to create a visually attractive and wispy rough.

- Early flowering seed heads to give definition in areas of outer and fringing rough
- Produces an attractive open, wispy sward to improve playability
- Option to add in additional specialist grasses to create a bespoke mix



### Usage

Establishing areas of outer rough that are either left uncut or mown infrequently.

### Features & benefits

New for 2024. The choice of grasses for outer roughs can make a huge difference to the visual appearance and playability of a golf course, not to mention serving a habitat for wildlife. OPEN ROUGH has been designed to produce an attractive, open textured sward that is visually appealing whilst at the same time being playable.

The use of slower growing grass species combined with the reduced sowing rate creates a rough that, subject to soil fertility, will not develop into a dense rough that 'swallows' golf balls.

Crested dogstail and hard fescue are both early flowering species. This means that they will produce a seed head earlier in the year, giving excellent definition and aesthetics.

Optional additional species – Sweet Vernal, Small Leaf Timothy, Yellow Oatgrass, Quaking Grass, Wavy Hairgrass, Tufted Hairgrass. Please enquire with your Barenbrug distributor or representative for further details on bespoke options.

- Greens  Tees  Fairways  Roughs

### How to use it

Sowing rate 10-15g/m<sup>2</sup>
 Oversowing rate 10-15g/m<sup>2</sup>
 Sowing depth 8-12mm below thatch
 Mowing height seasonal cutting

In the bag	Bag size 20kg
35% <b>Hard fescue</b>	
35% <b>Slender creeping red fescue</b>	
27.5% <b>Crested dogstail</b>	
2.5% <b>Browntop bent</b>	

Find out more at [barenbrug.co.uk/open-rough](http://barenbrug.co.uk/open-rough)

# 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 Turfgrass Seed 2024 booklet Table G3

### Usage

Overseeding and construction of free-draining 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-12 ranked varieties in Turfgrass Seed G3: *Barcrown*, *Viktorka* and *Barpearl*.

Providing a superior salt tolerance for fescue dominant turf 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.

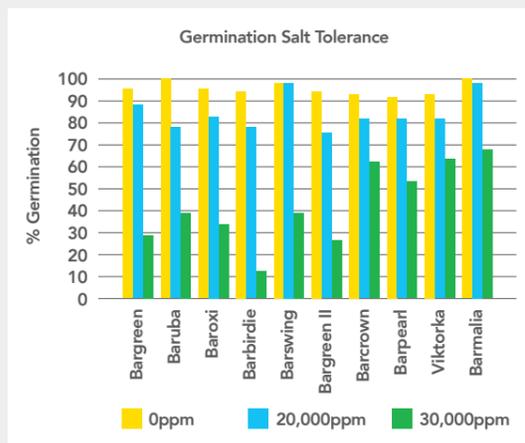


Figure 1 - Graph showing Barenbrug laboratory, testing germination of Slender creeping red fescue and Chewings fescues with different levels of sea water parts per million (ppm).



Testing on established grass plants has been carried out in two distinct environments; in a glasshouse grown in rootzone (Fig. 1) 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/m<sup>2</sup>
 Oversowing rate 20-30g/m<sup>2</sup>
 Sowing depth 8-12mm below thatch
 Mowing height down to 4mm

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

Find out more at [barenbrug.co.uk/shoreline](http://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 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 pillars 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**, *Barprimum* offers proven capacity for nitrogen-use efficiency, requiring up to 50% less nitrogen. In an 18 month STRI trial (shown in Fig. 2), results demonstrate nitrogen efficiency from a number of cultivars against live ground cover. *Barprimum* delivers the highest mean turf cover compared 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 *Barprimum*, with good turf quality and coverage observed at all N levels and N types. Even at very low levels of N, *Barprimum* still showed good quality and coverage.”

*Barprimum* is highly ranked in the BSPB Turfgrass Seed 2024 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). Both varieties feature in **SGT Rye Fairway** and **SGT Fine Fescue**.



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.

