

# SPORT

2021 PRODUCT GUIDE



 **BARENBRUG**



## Welcome to the Sport Range of grass seed for 2021

As always, years of dedication in breeding, research and development, trialling and production have brought us to this point – having a range of products suited to you and your needs. We trust they will help you to create natural grass surfaces to be enjoyed by the sporting world.

Established in 1983, Barenbrug UK is now recognised as a leading grass seed breeder and grower in the UK. Producing and distributing more than 4,500 tonnes of UK clean, certified, and quality grass seed each year for both amenity and agriculture.

The Barenbrug name has been synonymous with innovative UK grass seed solutions and is raising the standard in the research and breeding of agriculture and amenity grasses in the UK. As part of the wider Barenbrug Group, grass experts since 1904, our research network across the globe and UK trial both amenity and agriculture varieties and mixtures, providing a solid testing ground for our solutions and drawing on knowledge and expertise from across the globe.

Increasingly focused on sustainability, Barenbrug UK is determined to minimise any negative impact on the environment and meet the aims of increasing farming productivity, environment, biodiversity and the enjoyment of green spaces.

With our network of growers, research, distribution, regional technical experts, production, and manufacturing sites across the UK, we are a business firmly rooted in the UK.



### Royal Barenbrug

A world of possibilities – that’s what Joseph Barenbrug pictured when he saw grass. He initiated the development of varieties for different purposes that is still ongoing today. These varieties are suitable for a wide range of climates. Tasty and healthy forages with high nutritional value for cattle; fine leaved and attractive green grass for parks and gardens; slow-growing grass for lawns; strong grass for sports pitches and recreation. If you can imagine it, we can create it!

### Customers first

Helping customers deal with all kinds of challenges was Joseph’s mission. Frank and Bastiaan continue that tradition as the fourth generation. Today, the Barenbrug Group is the leading worldwide creator of turf and forage solutions. A family business to the core. Thanks to Joseph, Joop and Bert we can serve you with 116 years of experience!

### Royal

In 2004, Barenbrug was granted the ‘Royal predicate’, a distinction awarded only to companies with extreme prestige and importance in their field that have existed for more than a hundred years, have sustainable management, and an excellent reputation. We are proud of our royal distinction.



Frank and Bastiaan Barenbrug



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## The Story of Grass

Delivering a new cultivar to the Sport Range is a long and multifaceted process, involving many people and departments of the Royal Barenbrug Group. The "Story of Grass" is a minimum fifteen-year journey and is summarised in Figure 1 below.



Figure 1: Timeline of the Story of Grass. Each box represents one year.

Figure 2: Stages of the grass breeding process: collection, crossing, plant selection and isolation.

## Breeding

The first seven years of the Story of Grass involve traditional plant breeding techniques. For the UK amenity market, breeding stations at Wolfheze (Holland) and Mas Grenier (France) are where the magic happens!

In years 1-3, initial crosses are made, typically between plants of an existing cultivar and plants isolated from the wild or a particular environment of interest.

Years 4-6 involve the laborious selection process of the original cross progeny. 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. After initial selection, individual mown plants will also be looked at, examining basic aspects of turf quality and persistence. This three-year process may whittle down 10,000 plants to as few as only a couple of dozen.

In year 7, the surviving plants are grouped together based on similarities. They are then isolated from others and allowed to cross-pollinate within their 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 individuals that are very similar (but not identical) to one another. Figure 2 shows examples of the grass breeding process.



## Performance testing

In years 8-10, new synthetic lines are tested by the breeding department against other elite lines and existing cultivars from Barenbrug's and competitors' global breeding programmes. This takes place at multiple locations (including our UK research station Cropvale; Figure 3) to ensure reliable results for wide-ranging end-user markets.

For perennial ryegrass, synthetic lines will be tested under simulated wear/traffic and at a low mowing height as two basic stress factors. Breeders will also include a range of other trials or laboratory testing at this stage, for example tolerance to a particular turfgrass disease or sustained drought conditions. Figure 4 shows an example of performance testing.

## Multiplication

Results of performance testing are presented to product development teams in target markets and a decision is taken on which synthetic lines to multiply up to become a cultivar. The multiplication (year 11) is a vital and costly process, forming a "breeder's seed" stock, which will be used as the foundation for commercial production in the future (Figure 5). It is imperative to ensure absolute seed purity at this stage.

## Official trials

In years 12-15 and beyond, cultivars are submitted to official trials across the globe, depending on their target markets. Here in the UK, the BSPB/STRI trials that drive the Turfgrass Seed booklet (Figure 6) deliver reliable, independent data for a variety of important turfgrass traits.

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 of time (typically three years or longer).



Figure 3: Cropvale



Figure 4: Breeding performance trials for drought



Figure 5: Harvesting breeder's seed



Figure 6: BSPB Turfgrass Seed Booklet



## Product Development and R&D

As official trials are progressing, Barenbrug strives to undertake significant product development and R&D on a local level in the global marketplace to ensure that new cultivars are integrated into product lines effectively. Ultimately, this process is the one that delivers improved turfgrass performance to end-users in the field.

Product development encompasses a range of processes, such as mixture synergy trials (the combined performance of species and cultivars) or looking closely at the intraspecific traits that a new cultivar delivers, and how best to match these with end-user requirements in particular markets. Barenbrug aims to take this process far beyond the scope of official trials to deliver customer-driven product solutions in the global market.

The R&D process here in the UK & Ireland involves working with independent organisations such as Sports Turf Research Institute (STRI) and the Irish Sports Turf Institute (ISTI), as well as internal development work at Cropvale. Increasingly, we are looking to work in partnership with end-users across the region to delve even deeper into the market in the search for solution-based products.

A good example of this R&D work is Sustainable Grass Technology (SGT), featured on pages 12 - 13. SGT has brought together development work across Europe at breeding stations, with external partners (STRI and Landlab) and is now expanding further into local work with end-users. In 2020, trials have been initiated with St Andrews Links and Gerrard's Cross Golf Club to scrutinise drought and heat stress in the UK more closely (Figures 7&8).

