

Penncross Creeping Bentgrass

The Bentgrass Standard Since 1955

In the 1930's, bluegrass was the turf of choice for fairways, with Seaside and vegetative bents found on the greens. Summer heat and other stresses left them vulnerable to weeds, *Poa annua* and disease invasion. An aggressive bent was needed to compete on golf courses. Professor Burt Musser took on the challenge by gathering bentgrass strains from several locations, and established a research and development program that integrated seedling vigor, seed yield, various soil types, aggressiveness, disease resistance, low mowing properties and overall appearance and color. After years of research, the finished product was named Penncross. Aggressiveness, vigor, and wear tolerance make Penncross a natural for tees and fairways as well as greens. Initially, Penncross received some criticism for being too vigorous and difficult to manage. Superintendents find that reducing water and fertilizer produces the best results.

Penncross' ability to perform under a wide range of conditions make this bentgrass adaptable virtually worldwide. Golf course architects have specified Penncross for areas of extreme cold and heat, and Penncross has survived humidity where bermudagrass has been the standard. Early Penncross greens were established as far North as Anchorage, Alaska and Alberta, Canada as well as the warmer climate of Costa Rica, Spain, and Morocco. Now, the sun never sets on a Penncross green. Golfers in Australia, Asia, Africa and throughout Europe have the same putting advantage as U.S. players, and world travelers feel at home at courses in remote destinations.

Penncross has set a new high standard for tees, fairways and more greens. With the addition of more than 400 golf courses every year, and today's sophisticated golfers watching more televised tournaments, reading countless golfing publications and playing more and more rounds, the awareness of, and demand for, Penncross continues on and on.

Recommended Uses: Penncross is designed for extensively managed golf greens and tees and lawn bowling surfaces.

Areas of Adaptation: Thrives as a permanent turf in cooler areas of the United States and performs well in areas South of the transition zone with intensive management.

Maintenance: Penncross performs best in soils with a pH of 5.5 to 8. It has a moderate nitrogen requirement with 1-2 pounds of actual N per 1,000 square feet per year adequate in most situations. Penncross' optimum mowing height is 3/16 to 5/16 inch but can be adjusted higher or lower depending upon maintenance practices and intended use. Penncross performs best on a sandy soil and tolerates clay soils with adequate drainage. Bentgrasses do not perform well in wet areas, however, Penncross can tolerate saturated soil conditions for short periods of time.

Establishment: Penncross can be seeded from 0.5-2 pounds per 1,000 square feet depending on the application. Cover seed to a depth not exceeding 1/4" and keep seedlings moist until well rooted. Germination will take place in 7-15 days depending on soil temperatures, and the first mowing may be expected within 30 days, or when the plants have sufficiently rooted. Mow at a 3/4" height of cut or lower until turf is established. Limited use of the area can be expected in 6 weeks.



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