

RPR Sport

Football & Rugby, Stadium environments

Usage

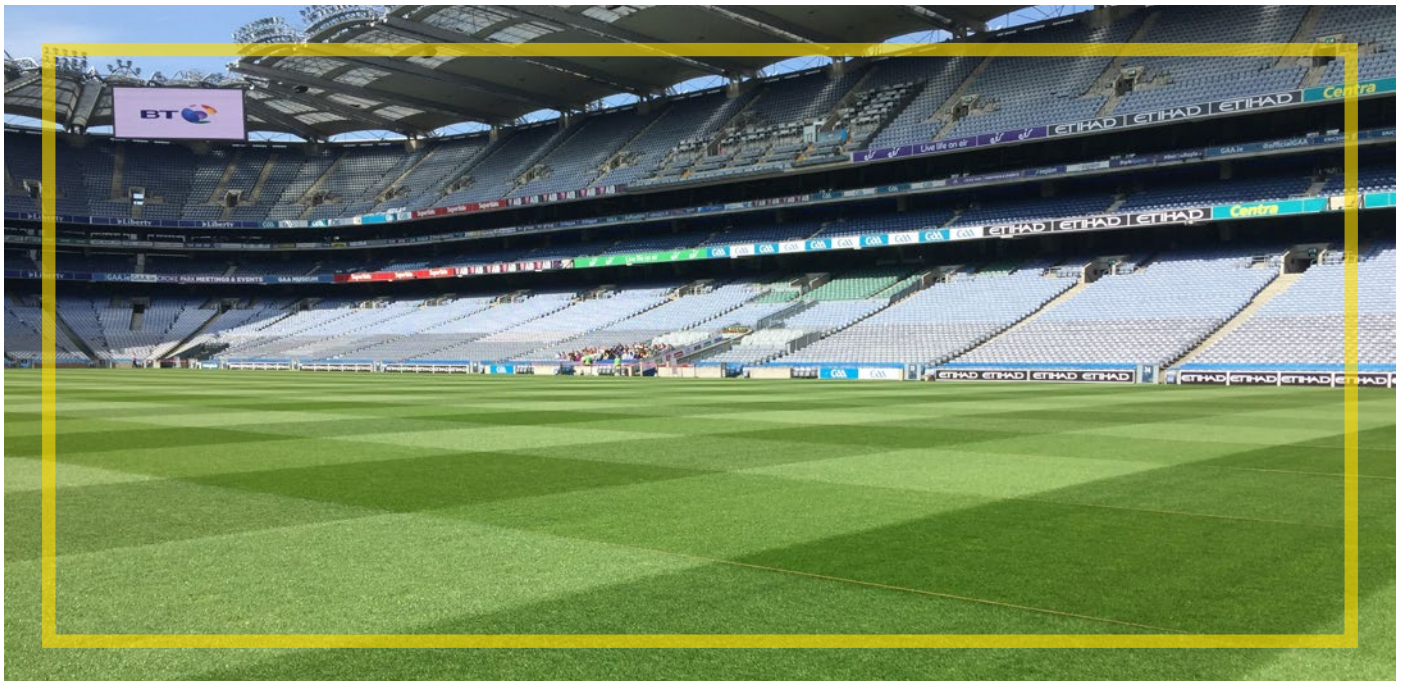
Renovation and/or construction of winter sports pitches

Key points

- Mixture formulated from dedicated UK Cropvale wear trials with objective DIA scoring; wear tolerance with other benefits.
- *Barlibro* RPR delivers fast establishment and unparalleled capacity for recovery from wear due to stoloniferous growth habit.
- *Barcristalla* and *Barorlando* give superior colour and *Drechslera* leaf spot tolerance.

Species Formulation

100% perennial ryegrass



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

Four years of dedicated wear trials at our research station Cropvale in Worcestershire, together with close analysis of BSPB Turfgrass Seed and the official French list as well as data from our breeding stations across the globe has delivered a blend focussed on four key traits for high performance pitches – wear tolerance, dark genetic colour, (*Drechslera*) disease tolerance and recovery.

The wear trials at Cropvale are run annually in line with the football season and are assessed via an objective method called Digital Image Analysis (DIA). A camera box takes images of trial plots on a monthly basis and DIA enables the production of extremely accurate data on both wear tolerance and genetic colour for both cultivars and critically, mixture formulations. Figure 1 summarises the process.

BSPB/STRI Turfgrass Seed 2019 data supports the Cropvale Research. *Barcristalla* and *Barorlando* are ranked #6 and #9, respectively, for mean performance under wear and #1 and #2 for autumn colour (in the top-70 varieties). Figure 2 illustrates this point. The two yellow dots are *Barcristalla* and *Barorlando*; both exhibit an excellent combination of colour and performance.