The St Andrews trial focusses on traditional links grasses for tees and fairways, while Gerrard's Cross will be examining a wide range of species and mixtures to provide data predominantly for the changing climate of southeast England.

2020 also saw further investment in high quality research and development for the UK and Ireland turf market by trialling the performance of new varieties and mixtures for golf greens with the ISTI.

The golf green area for the trial is a newly constructed USGA specification at the ISTI research centre in County Wicklow, Ireland. Establishment of the trial (Figure 9) has been exceptional, and it is hoped that the research will deliver robust data for course managers across Ireland and the UK over the next two years.

## Production

Only the very best cultivars make it through official trials and our extensive R&D process, but when they do, the vital role of seed production teams can commence. First, breeder's seed has to be multiplied to produce pre-basic seed, which then goes on to basic seed after another harvest. Basic seed is supplied to farmers to sow resulting in certified seed production, which is the grade of seed sold to end-users.

At all stages, it is imperative to remove off-types to maintain a cultivar's integral purity. Minimum criteria are required for certified seed and every seed lot will be issued with a seed certificate (figure 10).

## 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.



Figures 7 (above) & 8 (below): Photographs of St Andrews Links and Gerrard's Cross trial sites



Figure 9 (above): Barenbrug golf green trial establishment at ISTI

**Final REPORT on a test of fodder plant seed** Report Date: 24 08 2020

OFFICIAL LICENSED SEED TESTING STATION NO: 0107

DATE RECEIVED: 28/07/2020 Sample Number: 5

TEST REQUIRED: A preliminary indication of germination was satisfactory? (Please tick) Yes  No  N/A

NB For pre-basic and basic state:  %

Species: REDCHEWINGS FESCUE Variety: BARPEARL

Category & Level: Certified HV5 SLRN: 2020/CH00230/0176

Date of purity test	% Pure seed	% Inert matter	% Other seeds	% Solid additives	% Elytrigia spicata	% Alopecurus myosuroides
28/07/2020	99.1	0.9			0.0	0.0
					% Raphanus raphanistrum	% Saaginiv arvensis
						% Melilotus spp

Figure 10: Example of a seed certificate

# Golf



## All Bent Golf greens, bowling greens

ALL BENT is a 100% browntop bentgrass blend designed for overseeding and species exchange in golf and bowling greens.

### Features and Benefits

- Exceptional blend of two browntop bentgrass cultivars for overseeding golf and bowling greens
- Combination of high shoot density and disease tolerance assists in out-competing *Poa annua*
- Charles browntop bentgrass is the stand-out browntop variety for golf greens (ranked #1 in Table G1 BSPB/STRI Turfgrass Seed)
- Charles has higher shoot density, better visual merit and is finer-leaved than any other browntop OR creeping bentgrass variety in BSPB Turfgrass Seed trials
- Charles can sustain very low heights of cut ( $\leq 3\text{mm}$ )
- BarKing has very high *Microdochium* tolerance for turf managers focussed largely on increasing disease resistance in greens
- BarKing exhibits superior winter colour to further improve year-round turf aesthetics of greens



### How To Use It

Sowing rate	8-10g per m <sup>2</sup>
Oversowing rate	4-6g per m <sup>2</sup>
Sowing depth	Rootzone contact
Mowing height	Down to 3mm

### In the bag

65%	<b>BARKING</b>	Browntop bentgrass
35%	<b>CHARLES</b>	Browntop bentgrass

## BarKing

NEW

### Features and Benefits

- BarKing has very high *Microdochium* tolerance for turf managers focussed largely on increasing disease resistance in greens
- BarKing exhibits superior winter colour to further improve year-round turf aesthetics of greens



### How To Use It

Sowing rate	8-10g per m <sup>2</sup>
Oversowing rate	4-6g per m <sup>2</sup>
Sowing depth	Rootzone contact
Mowing height	Down to 3mm
Pack size	10kg

### In the bag

100%	<b>BARKING</b>	Browntop bentgrass
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## Charles

NEW

### Features and Benefits

- Combination of high shoot density and disease tolerance assists in out-competing *Poa annua*
- Charles browntop bentgrass is the stand-out browntop variety for golf greens (ranked #1 in Table G1 BSPB/STRI Turfgrass Seed)
- Charles has higher shoot density, better visual merit and is finer-leaved than any other browntop OR creeping bentgrass variety in BSPB Turfgrass Seed trials
- Charles can sustain very low heights of cut ( $\leq 3\text{mm}$ )



### How To Use It

Sowing rate	8-10g per m <sup>2</sup>
Oversowing rate	4-6g per m <sup>2</sup>
Sowing depth	Rootzone contact
Mowing height	Down to 3mm
Pack size	10kg

### In the bag

100%	<b>CHARLES</b>	Browntop bentgrass
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## Classic 80:20 Golf greens, bowling greens

CLASSIC 80:20 is a traditional mix of fescue and bentgrass designed to deliver a consistent and balanced blend of these species when sowing out new fine-turf areas such as golf and bowling greens.

### Features and Benefits

- Traditional mixture of red fescue and browntop bentgrass cultivars for golf and bowling greens
- 80:20 fescue:bent remains the preferred option in independent trials for seeding out new golf greens in the UK
- Combination of high shoot density and disease tolerance assists in out-competing *Poa annua*
- Charles browntop bentgrass is the stand-out browntop variety for golf greens (ranked #1 in Table G1 BSPB/STRI Turfgrass Seed)
- Contains the #1-rated red fescue variety in BSPB/STRI Turfgrass Seed 2021 (*Barlineus*)



### How To Use It

Sowing rate	20-30g per m <sup>2</sup>
Oversowing rate	10-20g per m <sup>2</sup>
Sowing depth	Rootzone contact
Mowing height	Down to 4mm

### In the bag

40%	<b>VIKTORKA</b>	Slender creeping red fescue
20%	<b>BARLINEUS</b>	Chewings red fescue
20%	<b>RAMONA</b>	Chewings red fescue
10%	<b>BARKING</b>	Browntop bentgrass
10%	<b>CHARLES</b>	Browntop bentgrass

## Fescue Golf greens, tees, fairways, bowling greens

FESCUE is an outstanding blend of four red fescue cultivars for the overseeding and construction of free-draining fine turf.