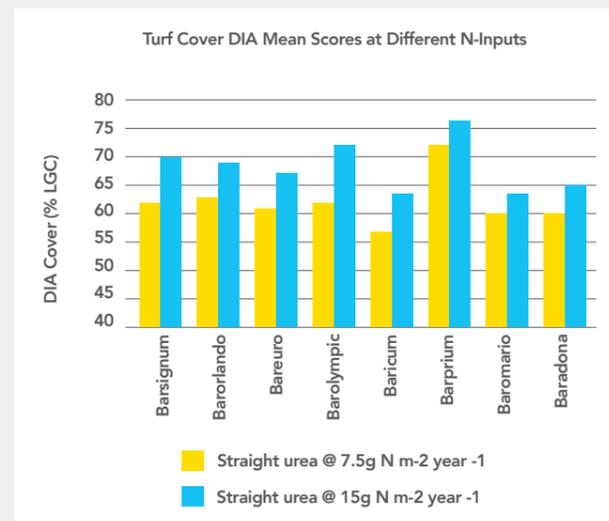


Figure 2 - STRI N-Efficiency Trial Data. *Barprimum* delivers equivalent mean turf cover to all other cultivars at 50% less nitrogen input.

# SGT Fine Fescue

100% 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 increased Dollar Spot tolerance and a potential reduction in insect damage.

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 2024 mix now includes the new #1-rated slender creeping red fescue *Barquess* for added turf quality and density, and old favourite *Barcrown*, the #1-ranked fine fescue cultivar for Red Thread tolerance.

- Greens
- Tees
- Fairways
- Walkways
- Roughs

### How to use it

Sowing rate 25-35g/m <sup>2</sup>	Oversowing rate 15-25g/m <sup>2</sup>	Sowing depth 5-10mm below thatch	Mowing height down to 7mm

In the bag	Bag size 20kg
50% <b>Hardtop</b>	Hard fescue
20% <b>Barcrown</b>	Slender creeping red fescue
15% <b>Barquess</b>	Slender creeping red fescue
15% <b>Barjessica</b>	Strong creeping red fescue

Find out more at [barenbrug.co.uk/sgt-fine-fescue](http://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
- *Barprimum* for fine-leaf 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

The “driver” of the mixture is *Barprimum* 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.

*Barprimum* 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

Sowing rate 25-35g/m <sup>2</sup>	Oversowing rate 10-25g/m <sup>2</sup>	Sowing depth 5-10mm below thatch	Mowing height down to 10mm

In the bag	Bag size 20kg
30% <b>Barprimum</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](http://barenbrug.co.uk/sgt-rye-fairway)

# Ultrafine 30

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

- Contains 30% *Barolympic* which has an outstanding mean score of 8.6 for close-mown turf
- Excellent combination of three red fescue varieties



### Usage

Overseeding and construction of fine turf with moderate wear.

### Features & benefits

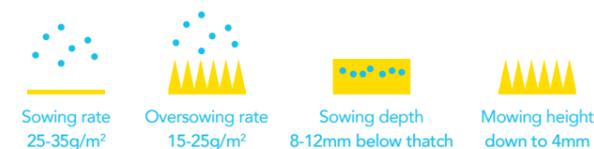
*Barolympic* is the market-leading cultivar ryegrass for summer sports use. It is ranked with a score of 8.6 in Table G4 of Turfgrass Seed 2024, the highest mean score in the entire publication, and comfortably above the next best variety in this close-mown test.

*Barolympic* is ranked #1 for pale colour and for fineness of leaf in Table G4. 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, #10 and #12 in their respective tables in Turfgrass Seed, and help to maintain outstanding aesthetics and density.

- Greens
- Tees
- Fairways
- Walkways
- Roughs

### How to use it



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

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

# Ultrafine 60

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

- 60% ultrafine perennial ryegrasses combined with 40% fine red fescues
- *Barolympic* is the stand-out cultivar ryegrass for summer sports use
- *Barpersie* offers new and improved performance



### Usage

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

### Features & benefits

*Barpersie* is a new cultivar to **Ultrafine** products for 2024, with an enticing combination of wear tolerance, shoot density, visual merit, and leaf fineness. As a new cultivar in Table L1 of Turfgrass Seed (still undertaking its second trial), its scores of 9.0 for visual merit and shoot density are provisionally table-topping.

