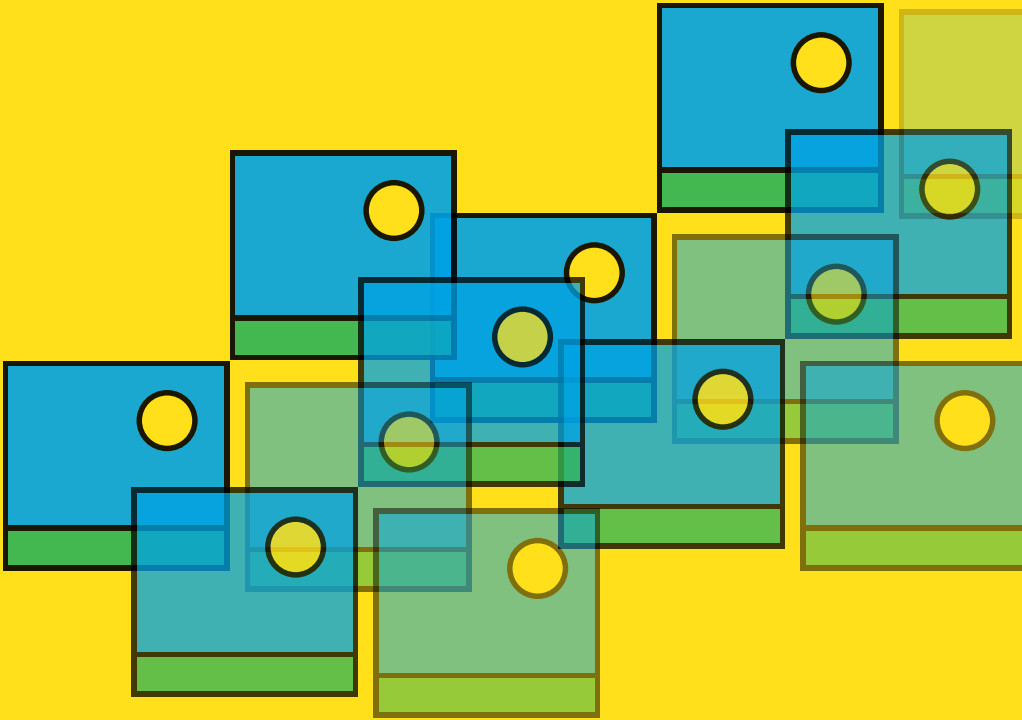


2013

BARENBRUG



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HELLO



We're delighted that you've chosen to pick up and read BAR Range 2013, Barenbrug's guide to our range of sport and amenity grass seed.

This year's catalogue gives you the opportunity to delve behind some of our unique mixtures and cultivars in the Insights section. Find out why, and how these special mixtures are designed to perform.

Following the success of BAR 7 RPR, 2013 sees the launch of EXTREME RPR which combines the benefits of BAR EXTREME with RPR creeping ryegrass technology. Its faster establishment and recovery after wear is unrivalled.

After extensive in-field trials, laboratory studies and research projects we're also launching BAR SALT & DROUGHT, a blend of perennial ryegrass and fine fescue species selected specifically for increased tolerance to both salt and drought conditions.

A range of wildflowers for use across the golf course, with three dedicated perennial mixtures are also now available. The mixtures contain 100 percent wildflower species selected carefully to match the environments and soil types typical of Parkland, Links and Heathland golf courses.

Enjoy!

Why choose Barenbrug?

Innovation, customer satisfaction and great products. We haven't been grass seed specialists for over 100 years for nothing.

Here are just a few interesting, maybe even compelling reasons:

Breeding, research and development - we're always trying to figure out new ways to enhance grass surfaces so as you'd expect, we're at the forefront of new technologies, working hard on the latest cultivars and mixture synergy, ensuring the grass seed you buy is the very best it can be.

Amazing service - At Barenbrug it's our aim to provide you with high quality products, backed up by amazing service.

As a Barenbrug customer you're promised outstanding service, great products and a grass specialist that is dedicated to breeding and producing innovative solutions and products whatever your requirements.

All reasons why you should choose a specialist grass breeding company like Barenbrug.

In the book

BAR RANGE GRASS SEED

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Discover the BAR Range online

Stay in touch and join the conversation



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[@BarenbrugUK](https://twitter.com/BarenbrugUK)



GRASS EXPERTS

THE BEST IN GRASS
SINCE 1904



About Barenbrug

From its founding days in 1904 the Royal Barenbrug Group has grown into a global seed company with breeding and research stations on five continents.

Still privately owned, our knowledge and experience of grass seed is second to none.

Here in the UK we continue to be a leading player in the supply of grass seed for both the amenity and

Grass Cultivars

Our profession is plant breeding; selecting and developing quality cultivars with the essential, unique characteristics to meet the ever-increasing demands placed on you for quality surfaces whatever the circumstances.

Our varieties are bred to do just that. That's just part of the story. We spend a lot of time talking grass. It's easy for us, it's our passion.

We have been developing cultivars at research stations in different climatic zones for more than 50 years.

Barenbrug now has a decentralised research operation in many different countries on five continents, guaranteeing better testing and selection, offering innovative and well-adapted cultivars and species in each climatic area.

agricultural markets, distributing more than 4,000 tonnes of grass seed each year through an efficient distribution network.

With our blending facilities in Bury St Edmunds, Suffolk, and Falkirk, Scotland, we can provide an unrivalled service throughout the UK and Ireland.

Grass seed breeders work to improve and update cultivars on an ongoing basis, providing turf professionals with characteristics such as disease and drought tolerance, cool-temperature germination and rapid recovery from wear.

You name a problem, you can be sure there's a breeder out there pioneering a new cultivar to solve it!

That's why we, in turn, are constantly looking at how we can better our mixtures with the latest Barenbrug-bred cultivars.

It's our job to make the most of these breeding breakthroughs and research innovation; the latest of which feature in the BAR Range 2013.

Find out more about our amenity research on our website.



UK production

We're one of the largest seed producers in the UK, producing around 1,700 hectares.

Growing the grass seed here in the UK delivers further advantages for our customers.

Barenbrug's aim is to produce all grass seed to the Higher Voluntary Standard (HVS), which is unique to the UK guaranteeing a higher level of purity than European Union (EU) Standards.

Barenbrug always aims to surpass the HVS standard; the costs are increased to produce to this higher standard but the quality speaks for itself.

Tested and proven

Everything from Barenbrug has been tried, tested and proven.

From our flagship research site at Cropvale in Worcestershire to an array of local climate mixture and monoculture trials at sites across the UK and Ireland, Barenbrug UK has invested significantly in trials.

In-field trials

Customer trials really impact on our research and development. A recent project at King William's College on the Isle of Man provided valuable insights into germination and persistency under high salinity.

The data, coupled with work undertaken at Landlab Studios in Vicenza, Italy and laboratory studies at the Barenbrug research station in Wolfheze, Holland, has led to the launch of a new mixture for 2013 - **BAR SALT & DROUGHT**. Find out more about this new product on **page 17**.

The whole process wouldn't have been so successful without the involvement and dedication of our customers and we really appreciate all their hard work making these trials a success.

Cropvale Trial Site

Cropvale, our 15-acre site in Worcestershire, is ideal for assessing performance in UK conditions.

The site is utilised to assess and evaluate mixture performance to ensure we offer the best solutions using our highly rated cultivars and innovative new species.

Our UK production contracts also enable us to provide high vigour seed from our most recent harvest to offer you the best available establishment.

Individual contracts with experienced growers supported by licensed crop inspections is key to our success; despite challenging times and sometimes inclement harvest conditions, Barenbrug's commitment to UK production remains strong and forms a key component of our total quality strategy.

This autumn we have sown demonstration areas for medium-fine turf, winter sports and racecourses.

We look forward to welcoming you to the site soon!

Our work with STRI

Alongside our own trials, we invest heavily in independent research with turf experts.

2012 saw the publication of our Golf Greens Booklet, which summarises an extensive four-year trial at STRI, Bingley investigating the suitability of grass species for golf greens in the UK and Ireland.

The trials were also replicated at Druids Glen, Ireland and we are extremely grateful to the greenstaff for their hard work and valuable input on the project.

Download the booklet at www.barenbrug.co.uk/GolfGreensTrials

BAR Range mixtures are formulated on outstanding, individual cultivar characteristics and with consideration of the potential interactions amongst cultivars for performance and presentation.

For example, we look at: degree of aggressive or noncompetitive growth habit, recovery, persistency, combined disease tolerance, colour and uniformity, making the BAR Range appreciated by turf professionals.

The combined results of all these aspects, together with the advice available from the Barenbrug technical team will ensure customers achieve the best results when using our grass seed.

BARENBRUG

Discover our range of blends and mixtures suitable for all playing surfaces and environments throughout the golf course.



BAR FESCUE

Greens, tees and fairways

BAR FESCUE offers superior shoot density and outstanding tolerance, to and recovery from, disease.

Ideal for construction, renovation and species exchange on free-draining golf courses and bowling greens.

BAR FESCUE is also suitable for divotting and renovation of high quality tees and fairways.

What BAR FESCUE offers

- Cooler temperature germination and earlier spring green-up for the species
- Unparalleled shoot density and visual merit for the species
- Excellent drought tolerance
- Excellent combined disease tolerance to red thread, fusarium and dollar spot
- Tolerant of regular greens mowing height down to 4mm

How BAR FESCUE works

- 50:50 blend of Chewings and slender creeping fescues provide year round performance
- Chewings fescues are most active in spring and early summer
- Slender creeping red fescues are most active in summer and autumn

In the bag

30%	Viktorka	Slender creeping red fescue
20%	Barcrown	Slender creeping red fescue
20%	Barlineus	Chewings fescue
15%	Bargreen II	Chewings fescue
15%	Barswing	Chewings fescue

Sowing rate	20-30g per m ²	Oversowing rate	10-20g per m ²
Sowing depth	8-12mm	Mowing height	down to 4mm

INSIGHTS

Delve beyond the bag to discover how and why our top mixtures are designed to perform.



BAR FESCUE is an unparalleled blend of five outstanding red fescue cultivars; *Viktorka*, *Barcrown*, *Barlineus*, *Bargreen II* and *Barswing*.

BAR FESCUE is made up of 50 percent slender red creeping fescue and 50 percent Chewings red fescue seed.

The combination of these two sub-species offers the best solution for year-round performance and growth in fescue-dominant turf. Chewings fescues will generally be most active in spring through to mid-summer, whereas slender creepers “kick in” during early summer and perform well through to autumn.

Table 1 below shows the outstanding performance of BAR FESCUE cultivars in the STRI/BSPB Turfgrass Seed 2013.

New this year is *Barlineus* and **with a mean score of 8.7, is the highest ranked cultivar across all grass species in the UK!** It's also the top-performing Chewings fescue (jointly with *Barswing*) for disease resistance (red thread).

Viktorka is the #1 rated slender creeper and comes joint second for red thread resistance and *Barcrown* is rated third overall but #1 for disease. Finally, don't forget *Bargreen II*, ranked #2 overall for greens use!

