

TURFGRASS

Professional Seeds



fito
Your seeds





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Simbols

Establishment



1 week



2 weeks



3 weeks

Water needs



Very low



Low



Moderate



Medium



High

Maintenance



No mowing



Less mowing



Lower fertilization
needs



Lower maintenance
needs



High maintenance
needs

Other



Heat
tolerance



Traffic
tolerance



Shade
tolerance



Salt
tolerance



Disease
tolerance



Brown patch
resistance



Crowing out
Poa annua



High
density



Stolons



Rhizomes



Persistence



Strong



Drought
resistant



Cold
tolerance



Fine-leaf
texture



NTEP



Environmentally
friendly



Mowing
height



Aesthetic
grass



Active in fall
and winter



Dark colored
grass

WE PRODUCE,

rehearse, improve and promote our talks and publications,

VARIETIES GENETICALLY RESISTANT TO DROUGHT AND HEAT.

Aware that in the context of climate change they will allow us to enjoy an acceptable sward in the years to come

We have been pioneers in introducing warm climate species (**C4**) with high value environmental protection, such as highly resistant *Paspalum vaginatum* **MARINA** for high salinity resistance or *Cynodon dactylon* **IBIZA** with extraordinary resistance to cold. We are also pioneers in the introduction of tall fescues with leaf texture similar to *Lolium perenne* for high-level sports use

One of the main characteristics of our varieties is **slow growth in order to reduce mowing frequency**.

We select **varieties with incorporated endophytic fungi** to increase resistance to drought and insects, thus limiting the use of pesticides and water.

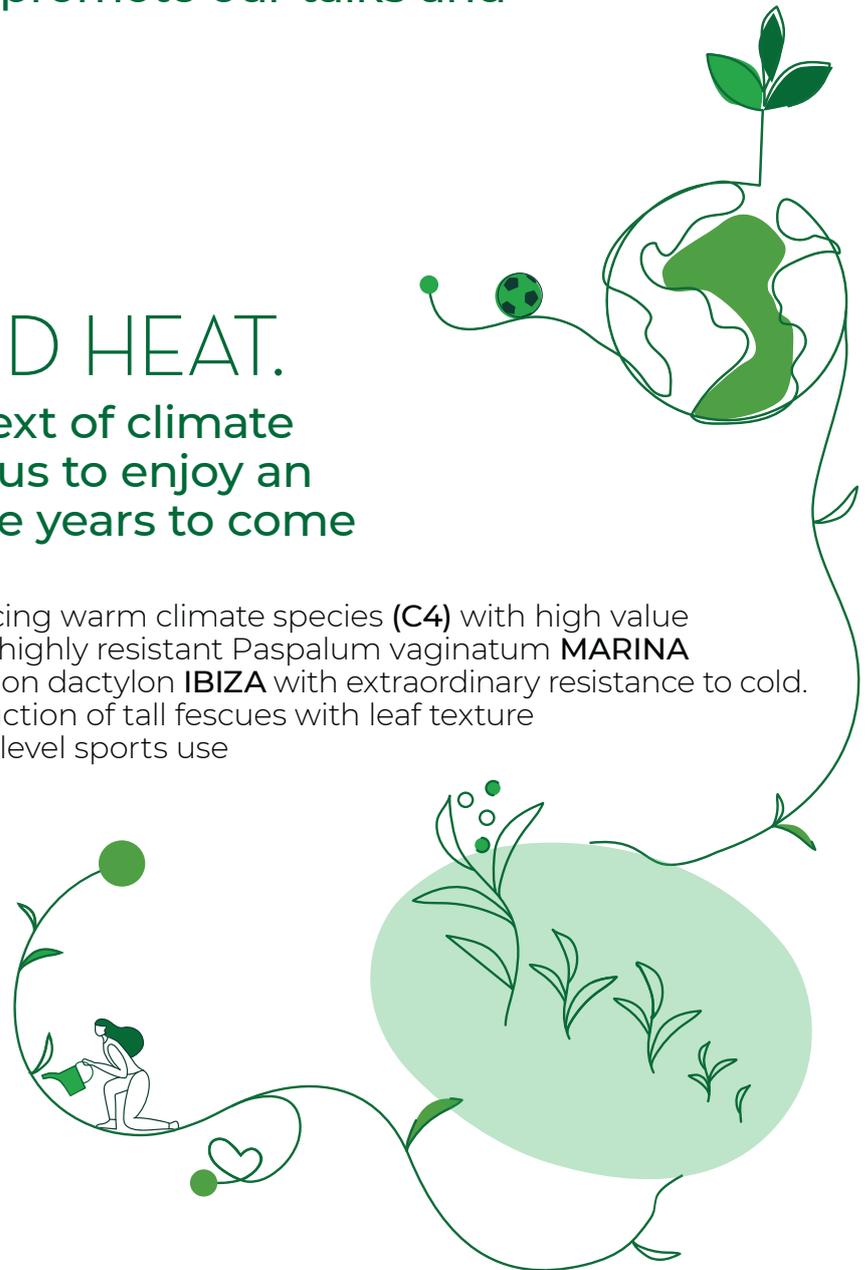
Our varieties are **highly adapted to the Mediterranean climate** since they consume less water than average and tolerate stress conditions much better.