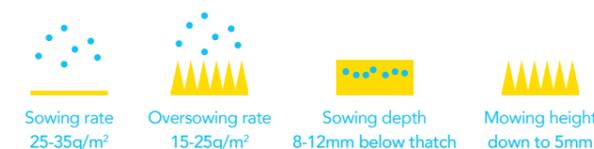
*Barolympic* is the market-leading cultivar ryegrass for summer sports use. It is ranked with a score of 8.6 in Table G4 of Turfgrass Seed 2024, the highest mean score in the entire publication, and comfortably above the next best variety in this close-mown test.

*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.

The remainder of the product is made up of highly ranked varieties of slender creeping red fescue, *Viktorka* and *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
20% <i>Barolympic</i>	Perennial ryegrass
20% <i>Barprrium</i>	Perennial ryegrass
20% <i>Barpersie</i>	Perennial ryegrass
20% <i>Barpearl</i>	Slender creeping red fescue
20% <i>Viktorka</i>	Slender creeping red fescue

Find out more at [barenbrug.co.uk/ultrafine-60](http://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
- *Barolympic* is the stand-out cultivar ryegrass for summer sports use
- *Barpersie* offers new and improved performance

### Usage

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

### Features & Benefits

*Barpersie* is a new cultivar to **Ultrafine** products for 2024, with an enticing combination of wear tolerance, shoot density, visual merit, and leaf fineness. As a new cultivar in Table L1 of Turfgrass Seed (still undertaking its second trial), its scores of 9.0 for visual merit and shoot density are provisionally table-topping. Its very low slow regrowth score backs up its proven performance under wear (ranked #6 on table S1) – this variety should build on ULTRAFINE 100's undoubted reputation as **THE** outstanding summer sports ryegrass blend.

*Barolympic* is the market-leading cultivar ryegrass for summer sports use. It is ranked with a score of 8.6 in Table G4 of Turfgrass Seed 2024, the highest mean score in the entire publication, and comfortably above the next best variety in this close-mown test.

*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.



*Barzico* brings further wear tolerance to the blend (ranked #1 in Table S1). With fineness of leaf scores of 7.1 in S1 and L1, it can more than hold its own under close mowing regimes, as proven in cricket trials at Loughborough University.

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

# Ultrafine

- Greens
- Tees
- Fairways
- Walkways
- Roughs

### How to use it



In the bag	Bag size 20kg
35% <i>Barpersie</i>	Perennial ryegrass
30% <i>Barolympic</i>	Perennial ryegrass
20% <i>Barzico</i>	Perennial ryegrass
15% <i>Barprrium</i>	Perennial ryegrass

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



# 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 2024. Of particular note for fairway applications is their outstanding Red Thread tolerance, with *Barrisse* #1-rated and *Barpearl* #3.

- Greens
- Tees
- Fairways
- Walkways
- Roughs

### How to use it

Sowing rate: 25-35g/m<sup>2</sup>  
 Oversowing rate: 10-25g/m<sup>2</sup>  
 Sowing depth: 5-10mm below thatch  
 Mowing height: down to 10mm

In the bag	Bag size 20kg
50% <i>Barcristalla</i>	Perennial ryegrass
25% <i>Barrisse</i>	Strong creeping red fescue
25% <i>Barpearl</i>	Slender creeping red fescue

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

# 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. Producing a medium-fine turf for intensive wear and good tolerance of close-mowing regimes.

### Features & benefits

All four Barenbrug bred cultivars bring advantages and different characteristics to this product.

*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 in BSPB Turfgrass Seed 2024. It was #1-ranked in a recent Barenbrug cricket trial at Loughborough University (see picture on page 36).

*Baradona* offers outstanding all-round wear tolerance, shoot density, and aesthetics. With a mean score 7.4 in Tables S1 and L1 of Turfgrass Seed 2024, it is one of the few varieties to hold top-25 rankings in both lists.

*Barsignum* is an exceptional ryegrass for summer sports use. It is ranked very highly in both G4 and L1 tables of BSPB Turfgrass Seed 2024.