Baribro is a Regenerating Perennial Ryegrass (RPR) that produces stolons as it establishes and grows. Figure 3 shows a *Barlibro* plant grown from a single seed at 15 months old. The stolons and new secondary branches of growth can be seen clearly. The lateral growth habit results in fast establishment between seeding lines and unparalleled capacity for recovery after and during wear.

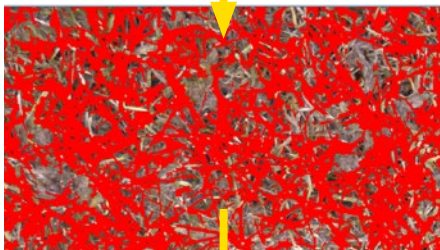
IN THE BAG

40%	BARCRISTALLA Perennial ryegrass
30%	BARLIBRO RPR
30%	BARORLANDO Perennial ryegrass

Sowing rate:	30-50g per m ²
Overseeding rate:	15-30g per m ²
Sowing depth:	10-15mm
Mowing height:	Down to 18mm
Pack size:	20kg

RPR Sport

Football & Rugby, Stadium environments



A	B	C	D
IMAGE	TOTAL PIXELS	SELECTED PIXELS	%COVER
U:\Trials &	15925248	10027905	62.9686

TREATMENT	Wear Performance
<i>Barorlando</i>	7.60
<i>RPRn2</i>	7.52
<i>Barlibro</i>	7.49
<i>RPRn1</i>	7.48
<i>Barcristalla</i>	7.39
<i>Barolympic</i>	7.39
<i>BAR 7 RPR 2013</i>	7.24
<i>Bartrace</i>	7.24
<i>BAR 7</i>	7.18
<i>Barlicum</i>	7.03
<i>Barclay II</i>	6.98
<i>Bareuro</i>	6.85
<i>Bardorado</i>	6.75
<i>Barbeta</i>	6.67
<i>Barlennium</i>	6.56
<i>Bartwingo</i>	6.49
<i>Baralpha</i>	6.17
<i>Barrage</i>	5.97
LSD 0.05	0.26

TREATMENT	Dark Green Colour Index (October 2013)	Significance
<i>Barlennium</i>	0.4953	a
<i>Barorlando</i>	0.4787	b
<i>Barcristalla</i>	0.4777	b
<i>RPRn2</i>	0.4733	c
11RACR5	0.4720	cd
<i>Barbeta</i>	0.4693	de
<i>BAR 7</i>	0.4671	e
<i>Barrage</i>	0.4669	e
<i>RPRn1</i>	0.4666	e
<i>Barlibro</i>	0.4661	e
<i>Barclay II</i>	0.4618	f
<i>BAR 7 RPR 2013</i>	0.4612	f
<i>Bardorado</i>	0.4588	f
<i>Baralpha</i>	0.4488	g
<i>Bartwingo</i>	0.4488	g
<i>Bareuro</i>	0.4366	h
<i>Barlicum</i>	0.4365	h
<i>Barolympic</i>	0.4362	h
LSD 0.05	0.0035	

Figure 1 Digital Image Analysis (DIA) process. Data tables.

BSPB/STRI Turfgrass Seed 2019 Table S1 Mean Performance versus Colour

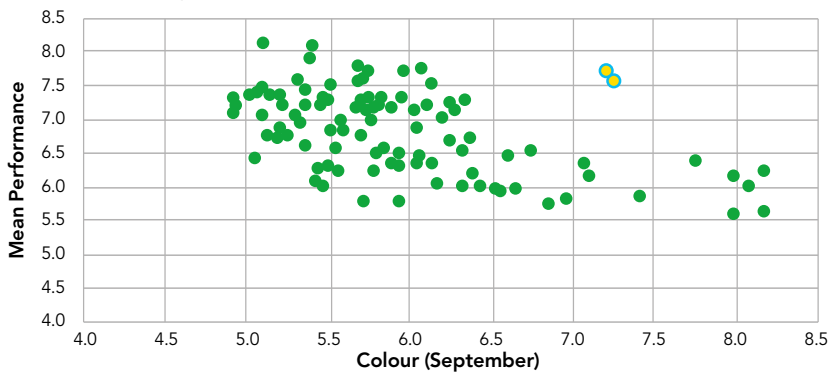


Figure 2 Graph of performance versus colour of all perennial ryegrasses listed in Table S1, Turfgrass Seed 2019. *Barcristalla* and *Barorlando* (yellow) show the best compromise between these two traits.



Figure 3 Photographs of a 15-month old *Barlibro* plant grown from a single seed.