In our test plots **we do not use chemicals** and we irrigate with water from a local well, which has high electrical conductivity and is rich in nitrogen.

Deep dark varieties help the environment by having less need for water, nitrogen fertilizers and chemical products.

We are also introducing **varieties of *Lolium perenne*** of extraordinary quality with lateral growth for use in all grass related sports.

Semillas Fitó is ahead of the new European regulations that restricts the use of fertilizers and chemical products, providing extraordinary varieties and mixtures with horizontal resistance to diseases and lateral growth.



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The Spanish multinational leader in the Mediterranean region



MULTINATIONAL Different since 1880

As a multinational, SEMILLAS FITÓ is different from our competitors. Since 1992, Semillas Fitó has been working side by side with distributors, greenkeepers and groundsman as well as end users and assessing our clients on site. We study the best variety of options whilst giving the best technical support to maximize results in the Mediterranean region, where turfgrass can be a difficult crop to grow and maintain.



EXPERIENCE

Always offering top quality products

Our turfgrass clients always demand the best products: weed free, the highest germination percentage possible and varieties adapted to soils, climates and water quality.



R&D+INNOVATION

Investing in innovation

SEMILLAS FITÓ, the Mediterranean turfgrass leader, invests 13% of total sales in R&D + innovation.

The SEMILLAS FITÓ research stations are managed by highly qualified professional teams, with the most up-to-date technology to evaluate every variety in any stress situation.

Our agreement with the world's best turfgrass universities and turfgrass breeders ensure the most suitable materials for our customers.

Once the new products are brought onto the market, stress controls are very rigorous to ensure the variety's success.



PROXIMITY

Working together

All varieties and mixtures have been developed over years of experience and research in trials and field tests with the help of technicians, greenkeepers, groundsman, and end users.

Our focus is on the end customer, on society at large, maximizing our respect for the environment and making it more sustainable.

More than 130 years of experience adding value to our landscape and sports fields and improving our living standards.



Effort and dedication to turfgrass

PRODUCTION Centres

The turfgrass division of Semillas Fitó has two production centers, with one in Anglesola (Lleida) and the other located in Antalya (Turkey).

The new processing and logistic centre in Les Cases de Barbens (Anglesola), boasts 27,000 m² of floor space and more than 250,000 m³ capacity, and is already the largest in southern Europe.

This new installation handles reception, cleaning, seed treatments, variety mixtures, packaging and shipping.



Aerial view of Les Cases de Barbens logistics centre

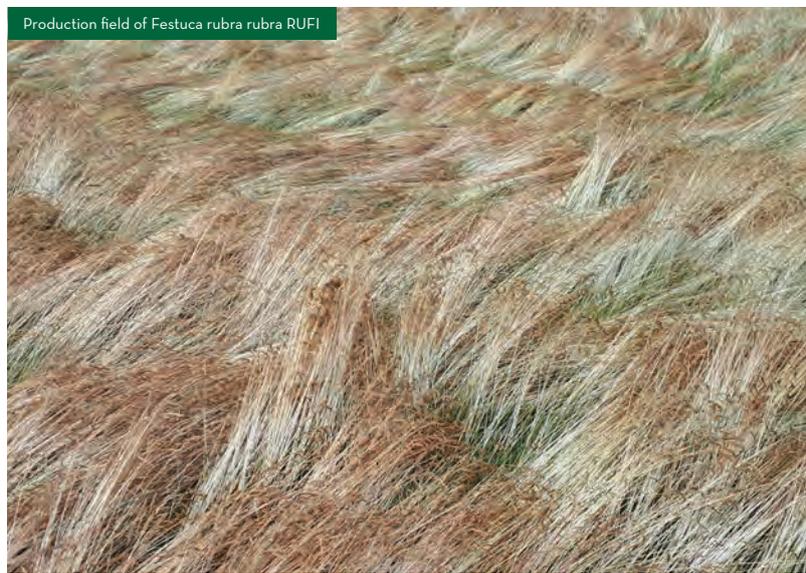


QUALITY Control

Seed quality control is essential at Semillas Fitó.