As a complete mixture, BAR FESCUE has a MEAN score of 7.955 – higher than any other individual red fescue cultivar (let alone mixture!) from another breeder or supplier.

Cultivar	Mean Score	Rank	Disease Resistance	Rank
<i>Viktorka</i>	8.2	1	8.0	1=
<i>Barcrown</i>	7.6	3	8.2	1
<i>Barlineus*</i>	8.7	1	7.6	1=
<i>Bargreen II</i>	7.8	2	6.6	16=
<i>Barswing</i>	7.1	7	7.6	1=

Table 1: Scoring and ranking of Bar Fescue cultivars from Turfgrass Seed 2013 for golf greens use. * = new cultivar.

The mixture synergy of BAR FESCUE doesn't stop there – take a look at Figures 1 and 2 from Barenbrug Research.

Barswing offers top performance for cool-temperature germination and dollar spot resistance – more than earning its proud place in the undisputed **number-one fescue blend on the market!**

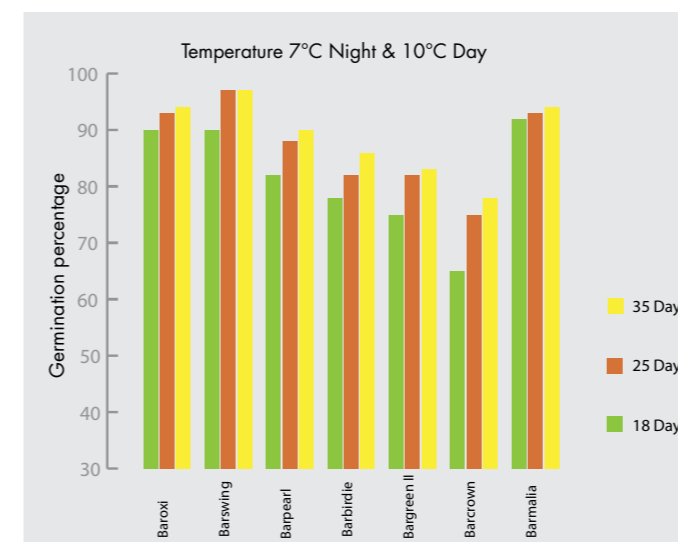


Figure 1: Temperature Germination Response - Barenbrug Research Trial

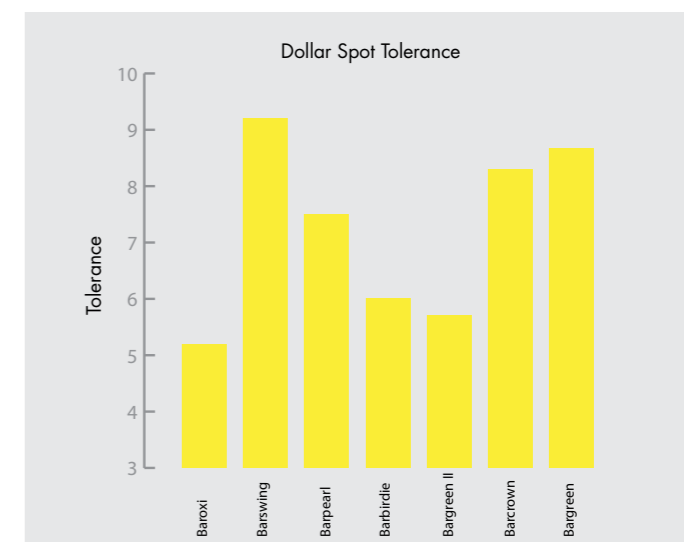


Figure 2: Dollar Spot Tolerance - Barenbrug Research Trial



Our 100 percent fescue blends incorporating hard fescue.

BAR TRIO

Greens, tees and fairways

BAR TRIO has been specially designed to offer superior salt tolerance for links and coastal courses. It's ideal for golf greens and other in-play areas of the golf course which are subjected to salt laden winds and salt spray.

What BAR TRIO offers

- Superior salt tolerance
- Rhizomatous cultivars for excellent recovery
- High sward density

How BAR TRIO works

- Slender creeping red fescue has superior salt tolerance with cultivars selected for this trait and as a result of extensive lab trials (see the **FACTfile** on our website for more detailed information)

In the bag

50% Viktorka	Slender creeping red fescue
30% Barprince	Slender creeping red fescue
20% Barmalia	Slender creeping red fescue

Sowing rate	30-40g per m ²	Oversowing rate	20-30g per m ²
Sowing depth	8-12mm	Mowing height	down to 4mm

BAR FAIRWAY

A 100 percent fescue blend specially designed to offer fast establishment, excellent density and recovery for overseeding or divotting fairways and tees. BAR FAIRWAY is also suitable for semi-roughs with excellent persistency and playable deep roughs.

What BAR FAIRWAY offers

- Excellent persistency and recovery
- Attractive deep roughs which do not impede play

How BAR FAIRWAY works

- Fescue cultivars selected for fast establishment at cooler soil temperatures
- Improves sward density for free-draining golf fairways and tees
- Faster establishment at cooler soil temperatures

In the bag

25% Barprince	Slender creeping red fescue
40% Barswing	Chewings fescue
35% Sergei	Strong creeping red fescue

Sowing rate	15-30g per m ²	Oversowing rate	10-20g per m ²
Sowing depth	8-12mm	Mowing height	down to 7mm



Explore the full golf range on our website.

BAR 22

Golf and bowling greens

BAR 22 gives superior winter colour and drought tolerance from a 100 percent fescue blend for close mowing down to 5mm.

Suitable for construction, renovation and species exchange for free-draining golf and bowling greens.

What BAR 22 offers

- Improves tolerance to and recovery from drought
- Excellent combined disease tolerance to red thread, fusarium and dollar spot
- Unparalleled shoot density and visual merit for the species

How BAR 22 works

- *Hardtop* gives superior winter colour for fescue dominant swards
- *Hardtop* increases drought tolerance

In the bag

30% Hardtop	Hard fescue
40% Viktorka	Slender creeping red fescue
15% Bargreen II	Chewings fescue
15% Barswing	Chewings fescue

Sowing rate	20-30g per m ²	Oversowing rate	10-20g per m ²
Sowing depth	8-12mm	Mowing height	down to 5mm

BAR 20

Tees, fairways, roughs

BAR 20 provides excellent winter colour and drought tolerance from a 100 percent fescue blend for mowing down to 7mm.

Produces a playable sward with attractive seed heads for renovation and construction of deep roughs. Suitable for divotting, overseeding, species exchange and construction for golf tees, fairways & semi-roughs.

What BAR 20 offers

- Improves tolerance to and recovery from drought
- Superior combined disease tolerance to red thread, fusarium and dollar spot
- Increases sward bio-diversity with four different sub species of fescue

How BAR 20 works

- *Hardtop* selected for excellent winter colour for fescue dominant swards
- Strong creeping red fescue is ideal for fast establishment in tees, fairways, roughs

In the bag

20% Hardtop	Hard fescue
20% Barprince	Slender creeping red fescue
25% Barswing	Chewings fescue
35% Bossanova	Strong creeping red fescue

Sowing rate	20-30g per m ²	Oversowing rate	10-20g per m ²
Sowing depth	8-12mm	Mowing height	down to 7mm



Greens mixtures containing high quality browntop bent (*Agrostis capillaris*).

BAR ALL BENT

Golf and bowling greens

BAR ALL BENT provides excellent performance during both summer and winter for the construction, renovation and species exchange for golf greens and bowling greens.

What BAR ALL BENT offers

- Superior shoot density and disease tolerance
- Fine-leaved for the species
- Excellent year round performance for a 100 percent bentgrass mixture
- Gives superb summer colour and excellent winter colour for golf greens
- Tolerant of very close mowing down to 3mm

How BAR ALL BENT works

- *Heriot* is extremely fine leaved for the species and excellent summer performance
- *Barking* has superior wear tolerance and winter performance

In the bag

50% Barking	Browntop bent
50% Heriot	Browntop bent

Sowing rate	8-10g per m ²	Oversowing rate	4-6g per m ²
Sowing depth	Rootzone contact	Mowing height	down to 3mm

BAR 2

Golf and bowling greens

BAR 2 provides excellent shoot density, recovery, winter colour and tolerance to close mowing for construction and renovation of golf greens, bowling greens, putting greens, collars and surrounds and croquet lawns.

What BAR 2 offers

- Excellent adaptability to different management regimes
- High shoot density
- Superior combined disease tolerance

How BAR 2 works

- Combination of high quality red fescue and browntop bent gives excellent year round performance with superior recovery to wear
- Traditional blend of 80 percent fescue:20 percent bent, able to be maintained under a range of maintenance regimes

In the bag

30% Viktorka	Slender creeping red fescue
20% Barcrown	Slender creeping red fescue
15% Bargreen II	Chewings fescue
15% Barlineus	Chewings fescue
10% Heriot	Browntop bent
10% Barking	Browntop bent

Sowing rate	20-30g per m ²	Oversowing rate	10-20g per m ²
Sowing depth	2-4mm	Mowing height	down to 4mm

INSIGHTS

Delve beyond the bag to discover how and why our top mixtures are designed to perform.



BAR ALL BENT and BAR 2 are premium seed mixtures, both featuring high quality cultivars of browntop bent (*Agrostis capillaris*) for use on close-mown turf.

BAR 2 blends the bent with outstanding red fescue varieties in a traditional 80 percent fescue:20 percent bent mixture.



Barenbrug recently published results of an extensive four-year trial, assessed independently by the STRI, which highlighted the benefits of using *Agrostis capillaris* cultivars *Barking* and *Heriot* instead of other bentgrass species in the UK and Ireland.

Download the booklet at www.barenbrug.co.uk/GolfGreensTrials

Figures 1 and 2 below show the extent of annual meadowgrass (*Poa annua*) ingress into golf green plots after four years of maintenance and wear.

In Figure 1, a green sown with BAR 2 contained seven percent (standard maintenance) and three percent (low input maintenance) *Poa* at the end of the trial compared to 30 percent and 10 percent, respectively, for greens sown with 80 percent fescue:20 percent *Highland* bentgrass.

Figure 2 shows a similar result for 100 percent bentgrass mixtures after four years of standard maintenance. Greens sown with *capillaris* (BAR ALL BENT and BAR DUO) performed far better than creeping bentgrass cultivars during the trial.

BAR ALL BENT is highly recommended for overseeding inland golf greens as part of a species exchange programme. BAR 2 would be more typically used for a new golf green construction or occasionally for overseeding free-draining fine turf areas.

In both mixtures, *Barking* and *Heriot* work very well in partnership as *Barking* performs exceptionally in cooler conditions for the species and *Heriot* really "kicks in" well during summer.

Table 1 shows the mean scores and ranking (STRI/BSPB Turfgrass Seed 2013) of the six cultivars in BAR 2 for golf greens use.