*Baromario* is another strong all-rounder with high mean scores in 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

Sowing rate: 25-50g/m<sup>2</sup>  
 Oversowing rate: 20-30g/m<sup>2</sup>  
 Sowing depth: 10-15mm below thatch  
 Mowing height: down to 5mm

In the bag	Bag size 20kg
35% <i>Barzico</i>	Perennial ryegrass
30% <i>Baromario</i>	Perennial ryegrass
25% <i>Baradona</i>	Perennial ryegrass
10% <i>Barsignum</i>	Perennial ryegrass

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

*Barprimum* is an exceptional ryegrass for summer sports use. It is ranked very highly in both G4 and L1 tables of BSPB Turfgrass Seed 2024.

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

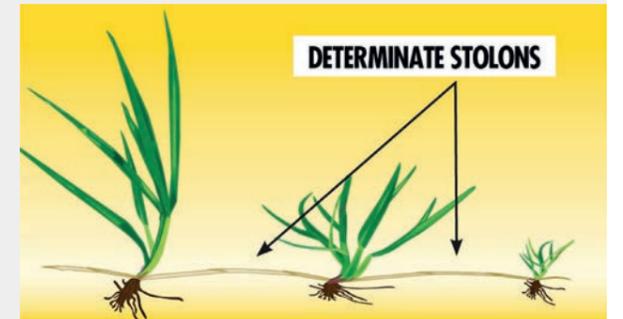


Figure 1 - Schematic diagram of determinate stolons in RPR.

Visit page 11 for further details on RPR innovation and research.

- Greens
- Tees
- Fairways
- Walkways
- Roughs

### How to use it

Sowing rate: 25-50g/m<sup>2</sup>  
 Oversowing rate: 20-30g/m<sup>2</sup>  
 Sowing depth: 10-15mm below thatch  
 Mowing height: down to 12mm

In the bag	Bag size 20kg
50% <i>Barlibro</i>	RPR Perennial ryegrass
30% <i>Barcristalla</i>	Perennial ryegrass
20% <i>Barprimum</i>	Perennial ryegrass

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

***“Our ongoing supplier agreement with Barenbrug for grass seed is valued. We always strive for the best, and the quality of product and support we receive is second to none in my opinion.”***

**Endurance is the defining quality of the Old Course, and often of its players. Nearly 500 years on, it welcomes 50,000 rounds annually, together with a constant stream of caddies, and (literally) every man and his dog walking over the public ground on a normal Sunday.**

Tournament golf is never far away from the Old Course either. Host to the Open Championship for the 30th time in 2022, the Walker Cup matches for the ninth time in 2023 (100 years on from their second playing), the Old Course will welcome the best female golfers in the world for the Women's Open for the third time in 2024.

The hallowed turf may feel as if it has been there forever but is under a regime of constant maintenance and inevitable replacement, by means of divot fill and overseeding. For almost thirty years, St Andrews Links Trust has used Barenbrug grass seed for this essential work.

Today, products such as Fescue, SGT Fine Fescue, and Ultrafine products are key to keeping the Old Course in excellent year-round condition. In addition to the Old Course, St Andrews Links Trust manages the New, Jubilee, Eden, Strathtyrum and Balgove courses as well as the Castle Course, sown out with Barenbrug seed and opened in 2008.

Sandy Reid, Director of Greenkeeping, commented, “Our ongoing supplier agreement with Barenbrug for grass seed is valued. We always strive for the best, and the quality of product and support we receive is second to none in my opinion.”

# 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 for winter sports pitches, including *Barzico*, *Altivo* and *Barbasten* - the #1, #2 and #3 ranked Perennial Ryegrass cultivars from the BSPB/STRI Turfgrass Seed 2024 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 7.82
- The only mixture on the market containing any of the top 3-ranked varieties *Barzico* #1, *Altivo* #2, and *Barbasten* #3
- Four Barenbrug-bred varieties with strong all-round disease tolerance
- *Barcristalla* has darker genetic colour for a rich green appearance





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 tolerance. 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 2024 to include the top three varieties in BSPB Table S1 Turfgrass Seed 2024, including the new *Altivo* for the first time.

*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.

*Altivo*, ranked #2 and brand new for 2024, is an exciting new addition with a broad range of beneficial traits. Early spring growth and high recovery are of particular note.