Purity, germination, vigour and resistance are controlled in every seed lot, from seed receipt to packing and shipment.

SPECIES	MINIMUM GERMINATION (%)	MINIMUM SPECIFIC PURITY (% in weight)
<i>Agrostis stolonifera</i>	75	90
<i>Agrostis tenuis</i>	75	90
<i>Cynodon dactylon</i>	70	90
<i>Festuca arundinacea</i>	80	95
<i>Festuca ovina</i>	75	85
<i>Festuca pratensis</i>	80	95
<i>Festuca rubra</i>	75	90
<i>Lolium perenne</i>	80	96
<i>Poa nemoralis</i>	75	85
<i>Poa palustris</i>	75	85
<i>Poa pratensis</i>	75	85
<i>Poa trivialis</i>	75	85
<i>Paspalum Vaginatatum</i>	75	99



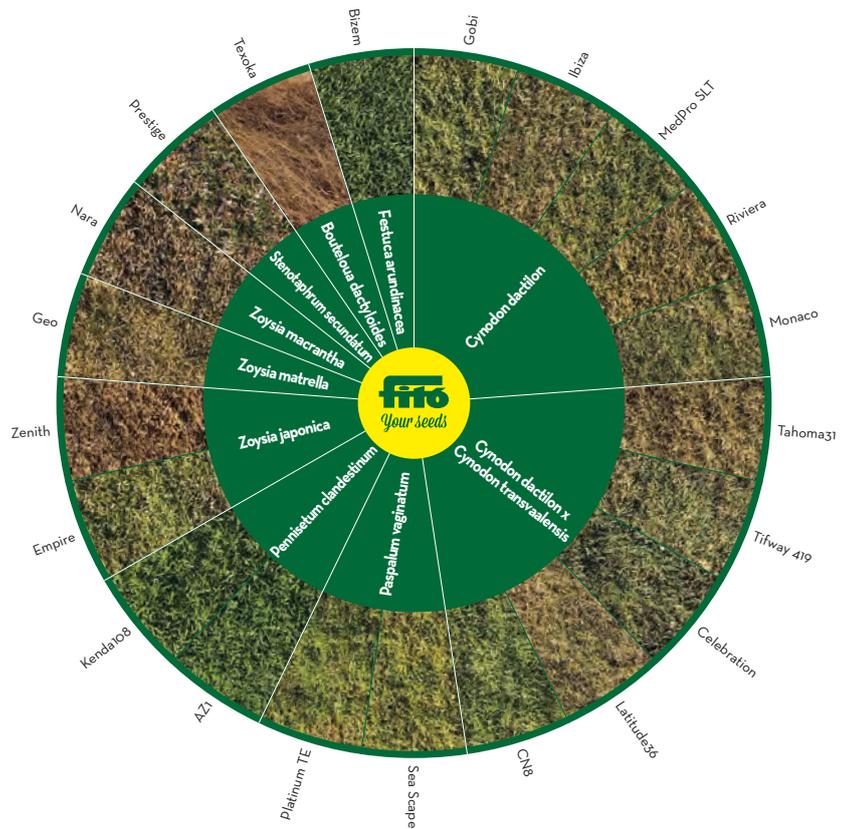
TRIALS

Research and results

Before being launched, SEMILLAS FITO varieties must fulfil the following requirements:

1. Genetics suited to conditions in the Mediterranean area.
2. Tested for at least two years with trials under real environmental conditions to evaluate strengths and weaknesses, e.g. Cabrera de Mar turf trials.
3. Meeting customer needs.
4. Gaining (if possible) the best results at international official trials, e.g. US National Turfgrass Evaluation Program (NTEP).

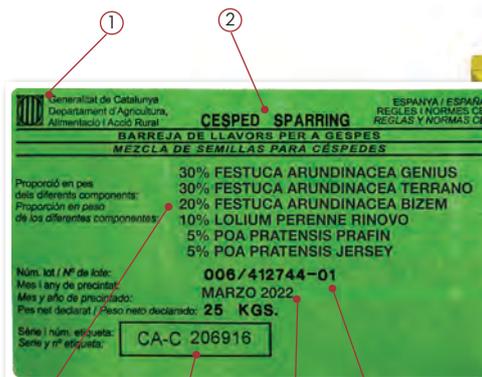
WINTER COLOURS WHEEL



OFFICIAL

Tag specifications

1. Official organisation that takes care of seed quality control.
2. Name of the mixture.
3. The percentage in weight of each component detailing species and variety.
4. Official tag number.
5. Packaging date.
6. Lot number.