Cultivar	Mean Score	Rank
Viktorka	8.2	1
Barcrown	7.6	3
Barlineus*	8.7	1
Bargreen II	7.8	2
Heriot	6.9	4
Barking	7.1	2

Table 1: Scoring and ranking of BAR 2 cultivars from Turfgrass Seed 2013 for golf greens use. * = new cultivar.

Further details of the red fescue varieties can be found on page 7 of this catalogue.

We are sure you'll agree, for golf greens construction, BAR 2 is the best seed mix out there, BAR none!

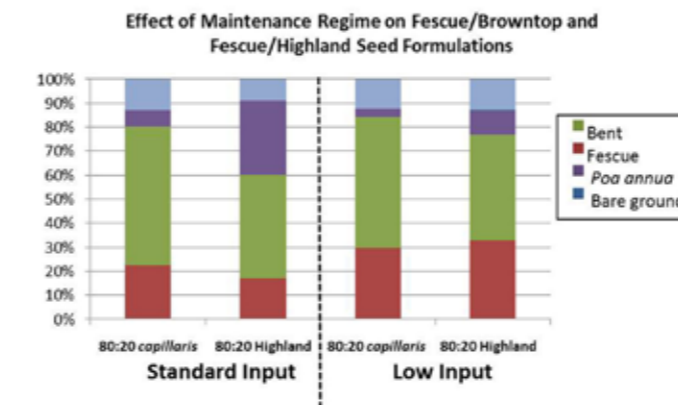


Figure 1: Botanical composition of 80:20 fescue:bent plots after 4 years trialling under standard and low input maintenance regimes.

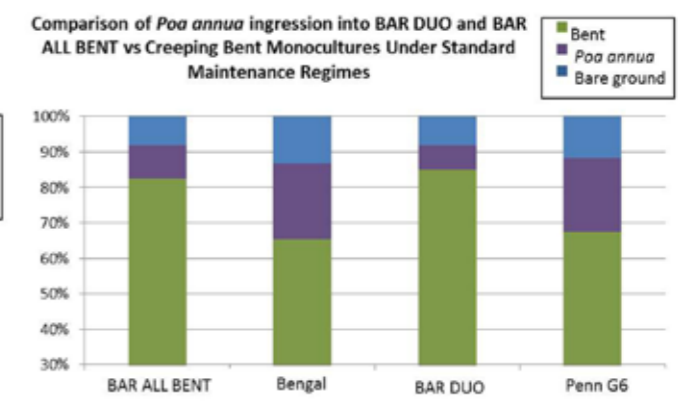


Figure 2: Botanical composition of browntop and creeping bent plots after over 4 years trialling under the standard maintenance regime



Quality mixtures for use across the golf course.

BAR SALT & DROUGHT

Links golf courses

BAR SALT AND DROUGHT is a blend of perennial ryegrass and fine fescue species selected specifically for increased tolerance to both salt and drought conditions. See our dedicated new **FACTfile** for more detailed information.

Where to use BAR SALT & DROUGHT

- Can be used in a wide variety of applications – construction or overseeding of heavy wear areas on links golf courses, road and path verges, parks, and general landscape areas without irrigation or in coastal regions

What BAR SALT & DROUGHT offers

- *Barlennium* and *Hardtop* cultivars provide a dark green colour under parched conditions
- Exceptional shoot density through *Viktorka*, strong wear tolerance via *Bardorado* and *Barlennium* and good all-round disease resistance

How BAR SALT & DROUGHT works

- Our extensive trials show large differences between cultivars within perennial ryegrass and fine fescue species for salt and drought tolerance
- Of the perennial ryegrasses tested, *Barlennium* and *Bardorado* exhibit best all-round performance, and *Viktorka* is the standout fine fescue variety
- *Hardtop* hard fescue shows outstanding drought and good germination in saline conditions

BAR DUO

Golf and bowling greens

BAR DUO is a novel solution to improving year-round playing performance and aesthetics for bent grass dominant swards through a distinctive 100 percent blend of browntop and creeping bent grasses.

What BAR DUO offers

- Improves year-round playing performance and aesthetics for bent grass dominant swards
- Superior shoot density and disease tolerance

How BAR DUO works

- *Barking* improves winter performance of creeping bent (*Agrostis stolonifera*) dominant golf greens
- *Bengal* enhances the summer performance, competitiveness and recovery of very close mown browntop bent (*Agrostis capillaris*) dominant greens

BAR 1

Golf and bowling greens

BAR 1 offers good disease tolerance and winter colour for renovation of golf and bowling greens, collars and surrounds, combining performance with economy for limited budgets.

What BAR 1 offers

- Excellent fusarium tolerance
- Performance with economy

How BAR 1 works

- Traditional blend of 80 percent fescue:20 percent bent
- *Troy* browntop bent is a superior alternative to *Highland* bent, which is common in other 'economy' greens mixtures

In the bag

20% Barlennium	Perennial ryegrass
20% Bardorado	Perennial ryegrass
30% Viktorka	Slender creeping red fescue
30% Hardtop	Hard fescue

Sowing rate	30-40g per m ²	Oversowing rate	20-30g per m ²
Sowing depth	8-12mm	Mowing height	down to 10mm

In the bag

50% Bengal	Creeping bent
50% Barking	Browntop bent

Sowing rate	8-10g per m ²	Oversowing rate	4-6g per m ²
Sowing depth	Rootzone contact	Mowing height	down to 2.5mm

In the bag

40% Barpearl	Slender creeping red fescue
40% Barbirdie	Chewings fescue
20% Troy	Browntop bent

Sowing rate	20-30g per m ²	Oversowing rate	10-20g per m ²
Sowing depth	2-4mm	Mowing height	down to 4mm



Explore the full golf range on our website.



BAR EXTREME is the performing perennial ryegrass mixture.

BAR EXTREME

Tees, fairways, golf and bowling greens

BAR EXTREME is the performing perennial ryegrass mixture which helps golf clubs extend the playing season, thanks to its rapid-establishment and hard-wearing characteristics.

BAR EXTREME is suitable for renovation and construction of heavy wear golf greens, surrounds and driving ranges. Ideal for divotting, renovation and species exchange of golf tees and fairways.

What BAR EXTREME offers

- Very fast establishing
- Extremely fine-leafed for the species
- Superior wear tolerance and recovery

How BAR EXTREME works

- Fine leafed but hard wearing perennial ryegrasses for applications requiring close mowing
- *Bargold* has superior leaf spot tolerance and cool temperature germination
- *Barsignum* has superior fineness of leaf and tolerance to close mowing

In the bag			
40%	Bargold	Perennial ryegrass	
40%	Fandango	Perennial ryegrass	
20%	Barsignum	Perennial ryegrass	
Sowing rate	25-35g per m ²	Oversowing rate	15-25g per m ²
Sowing depth	12-15mm	Mowing height	down to 5mm

EXTREME RPR

Tees, fairways, golf and walkways

EXTREME RPR combines the benefits of BAR EXTREME with RPR creeping ryegrass technology.

Its faster establishment and recovery after wear is unrivalled.

What EXTREME RPR offers

- Faster establishment
- Excellent wear tolerance
- Fast recovery after wear
- Added traction strength

How EXTREME RPR works

- Combines a unique creeping growth habit which establishes quickly and provides excellent tolerance to wear
- Gives a very dense sward
- RPR's creeping growth habit helps fill in divots

In the bag			
40%	Bargold	Perennial ryegrass	
40%	Fandango	Perennial ryegrass	
20%	Barclay II	Perennial ryegrass	
Sowing rate	25-35g per m ²	Oversowing rate	15-25g per m ²
Sowing depth	12-15mm	Mowing height	down to 10mm

INSIGHTS

Delve beyond the bag to discover how and why our top mixtures are designed to perform.



BAR EXTREME is an exceptional mix of dwarf perennial ryegrasses, offering an outstanding blend of wear tolerance, fineness of leaf, aesthetic appeal and cleanness of cut for a range of applications. It's recommended for high-wear fine turf, with mowing down to 5mm.

New for 2013 is EXTREME RPR with regenerating perennial ryegrass *Barclay II*, promising to add a new dimension of recovery to this popular product. RPR is unique because of its creeping growth habit, made possible through the production of elongated tillers.

Elongated tillers are growth shoots emerging from nodes at the base of each plant. They creep horizontally just below the surface, and are capable of developing roots at the internodes, creating entirely new grass plants (see Figure 1).

Barclay II also features in our revolutionary sports product BAR 7 RPR – see pages 22-23 for more details of this ground-breaking advance in plant breeding.

EXTREME RPR is recommended for fine turf areas maintained at a minimum height of cut of 10mm+, and is particularly applicable for divotting or overseeding high wear golf tees and walkways.

The mainstay of BAR EXTREME for many years has been the appropriately named *Bargold*, which has been setting the standard for dwarf ryes for well over a decade.

Bargold has excellent fineness of leaf and tolerance to close mowing (ranked #1 for golf greens use on Table G4 in the STRI/BSPB Turfgrass Seed 2013), and is also one of our best cultivars for leaf spot tolerance (see Figure 2 from Barenbrug Research data).

Also included in BAR EXTREME this year is a relative newcomer *Barsignum*, a fantastic cultivar that ranks #2 on Table L1 (lawns use) in Turfgrass Seed.

***Barsignum's* visual merit score of 8.5 is the joint highest (with *Barorlando*) for any grass across all species in the UK!**

Fandango serves to add extra wear tolerance and recovery speed to the mixtures. It's an excellent all-rounder, with particularly good shoot density and visual merit.

These two products have remarkable flexibility in terms of their usage - whether it's divotting a golf tee, renovating your cricket square or even overseeding your back lawn, choose an EXTREME mixture for guaranteed success!

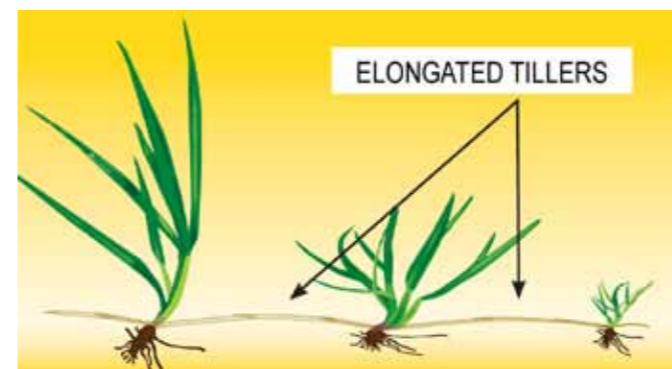


Figure 1: *Barclay II's* elongated tillers and subsequent formation of new plants

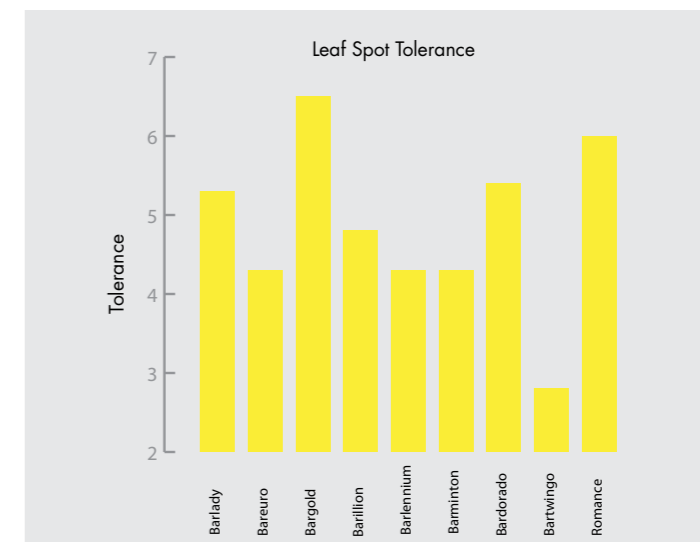


Figure 2: Leaf Spot (*Drechslera spp*) Tolerance - Barenbrug Research Trial



Fine-leaved mixtures for use across the golf course.