### Features and Benefits

- Unrivalled mixture of top-rated cultivars of slender creeping and Chewings red fescue
- 50/50 balance of slender creeping and Chewings delivers consistent year-round turf performance (Chewings more active in spring; slenders in autumn)
- Contains #1-rated varieties in BSPB/STRI Turfgrass Seed 2021 of both sub-species (*Barcrown* & *Barlineus*)
- Highest shoot density for competitive edge in overseeding programmes and tolerance to close-mowing
- Outstanding balance of disease tolerance in blend



### How To Use It

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

### In the bag

40%	<b>BARLINEUS</b>	Chewings red fescue
35%	<b>VIKTORKA</b>	Slender creeping red fescue
15%	<b>BARCROWN</b>	Slender creeping red fescue
10%	<b>BODEGA</b>	Chewings red fescue

## Fairway Fairways, tees, roughs

FAIRWAY is an excellent blend of four fine fescue species: hard fescue and the three sub-species of red fescue - slender creeping, strong creeping and Chewings. It is designed for overseeding, divoting and constructing free-draining turf areas on the golf course.

### Features and Benefits

- Balanced and reliable mixture of top-rated cultivars of four fine fescue species
- 100% fescue mix for overseeding, divoting or construction of free-draining tees and fairways, particularly on links or heathland golf courses
- Hard fescue component offers superior drought tolerance
- Outstanding Red Thread disease tolerance (*Barris* ranked #1; *Barpearl* #2)



### How To Use It

Sowing rate	20-35g per m <sup>2</sup>
Oversowing rate	15-25g per m <sup>2</sup>
Sowing depth	8-12mm below thatch
Mowing height	Down to 7mm

### In the bag

40%	<b>BARRISSE</b>	Strong creeping red fescue
30%	<b>BARLINEUS</b>	Chewings red fescue
15%	<b>SERGEI</b>	Strong creeping red fescue
10%	<b>BARPEARL</b>	Slender creeping red fescue
5%	<b>HARDTOP</b>	Hard fescue

## Shoreline Coastal courses

SHORELINE is an innovative blend of slender creeping red fescue cultivars; suitable for turf areas exposed to high salinity.

### Features and Benefits

- Innovative 100% slender creeping red fescue blend
- Increased germination rates and plant survival in saline environments for optimum performance in exposed areas on links golf courses
- *Viktorka* #2-ranked BSPB/STRI Turfgrass Seed for shoot density in close-mown trials
- *Barpearl* and *Viktorka* superior disease tolerance (e.g. ranked #2 and #4 respectively for Red Thread)
- Rhizomatous growth habit for turf recovery