*Barbasten* is ranked #3. It is a true winter sports cultivar from Holland, coarser in the leaf, paler green and exceptionally active in winter/spring recovery. *Barbasten* brings additional *Drechslera* leaf spot tolerance to the product.

The unparalleled wear tolerance of the top three varieties is balanced with the French, early-heading *Barcristalla*, which delivers additional disease tolerance and deep green genetic colour. This cements 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 characteristics. 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 Turfgrass Seed 2024 booklet Table S1 for sports pitch wear simulation. All four cultivars are highly ranked, including the #1, #2, and #3 - ranked varieties, which means ELITE SPORT comfortably has the UK's highest 'mixture score' of 7.82.

## Camera-friendly colour

*Barcristalla* is a key variety in ELITE SPORT, with a much darker genetic colour than other top varieties.

## How to use it



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



Oversowing rate  
15-30g/m<sup>2</sup>



Sowing depth  
10-15mm below thatch



Mowing height  
down to 18mm

In the bag	Bag size 20kg
30% <b>Barzico</b>	Perennial ryegrass
25% <b>Barbasten</b>	Perennial ryegrass
25% <b>Barcristalla</b>	Perennial ryegrass
20% <b>Altivo</b>	Perennial ryegrass

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

# Elite Defence

An innovative and new to market winter sports grass seed product, designed to deliver disease tolerance without compromise in performance, specifically for the needs and environments of premier sport stadiums.

- Proven high disease tolerance to Grey Leaf Spot (GLS) – *Amiata*, *Barprimum* and *Barorlando*
- Increased tolerance to *Drechslera* Leaf Spot and Brown Patch *Rhizoctonia*
- High performance and wear tolerance with top-ranked varieties *Barzico* #1 and *Barbasten* #3 BSPB Turfgrass Seed
- All European-bred Barenbrug diploid varieties for superior UK winter performance
- *Amiata*, *Barprimum* and *Barorlando* have darker genetic colour for a rich green appearance, desirable on fully renovated stadium pitches



## Usage

New for 2024, ELITE DEFENCE is formulated for the specific needs of elite winter sport stadiums, delivering exceptional and proven disease tolerance against Grey Leaf Spot (GLS), *Drechslera* Leaf Spot and Brown Patch *Rhizoctonia* without compromise in wear tolerance and overall performance.

## Disease tolerance

More detailed information is given on page 6.

## Grey Leaf Spot (GLS)

As part of a major variety screening programme undertaken in Europe by Barenbrug breeders, *Amiata*, *Barprimum* and *Barorlando* have been identified as being highly tolerant to the damaging disease Grey Leaf Spot (GLS), caused by *Pyricularia grisea* or *P. oryzae* (see Fig. 1). These three varieties are all bred by Barenbrug in France and are wear-tolerant diploid cultivars.

## Drechslera Leaf Spot

*Drechslera* Leaf Spot is a very common disease affecting stadium pitches in winter, proliferating in cool, damp and shaded conditions. Independent trials, including BSPB in UK and GEVES across several European countries, have highlighted *Barprimum* and *Barbasten* as being particularly tolerant against this pathogen. Data is provided on page 7.

## Rhizoctonia Brown Patch

A less common disease issue in the UK, Brown Patch can be a problem during a hot and humid renovation period. Internal Barenbrug trials have shown *Barprimum* and *Barorlando* will offer good protection against this disease.

## Top performing varieties

Disease tolerance is only one aspect of ELITE DEFENCE. Crucially, the performance and wear tolerance of the five varieties in UK winter sports conditions is also very strong. Central to this is the utilisation of only European-bred diploid cultivars, which offer far better wear tolerance than tetraploid or American-bred grasses.

*Barzico* holds the coveted #1 position in BSPB Turfgrass Seed Table S1, trialled under winter sports wear simulation at 25mm height of cut. *Barbasten* is ranked #3 in the same trials. Both varieties are bred in Holland and have later

heading characteristics, which make them exceptionally active in winter/spring recovery.