BAR MEDAL Tees and greens

BAR MEDAL offers superior wear tolerance and establishment combined with very fine appearance for construction, renovation and divotting of very heavy wear golf greens, surrounds, tees, fairways (especially landing zones) and semi-roughs.

What BAR MEDAL offers

- Excellent wear tolerance and recovery
- Superb sward density and cleanness of cut with close mowing

How BAR MEDAL works

- *Bargold* ensures wear tolerance and fast establishment
- *Viktorka* slender creeping red fescue increases shoot density and aesthetic appeal

In the bag

60% Bargold	Perennial ryegrass
40% Viktorka	Slender creeping red fescue

Sowing rate	25-35g per m ²	Oversowing rate	15-25g per m ²
Sowing depth	8-12mm	Mowing height	down to 5mm

BAR 6 Tees, fairways and semi-roughs

BAR 6 combines fast establishment with excellent wear tolerance and recovery.

What BAR 6 offers

- Fast establishment combined with good wear tolerance
- Good density at the base of the sward

How BAR 6 works

- Perennial ryegrass component gives wear tolerance and performance in heavier soils
- Fescue and bent provide shoot density and disease tolerance in lighter soils
- *Barlennium* gives quality year round colour and drought tolerance

In the bag

15% Barlennium	Perennial ryegrass
15% Bartwingo	Perennial ryegrass
30% Barprince	Slender creeping red fescue
35% Sergei	Strong creeping red fescue
5% Highland	Browntop bent

Sowing rate	25-35g per m ²	Oversowing rate	15-25g per m ²
Sowing depth	5-10mm	Mowing height	down to 7mm

BAR PLATINUM Greens, tees and fairways

BAR PLATINUM has exceptional fine characteristics, fast establishment and unbeatable versatility for golf and bowling greens, collars and greens surrounds, frost greens, tees and fairways.

What BAR PLATINUM offers

- Mixture designed for fast establishment combined with a very fine appearance
- Additional wear tolerance and excellent recovery in comparison with a traditional fescue blend

How BAR PLATINUM works

- *Bargold* ensures wear tolerance and fast establishment and has been setting the standard for dwarf ryes for well over a decade
- *Bargold* has excellent fineness of leaf and tolerance to close mowing (ranked #1 for golf greens use on Table G4 in the STRI/BSPB Turfgrass Seed 2013)
- High quality Chewings and slender fescues provide increased shoot density, disease tolerance and visual appeal
- Exceptional shoot density through *Viktorka* - the standout fine fescue variety (ranked #1 slender creeper)

In the bag

30% Bargold	Perennial ryegrass
25% Barprince	Slender creeping red fescue
25% Viktorka	Slender creeping red fescue
20% Bargreen II	Chewings fescue

Sowing rate	25-35g per m ²	Oversowing rate	15-25g per m ²
Sowing depth	8-12mm	Mowing height	down to 5mm



Explore the full golf range on our website.

GOLF WILDFLOWERS

Brighten up the course with our range of wildflowers.



Welcome to our new range of wildflowers for golf courses.

Three dedicated perennial mixtures are available with 100 percent wildflower species selected carefully to match the environments and soil types typical of **Parkland**, **Links** and **Heathland** golf courses. All wildflowers are UK provenance, enabling you to create a new haven for native wildlife.

Annual wildflower blend, BAR COLOUR, completes the range and is ideal for a dramatic display of colour for a short-term period.

With each perennial wildflower product, we have suggested grass seed mixtures to be supplied separately.

This novel approach gives total flexibility to end-users, enabling you to target specific areas for wildflower planting and adjusting sowing rates to aid establishment of the accompanying grass.

For instance, you may wish to sow a large area of diversity grassland, but concentrate efforts to establish wildflowers in small pockets to maximise visual impact. Adopting this tactic may also help to lower the budget of these beneficial projects.

BAR 13 is our recommended diversity mix for natural grassland sowing. It's a blend of seven species with a wide range of seed heads and leaf morphology. It's appropriate for use on a broad spectrum of soil types and is suitable for use on out-of-play areas. See **page 35** for more information.

BAR 20 is a blend of four species of fescue designed to provide a fine, open, wispy sward. The hard fescue will thrive in areas of low fertility, shade and drought. It's most appropriate for links and heathland and can be used in areas in and out of play. See **page 8** for more information.

BAR 12 is a fescue and bentgrass mix designed to provide a fine, open, wispy sward. The bentgrass will help maintain grass cover in wetter areas. It's most appropriate for parkland sites and can be used in areas in and out of play. See **page 34** for more information.

Establishing and maintaining wildflower areas is a tricky process, please refer to our dedicated **Wildflower FACTfile**, 'Guide to Sowing', available on our website, or contact us for advice.

PARKLAND

A native wildflowers mixture for parkland golf courses.

The range of wildflora species have been carefully chosen and selected for their ability to create a meadow on range of nutrient rich soil types and locations with a neutral pH normally found on parkland golf courses.

The wildflower mixture

- 20% Common Knapweed
- 8% Wild Carrot
- 9% Field Scabious
- 12% Birdsfoot Trefoil
- 22% Selfheal
- 15% Native Red Clover
- 14% Lady's Bedstraw

Suggested grass accompaniment

BAR 13 or BAR 12

HEATHLAND

A native wildflowers mixture for heathland golf courses.

A range of wildflora species suited to areas of low fertility and a low acidic pH range normally found on heathland courses.

The wildflower mixture

- 20% Common Knapweed
- 9% Wild Carrot
- 12% Birdsfoot Trefoil
- 22% Selfheal
- 15% Native Red Clover
- 16% Lady's Bedstraw
- 6% Devils bit Scabious

Note: Common Heather can be added if required

Suggested grass accompaniment

BAR 13 or BAR 20

LINKS

A native wildflowers mixture for links golf courses. This range of wildflora species is suited to sand based soils where moisture retention is a problem and pH levels are normally low; this mixture will suit areas that suffer drought problems normally found on links courses.

The wildflower mixture

- 17% Common Knapweed
- 8% Wild Carrot
- 8% Field Scabious
- 10% Birdsfoot Trefoil
- 18% Selfheal
- 12% Native Red Clover
- 12% Lady's Bedstraw
- 7% Yarrow
- 8% Kidney Vetch

Suggested grass accompaniment

BAR 13 or BAR 20

BAR COLOUR

A mixture of annual British native wildflowers. Sow on its own or as a colourful supplement to perennial wildflower mixtures. BAR COLOUR adds colour to spring sowings. To maintain colour and species differentiation re-seed each year.

100 percent annual mixture

- 10% Corn Poppy red
- 40% Corn Cockle pink
- 20% Corn Flower blue
- 15% White Champion white
- 10% Corn Marigold yellow
- 5% Corn Chamomile white

SOWING RATES

Wildflowers	1g per m ²	Grasses in areas with flowers	5g per m ²
Areas without flowers for BAR 12 & BAR 20	10-15g per m ²	BAR 13	15-20g per m ²

FACTFILE

CRICKET & SUMMER SPORTS

A dedicated range of mixtures recommended for cricket and other summer sports.



BAR EXTREME

Cricket squares, outfield, tennis, hockey and lacrosse

BAR EXTREME provides excellent shoot recovery for hard-working squares with limited rotation.

BAR EXTREME is the performing perennial ryegrass mixture.

What BAR EXTREME offers

- Fast establishment for mid and end of season renovation
- Tolerance of very close mowing
- Early spring growth

Where to use BAR EXTREME

- Suitable for renovation and construction of cricket squares, outfield, tennis courts and hockey and lacrosse pitches

How BAR EXTREME works

- Fine leaved but hard wearing perennial ryegrasses for applications requiring close mowing
- *Barsignum* has superior fineness of leaf and tolerance to close mowing
- *Bargold* has superior leaf spot tolerance and cool temperature germination
- *Fandango* adds extra wear tolerance and recovery speed to the mix

In the bag

40% Bargold	Perennial ryegrass
40% Fandango	Perennial ryegrass
20% Barsignum	Perennial ryegrass

Sowing rate	25-50g per m ²	Oversowing rate	20-30g per m ²
Sowing depth	12-15mm	Mowing height	down to 2mm

For the insight into BAR EXTREME see page 15



Explore the range online

BAR MEDAL

Cricket squares, outfield and tennis courts

BAR MEDAL is a high sward density and superior tensile strength mixture that offers improved drought tolerance for construction and renovation of cricket squares, outfield and tennis courts.

What BAR MEDAL offers

- Fast establishment with superior tensile strength
- Combined wear tolerance with superior drought tolerance for cricket outfield
- Very high shoot density

How BAR MEDAL works

- *Bargold* ensures wear tolerance and fast establishment
- *Viktorka* slender creeping red fescue increases shoot density and aesthetic appeal

In the bag

60% Bargold	Perennial ryegrass
40% Viktorka	Slender creeping red fescue

Sowing rate	20-35g per m ²	Oversowing rate	15-20g per m ²
Sowing depth	8-12mm	Mowing height	down to 2mm

BAR 6

Cricket outfield

BAR 6 is a fast establishing mixture with excellent wear tolerance and recovery with a fine appearance and excellent cleanness of cut for construction and renovation of cricket outfield.

Where to use BAR 6

- Cricket outfield
- Tennis courts with reduced playing time

What BAR 6 offers

- Fast establishment
- Good drought tolerance
- Excellent recovery
- Good sward density

In the bag

15% Barlennium	Perennial ryegrass
15% Bartwingo	Perennial ryegrass
30% Barprince	Slender creeping red fescue
35% Sergei	Strong creeping red fescue
5% Highland	Browntop bent

Sowing rate	25-35g per m ²	Oversowing rate	15-25g per m ²
Sowing depth	5-10mm	Mowing height	down to 7mm





BAR 7 RPR is the revolutionary regenerating ryegrass mixture.

BAR 7 RPR

BAR 7 RPR is the ultimate creeping ryegrass. Its faster establishment and recovery after wear is unrivalled.

This outstanding and innovative 100 percent perennial ryegrass blend is ideal for use on winter sports pitches.

Already a firm favourite of many Premier League clubs, this new improved 2013 formulation looks set to spread in more ways than one!