RESEARCH centre in Cabrera de Mar

Our Turfgrass Research Centre located in Cabrera de Mar is the largest such facility in the Iberian Peninsula dedicated to turfgrasses.

The newest products from all over the world are included in the plots.

With its excellent location by the Mediterranean Sea, it is an area of high humidity with mild winters and hot summers. The irrigation water is high in electrical conductivity, which ensures that our seeds working under those stressful conditions will perform well in any area of the Mediterranean.

All varieties are carefully monitored for a minimum of two years under non-chemical conditions before being launched onto the market.

The plots are divided into areas with different irrigation quantities and treatments for their evaluation.

Visit to the testing field



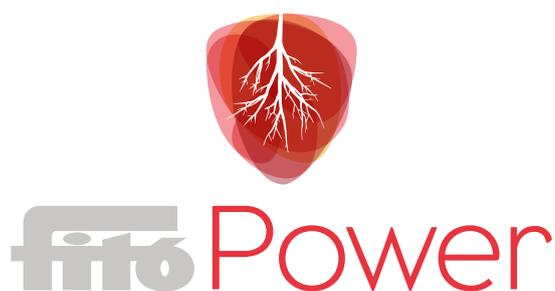
Finally, and to help you get the most out of your turfgrass, Semilla's Fitó has at its disposal **"Turfgrass Culture"**, a book written and compiled by our Director of Turfgrass, Josep Cirera.



SEED TREATMENTS

Fitó Optima and Fitó Power are solutions based on optimizing and improving the germination efficiency by enhancing the seed with a coating technology that guarantees:

- Improved nitrogen fertilisation, promoting faster growth and increasing protein protection.
- Reduced insect and bird damage.
- Reduced loss of seeds by wind, due to increased seed weight.
- Reduced mechanical stress during seeding, which results in less seed breakage.



Fitó Power is a solution based on enhancing plant growth. Fitó Power seed treatment stands out for its capacity to enhance yield and ensure greater quality and visual appearance.

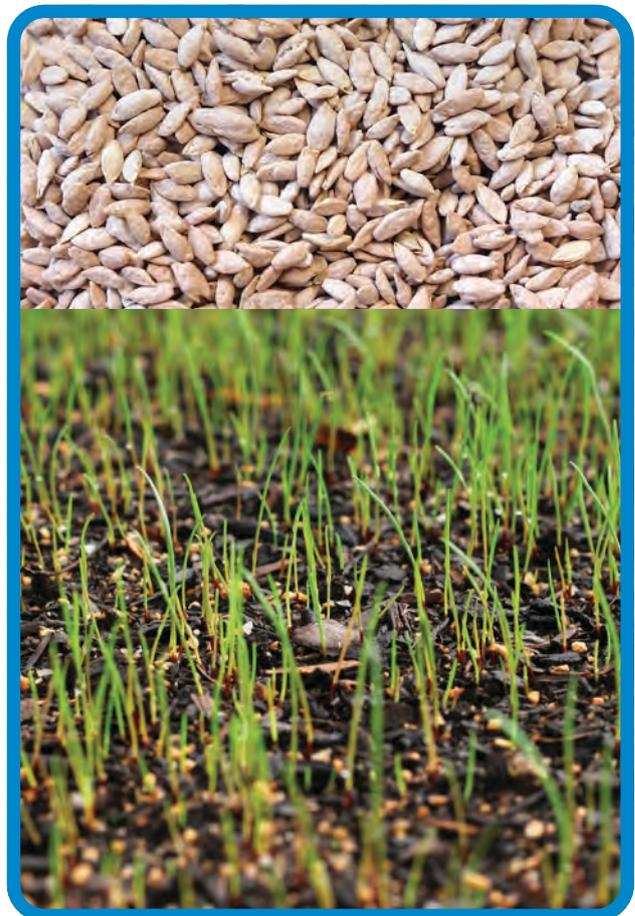
The aim is to boost vigour and improve nutrition.



fito OPTIMA

This coating technology ensures better hydration and less possibility of loss of seed, all the way through to germination.

The aim is to achieve better efficiency during planting and to reduce seed loss.



Perennial Ryegrass

(Lolium perenne)

Did you know that on a sunny summers day, the surface of your lawn maintains a temperature of between 8 to 10°C lower than that of a concrete surface?



Cool-season grass (C3), fast growing bunch type that spreads by tillers. The leaves are dark green and glossy on the underside, tapered and pointed with a folded veneration.