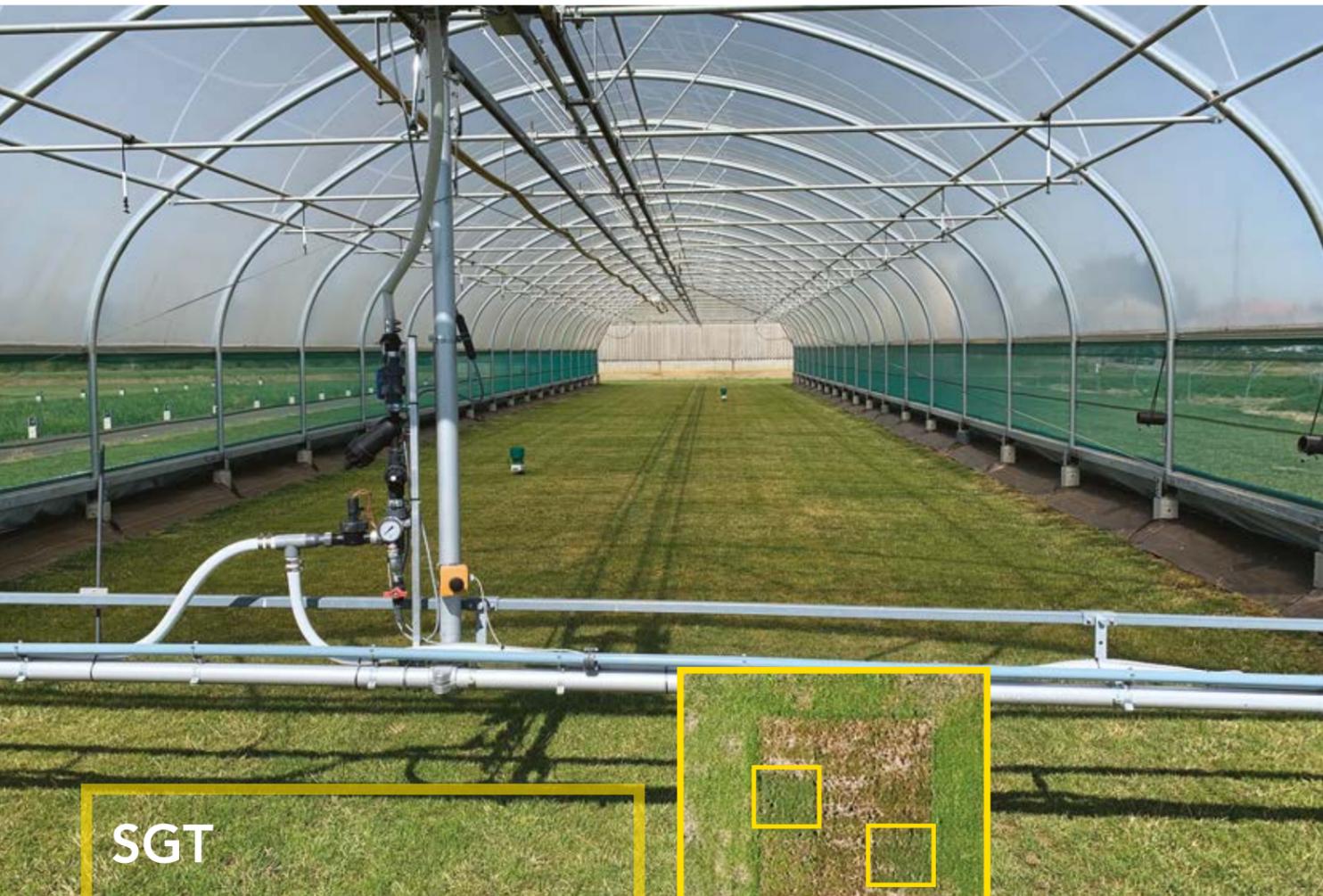


### How To Use It

Sowing rate	35-45g per m <sup>2</sup>
Oversowing rate	20-30g per m <sup>2</sup>
Sowing depth	8-12mm below thatch
Mowing height	Down to 4mm

### In the bag

50%	<b>BARPEARL</b>	Slender creeping red fescue
50%	<b>VIKTORKA</b>	Slender creeping red fescue



## SGT

SGT stands for "Sustainable Grass Technology" – Barenbrug's research-driven concept designed to deliver outstanding turf performance with reduced water, fertiliser and/or chemical inputs.

Products under the SGT banner promise stress tolerant grass for sustainable turf management and are formulated after extensive scientific and independent research.

Drought and heat trials in Italy have confirmed the well-documented evidence to support the adoption of hard fescue in medium-fine turf under severe stress. Figure 1 shows hard fescue outperforming surrounding red fescue cultivars during 2018 summer.

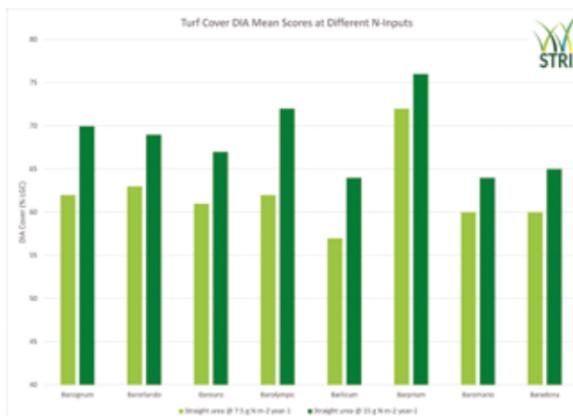
In SGT Rye Fairway, *Barprrium* offers proven capacity for nitrogen-use efficiency. In independent trials with the Sports Turf Research Institute (STRI) at Bingley, it required 50% less nitrogen to deliver equivalent turf performance to other well-ranked perennial ryegrass cultivars. Figure 2 shows the Live Ground Cover (LGC) results of the 18-month trial.

The products opposite, SGT Rye Fairway and SGT Fine Fescue, 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.



Figure 1: Drone image from Landlab, Italy during August 2018. The highlighted plots are all hard fescue.

Figure 2: STRI N-Efficiency Trial data. *Barprrium* gives equivalent mean turf cover to all other cultivars over 18-month trial at 50% less nitrogen input.



## SGT Rye Fairway

### Fairways, tees, roughs

SGT FAIRWAY is an innovative mixture of four grass species and sub-species, designed for the overseeding, divoting or construction of a balanced blend of medium-fine turf across a range of soil types.

#### Features and Benefits

- SGT concept - outstanding turf performance with scientifically proven reductions in fertiliser, water and/or chemical inputs
- *Barprrium* perennial ryegrass delivers equivalent turf quality with 50% less nitrogen-inputs in independent Sports Turf Research Institute trials
- *Barprrium* perennial ryegrass, *Hardtop* hard fescue and *Barjessica* strong creeping red fescue offer proven heat and drought tolerance and/or recovery from independent Landlab trials in Italy
- *Beacon* hard fescue #1-ranked in GEVES French trial system and represents a new standard for the species in terms of shoot density and turf aesthetics
- *Barlineus* #1-ranked Chewings red fescue BSPB/STRI Turfgrass Seed for mean score, shoot density and visual merit
- Superior colour and Red Thread tolerance from all mixture components – two additional aspects of performance for low-input golf fairways



#### How To Use It

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

#### In the bag

30%	<b>BARPRIUM</b>	Perennial ryegrass
30%	<b>BARJESSICA</b>	Strong creeping red fescue
20%	<b>BARLINEUS</b>	Chewings red fescue
10%	<b>HARDTOP</b>	Hard fescue
10%	<b>BEACON</b>	Hard fescue

## SGT Fine Fescue

### Fairways, tees, roughs

SGT FINE FESCUE is an innovative mixture of four fine fescue species and sub-species, designed for the overseeding, divoting or construction of free-draining medium-fine turf on sites with particular drought stress.

#### Features and Benefits

- SGT concept - outstanding turf performance with scientifically proven reductions in water, fertiliser and/or chemical inputs
- Four fine fescue species/sub-species with hard fescue dominance to target impoverished soils with drought stress
- *Hardtop* hard fescue and *Barjessica* strong creeping red fescue offer proven heat and drought tolerance and/or recovery from independent Landlab trials in Italy
- *Beacon* hard fescue #1-ranked in GEVES French trial system and represents a new standard for the species in terms of shoot density and turf aesthetics
- *Barlineus* and *Barcrown* #1-ranked red fescues in their respective BSPB/STRI Turfgrass Seed tables
- Superior colour and Red Thread tolerance from all mixture components – two additional aspects of performance for low-input golf fairways



#### How To Use It

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

#### In the bag

30%	<b>BEACON</b>	Hard fescue
30%	<b>BARJESSICA</b>	Strong creeping red fescue
20%	<b>HARDTOP</b>	Hard fescue
10%	<b>BARCROWN</b>	Slender creeping red fescue
10%	<b>BARLINEUS</b>	Chewings red fescue

## Platinum Fine Turf

### Golf greens, tees, fairways, bowling greens

PLATINUM FINE TURF is a mixture of perennial ryegrass and red fescue, designed for the construction or overseeding of fine turf under moderate wear pressure.