What BAR 7 RPR offers

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

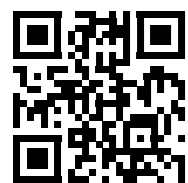
How BAR 7 RPR works

- Star cultivar *Barclay II* will provide improved wear tolerance and recovery, as well as better stability and tensile strength
- *Barorlando* is the new #1 ranked sports grass on Table S1 STRI/BSPB Turfgrass Seed 2013
- *Bareuro* offers exceptional recovery from wear, fusarium tolerance and cool temperature germination
- *Barillion* is a true, all-rounder across a spectrum of traits

In the bag

25%	Barclay II	Perennial ryegrass
25%	Bareuro	Perennial ryegrass
25%	Barillion	Perennial ryegrass
25%	Barorlando	Perennial ryegrass

Sowing rate	25-35g per m ²	Oversowing rate	15-25g per m ²
Sowing depth	12-15mm	Mowing height	down to 18mm



INSIGHTS

Delve beyond the bag to discover how and why our top mixtures are designed to perform.



BAR 7 RPR is an outstanding and innovative 100 percent perennial ryegrass blend predominantly for use on winter sports pitches.

Recent advances in breeding have resulted in the introduction of a distinctive new cultivar *Barclay II* (25 percent), otherwise known as **Regenerating Perennial Ryegrass** or simply **RPR**.

RPR is unique due to its creeping growth habit, made possible through the production of elongated tillers. These elongated tillers are growth shoots emerging from nodes at the base of each plant.

They creep horizontally just below the surface, and are capable of developing roots at the internodes, creating entirely new grass plants (see Figure 1 and 2).

RPR's creeping growth habit results in fast establishment, excellent wear tolerance, and unparalleled recovery capability (see Figure 3). More information about RPR research and development can be found in our dedicated **RPR FACTfile**, available on our website.



Figure 1: Barclay II's elongated tillers in action

New to BAR 7 RPR for 2013 is *Barorlando* (25 percent). It's a "standard" perennial ryegrass in the sense that it does not have creeping properties, but "standard" is hardly a suitable description for the new #1 ranked sports grass on Table S1 STRI/BSPB Turfgrass Seed 2013!

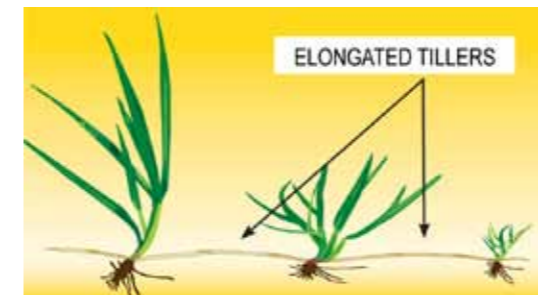


Figure 2: Barclay II's elongated tillers and subsequent formation of new plants

Incredibly, it scores highest on Table S1 for live ground cover, visual merit and shoot density, and has the joint highest visual merit score of any grass for any use in the UK! *Barorlando* also has superb tolerance to leaf spot and a vibrant mid-green colour.

Mixture synergy is enhanced further with the inclusion of *Bareuro* (25 percent) and *Barillion* (25 percent).

Bareuro offers exceptional recovery from wear, fusarium tolerance and cool temperature germination.

Barillion is a true, all-rounder across a spectrum of traits.

Already a firm favourite of many Premier League clubs, this new improved 2013 formulation looks set to spread in more ways than one!

Figure 3: RPR sown in rows to demonstrate its creeping recovery when compared with standard perennial ryegrass.





OUTSTANDING GRASS. ALL YEAR ROUND.



QUALITY AMENITY ANNUAL RYEGRASS, OFFERING YEAR ROUND CAPABILITIES.

BAR 50 SOS

Still delivering superb results. There may be imitations but SOS is **the** true amenity annual ryegrass available. BAR 50 SOS is a remarkable overseeding ryegrass blend providing superior germination and establishment in very cool soil temperatures (down to 3.5°C) for year-round sward cover, with excellent performance across a range of grass surfaces.

Where to use BAR 50 SOS

Football, rugby and sports pitches

- Perfect for in-season repairs for sports pitches
- Provides quality grass for summer renovation of sports pitches with extremely limited establishment windows

Racecourses

- Transition renovation and divotting

Golf

- Keep the course looking good in late autumn, winter and early spring by repairing divots and reinstatement of tees, fairway bottlenecks and walkways

Cricket

- Ideal for unseasonal repair of heavy wear areas of wicket ends and bowlers' run ups

How BAR 50 SOS works

- *Bardorado* offers a longer-term solution within the blend as a perennial ryegrass with excellent performance characteristics, wear tolerance and disease resistance. Rapid establishment at cooler soil temperatures for fast recovery from damage
- Faster establishment compared to all other 100 percent perennial ryegrass blends in all temperatures
- Germinates and grows at cool soil temperatures down to 3.5°C for sustaining winter pitch cover
- Helps rapid soil stabilisation

In the bag

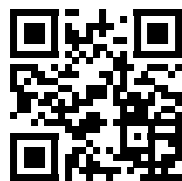
50% 4IR-1	Annual ryegrass
50% Bardorado	Perennial ryegrass

Sowing rate	30-45g per m ²	Oversowing rate	20-40g per m ²
Sowing depth	4-8mm	Mowing height	down to 20mm

Sowing rate 30-45g per m²

Germinates down to 3.5°C

Sowing depth 4-8mm



INSIGHTS

Delve beyond the bag to discover how and why our top mixtures are designed to perform.



BAR 50 SOS is a blend of 50 percent annual and 50 percent perennial ryegrass cultivars bred and chosen specifically to offer fast germination and growth, particularly at low temperatures.

The mixture is designed for quick renovation of sports and medium-fine turf, often in emergency situations at unseasonal times of the year.

Central to BAR 50 SOS' success is the inclusion of 4IR-1 annual ryegrass (*Lolium multiflorum*), bred by Barenbrug Research for its quick and superior establishment, cool soil temperature germination and amenity turf characteristics.

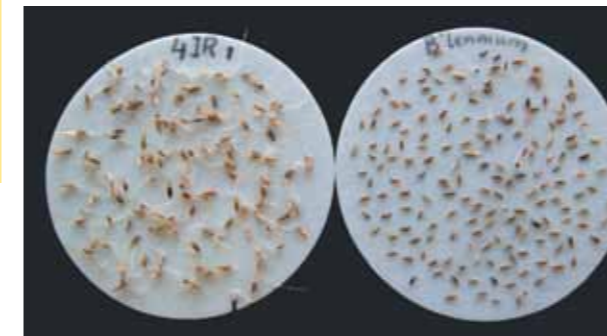


Figure 1: Demonstrating germination of 4IR-1 after 23 days at low temperature and non-germination of perennial ryegrass cultivar *Bardorado* in the same period.

In laboratory trials, 4IR-1 germinates in temperatures as low as 3.5°C, allowing repair of amenity surfaces regardless of playing season patterns or climate conditions. This compares to a minimum temperature of around 6-7°C for perennial cultivars. (See Figure 1)

Additionally, the cultivar **grows** actively at low temperatures, enabling a sward to recover well from winter wear. 4IR-1 also boasts a tufted annual growth habit, with mid-green leaf colour and a general appearance similar to the broader-leaved perennial ryegrass amenity cultivars (see Figure 2).

Bardorado perennial ryegrass has been specifically chosen as a partner to 4IR-1 in BAR 50 SOS. It also exhibits excellent low temperature germination (see Figure 3) and its perennial characteristics deliver a longer-term solution, increased wear tolerance and disease resistance to the blend.

Find out more about the breeding development and extensive trials of this mixture at by **downloading the FACTfile at www.bar50sos.co.uk**

Figure 2: Breeding succession of amenity annual ryegrass and comparison to 4IR-1.

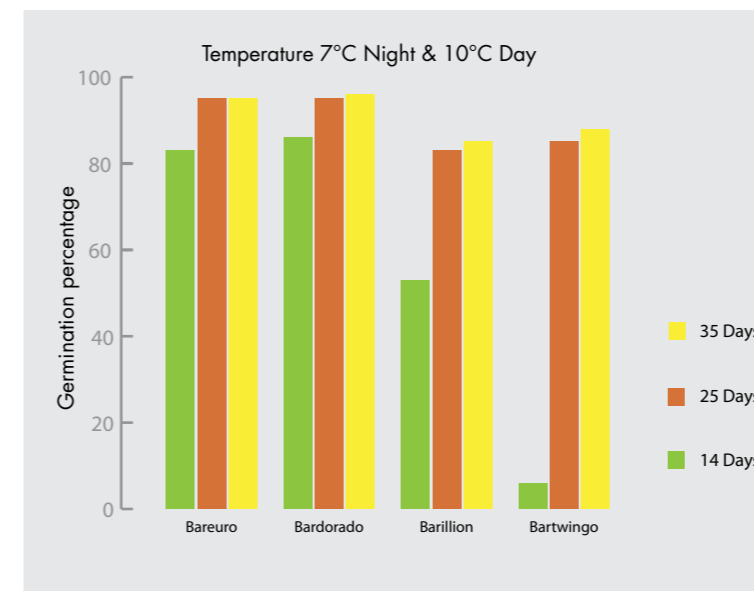
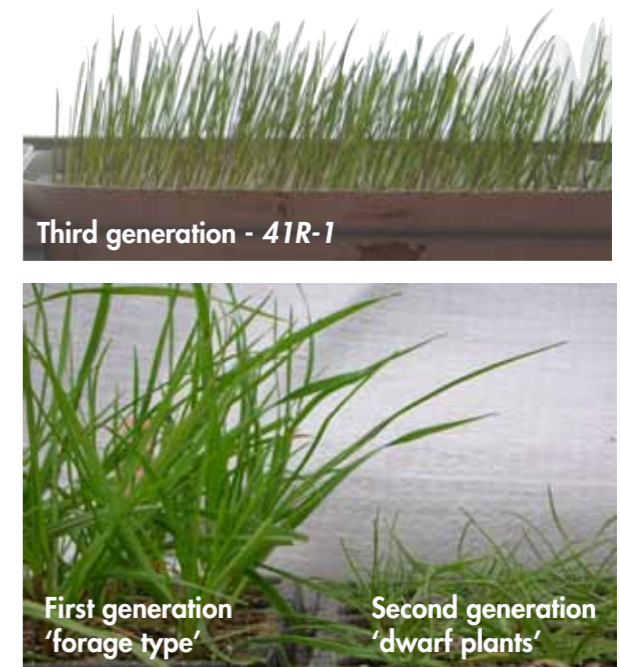


Figure 3: Temperature germination trials of perennial ryegrasses

FOOTBALL & RUGBY

Beautiful and functional.

Our mixtures are designed to look good and perform well under demanding conditions.



BAR 7

BAR 7 is Barenbrug's most popular product. It's trusted throughout the country to be used for renovating and repairing football, rugby, lacrosse, Gaelic football and sports fields.