Uses:

- High-quality lawns, golf course tees, fairways and rough. Used for seeding and overseeding on racetracks and sports fields.

Highest persistence and lateral growth

Dark green color

GREENLAND (PP6 - PR 196)



Excellent leaf density and fineness

- High tillering capacity and lateral growth.
- Maximum persistence in salinity conditions.
- Maximum resistance to grey leaf spot, rust and microdochium patch.
- Intense dark green colour.
- Maximum traffic tolerance. Mowing height from >10 mm.

Ideal for football pitches and sports fields where maximum persistence and density are required.



RINOVO (GL-74)



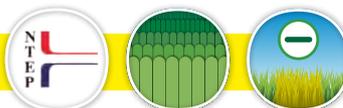
Persistent with maximum density

- Tillers late summer, which avoids straw appearance that affects other varieties in summer.
- Lateral growth with mowing height from >10mm
- Maximum persistence, density and resistance to diseases, especially grey leaf spot.
- Exceptional heat, drought and salinity tolerance.
- Maximum recovery capacity due to its extreme resistance to traffic.

Ideal for surfaces where maximum persistence and resistance are required. Ideal for golf courses, sports fields, public and private gardens.



PROCESS (PPG-PR422)



Maximum density, persistence and excellent resistance to intensive use

- Maximum density all year round with excellent quality during the summer months.
- Salinity resistant.
- Mowing height from >10 mm.
- Maximum resistance to pythium and grey leaf spot.
- Strong lateral growth capacity.
- Intense dark green colour.
- Maximum traffic tolerance and persistence.

Ideal for seeding and over-seeding football pitches, golf tees and sports fields in general.



Varieties of maximum persistence and lateral growth

Bright-green color

ZURICH (PPG-PR 124)



Regenerates through stolons

- Reduces contamination of *Poa annua* due to lateral growth.
- Maximum persistence.
- Excellent winter growth.
- Low mowing heights from >10 mm.
- Excellent tolerance to foot and machinery traffic.

Ideal for football pitches, golf course fairways and tees as well as landscaping in general where its light colour is ideal for camouflaging *Poa annua*.

GREENSPREAD



Self-healing for winter sports pitches

- Exceptional overall quality and performance.
- Maximum density with fine leaf texture and excellent recuperation.
- Light green colour.
- Very tolerant of mowing at low heights.
- Similar colour to *Poa annua*.

Ideal for sports fields, tees, fairways, golf course rough, tennis courts, horse racetracks, cricket, rugby, baseball, public lawns and private. Excellent for overseeding of C4 species.

High persistence varieties, reseeding, overseeding

Dark green color

RINGLES



Maximum drought tolerance

- Dwarf variety with upright growth and fine leaf texture.
- Excellent seedling vigour with low maintenance.
- Highly tolerant to heat and salinity conditions (up to 15,000 ppm).
- Dark green color.

Ideal for reseeding in areas with salinity problems.

Varieties with easy transition. Ideal for seeding and overseeding

Dark green color

SUN



Versatile. Fastest germination of *Lolium perenne* varieties

- Ideal for low-maintenance requirements.
- Excellent establishment rate.
- Moderate shade tolerance.
- Excellent winter growth with smooth spring transition.
- Dark green colour.

Ideal for overseeding where rapid establishment is desired.

Medium green color

LOVER



Quick recovery

- Stands out for its fine texture and fast establishment.
- Excellent summer performance with maximum drought tolerance.
- Excellent traffic tolerance and very high recovery ability.
- Resistant to pythium and grey leaf spot.

Ideal for overseeding where a functional ryegrass is desired. Excellent quality/price ratio.

Variety	General appearance	Resistance to pyricularia
High	6,1	9,0
PROCESS (PPG-PR 422)	6,0	8,3
Low	3,3	1,0

Results of American trials 2017-2021; 1-9, 9 best

Variety	Leaf texture	Cutting quality
GREENLAND	8,7	6,7
PROCESS (PPG-PR 422)	8,0	6,9
THUNDER	5,3	6,3

Leaf texture (1-9; 1 = coarse, 9 = fine) evaluated 12/15/2021; Cutting quality (1-9; 9 = best) evaluated on 2/2/2022. Desert Willow Golf Resort, Palm Desert, CA. The ryegrasses were overseeded on 11/10/2021.

