

Penn A-4

Creeping Bentgrass
Agrostis palustris

The Advantages of Penn A-4

- Very dark green colour
- Outstanding heat and cold tolerance
- Superior wear tolerance
- Good winter colour
- Quick Spring green-up

Oregon's most experienced growers produce Penn A-4 to standards higher than general certified standards.

These are:

- Pure Seed 98% minimum
- Other Crop 0.04% maximum
- Weed Seed 0.03% maximum
- Inert Matter 2.00% maximum
- Germination 85% minimum

Free of *Poa annua*, *Poa trivialis*, and all other noxious and objectionable weed seeds.

Penn A-4 is dark green with fine leaf texture, exceptional heat and cold tolerance, high density, disease resistance

and an aggressive growth habit. It provides a smooth grainless putting surface. Penn A-4 will also provide a good playing surface for tees and fairways.

Recommended seeding rate 6-7.5 g/m² for new plantings and 0.5-1.25 g/m² for interseeding. It is proven to be adaptable to various conditions. University data shows that it is able to compete against grassy weeds such as *Poa annua* with great success. Penn A-4 prefers to be kept on the dry and lean side, thereby reducing maintenance expenses.

Scotts Turfgrass Varieties • GOLF

Creeping bent (*Agrostis stolonifera*)

Cultivar	Sh den	VM	Mean	F of L	Red thread	W-green	S-green
Penn G-6	6.5	6.5	6.5	6.0	6.7	6.0	6.4
Penn A-4	6.4	6.4	6.4	6.4	6.9	5.8	5.6
Penn A-1	6.4	6.2	6.3	5.9	6.7	5.8	5.5
Penn G-2	6.3	6.4	6.3	5.8	6.3	6.0	6.1
SR 1119	5.9	6.1	6.0	4.9	7.3	5.2	5.7
Providence	5.8	5.7	5.8	5.3	6.4	5.5	5.0
Bueno (18th G)	6.1	5.2	5.6	5.4	5.7	3.4	6.5
L 93	5.5	5.7	5.6	5.1	7.2	5.8	5.5
Tapeta	5.9	5.3	5.6	6.3	7.0	5.9	4.9
Crenshaw (LA)	5.6	5.3	5.4	5.6	6.4	6.0	5.7

Source: STRI, UK Nov 08



These bents are hardy, useful grasses that require appropriate, regular maintenance. The end result is a very high quality playing surface that thrives on low mowing and culminates in near-perfect conditions, with no extraordinary maintenance practices necessary. The formulations and rates may need to be adjusted according to soil test results and turfgrass performance of the listed grow-in.

TIMING	PRODUCT	N%	FERTILIZER RATE: G/M2	NUTRIENT INPUT KG N/HA
Pre-Plant - incorporated	Sierrablen Plus (3M) Renovator 20-20-08	20%	35	70
	H2Pro Granules (wetting agent)	0%	20	0
Pre-Plant - topdressed	SierraformGT Pre-Seeder 18-22-05	18%	20	36
	STEP / Hi-Mag Trace Element Package	0%	11	0
Sowing (Spring)	Seed			
Week 2	SierraformGT 18-22-05	18%	20	36
	Greenmaster Blade	6%	4,5	3
Week 4	SierraformGT Momentum 22-05-11	22%	25	55
	H2Pro Granules (wetting agent)	0%	20	0
Week 6	SierraformGT 22-05-11	22%	25	55
	Greenmaster Blade	6%	4,5	3
Week 8	SierraformGT 18-06-18	18%	20	36
Week 10	Greenmaster Blade	6%	4,5	3

After the turfgrass has grown in, fertilizer applications should be kept light and infrequent. This can be accomplished by the use of a fertigation system or a soluble or liquid fertiliser product. The yearly amount of nitrogen will be from 10-20 g/m², phosphorous 5-7 g/m² and potassium 25-40 g/m². As far as micronutrient amounts, this should be checked with tissue tests during the year and again with a soil test in the early spring.

Maintenance Programme

The first mowing should be done when there is uniform turf coverage with a height from 5mm-10mm and definitely not more than 13mm. The mower should have a smooth front roller. Clippings should not be caught early on, as this will help build a biomass or padding that will protect the plant from damage. During the early stage it is important to do a weekly light topdressing. This will cover the clippings and smooth any roughness in the surface as well as accelerate the filling-in of the turf grass canopy.

It is possible to get to the desired mowing height within six to seven weeks after the first mowing, if not sooner. The Penn series grasses are maintained by most facilities at 3mm or lower for greens.

It is important to irrigate only when necessary, such as when required fill the soil profile to field capacity or when trying to flush salts from the soil profile. This could be a 30-40 minute cycle, depending on the type of irrigation used or time of year. Do not irrigate for the next few days. Stretch the time between irrigation cycles as long as possible. Again, this will vary according to the time of year, but it is possible to go at least 4-10 days longer, only needing to hit hot spots if required.

With regard to aeration, this has varied from course to course. Most golf courses aerate two to three times a year: in the spring, early summer and autumn, similar to other bentgrasses and dependant on the size of the greens, soil type and traffic. Topdressing varies depending on management style, from light weekly applications to once a month when verticutting. As with all bentgrasses it is important to get as much topdressing into the canopy as possible. This can only be accomplished if the canopy is opened up by the use of groomers, verticutting, grooving, or spiking.

These are basic guidelines, which should be adjusted to location conditions or requirements.

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Penn A-4 is a Tee2Green variety and therefore not part of the Scotts Grass Seed Icon Programme.

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