What BAR 7 offers

- Excellent wear tolerance
- Fast recovery after wear
- Rapid establishment
- Superior tolerance to leaf spot
- Superb colour and cleanness of cut

Where to use BAR 7

- Renovation or overseeding of high wear football and rugby pitches

How BAR 7 works

- Synergy of five excellent cultivars producing a mixture better than the sum of its parts
- *Barlennium* included for its outstanding winter colour
- *Romance* has excellent tolerance to leaf spot disease
- Fantastic wear tolerance is provided by *Bareuro*

In the bag

25% Barlennium	Perennial ryegrass
20% Bardorado	Perennial ryegrass
20% Barillion	Perennial ryegrass
20% Romance	Perennial ryegrass
15% Bareuro	Perennial ryegrass

Sowing rate	25-35g per m ²	Oversowing rate	15-20g per m ²
Sowing depth	12-15mm	Mowing height	down to 18mm

BAR 9

BAR 9 has been designed to offer excellent wear tolerance with good sward density and improved drought tolerance for a wide range of sports pitches and playing fields.

What BAR 9 offers

- Good colour year round
- Improved drought tolerance

Where to use BAR 9

- Construction and renovation of free draining sports pitches and playing fields with reduced irrigation

How BAR 9 works

- Fast establishment with improved sward density
- Fescue included to offer rhizome production for recovery after wear
- *Barlennium* and *Bardorado* both offer superior drought tolerance in comparison to other perennial ryegrass cultivars

In the bag

40% Bardorado	Perennial ryegrass
40% Barlennium	Perennial ryegrass
20% Sergei	Strong creeping red fescue

Sowing rate	25-35g per m ²	Oversowing rate	20-25g per m ²
Sowing depth	6-15mm	Mowing height	down to 18mm

BAR 8

BAR 8 delivers outstanding wear tolerance, establishment and recovery.

Where to use BAR 8

- New construction of sports pitches with adequate renovation windows (minimum 12 weeks)

What BAR 8 offers

- Excellent wear tolerance
- Superior recovery and persistency once established due to inclusion of smooth-stalked meadowgrass
- Excellent year round colour
- Improved turf stability and traction
- Improved density at base of sward

In the bag

40% Bardorado	Perennial ryegrass
20% Barlennium	Perennial ryegrass
20% Romance	Perennial ryegrass
20% Miracle	Smooth-stalked meadowgrass

Sowing rate	25-35g per m ²	Oversowing rate	15-20g per m ²
Sowing depth	6-15mm	Mowing height	down to 18mm

BAR 10 RTF

BAR 10 RTF provides deep rooting capability, tolerant of both waterlogging and drought. Providing high tensile strength and excellent soil/rootzone stabilisation.

Where to use BAR 10 RTF

- Renovation and construction of rugby and football pitches where traction strength and drought tolerance are key requirements
- Sow at warmer soil temperatures, allowing three months (or 12 months for a new construction) for establishment

What BAR 10 RTF offers

- Excellent wear tolerance with added traction strength once established
- Superior tolerance of drought and waterlogging
- Improved winter growth

In the bag

20% Labarinth	Rhizomatous tall fescue
50% Barlexas II	Tall fescue
20% Barleroy	Tall fescue
10% Barlennium	Perennial ryegrass

Sowing rate	35-50g per m ²	Oversowing rate	25-30g per m ²
Sowing depth	15-25mm	Mowing height	down to 25mm



Explore the range online



Mixtures designed to meet the specific needs and demands of racecourses.

BAR SPRINT

BAR SPRINT has been specially designed for the particular performance, appearance and maintenance demands of racecourses and polo pitches.

It's been our best selling mixture for racecourses and has been admired by many since its launch in 2009.

What BAR SPRINT offers

- Hard wearing mixture
- Fast establishment and strong growth
- Superior spring growth and recovery
- Improved performance for higher mowing height of racing and polo turf

Where to use BAR SPRINT

- Specifically designed for construction, renovation and divotting of racecourses and polo pitches

How BAR SPRINT works

- BAR SPRINT has extremely fast establishment and strong growth for a more traditional appearance
- *Barminton* and *Bardorado* are included for their fast establishment capabilities in cool temperature
- *Bardorado* offers improved drought tolerance
- *Glen* has superior leaf spot tolerance

In the bag

40%	Bardorado	Perennial ryegrass
40%	Barminton	Perennial ryegrass
20%	Glen	Perennial ryegrass

Sowing rate	25-35g per m ²	Oversowing rate	15-20g per m ²
Sowing depth	15-20mm	Mowing height	down to 50mm



INSIGHTS

Delve beyond the bag to discover how and why our top mixtures are designed to perform.



BAR SPRINT is a 100 percent perennial ryegrass seed mixture specifically formulated to meet the needs of equestrian sports surfaces.

Fast establishment, strong and robust growth and superior recovery from wear are the key requirements when renovating or divotting turf on a racecourse or polo pitch.

A major difference between equestrian surfaces and other sports is the mowing height at which the sward is maintained. The STRI/BSPB Turfgrass Seed trials grasses at 4-7mm, 10-15mm and 25mm, which are of little practical use to racecourse grounds managers.

BAR SPRINT is designed with maintenance of 60mm+ height of cut, which allows broader-leaved and faster growing varieties to be utilised. See the photo below (Figure 1) of our new trial plots at our UK research site which is testing a variety of mixtures for racecourses.

Bardorado and *Barminton* are specifically chosen for their superior germination times at low temperatures and their wear tolerance.

In cool temperature trials (7°C night and 10°C day), both cultivars offer around 90 percent germination in a 14 day period (see Figure 2), enabling fast divot repair between race meetings from early spring to late autumn.

Glen is actually a forage perennial, but one with excellent sward density, leaf spot tolerance and persistency.

BAR SPRINT – fast, healthy and strong – a true thoroughbred of the racing world!

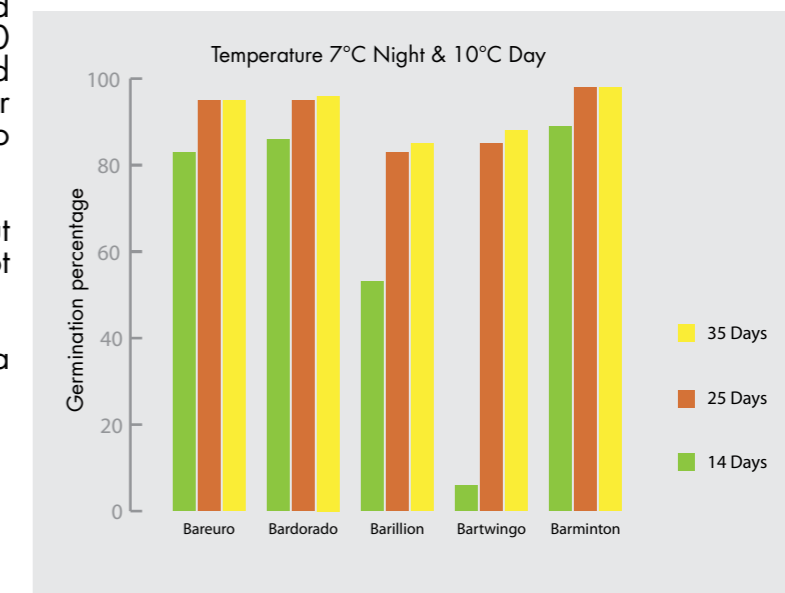


Figure 2: Temperature germination trials of *Bardorado* and *Barminton*



Figure 1: Our Cropvale Trial Site - Amenity plots

RACING & POLO



Other Barenbrug mixtures that are suitable for the demands of racecourses.

BAR EXTREME

BAR EXTREME offers superior fineness of leaf, high shoot density and cleanness of cut making it an ideal mixture for winners' enclosures and lawns.

Where to use BAR EXTREME

- Winners' enclosures and lawns

What BAR EXTREME offers

- Superior aesthetics
- Tolerates closer mowing
- Fast establishing
- High shoot density

How BAR EXTREME works

- Includes dwarf perennial ryegrasses which are far more tolerant of close mowing
- Improves tolerance to leaf spot disease

BAR 50 SOS

BAR 50 SOS is a remarkable overseeding ryegrass blend providing superior germination and establishment in very cool soil temperatures for year-round sward cover, with excellent performance across all types of grass surfaces.

A quality true amenity annual ryegrass offering year round capabilities.

What BAR 50S SOS offers

- Ideal 'get out of jail free card' growing very fast in winter, helping support other mixtures
- Suitable for transition renovation and divotting of racecourses

How BAR 50 SOS works

- Germinates and grows at cool soil temperatures down to 3.5°C for sustaining winter course cover
- Contains perennial ryegrass, *Bardorado*, offering a longer-term solution within the blend as it has excellent performance characteristics, wear tolerance and disease resistance



RACECOURSES

In the bag

40% Bargold	Perennial ryegrass
40% Fandango	Perennial ryegrass
20% Barsignum	Perennial ryegrass

In the bag

50% 4IR-1	Annual ryegrass
50% Bardorado	Perennial ryegrass

Sowing rate	25-35g per m ²	Oversowing rate	15-25g per m ²
Sowing depth	12-15mm	Mowing height	down to 10mm

Sowing rate	30-45g per m ²	Oversowing rate	30-45g per m ²
Sowing depth	4-8mm	Mowing height	down to 20mm



Explore the range online

Green by design

It's not easy being green. But, we've all got to start somewhere and choosing our Green by design range is a great start.

A range of specialist products designed to offer economical and environmental solutions for a range of applications.

BAR 10 RTF

Deep rooting capability, tolerant of both waterlogging and drought.

High tensile strength and excellent soil/rootzone stabilisation.

Where to use

- Construction of new sward requiring tolerance to waterlogging, drought or high wear



What it offers

- Awarded the prestigious Waterwise marque
- Tolerance to drought and waterlogging through its deep rooting capability
- Superior stabilisation
- Excellent wear tolerance once established

In the bag

20%	Labarinth	Rhizomatous tall fescue
50%	Barlexas II	Tall fescue
20%	Barleroy	Tall fescue
10%	Barlennium	Perennial ryegrass

Sowing rate	35-50g per m ²	Oversowing rate	25-30g per m ²
Sowing depth	15-25mm	Mowing height	down to 25mm

SHADE & WEAR

Where to use

- Construction of new sward requiring combined shade and wear tolerance

What it offers

- Superior combined shade and wear tolerance
- Outstanding shoot density
- Sow at warmer soil temperatures to allow optimum establishment of the tufted hairgrass and allow minimum of three months for establishment
- Includes *Barcampsia*, a tufted hairgrass shade tolerant species with hard wearing capabilities

In the bag

40%	Barcampsia	Tufted hairgrass
25%	Barlennium	Perennial ryegrass
20%	Bardorado	Perennial ryegrass
15%	Sergei	Strong creeping red fescue

Sowing rate	20-30g per m ²	Oversowing rate	15-20g per m ²
Sowing depth	4-6mm	Mowing height	down to 15mm

SALT & DROUGHT

A blend of perennial ryegrass and fine fescue species selected specifically for increased tolerance to both salt and drought conditions. See the new **FACTfile** on our website for information.