#### Features and Benefits

- Premium quality rye/fescue mixture suitable for close-mown fine turf
- *Barolympic* perennial ryegrass is the stand-out variety for close-mown turf (ranked #1 in Table G4 BSPB/STRI Turfgrass Seed)
- Inclusion of *Barolympic* offers faster establishment and higher wear tolerance than traditional fine-turf grass species with no compromise in turf quality
- Pale colour of *Barolympic* also blends well visually with red fescue
- *Barlineus* #1-ranked Chewings red fescue BSPB/STRI Turfgrass Seed for mean score, shoot density and visual merit
- *Viktorka* #2-ranked slender creeping red fescue BSPB/STRI Turfgrass Seed for shoot density in close-mown trials
- *Barris* #1-ranked strong creeping red fescue BSPB/STRI Turfgrass Seed for shoot density in close-mown trials



#### How To Use It

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

#### In the bag

30%	<b>BAROLYMPIC</b>	Perennial ryegrass
40%	<b>BARLINEUS</b>	Chewings red fescue
15%	<b>VIKTORKA</b>	Slender creeping red fescue
15%	<b>BARRISSE</b>	Strong creeping red fescue

## Rye Fairway

### Fairways, tees

RYE FAIRWAY is a reliable and balanced mixture of ryegrass and fescue, designed for the overseeding, divoting or construction of medium-fine turf (e.g. tees and fairways) across a range of soil types.

#### Features and Benefits

- Balanced mixture of ryegrass and fescue for tees and fairways
- Fast establishment, wear tolerance and recovery from two top-performing medium-fine ryegrasses
- Superior colour during playing season from *Barcristalla* perennial ryegrass
- Exceptional turf density from *Barlineus* and *Barris* red fescues
- Contains #1-rated strong creeping red fescue *Barris* for Red Thread tolerance



#### How To Use It

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

#### In the bag

25%	<b>BARCRISTALLA</b>	Perennial ryegrass
25%	<b>BAROMARIO</b>	Perennial ryegrass
35%	<b>BARRISSE</b>	Strong creeping red fescue
15%	<b>BARLINEUS</b>	Chewings red fescue

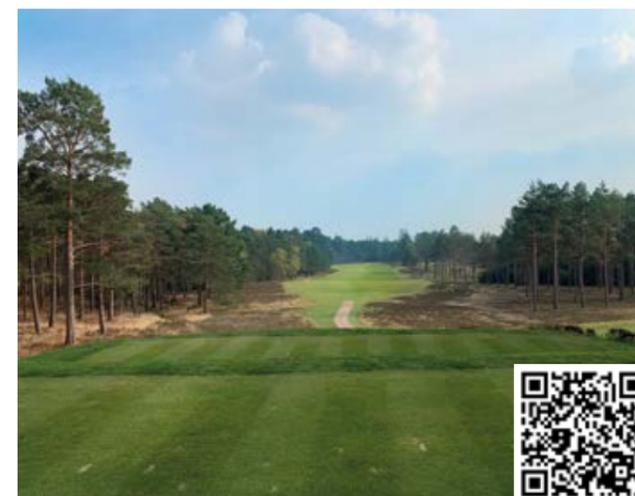
## Medal

### Golf greens, surrounds, tees, fairways, bowling greens

MEDAL is a mixture of perennial ryegrass and red fescue, designed for the construction or overseeding of medium-fine and fine turf under high wear pressure.

#### Features and Benefits

- Superb mixture of fine-leafed and wear-tolerant ryegrasses with red fescue
- Suitable for fine-turf areas under traffic pressure (e.g. tees, surrounds, greens)
- Faster establishment, higher wear tolerance and quicker recovery than traditional fine-turf grass species with no compromise in turf quality
- *Barolympic* perennial ryegrass is the stand-out variety for close-mown turf (ranked #1 in Table G4 BSPB/STRI Turfgrass Seed)
- *Eventus* offers superior regrowth from wear and excellent fineness of leaf (ranked #2 in Table L1)
- Outstanding red fescue cultivars (*Barlineus* ranked #1; *Barris* ranked #2 in BSPB/STRI Turfgrass Seed close-mown trials)



#### How To Use It

Sowing rate	25-35g per m <sup>2</sup>
Oversowing rate	15-25g per m <sup>2</sup>
Sowing depth	8-12mm below thatch
Mowing height	Down to 5mm

#### In the bag

30%	<b>EVENTUS</b>	Perennial ryegrass
20%	<b>BAROLYMPIC</b>	Perennial ryegrass
20%	<b>BARLINEUS</b>	Chewings red fescue
20%	<b>BARRISSE</b>	Strong creeping red fescue
10%	<b>BARSIGNUM</b>	Perennial ryegrass

## Ultrafine

### Golf greens, surrounds, tees, fairways, walk-offs, bowling greens

ULTRAFINE is a blend of perennial ryegrasses for use in areas of fine turf that demand tolerance to close-mowing and high wear with exceptional fineness of leaf.