Variety	General appearance 2015	Establishment Sept. 2014
High	7,2	6,7
Rinovo	6,8	6,7
RINGLES	6,1	7,7
Manhattan 5GLR	6,0	7,0
Brightstar SLR	5,8	7,7
Silver Dollar	5,6	7,3
SUN	5,6	8,3
Low	4,7	5,3
LSD Value at 5%	0,6	1,7

9 = best quality / 9 = fastest establishment

Salinity resistance % cover with 15,000 ppm	
HIGH	69,3
RINOVO	62,8
FIESTA 4	7,3
LOW	0
LSD Value	23,3

Result of american trials 2013

Count of <i>Poa annua</i>	
HIGH	78,0
RINOVO	9,0
LOW	3,3
LSD Value	12,3

Result of american trials 2013

Traffic Tolerance	
HIGH	7,7
RINOVO	6,7
LOW	3,7
LSD Value	1,1

Result of american trials 2013

Fall density	
HIGH	7,0
RINOVO	6,7
LOW	3,0
LSD Value	0,9

Result of american trials 2013

Color	
HIGH	7,8
RINOVO	6,7
LOW	4,0
LSD Value	0,4

Result of american trials 2013

Annual Ryegrass

(*Lolium multiflorum*)

Cool-season annual grass (C3) with bunch type growth habit that was traditionally used as fodder. Extensively used as a turfgrass due to its quick and easy installation.

Uses:

- Autumn overseeding on warm climate species, where a rapid transition in summer is desired without the use of chemicals.
- Ideal for winter overseeding in low temperature zones.

THUNDER



New generation with smooth transition

- Very fast germination and establishment at low temperatures.
- Medium dark colour, comparable to *Lolium perenne*.
- Fine leaf texture and maximum density.
- Genetically programmed summer transition.
- Maximum density and traffic tolerant.



TOURS



Lolium perenne quality with controlled transition

- Dark green colour comparable to that of *Lolium perenne*.
- Slow growth.
- Maximum density and fine leaf texture.
- Germination in 3 days under optimal conditions.
- Tolerates cutting heights >10 mm.

Ideal for winter overseeding on golf courses and sports fields where rapid green-up is required. Excellent for use in spring transition without the need for chemicals.



PERENNIAL RYEGRASS	Highest persistence and lateral growth					Easy transition to seedbed	
	Dark Green			Light Green		SUN	LOVER
	GREENLAND	RINOVO	PROCESS	ZURICH (PPG-PR 124)	GREENSPREAD		
Variety							
Seeding rate g/m ²	35	20	35	35	20-35	35	35
Overseeding rate on bermuda greens g/m ²	150-200	130	150	140	140	-	140
Dose overseeding tees, fairways, rough, lawns g/m ²	50	30-40	50	50	50	50	50
Seeds per gram	570	662	520	580	700	614	568
Days to germination	5-7	3-7	5-7	3-8	3-8	3-7	3-8
Recommended seeding dates	Spring-fall			Spring-fall		Spring-fall	
Color	Dark green			Bright green		Dark green	Medium green
Establishment	Medium fast	Very fast	Medium	Very fast	Fast	Very fast	Very fast
Growth	Slow	Medium	Slow	Fast	Fast	Medium	Medium
Leaf texture	Very fine			Very fine		Fine	Fine
Maintenance	Low	Low	Low	Medium	Medium	Low	Medium
Fertilizing needs	High	Medium to low	High	Low	Medium	Medium	Low
Shade tolerance	Medium	Medium	Medium	Low	Medium	Low	Low
Winter dormancy	No	No	No	No	No	No	No
Disease resistance	Broad spectrum, especially Gray Leaf Spot	Dollar spot, Brown patch, Gray leaf spot, others...	Gray leaf spot, Pythium, Brown patch	Pythium, Red thread	Gray leaf spot, Pink snow mold, Red thread	Brown patch, Leaf spot	Pythium, Red thread
Glyphosate resistance	No	No	No	No	No	No	No
Recovery capacity	Excellent	Excellent	Excellent	Very good	Excellent	Very good	Very good
Traffic tolerance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	High
Heat tolerance	Excellent	Excellent	Excellent	High	High	Medium	Excellent
Mowing height	From 10 mm			From 10 mm	From 8 mm	From 10 mm	
Mowing frequency	Low	Medium	Low	Medium	Low	Medium	Medium
Creeping ability	Yes	Yes	Yes	Yes	Yes	No	No
Salt tolerance	Maximum	Maximum	Maximum	Medium	Medium	Medium	Medium
Irrigation needs	High	Medium	High	High	Medium to high	Medium	High
Endophyte-enhanced	Yes	No	Yes	Yes	Yes	Yes	Yes