Where to use

- Construction or overseeding of road and path verges (subject to winter rock salt), or parks, and general landscape areas without irrigation or in coastal regions

What it offers

- *Barlennium* and *Hardtop* cultivars provide a dark green colour under parched conditions
- Exceptional shoot density through *Viktorka*, strong wear tolerance via *Bardorado* and *Barlennium*

In the bag

20%	Barlennium	Perennial ryegrass
20%	Bardorado	Perennial ryegrass
30%	Viktorka	Slender creeping red fescue
30%	Hardtop	Hard fescue

Sowing rate	30-40g per m ²	Oversowing rate	20-30g per m ²
Sowing depth	8-12mm	Mowing height	down to 10mm

BAR SHADE

Where to use

- Construction of new sward requiring superior performance for dry shaded areas
- Also suitable for golf tees in amongst trees

What it offers

- Superior shade tolerance
- Excellent drought tolerance
- Produces a dense sward
- Contains the unique tufted hairgrass cultivar, *Barcampsia*, a native of shaded woodlands and *Hardtop*, a hard fescue for superior drought tolerance

In the bag

50%	Barcampsia	Tufted hairgrass
30%	Barustic	Strong creeping red fescue
20%	Hardtop	Hard fescue

Sowing rate	25-35g per m ²	Oversowing rate	15-20g per m ²
Sowing depth	4-6mm	Mowing height	down to 8mm

BAR 40

BAR 40 is the ultimate low maintenance solution for ornamental landscaping and green roofs.

Where to use

- Construction of new sward requiring drought tolerance and/or low maintenance
- Municipal areas, green roofs and cemeteries

What it offers

- Significantly reduces mowing frequency (minimising cost and disturbance)
- Salt, limestone, chalk and drought tolerance
- Contains *Barkoel*, a unique crested hairgrass, bred from high trafficked areas of sand dunes

In the bag

40%	Barkoel	Crested hairgrass
30%	Barprince	Strong creeping red fescue
30%	Hardtop	Hard fescue

Sowing rate	25-35g per m ²	Oversowing rate	20-25g per m ²
Sowing depth	4-6mm	Mowing height	down to 6mm



Explore the range online

LANDSCAPE



Grass mixtures suitable for a wide range of landscaping.

BAR 13

BAR 13 is a diversity grassland mixture for conservation areas.

Where to use BAR 13

- Semi-natural grassland, conservation, parkland, naturalised and lower maintenance areas on a broad spectrum of soil types
- Recommended diversity mix for use with our new range of wildflowers suitable for golf courses. Three dedicated perennial mixtures are available with 100 percent wildflower species selected carefully to match the environments and soil types typical of **Parkland**, **Links** and **Heathland** golf courses. All wildflowers are UK provenance, enabling you to create a new haven for native wildlife. See **pages 18-19** for more information

What BAR 13 offers

- Creates a natural species-rich grassland
- Suitable for a wide range of soil types
- Excellent companion to wildflower sowing
- Species bio-diversity for conservation
- Wide range of seed heads and leaf morphology

BAR 11

BAR 11 is a reliable, fast establishing, hard-wearing mixture which provides rapid establishment with good wear tolerance.

Where to use BAR 11

- General landscaping - lawns, parks, housing and industrial developments
- Water surrounds
- Rapid stabilisation for embankments

What BAR 11 offers

- A reliable, no-nonsense fast green-up mixture
- Excellent stabilisation and recovery
- Good degree of drought tolerance
- A solid ryegrass:fescue blend delivering a good balance of wear tolerance and low maintenance

BAR 12

BAR 12 is a fescue:bent (non-ryegrass) mixture which will provide an attractive grass ideal for aesthetic reasons, giving a more luxurious look in lower maintenance areas not subject to high wear.

BAR 12 is an excellent, persistent mixture featuring good stabilisation and recovery characteristics.

Where to use BAR 12

- Suitable for ornamental lawns, embankments or general landscaping where an aesthetic look is needed

What BAR 12 offers

- Excellent stabilisation for embankments, once established
- Fine appearance
- Good degree of drought tolerance

In the bag

30%	Barustic	Strong creeping red fescue
15%	Miracle	Smooth-stalked meadowgrass
15%	Hardtop	Hard fescue
15%	Bargreen	Chewings fescue
10%	Bornito	Sheeps fescue
10%	Comer	Timothy
5%	Highland	Browntop bent

Sowing rate	25-30g per m ²	Oversowing rate	15-20g per m ²
Sowing depth	4-6mm	Mowing height	down to 25mm

In the bag

20%	Barrocky	Perennial ryegrass
20%	Barsandra	Perennial ryegrass
40%	Barustic	Strong creeping red fescue
20%	Bargreen	Chewings fescue

Sowing rate	25-35g per m ²	Oversowing rate	15-25g per m ²
Sowing depth	8-12mm	Mowing height	down to 12mm

In the bag

30%	Barustic	Strong creeping red fescue
30%	Reggae	Slender creeping red fescue
35%	Bargreen	Chewings fescue
5%	Highland	Browntop bent

Sowing rate	20-30g per m ²	Oversowing rate	20-30g per m ²
Sowing depth	4-6mm	Mowing height	down to 10mm



Explore the range online

WILDFLOWERS BARFLORA



A range of native British wildflowers mixed with 80 percent grass (excluding Barcolour).

The recreation and restoration of our countryside can only be accomplished with planning, patience and care.

Areas of wildflowers are becoming an increasingly important part of improving our environment. It's therefore important to choose the correct mixture for the situation. Please read our dedicated **Wildflower FACTfile, 'Guide to Sowing'** for more valuable information and advice.

Our most popular mixtures are shown on these pages, with the full range of wildflower mixtures on our website at www.barenbrug.co.uk/wildflowers

BarFlora 1 - Shade Meadow

This mixture is ideal for shady places, hedgerows, woodland glades. Sow in areas of light shade under deciduous trees and shrubs, hedge banks and north facing slopes. It's advisable to sow Barflora 1 in early spring to allow germination before canopy closes.

80% Low maintenance grasses for shade	20% of the following Flora blend	colour	
25% Chewings fescue	10% Agrimony	yellow	1% Meadow Cranesbill
10% Common bent	10% Black Knapweed	purple	3% Nettle Leaved Bellflower
30% Crested dogstail	1% Bush Vetch	blue	8% Red Campion
20% Slender creeping red fescue	8% Field Scabious	lilac	8% Self Heal
2% Sweet vernal grass	8% Foxglove	purple	3% Upright Hedge Parsley
4% Tufted hair grass	0.5% Greater Mullein	white	7% Wood Avens
1% Wood false brome	1% Greater Stitchwort	white	6% Wood Sage
8% Wood meadowgrass	4% Hairy St Johns Wort	yellow	2% Wood Vetch
	4% Hedge Bedstraw	yellow	4% Yarrow
	4% Hedge Garlic	white	2% Yellow Archangel
	5% Hedge Woundwort	red	
	0.5% Lords-and-Ladies	green	

Sowing rate 4g per m² (40kg/ha)

BarFlora 2 - Dry/Loamy

For loams and lighter alluvial soils, Barflora 2 contains interesting grasses and a comprehensive and colourful selection of native wild flowers that are found throughout lowland Britain.

80% Low maintenance grasses	20% of the following Flora blend	colour	
15% Chewings fescue	2% Birds-foot Trefoil	yellow	1% Harebell
10% Common bent	8% Black Knapweed	purple	3% Kidney Vetch
22% Crested dogstail	4% Bladder Campion	white	6% Lady's Bedstraw
25% Sheeps fescue	3% Bulbous Buttercup	yellow	6% Musk Mallow
20% Slender creeping red fescue	4% Common Agrimony	yellow	3% Oxeye Daisy
6% Small timothy	1% Common Century	pink	2% Rough Hawkbit
2% Sweet vernal grass	6% Common Evening Primrose	yellow	4% Salad Burnet
	1% Common Restharrow	pink	12% Self Heal
	3% Common St Johns Wort	yellow	8% Wild Carrot
	4% Common Toad Flax	yellow	6% Yarrow
	1% Cowslip	yellow	
	9% Field Scabious	lilac	
	3% Greater Knapweed	purple	

Sowing rate 4g per m² (40kg/ha)

BarFlora Meadow

Designed to perform well over a wide range of soils with a good range of native British biennial and perennial wild flowers. For extra colour in the year of sowing add a small amount of Barcolour - our annual native wildflower mixture.

80% Low maintenance grasses	20% of the following Flora blend	7%	Oxeye Daisy	white
25% Chewings fescue	4% Birds-foot Trefoil	8%	Ribwort Plantain	green
5% Common bent	6% Black Medick	12%	Salad Burnet	yellow
15% Crested dogstail	6% Black Knapweed	8%	Self Heal	purple
30% Sheeps fescue	4% Common St Johns Wort	4%	White Champion	white
25% Slender creeping red fescue	8% Common Vetch	4%	Wild Carrot	white
	12% Lady's Bedstraw	4%	Yarrow	white
	9% Meadow Buttercup			
	4% Musk Mallow			

Sowing rate 4g per m² (40kg/ha)

BarFlora 3 - Wet/Clay

Wildflower mixture designed for heavy clay soils prone to waterlogging.

Clay soils can present their own difficulties, warming up slowly in spring and drying out in summer. They can support a very diverse and interesting plant population that tends to be predominately summer flowering.

Prepare early autumn soil with a winter fallow period to allow frost to condition the soil, followed by spring sowing once soil temperature has risen.

80% Low maintenance grasses	20% of the following Flora blend	3%	Ragged Robin	red
20% Chewings fescue	8% Betony	4%	Red Clover (Native)	red
10% Common bent	5% Birds-foot Trefoil	9%	Ribwort Plantain	green
30% Crested dogstail	8% Black Knapweed	8%	Self Heal	purple
3% Meadow foxtail	10% Common Sorrel	6%	Teasel	
1% Quaking grass	2% Cowslip	4%	Tufted Vetch	purple
30% Slender creeping red fescue	1% Greater Mullein	4%	Yarrow	white
2% Sweet vernal grass	8% Lady's Bedstraw	6%	Yellow Rattle	yellow
4% Tufted hairgrass	7% Meadow Buttercup			
	4% Oxeye Daisy			
	3% Pepper Saxifrage			

Sowing rate 4g per m² (40kg/ha)

BarColour - Annual

British native wild flowers. Sow on its own or as a colourful supplement to perennial wildflower mixtures. Barcolour adds colour to spring sowings. To maintain colour and species differentiation re-seed each year.

100% Cornfield annual mix	
10% Corn Poppy	red
40% Corn Cockle	pink
20% Corn Flower	blue
15% White Campion	white
10% Corn Marigold	yellow
5% Corn Chamomile	white

Sowing rate 0.5-1g per m²

Discover the full range of wildflowers available online now.