*Barorlando* is itself a former #1 in BSPB trials, and performs very well in wear trials across Europe. *Amiata* and *Barprimum* have both been trialled in the UK. Although *Barprimum* performs less well in Bingley, it topped internal Barenbrug trials at Cropvle in Worcestershire. *Amiata* returned above average scores in UK trials. *Barorlando*, *Amiata* and *Barprimum* originate in France, and are generally earlier in their heading dates. Five varieties, with diverse genetic backgrounds, provides excellent mixture synergy overall.

## Camera-friendly colour

Another significant benefit of ELITE DEFENCE over other market options is a strong mid-green genetic colour. *Barorlando*, *Amiata* and *Barprimum* all offer benefits on this front, with impressive colour scores of 7.2, 6.3, and 7.0, respectively in BSPB S1 trials. Combined with their disease tolerance, this promises excellent visual aesthetics throughout the season for TV cameras.



Figure 1

## How to use it



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



Oversowing rate  
15-30g/m<sup>2</sup>



Sowing depth  
10-15mm below thatch



Mowing height  
down to 18mm

In the bag	Bag size 20kg
20% <b>Barzico</b>	Perennial ryegrass
20% <b>Barbasten</b>	Perennial ryegrass
20% <b>Barprimum</b>	Perennial ryegrass
20% <b>Amiata</b>	Perennial ryegrass
20% <b>Barorlando</b>	Perennial ryegrass

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

# 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

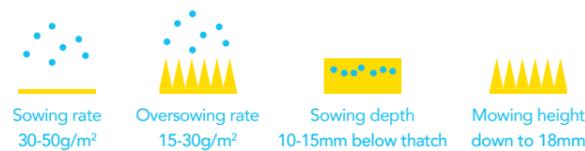
Wear is inevitable, and for some that means a complete annual renovation, but if that is not possible or undesirable, RPR SPORT can help. Its unique blend of regenerating perennial ryegrasses copes with high use to maintain the playing surface throughout the year.

### 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 *Barorlando*, which add a stronger genetic green colour with proven wear tolerance.

Visit page 11 for further details on RPR innovation and research.

### How to use it



In the bag	Bag size 20kg
50% <b>Barlibro</b>	RPR Perennial ryegrass
25% <b>Barcristalla</b>	Perennial ryegrass
25% <b>Barorlando</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 #3-ranked ryegrass for sports pitches
- 100% Barenbrug-bred cultivars from our European breeding programmes
- Excellent speed of establishment and recovery from winter wear
- Utilises cultivars that perform well in both S1 (Sport: 25mm with wear) and L1 (Lawn: 10-15mm) BSPB trials



All-round sport use

### Usage

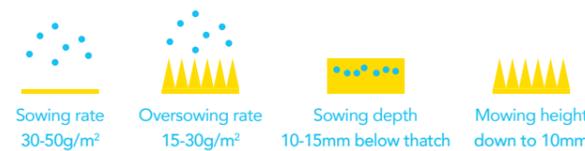
The ultimate all-rounder, ideally suited for multi-use sports pitches such as winter sports pitches that are then used through the summer, sport fields, grounds and pitches.

### Features & benefits

The highlight of this blend is *Barbasten*, rated #3 in BSPB Turfgrass Seed for winter sports pitches under wear. Its proven performance as a hard-wearing ryegrass gives you the confidence that your pitches will be sustained throughout the season. Cultivars like *Barbasten* and *Baromario* are selected for excellent performance on both BSPB Turfgrass Seed 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.

*Barorlando* 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 this blend a deep green colour.

### How to use it



In the bag	Bag size 20kg
35% <b>Barorlando</b>	Perennial ryegrass
30% <b>Barcristalla</b>	Perennial ryegrass
20% <b>Baromario</b>	Perennial ryegrass
15% <b>Barbasten</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



### 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 Turfgrass Seed 2024 booklet Table S2.

*Barzico* and *Barbasten* are elite quality perennial ryegrasses, being ranked #1 and #3 respectively in Turfgrass Seed 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



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



Overseeding

### Usage

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

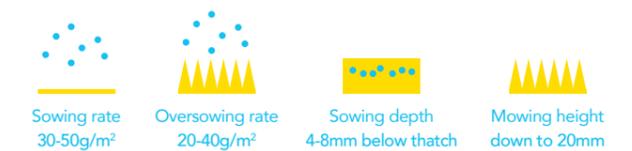
### Features & benefits

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

*Barbasten* and *Barcristalla* provide a longer-term solution with good performance characteristics. *Barbasten* is a particularly wear tolerant variety (ranked #3 on Table S1 Turfgrass Seed) and *Barcristalla* complements the blend well with a darker winter colour.