PERENNIAL RYEGRASS	High persistence, Sowing and reseeded
Variety	RINGLES
Seeding rate g/m ²	35
Overseeding rate on bermuda greens g/m ²	-
Dose overseeding tees, fairways, rough, lawns g/m ²	50
Seeds per gram	546
Days to germination	4-8
Recommended seeding dates	Spring-fall
Color	Dark green
Establishment	Fast
Growth	Slow
Leaf texture	Fine
Maintenance	Low
Fertilizing needs	Medium
Shade tolerance	Medium
Winter dormancy	No
Disease resistance	Pythium, Gray leaf spot, Dollar spot
Glyphosate resistance	No
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	8-20 mm
Mowing frequency	Medium
Creeping ability	No
Salt tolerance	High
Irrigation needs	Medium
Endophyte-enhanced	Yes

Species	Annual ryegrass	
Variety	THUNDER	TOURS
Seeding rate g/m ²	35-70	35-70
Overseeding rate on bermuda greens g/m ²	-	-
Dose overseeding tees, fairways, rough, lawns g/m ²	40-50	40-50
Seeds per gram	420	480
Days to germination	3	3
Recommended seeding dates	Autumn	Autumn
Color	Medium-dark	Medium-dark
Establishment	Very fast	Very fast
Growth	Fast	Fast
Leaf texture	Medium	Fine
Maintenance	Medium	Medium
Fertilizing needs	Medium	Medium
Shade tolerance	Low	High
Winter dormancy	No	No
Disease resistance	Leaf spot, Dollar spot, Rust	Leaf spot, Dollar spot, Rust
Glyphosate resistance	No	No
Recovery capacity	Excellent	Excellent
Traffic tolerance	Maximum	Maximum
Heat tolerance	Low	Low
Mowing height	From 20 mm	From 21 mm
Mowing frequency	High	High
Creeping ability	No	No
Salt tolerance	Medium	High
Irrigation needs	High	High
Endophyte-enhanced	No	No

Fine Fescues

Did you know that the Earth's grass surfaces are able to catch up to 12,000,000 metric tons of dust, six times more than bare soil.



This genus includes several species and subspecies of temperate climate grass (C3) and is characterised for its very fine leaf texture and ornamental aspect, as well as its growth habit in either the form of clumps (*Festuca rubra commutata* and *Festuca ovina*) or rhizomes. It is a species that adapts very well in poor soil conditions and mild climates.

Uses:

- Areas in shade, landscaping of high aesthetic value and minimal maintenance, golf course rough and slopes.



With long and very strong rhizomes

JOPPA

Festuca Rubra Trichophylla

Traffic tolerant

- Dark green with semi-creeping growth habit.
- Excellent winter growth.
- Very resistant to leaf diseases.
- Tolerates low mowing heights >6
- Resistant to salinity.



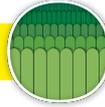
With short and numerous rhizomes

FINE PRO

Festuca rubra rubra

High density and maximum disease resistant

- New generation of creeping *Festuca rubra* variety, perfectly adapted to Mediterranean summers.
- High resistance to salinity.
- Excellent persistence in summer.
- Recovers perfectly in low maintenance conditions.
- Very drought tolerant.



RUFI

Festuca rubra rubra

Elegant and traffic tolerant

- Superior for drought and heat tolerance.
- Low maintenance needs.
- Mowing height >10 mm.
- Dollar spot and brown patch resistant.
- Shade-tolerant.