A wide range of wildflowers is available, including:

- Grass and Native Wildflower mixtures
- 100 percent Native Wildflower mixtures
- Urban Wildflower mixtures



Visit www.barenbrug.co.uk/wildflowers or scan the code



TURF



We're proud to be TGA members and to support the UK turf industry.



Choosing the right cultivars for standard turf

Most of the turf crops grown in the UK consist of a blend of the following species. We offer some suggestions for cultivars particularly suited to turf growing:

Lolium perenne - perennial ryegrass

BARGOLD

An exceptional cultivar with a very fine leaf and excellent leaf spot tolerance. It has superior cool temperature germination ensuring fast establishment, but is not overly aggressive in the sward. This means it blends very well with red fescue and produces a consistent turf with strong correlation with its proportion within the seed mixture.

BARDORADO

A good option for a broader-leafed look and a very hard-wearing turf. *Bardorado* also has exceptional drought and salt tolerance.

Festuca rubra trichophylla – slender creeping red fescue

VIKTORKA

The #1-ranked slender creeper in the UK. *Viktorka* has outstanding shoot density, red thread tolerance and early spring green-up. Also possesses good tolerance to glyphosate.

BARCROWN

A long-standing favourite with exceptional shoot density. *Barcrown* is the #1 ranked slender creeper for red thread tolerance.

Festuca rubra commutata – Chewings red fescue

BARGREEN II

Fantastic cultivar with exceptional shoot density and tolerance to close mowing. *Bargreen II* also has superior disease resistance against dollar spot.

BARSWING

An excellent cultivar with high shoot density and fast cool temperature germination. *Barswing* is also the #1 rated Chewings red fescue for red thread tolerance.

Festuca rubra rubra – strong creeping red fescue

BOSSANOVA

A high quality variety with excellent colour and good red thread tolerance.

SERGEI

A high quality variety with good red thread tolerance.

Poa pratensis – smooth-stalked meadowgrass

BARHELENE

Excellent variety with good shoot density and fine-leafed. *Barhelene* also shows exceptional speed of establishment in cool soil temperatures for the species.

BAR GT

A glyphosate tolerant grass seed mixture which produces a fine, hard wearing sward.

What BAR GT offers

- A mixture of glyphosate tolerant perennial ryegrass and red fescue to help out-compete *Poa annua* ingress
- Fast establishment combined with fine appearance

How BAR GT works

- Designed to help you produce a clean, *Poa* free turf
- Glyphosate tolerant (See the **BAR GT FACTfile** for more technical information)
- Rhizomatous red fescue offers additional stabilisation just below the surface

In the bag

50%	ER2703	Perennial ryegrass
50%	Viktorka	Slender creeping red fescue

Sowing depth	4-6mm	Mowing height	down to 12mm
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BAR 10 RTF

Deep rooting capability, tolerant of both waterlogging and drought. High tensile strength and excellent soil/rootzone stabilisation.



Where to use BAR 10 RTF

- Areas requiring tolerance to waterlogging, drought or high wear

What BAR 10 RTF offers

- Awarded the prestigious Waterwise marque
- Tolerance to drought and waterlogging through its deep rooting capability
- Superior stabilisation
- Excellent wear tolerance once established

In the bag

20%	Labarinth	Rhizomatous tall fescue
50%	Barlexas II	Tall fescue
20%	Barleroy	Tall fescue
10%	Barlennium	Perennial ryegrass

Sowing depth	12-15mm	Mowing height	down to 25mm
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Green
by design

TURF GRASS IDENTIFICATION

Characteristics of common turf grass species.



SOWING RATES

SOWING AND SEEDING RATES

Sowing rates - Kilogrammes (kg) required at the following seeding rates				Area covered, per 20kg bag, at the following seeding rates		Seeding rates for larger landscaped areas			
Standard areas	5g/m ²	20g/m ²	35g/m ²	Seed rates (per 20kg bag)	Coverage given m ²	Seed rates g/m ²	Kg per hectare req	Kg per acre req	
Football	4,050m ²	-	80	150	5g/m ²	4,000m ²	15	150	60
Football	10,800m ²	-	225	375	10g/m ²	2,000m ²	20	200	80
Rugby	6,900m ²	-	150	225	15g/m ²	1,333m ²	25	250	100
Tennis	262m ²	-	5.5	10	20g/m ²	1,000m ²	30	300	120
Cricket	520m ²	-	10.5	18	25g/m ²	800m ²	35	350	140
Bowls	1,600m ²	8	32	56	30g/m ²	666m ²			
Golf	500m ²	2.5	10	17.5	35g/m ²	571m ²			

GUIDE TO SPECIES CHARACTERISTICS

SOIL CONDITIONS

MAINTENANCE

Species	Seeds per gram	Optimal pH range	Humidity	Salt tolerance	Maintenance level required	Fast establishment	Rhizomes/Stolens/Tufted	Shade tolerance	Nitrogen requirement	Water requirement	Thatch build-up
<i>Agrostis capillaris</i> Brown top 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 fescue	1,000	5.5 - 6.8	low	weak	low	average	T	good	low	low/medium	high
<i>Festuca rubra trichophylla</i> Slender creeping red fescue	1,000	5.5 - 6.8	low	good	low	average	R	good	low	low	high
<i>Festuca ovina tenuifolia</i> Sheeps fescue	2,000	4.5 - 5.8	very low	weak	very low	average	T	average	very low	low/very low	low
<i>Festuca ovina duriuscula</i> Hard fescue	2,000	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



PERENNIAL RYEGRASS
Lolium perenne



SMOOTHSTALKED MEADOWGRASS
Poa pratensis



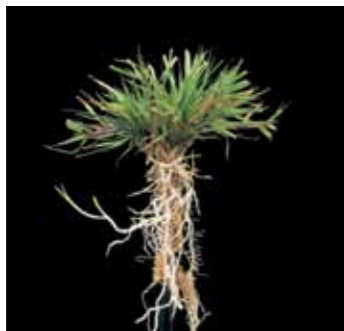
SLENDER CREEPING RED FESCUE
Festuca rubra trichophylla



STRONG CREEPING RED FESCUE
Festuca rubra rubra



CHEWINGS FESCUE
Festuca rubra commutata



BROWNTOP BENT
Agrostis capillaris



CREEPING BENT
Agrostis stolonifera



HARD FESCUE
Festuca ovina spp.



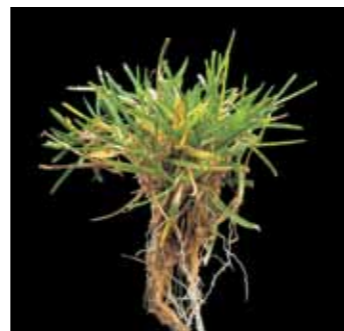
TALL FESCUE
Festuca arundinacea



TUFTED HAIRGRASS
Deschampsia caespitosa



CRESTED HAIRGRASS
Koeleria macrantha



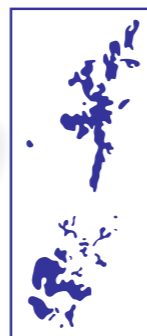
ANNUAL MEADOWGRASS
Poa annua

BARENBRUG TECHNICAL TEAM

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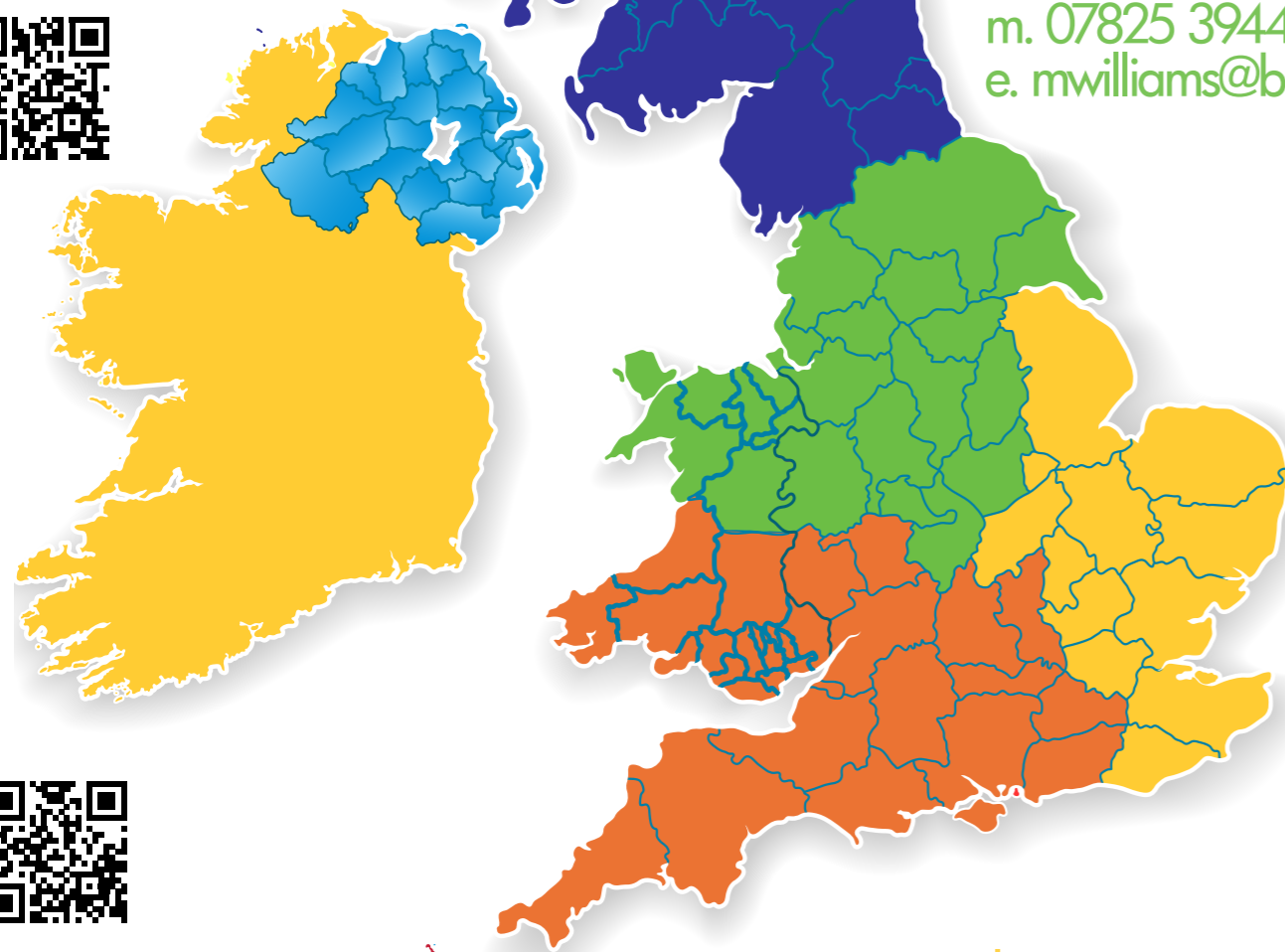
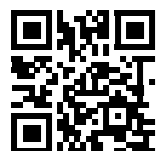
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Conditions of Sale

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 label 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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