

# Revolutionary technology: regenerating and the highest wear tolerance, even under close mowing regime.

# RPR technology inside!



RPR is a self-regenerating perennial ryegrass building determinate stolons. RPR is the first perennial ryegrass variety having this particular characteristic. RPR stands up

to heavy traffic while keeping its good looks. As a creeping perennial ryegrass, RPR outperforms traditional perennial ryegrass resulting in a regenerating perennial ryegrass with the highest wear tolerance and close mowing tolerance that is ideal for use in sports pitches and, when combined with fine-leaved perennial ryegrass, also for fairways and tees.

The use of golf tees and fairways is steadily intensifying, resulting in greater damage. As standard tee and fairway mixes do not have the particular characteristic of regeneration, recovery will take too slowly. RPR does regenerate, creating strong tees and fairways that establish fast. Enhancing tee and fairway mixes with RPR technology leads to the combined advantages of speed and a strong sward with less damage and less risk of annual meadow grass establishing in the sward. Both mixes can be mown to 10 mm.

**Bar Extreme RPR** is a 100 % fine-leaved perennial ryegrass mix enhanced with RPR technology, characterised by extremely fast growth and great strength. It is most suitable for overseeding.

Bar Intensive RPR is a tee and fairway mix consisting of red fescue and fine-leaved perennial ryegrass enhanced with RPR technology. The red fescue gives this strong mix a high resistance to diseases and results in an extremely dense sward. Bar Intensive RPR can be used for both seeding and overseeding.





# Golf courses that are as strong as iron

Determinate stolons, sometimes called "runners", are growth shoots emerging from auxiliary buds ate the base of each plant. When an RPR plant gets room when turf is damaged, determinate stolons will grow horizontally into the empty area and develop roots at its internodes. In fact RPR gives a natural network of stolons, like a kind of netting. This gives RPR the highest wear tolerance. Instead of separate plants, like traditional perennial rye grass, each RPR plant connects to other plants and into the top layer of the soil. The stolons in RPR form a natural network of horizontal shoots: a kind of netting in the sward that makes for excellent wear tolerance. Whereas a sward of traditional perennial ryegrass consists of individual grass plants, the grass plants of RPR are all linked to other plants and to the soil.

Thanks to the RPR technology, no turf will be easily kicked out by golf clubs, The turf quality also remains high, even under the heaviest duty and after being struck with great force. Tees and fairways consequently retain a dense sward on which golf can be played more intensively without divots.



# A yearround dense sward

RPR brings strength and speed together in one specie. This has the advantage that all characteristics within the mixture are used at the same time. The grass plants quickly germinate and can be intensively used after the establishment of a a dense sward that is suitable for golfing. Traditionally, strong species that are used for tees and fairways, such as smooth meadow grass (Poa pratensis), germinate more slowly than perennial ryegrass (Lolium perenne). In order to compensate this in many turf grass mixtures smooth meadow grass is combined with a faster perennial ryegrass. Despite the fast germination and establishment in these mixtures The wear tolerance of the tee or fairway will be insufficient. RPR technology enhances tee and fairway mixes by combining firmness and strength with speed of establishment and creating a sward that will remain dense throughout the year. And this results into the advantage that more rounds of golf can be played on an annual basis.



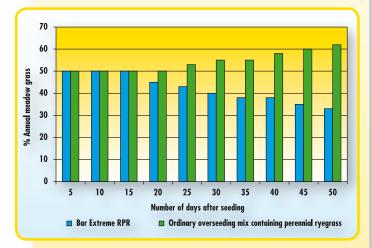
Here you see that a tussock of RPR has in one year's time acquired a circumference that is more than 50 % larger than that of common perennial ryegrass.

The following table shows the difference in effective growth between the new Bar Intensive RPR mix and Bar Fairway (containing smooth meadow grass). The RPR leads to earlier spring growth, resulting in golf courses that can be used earlier in the year too.