#### Features and Benefits

- Unparalleled shoot density and visual merit for ryegrass at low heights of cut (<10mm)
- Faster establishment, higher wear tolerance and quicker recovery than traditional fine-turf grass species with no compromise in turf quality
- Allows year-round turfgrass cover to be maintained in high-traffic close-mown areas
- *Barolympic* perennial ryegrass is the stand-out variety for close-mown turf (ranked #1 in Table G4 BSPB/STRI Turfgrass Seed)
- *Barprimum* perennial ryegrass delivers equivalent turf quality with 50% less nitrogen-inputs in independent Sports Turf Research Institute trials
- *Barsignum* delivers superb visual merit and fineness of leaf



#### How To Use It

Sowing rate	25-50g per m <sup>2</sup>
Oversowing rate	20-30g per m <sup>2</sup>
Sowing depth	10-15mm below thatch
Mowing height	Down to 4mm

#### In the bag

50%	<b>BAROLYMPIC</b>	Perennial ryegrass
30%	<b>BARPRIMUM</b>	Perennial ryegrass
20%	<b>BARSIGNUM</b>	Perennial ryegrass

## Extreme Tees, fairways

EXTREME is a blend of perennial ryegrasses for use in areas of medium-fine turf that demand a combination of tolerance to close-mowing and high wear.

### Features and Benefits

- Reliable blend of ryegrasses for combined close-mowing and wear tolerance
- Well suited for renovation and divoting of inland golf tees and fairways
- *Barsignum* is an elite cultivar for fineness of leaf and visual merit in close-mown trials
- *Baradona* is the only variety in BSPB/STRI Turfgrass Seed 2021 with Mean Scores  $\geq 7.5$  in Tables S1 and L1
- *Europitch* and *Eurocordus* offer a strong combination of wear tolerance, shoot density and aesthetics



### How To Use It

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

### In the bag

45%	<b>EUROPITCH</b>	Perennial ryegrass
35%	<b>BARADONA</b>	Perennial ryegrass
10%	<b>BARSIGNUM</b>	Perennial ryegrass
10%	<b>EUROCORDUS</b>	Perennial ryegrass

## RPR Golf Tees, fairways, walkways, roughs

RPR GOLF is a blend of perennial ryegrasses for use in areas of intensive golf traffic, delivering turf with exceptional wear tolerance, fast recovery and good aesthetics.

### Features and Benefits

- Blend of highly wear-tolerant ryegrasses for areas of the golf course subject to intense traffic
- Ideal for walkways and/or high-wear tees
- *Barlibro* RPR delivers fast establishment and unparalleled capacity for recovery from wear due to stoloniferous growth habit.
- *Europitch* and *Baromario* highly ranked on both S1 and L1 tables of Turfgrass Seed 2021



### How To Use It

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

### In the bag

40%	<b>EUROPITCH</b>	Perennial ryegrass
35%	<b>BAROMARIO</b>	Perennial ryegrass
25%	<b>BARLIBRO</b>	RPR perennial ryegrass

# Cricket & Tennis

## Extreme Cricket squares & outfields, tennis, hockey, lacrosse

**EXTREME** is a blend of perennial ryegrasses for use in areas of medium-fine turf that demand a combination of tolerance to close-mowing and high wear.

### Features and Benefits

- Reliable blend of ryegrasses for combined close-mowing and wear tolerance
- Well suited for repair of cricket squares, outfields and tennis courts
- *Barsignum* is an elite cultivar for fineness of leaf and visual merit in close-mown trials
- *Baradona* is the only variety in BSPB/STRI Turfgrass Seed 2021 with Mean Scores  $\geq 7.5$  in Tables S1 and L1
- *Europitch* and *Eurocordus* offer a strong combination of wear tolerance, shoot density and aesthetics



### How To Use It

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

### In the bag

45%	<b>EUROPITCH</b>	Perennial ryegrass
35%	<b>BARADONA</b>	Perennial ryegrass
10%	<b>BARSIGNUM</b>	Perennial ryegrass
10%	<b>EUROCORDUS</b>	Perennial ryegrass

## Ultrafine Tennis courts

**ULTRAFINE** is a blend of perennial ryegrasses for use in areas of fine turf that demand tolerance to close-mowing and high wear with exceptional fineness of leaf.

### Features and Benefits

- Unparalleled shoot density and visual merit for ryegrass at low heights of cut (<10mm)
- Faster establishment, higher wear tolerance and quicker recovery than traditional fine-turf grass species with no compromise in turf quality
- Allows year-round turfgrass cover to be maintained in high-traffic close-mown areas
- *Barolympic* perennial ryegrass is the stand-out variety for close-mown turf (ranked #1 in Table G4 BSPB/STRI Turfgrass Seed)
- *Barprium* perennial ryegrass delivers equivalent turf quality with 50% less nitrogen-inputs in independent Sports Turf Research Institute trials
- *Barsignum* delivers superb visual merit and fineness of leaf



### How To Use It

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

### In the bag

50%	<b>BAROLYMPIC</b>	Perennial ryegrass
30%	<b>BARPRIUM</b>	Perennial ryegrass
20%	<b>BARSIGNUM</b>	Perennial ryegrass

# Football & Rugby

## Elite Sport Football & rugby

ELITE SPORT is a blend of four hard-wearing perennial ryegrasses for the renovation and construction of elite winter sports pitches.

### Features and Benefits

- Blend of highly wear-tolerant ryegrasses for renovation and construction of elite winter sports pitches
- Excellent speed of establishment and recovery from winter wear
- Four cultivars ranked inside the top-16 of BSPB/STRI Turfgrass Seed Table S1
- *Barcristalla* exhibits darker genetic colour than other top-rated varieties, particularly in autumn-winter period
- Balanced disease tolerance against *Drechslera* and *Microdochium*
- *Europitch* has highest Visual Merit score of available cultivars in Table S1



### How To Use It

Sowing rate	30-50g per m <sup>2</sup>
Oversowing rate	15-30g per m <sup>2</sup>
Sowing depth	10-15mm below thatch
Mowing height	Down to 18mm

### In the bag

45%	<b>EUROPITCH</b>	Perennial ryegrass
35%	<b>BARCRISTALLA</b>	Perennial ryegrass
10%	<b>EUROCORDUS</b>	Perennial ryegrass
10%	<b>BAROMARIO</b>	Perennial ryegrass

## Digital Catalogues

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Available online at  
[www.barenbrug.co.uk](http://www.barenbrug.co.uk)

## RPR Sport Football & rugby, stadium environments

RPR SPORT is a highly researched blend of four hard-wearing perennial ryegrasses for the renovation and construction of winter sports pitches.

