



STOVER SEED®

Teaming confidence with nature since 1922

*** IMPROVED GERMINATION AND ESTABLISHMENT**
*** IDEAL FOR LATE SEASON PLANTING**

Technical Data and Information Product Sheet

GRAND SLAM FS™ Fast and Spreading Perennial Ryegrass Blend

DESCRIPTION

Perennial ryegrasses are very competitive cool season grasses that grow in a wide range of climates. It does best in full sun but will tolerate light shade. Desirable traits of perennial ryegrass are high wear tolerance and rapid establishment making it popular for sportsfields, playgrounds and parks. Grand Slam FS is a blend of three newly developed perennial ryegrass varieties that have shown exceptional tillering growth that produces a turf of greater density and traffic resistance. *These grasses also show improved germination vigor and establishment* as well as resistance to gray spot and other diseases. These varieties also have shown to produce excellent turf quality.

CHARACTERISTICS

Features

- Rapid tillering, spreading growth habit
- Fine texture & high density
- Excellent seedling vigor
- Gray leaf spot resistance
- Better heat and drought tolerance
- Endophyte enhanced
- Improved mowability

Benefits

- Excellent wear tolerance and recovery
- Low poa invasion
- Fast establishment
- Less susceptible to warm weather disease
- Improved summer performance
- Improved insect and disease tolerance
- Reduced shredding during mowing

USES

Grand Slam FS is a natural for sportsfields and high traffic areas such as:

- * Golf Courses
- * Playgrounds
- * Parks
- * Sportsfields
- * Sod Production
- * Lawns

SEEDING RATES

New turf: 10 pounds per 1,000 square feet or 400 pounds per acre.

Overseeding existing turf: 6 to 10 pounds per 1,000 square feet or 250-400 pounds per acre.

ESTABLISHMENT

Emergence: 3-5 days under optimum temperature range between 68-86 degrees, longer under cooler temperatures.

First mowing approximately 14 days after emergence (may be longer under cooler temperatures).

First limited use approximately 21 days after emergence.

SPECIFICATIONS

GRAND SLAM FS™ PERENNIAL RYEGRASS BLEND

- | | |
|------------------------------------|---------------------------|
| 34% Zoom Perennial Ryegrass | 98% Minimum purity |
| 35% Sideways Perennial Ryegrass | 90% Minimum germination |
| 30% Stellar 3GL Perennial Ryegrass | 230,000 seeds per pound |
| | Origin: Oregon/Washington |

Varieties listed are protected under the US Plant Variety Protection Act. GRAND SLAM FS™ is a registered trademark of Stover Seed Company.



STOVER SEED®

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Water Requirements

Frequent, light watering is necessary for seed to germinate and become established. Perennial Ryegrass is a cool season (C3) grass. Once the grass becomes established it has the ability to withstand summer drought conditions under reduced irrigation schedules. For landscape professionals that use irrigation systems and calculations, perennial ryegrass can be irrigated at 80% of average ET₀ (Reference Evotranspiration) rates. Specific information on Turfgrass irrigation schedules and ET rates can be found at <http://ucanr.edu/sites/UrbanHort/> and at <http://ag.arizona.edu/pubs/water/az1195.pdf> and <http://anrcatalog.ucdavis.edu/pdf/8395.pdf> General irrigation guidelines dictate that turf should be watered in early morning hours and that about 3/4 of an inch of water should be applied but not to the point of runoff.

Climate Conditions

Perennial Ryegrass is suitable to all climate conditions. Water usage is lowest in coastal climates with highest use in desert regions. Once it becomes established it can withstand periods of increased heat and drought.

Soil Conditions

Perennial Ryegrass prefers well drained soil (clay or sandy) with a pH of 5.5 to 8.5.

Fertilization

Use of a starter fertilizer when seeding is highly recommended. After establishment fertilize during periods of active growth in Spring and Fall with a balanced fertilizer. Avoid using products with a high nitrogen (N) content as such use increases water use. Apply no more than 4 pounds of N per 1,000 square feet per year.

Mowing

Ideal mowing height is between 1.5 and 2.5 inches. Higher mowing heights are recommended in summer to reduce heat and drought stress. Never mow more than 1/3 off of the height at one time.

TEST DATA

2010 National Perennial Ryegrass Test
TURFGRASS QUALITY Ratings
 of Perennial Ryegrass Cultivars (LPI Group 1)
 2012 Data, 1-9, 9=ideal turf

Name	Mean Score
Wicked	6.5
Pangea GLR	6.3
Sideways	6.0
Palmer V	5.8
SR 4650	5.7
Manhattan 6 GLR	5.6
Mach I	5.5
Pinnacle	4.9
Linn	3.5
LSD Value	0.8

2010 National Perennial Ryegrass Test
WEAR TOLERANCE Ratings
 of Perennial Ryegrass Cultivars (Amherst, MA)
 2012 Data, 1-9, 9=maximum tolerance

Name	Mean Score
Wicked	6.3
SR4650	6.2
Manhattan 6 GLR	5.8
Palmer V	5.7
Sideways	5.5
Pangea GLR	5.5
Brightstar SLT	5.3
Pinnacle	5.3
Linn	3.8
LSD Value	1.0

First and last scores are listed. To determine whether a cultivar's performance is different from another, subtract one entry's mean score from the other entry's mean. If the value is larger than the LSD value, the observed difference in cultivar performance is significant and did not happen by chance. Complete tables are available upon request or can be obtained by visiting www.ntep.org

PRODUCT PICTURES

Pictures of this product can be found at our website at www.stoverseed.com

RECENT PLANTING SITES

Dodger Stadium Clear Channel Stadium, Lancaster Conejo parks, Newbury Park
 Wm. S. Hart School District, Valencia Oceanside Unified School District

HELPFUL LINKS

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