Bar Intensive RPR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Bar Fairway	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	

# Preventing annual meadow grass

RPR is as strong as smooth meadow grass but establishes faster. This reduces the risk of the ingression of the undesired annual meadow grass (Poa annua) in your tee or fairway. And the advantage of this is a denser, better-rooting sward that needs less fertilizers and water. Trials have shown that the use of the new Bar Extreme RPR mix can decrease the growth of annual meadow grass by up to 20 % within two months after seeding (see the table).



Source: Barenbrug Research

Closer mowing isn't a problem for RPR either. Thanks to its combination with fine-leaved perennial ryegrasses the grass can be mown to 10 mm without in any way affecting the strength and regenerating capacity of the RPR.

# Specifications of the RPR technology

#### Morphological characteristics

Growth habit perennial

with determinate stolons

Grass height 35 mm

Leaf width similar to traditional

Leaf colourmid greenRooting depth20 - 25 cmSeeds per gram700Resistance to diseasesgoodRisk of felt formationvery lowRate of establishmenthighGrowth ratehigh

#### **Ambient conditions**

pH 5.0 - 7.5 Soil type any Wear tolerance excellent Shade tolerance good

Germination temperature from 12 °C (soil temperature)

Establishment

#### Maintenance conditions

General maintenance

requirement average

Mowing height from 10 mm

Mowing frequency average

Water requirement average

Nitrogen requirement average

#### Seeding

 $\begin{array}{lll} \text{Seeding amount} & 20 - 25 \text{ g/m}^2 \\ \text{Overseeding amount} & 15 - 20 \text{ g/m}^2 \\ \end{array}$ 

Sowing depth no deeper than 15 mm

Package contents 15 kg



Perennial Ryegrass

# **Bar Intensive RPR**

Golf courses that are as strong as iron with a very dense sward









- Denser sward.
- High disease resistance.
- Suitable for seeding and overseeding.
- Less damage due to regenerating capacity.
- Higher playing intensity allowed.
- Green all year round.

#### Composition

RPR	25 %
Fine-leaved perennial ryegrass	25 %
Common red fescue	25 %
Red fescue with fine stolons	25 %



### **Specifications**

- Establishment rate: high Fertiliser requirement: normal
- Growth rate: high Sowing density: 20 25 g/m<sup>2</sup>
- Mowing height: from 10 mm 15 kg package

## **Bar Extreme RPR**

Golf courses that are as strong as iron and establish extremely fast





BARENBRUG

- Very fast establishment .
- Less annual meadow grass (Poa annua) ingression.
- Most suitable for overseeding.
- Less damage due to regenerating capacity.
- Higher playing intensity allowed
- Green all year round.



#### Composition

RPR 35 % Fine-leaved perennial ryegrass 65 %

### **Specifications**

- Establishment rate: very high Fertiliser requirement: high
- Growth rate: very high Sowing density: 20 25 g/m²
- Mowing height: from 10 mm 15 kg package

"Some things you have to see with your own eyes to believe them. Creeping perennial ryegrass was one of those things for me – I am now a believer. Combining a creeping growth habit with the inherent capability to establish quickly and tolerate wear has the potential to take this grass species to a new level."

Andy Newell,

Head of Turfgrass Biology, STRI.

"We used RPR to rebuild a tee box last year and loved it. We have put a plan into place to overseed all our tees with RPR because of its great performance."

#### Gary Lindsey,

Superintendent Vermillion Fairways Golf Course, Cook, Minnesota, USA.





BARENBRUG Bar Extreme RPR

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### RPR technology inside!

RPR creates regenerating tees and fairways with the highest wear tolerance. RPR offers various practical advantages, such as:

RPR makes tees and fairways that are as strong as iron.

RPR quickly gives a dense sward.

RPRX reduces ingression of annual meadow grass (Poa annua).

RPRX allows more rounds of golf a year.

RPRX gives better turf quality.

RPRX has low weed ingression.



Great in Grass