Visit page 10 for further information on SOS

### How to use it



In the bag	Bag size 20kg
50% <b>Barterra</b>	Annual ryegrass
25% <b>Barbasten</b>	Perennial ryegrass
25% <b>Barcristalla</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 more than forty years old and in need of reconstruction. In 2023 a full pitch overhaul including a hybrid stitched pitch was installed," he explains, "creating a better free draining pitch but also raising the expectations of a top quality playing surface."

***"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 Barenbrug-bred 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 *Barolympic*, *Barpersie* and *Barzico*, three stand-out varieties in the BSPB/STRI Turfgrass Seed 2024 booklet that underpin our grass products for summer sports.

# 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 – ideally suited to all levels of cricket squares.

- 100% perennial ryegrass for use in multi-purpose sport areas
- 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 outfield, when overseeding, divoting and constructing. Producing a medium-fine turf for intensive wear and good tolerance of close-mowing regimes.

## Features and benefits

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

All four Barenbrug bred cultivars bring advantages and different characteristics to this product.

*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 in BSPB Turfgrass Seed 2024. It was #1-ranked in a recent Barenbrug cricket trial at Loughborough University (see picture below).

*Baradona* offers outstanding all-round wear tolerance, shoot density, and aesthetics. With a mean score 7.4 in Tables S1 and L1 of Turfgrass Seed 2024, it is one of the few varieties to hold top-25 rankings in both lists.

*Barsignum* is an exceptional ryegrass for summer sports use. It is ranked very highly in both G4 and L1 tables of BSPB Turfgrass Seed 2024.

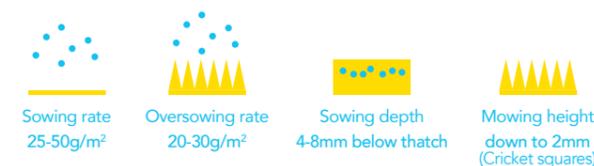
*Baromario* is another strong all-rounder with high mean scores in Tables S1 and L1.

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.



Barenbrug trials run at Loughborough University.

## How to use it



In the bag	Bag size 20kg
35% <b>Barzico</b>	Perennial ryegrass
30% <b>Baromario</b>	Perennial ryegrass
25% <b>Baradona</b>	Perennial ryegrass
10% <b>Barsignum</b>	Perennial ryegrass

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

# Ultrafine 60

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

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



## Usage

Designed for the construction or overseeding of cricket outfield.

## Features and benefits

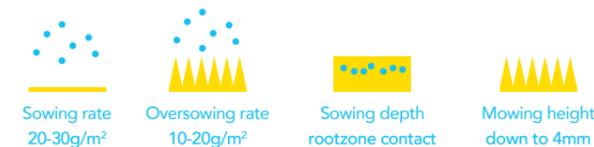
*Barpersie* is a new cultivar to **Ultrafine** products for 2024, with an enticing combination of wear tolerance, shoot density, visual merit, and leaf fineness. As a new cultivar in Table L1 of Turfgrass Seed (still undertaking its second trial), its scores of 9.0 for visual merit and shoot density are provisionally table-topping.

*Barolympic* is the market-leading cultivar ryegrass for summer sports use. It is ranked with a score of 8.6 in Table G4 of Turfgrass Seed 2024, the highest mean score in the entire publication, and comfortably above the next best variety in this close-mown test.

*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.