### Features and Benefits

- Blend of wear-tolerant ryegrasses for renovation and construction of sports pitches
- Formulation derived from dedicated UK mixture trials at Cropvale research station focussed on four key traits for high performance pitches – wear tolerance, dark genetic colour, disease tolerance and recovery
- *Barlibro* RPR delivers fast establishment and unparalleled capacity for recovery from wear due to stoloniferous growth habit
- *Barcristalla* and *Barorlando* exhibit darker genetic colour than other top-rated winter sports varieties, particularly in autumn-winter period
- *Baromario* adds further genetic diversity to the blend to increase disease tolerance



### How To Use It

Sowing rate	30-50g per m <sup>2</sup>
Oversowing rate	15-30g per m <sup>2</sup>
Sowing depth	10-15mm below thatch
Mowing height	Down to 18mm

### In the bag

50%	<b>BARCRISTALLA</b>	Perennial ryegrass
30%	<b>BARLIBRO</b>	RPR perennial ryegrass
10%	<b>BARORLANDO</b>	Perennial ryegrass
10%	<b>BAROMARIO</b>	Perennial ryegrass

## Multi Sport Football, rugby, multi-use sports fields

MULTI SPORT is a blend of four hard-wearing perennial ryegrasses for the renovation and construction of sports pitches.

### Features and Benefits

- Blend of wear-tolerant ryegrasses for renovation and construction of sports pitches
- Excellent speed of establishment and recovery from winter wear
- Blend is suitable for multi-use sports facilities with strong adaptability to lower mowing heights
- *Baradona* is the only variety in BSPB/STRI Turfgrass Seed 2021 with Mean Scores  $\geq 7.5$  in Tables S1 and L1
- *Barcristalla* exhibits darker genetic colour than other top-rated varieties, particularly in autumn-winter period



### How To Use It

Sowing rate	30-50g per m <sup>2</sup>
Oversowing rate	15-30g per m <sup>2</sup>
Sowing depth	10-15mm below thatch
Mowing height	Down to 10mm

### In the bag

35%	<b>BARCRISTALLA</b>	Perennial ryegrass
25%	<b>BARADORADO</b>	Perennial ryegrass
20%	<b>BAROMARIO</b>	Perennial ryegrass
20%	<b>BARADONA</b>	Perennial ryegrass

## Smooth Sport Football & rugby

SMOOTH SPORT is a blend of perennial ryegrasses and smooth-stalked meadowgrass for the construction of winter sports pitches. It is recommended to allow at least three months for the smooth-stalked meadowgrass to establish.

### Features and Benefits

- Combination of hard-wearing species perennial ryegrasses and smooth-stalked meadowgrass
- 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 BSPB/STRI Turfgrass Seed 2021



### How To Use It

Sowing rate	30-40g per m <sup>2</sup>
Oversowing rate	15-20g per m <sup>2</sup>
Sowing depth	10-15mm below thatch
Mowing height	Down to 18mm

### In the bag

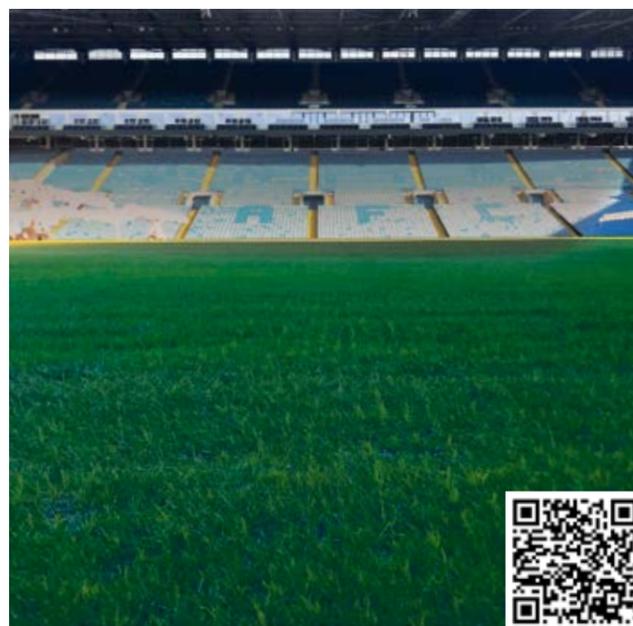
40%	<b>EUROCORDUS</b>	Perennial ryegrass
40%	<b>BARCRISTALLA</b>	Perennial ryegrass
20%	<b>BARIRIS</b>	Smooth-stalked meadowgrass

## SOS Football & Rugby

SOS is designed to give the fastest possible germination, establishment and growth for emergency repair of winter sports pitches.

### Features and Benefits

- Overseeding and patching blend of ryegrass species that germinate and grow vigorously at very low temperatures
- Allows repair of winter sports pitches and racecourses during the active winter season
- A sward with young vigorous plants will exhibit strong growth and recovery at low temperatures
- *Barterra* annual ryegrass germinates, establishes, and grows faster than perennial ryegrasses
- *Bardorado* offers very fast cool temperature germination for a perennial and provides a long-term solution in the mix



