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## Turf Genius® Self Repairing PR Mixture

Improve your property with SRPR

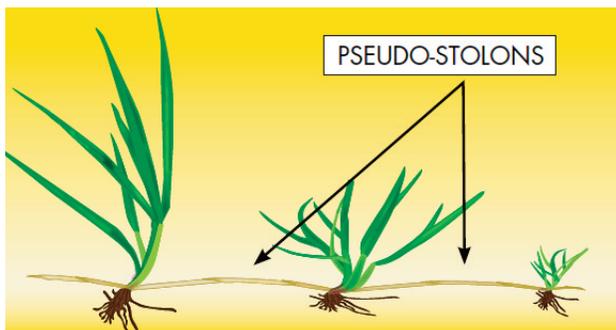
Barenbrug's innovative research and development has produced a new star; a tough perennial ryegrass. Regenerating Perennial Ryegrass, or SRPR, stands up to heavy traffic while keeping its good looks.

A creeping perennial ryegrass, SRPR outperforms traditional perennial ryegrass. It's also more resilient and weather tolerant. Because SRPR is chosen for top professional sports venues, it could be an ideal choice for sports field, golf course, lawn or landscape.

Spear Seeds has taken the top SRPR and added our own top proven Perennial Ryegrass to make our mixture, Turf Genius® Self Repairing PR Mixture, even more successful and better suited for the Canadian climate.

### Pseudo-stolons

Pseudo-stolons, sometimes called "runners," are growth shoots emerging from auxiliary buds at the base of each plant. When an SRPR plant gets room, for example, when a divot is removed or the turf is otherwise damaged, pseudo-stolons will grow horizontally into the empty area and develop roots at its internodes. See the photos below, showing SRPR plants, pseudo-stolons and the developed roots.



### Exhaustive Research – Remarkable Results

It is SRPR's regenerating ability that separates it from traditional perennial ryegrass. A product of advanced conventional breeding techniques, SRPR plants develop pseudo-stolons, which allow them to regenerate in all compass directions. Pseudo-stolons arise from an auxiliary bud near the base of the mother plant and then grow horizontally at, or just below, the surface of the ground, creating identical new plants as they grow. SRPR got the attention of plant breeders at the Barenbrug research site in Virginia where new grasses are developed for wear, drought and cold tolerance.

Researchers noticed that SRPR was thriving under tough conditions, expanding even in high stress areas, for example, where the tractor made turns at the ends of rows towing the wear simulator equipment.

Next, SRPR was tested at Barenbrug's research fields in Oregon. Plant breeders studied the lateral growth of SRPR under frequent mowing when the plants were spaceplanted.

## Below, the graph shows how SRPR spreads compared to an average perennial ryegrass plant.

Notice in the graph how, on two recording dates, SRPR was much larger than a typical perennial ryegrass. At the later date, the circumference of the SRPR plant was 33 inches compared to perennial ryegrass, measuring 24 inches. The difference gives a 25 percent edge to SRPR.

Within a year, the SRPR plants were well rooted and had spread to three feet wide.

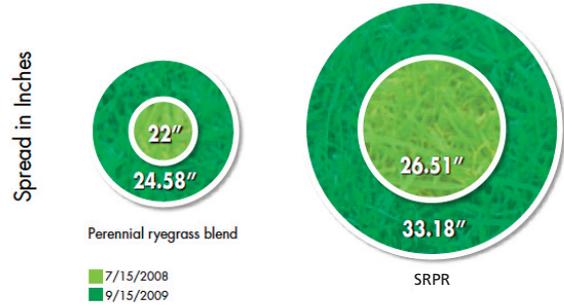
Barenbrug extensively tests all its varieties and SRPR is no exception. It has exceeded the company's most stringent quality requirements for wear tolerance, drought tolerance and turf quality.

## SRPR exhibits unrivaled wear tolerance

SRPR performance has been tested intensively at different research universities where it was analyzed for fundamental characteristics including wear tolerance. The results: SRPR is vastly superior on wear tolerance compared to any other perennial ryegrass. The turf quality also remains high, even under the heavy wear.

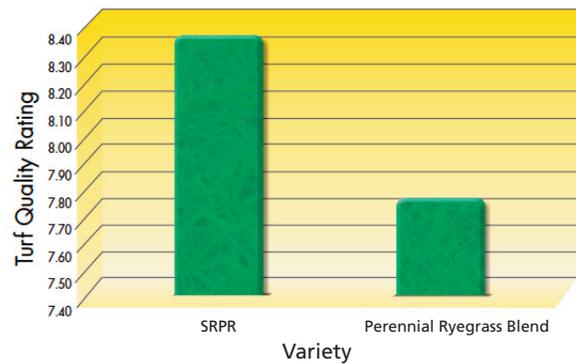
At The Ohio State University, research plots were rigorously subjected to artificial traffic. In the graph to the right, you can see the dramatic increase in tolerance from SRPR.

## CIRCUMFERENCE OF SPACE PLANTS



SRPR spread measured in cm compared to an average of three popular perennial ryegrasses.

## INTENSE TRAFFIC TOLERANCE - THE OHIO STATE UNIVERSITY



The graph above shows the average of the two SRPR varieties compared to a perennial ryegrass blend after three days of intense traffic. Recorded in September 2008. Data from the Ohio State University, P.J. Sherratt, John R. Street and A. Drake.

## BENEFITS of Turf Genius® Self Repairing PR Mixture

- Perennial ryegrass with pseudo-stolons
- Number one in wear tolerance
- Deep green colour
- Number one in intense wear tolerance such as tournaments
- Contains a high amount of endophytes that:
  - Increase disease resistance
  - Increase insect resistance
- Makes your field look and perform better
- Makes you look good