The remainder of the product is made up of highly ranked varieties of slender creeping red fescue, *Viktorka* and *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
20% <b>Barolympic</b>	Perennial ryegrass
20% <b>Barprrium</b>	Perennial ryegrass
20% <b>Barpersie</b>	Perennial ryegrass
20% <b>Barpearl</b>	Slender creeping red fescue
20% <b>Viktorka</b>	Slender creeping red fescue

Find out more at [barenbrug.co.uk/ultrafine-60](http://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
- *Barolympic* is the stand-out cultivar ryegrass for summer sports use.
- *Barpersie* offers new and improved performance.

## 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

*Barpersie* is a new cultivar to **Ultrafine** products for 2024, with an enticing combination of wear tolerance, shoot density, visual merit, and leaf fineness. As a new cultivar in Table L1 of Turfgrass Seed (still undertaking its second trial), its scores of 9.0 for visual merit and shoot density are provisionally table-topping. Its very low slow regrowth score backs up its proven performance under wear (ranked #6 on table S1) – this variety should build on ULTRAFINE 100's undoubted reputation as **THE** outstanding summer sports ryegrass blend.

*Barolympic* is the market-leading cultivar ryegrass for summer sports use. It is ranked with a score of 8.6 in Table G4 of Turfgrass Seed 2024, the highest mean score in the entire publication, and comfortably above the next best variety in this close-mown test.

*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.

*Barzico* brings further wear tolerance to the blend (ranked #1 in Table S1). With fineness of leaf scores of 7.1 in S1 and L1, it can more than hold its own under close mowing regimes, as proven in cricket trials at Loughborough University.

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

## How to use it



In the bag	Bag size 20kg
35% <b>Barpersie</b>	Perennial ryegrass
30% <b>Barolympic</b>	Perennial ryegrass
20% <b>Barzico</b>	Perennial ryegrass
15% <b>Barprrium</b>	Perennial ryegrass

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

**"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 including 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 Perennial 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 agricultural grass variety, *Galgorm*, a perennial ryegrass, with excellent sward density and persistency. Fast-growing and highly wear tolerant winter sports varieties *Barorlando* and *Bardorado* are also in the blend.

Visit page 11 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.

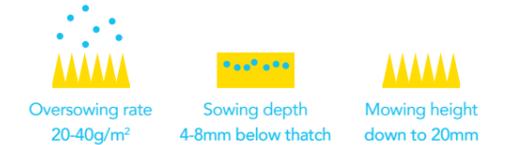
### Features & benefits

The saviour of the winter season, this specially formulated product contains varieties that germinate and establish quickly to resurrect high traffic areas on any racecourse. *Barterra* is an annual ryegrass that will germinate as low as 3.5°, quicker and at lower temperatures than perennial ryegrass, including tetraploid varieties.

*Barbasten* and *Barcristalla* provide a longer-term solution with good performance characteristics. *Barbasten* is a particularly wear tolerant variety (ranked #3 on Table S1 Turfgrass Seed) and *Barcristalla* complements the blend well with a darker winter colour.

Visit page 10 for further details on SOS.

### How to use it



In the bag		Bag size 20kg
50%	<b>Barterra</b>	Annual ryegrass
25%	<b>Barbasten</b>	Perennial ryegrass
25%	<b>Barcristalla</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*



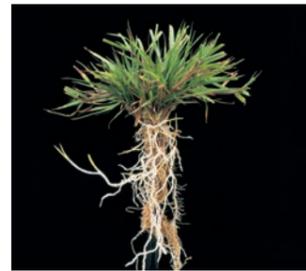
**SLENDER CREEPING RED FESCUE**  
*Festuca rubra litoralis*



**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*



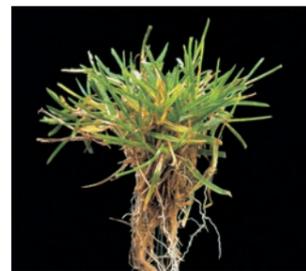
**TALL FESCUE**  
*Festuca arundinacea*



**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
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>

# Our Partners & Approved Distributors



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📞 01183 914 540 ✉ info@advancegrass.com 🌐 advancegrass.com  
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📞 01344 891730 ✉ sales@avoncrop-amenity.com 🌐 avoncrop-amenity.com  
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📍 Drury Square, Herne Lane, Beeston, Norfolk PE32 2NA



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## GROGREEN LTD

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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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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.

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