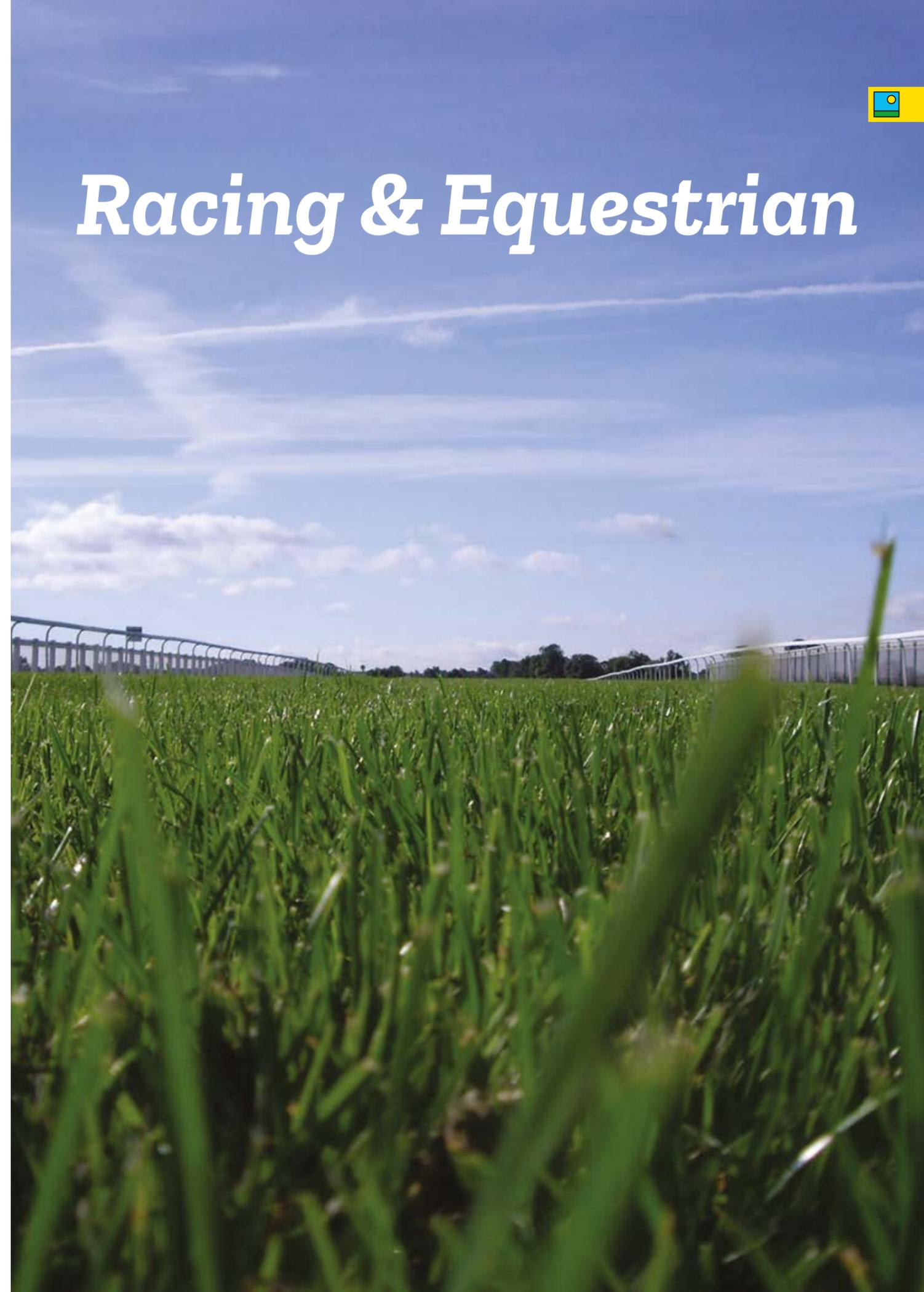
### How To Use It

Sowing rate	30-40g per m <sup>2</sup>
Oversowing rate	20-40g per m <sup>2</sup>
Sowing depth	4-8mm below thatch
Mowing height	Down to 20mm

### In the bag

50%	<b>BARDORADO</b>	Perennial ryegrass
50%	<b>BARTERRA</b>	Annual ryegrass

# Racing & Equestrian



## RPR Sprint Racecourses

RPR SPRINT is a 100% perennial ryegrass seed mixture specifically formulated for the overseeding, divoting and construction of racecourses.

### Features and Benefits

- Dedicated blend of ryegrasses for the particular needs of a racecourse
- Features cultivars that germinate, establish, and grow quickly
- *Barlibro* RPR offers unparalleled capacity for recovery from wear due to stoloniferous growth habit and increases traction strength of sward
- *Bardorado* exhibits exceptional speed of germination and establishment, particularly at low temperatures
- Strong mid-green colour via inclusion of *Barcristalla*



### How To Use It

Sowing rate	25-35g per m <sup>2</sup>
Oversowing rate	15-25g per m <sup>2</sup>
Sowing depth	10-15mm below thatch
Mowing height	Down to 60mm

### In the bag

50%	<b>BARDORADO</b>	Perennial ryegrass
20%	<b>BARCRISTALLA</b>	Perennial ryegrass
15%	<b>BARADONA</b>	Perennial ryegrass
15%	<b>BARLIBRO</b>	RPR perennial ryegrass

## SOS Racecourses

SOS is designed to give the fastest possible germination, establishment and growth for emergency repair or divoting of racecourses.

### Features and Benefits

- Overseeding and patching blend of ryegrass species that germinate and grow vigorously at very low temperatures
- Allows repair of winter sports pitches and racecourses during the active winter season
- A sward with young vigorous plants will exhibit strong growth and recovery at low temperatures
- *Barterra* annual ryegrass germinates, establishes, and grows faster than perennial ryegrasses
- *Bardorado* offers very fast cool temperature germination for a perennial and provides a long-term solution in the mix



### How To Use It

Sowing rate	30-40g per m <sup>2</sup>
Oversowing rate	20-40g per m <sup>2</sup>
Sowing depth	4-8mm below thatch
Mowing height	Down to 20mm

### In the bag

50%	<b>BARDORADO</b>	Perennial ryegrass
50%	<b>BARTERRA</b>	Annual ryegrass

## 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>

## 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	Good	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	Average	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	Average	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	Average	High	High	Medium	
<i>Poa annua</i> Annual meadowgrass	6,500	5.5 -7.5	High	Weak	Intensive	Average	T	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	

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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 amenity varieties and mixtures, providing a solid testing ground for our material.

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



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**Conditions of sale**

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

Any change will be detailed on the bag.

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

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