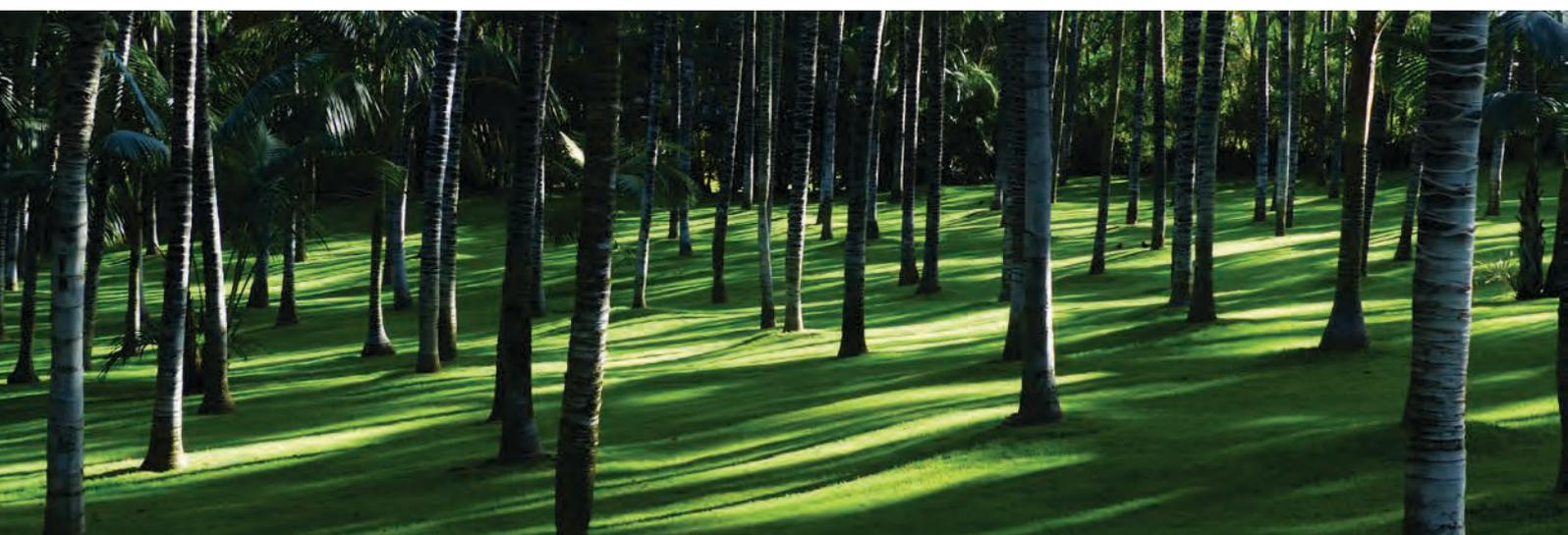
Chewing fescue

ZODIAC

Festuca rubra commutata

Ideal for shade

- Maximum level variety.
- Tolerates low mowing heights >8 mm.
- Adds finer texture to mixtures.
- Very stable and non-invasive.
- Minimum maintenance.



ABERFLEECE

Festuca ovina

Low maintenance

- Minimum maintenance needs.
- Vigorous during establishment.
- Tolerates low doses of glyphosate.
- Maintains density in summer.
- Maximum resistance to heat and drought.
- Blends perfectly with wildflowers.



SPARTAN 2

Festuca brevipila

Low-maintenance sustainable grass

- Performs very well under summer stress.
- Very shade tolerant.
- Minimum mowing and fertilization requirements.
- Good tolerance to traffic.
- Combines perfectly with wildflowers.



Species	<i>Festuca Rubra Trichophylla</i>	<i>Festuca Rubra Rubra</i>		<i>Festuca Rubra Commutata</i>	<i>Festuca Ovina</i>	<i>Festuca Brevipila</i>
Variety	JOPPA	FINE PRO	RUFI	ZODIAC	ABERFLEECE	SPARTAN 2
Seeding rate g/m ²	20	20-25	15-25	15-25	15-25	15-25
Overseeding rate g/m ²	30	30	30	20	25	25
Seeds per gram	990	790	770	1,060	1,042	1,122
Days to germination	7-10	10-12	10-12	10-12	18-21	18-21
Recommended planting dates	Spring-Fall	Spring-fall		Spring-fall	Spring-fall	Spring-fall
Color	Dark	Dark	Dark	Dark	Bluish-green	Medium dark
Establishment	Fast	Medium	Medium	Medium	Slow	Slow
Growth	Slow	Slow	Medium	Slow	Medium	Slow
Leaf texture	Fine	Fine	Fine	Very fine	Very fine	Very fine
Spreading activity	Rhizomes	Abundant rhizomes	Abundant rhizomes	No	No	No
Maintenance	Low	Low	Low	Very low	Very low	Very low
Fertilizing needs	Medium	Low	Low	Low	Very low	Very low
Shade tolerance	High	High	High	High	High	High
Winter dormancy	No	No	No	No	No	No
Disease resistance	Dollar spot, Rust, Dreschlera	Brown patch, Leaf spot	Brown patch, Dollar spot	Dollar spot, Summer patch, Leaf spot, Dreschlera	Brown patch, Dollar spot	Brown patch, Summer patch, Red thread, Dollar spot, Leaf spot
Recovery capacity	Medium	Good	Good	Low	Low	Low
Traffic tolerance	High	Medium	Medium	Low	Low	Low
Heat tolerance	High	High	High	High	High	High
Mowing height	6-15 mm	From 12 mm	From 10 mm	From 10 mm	From 30 mm	From 10 mm
Mowing frequency	Low	Low	Low	Low	Very low	Very low
Irrigation needs	Medium	Low	Low	Low	Very low	Very low
Salt tolerance	Excellent	High	High	Medium	Low	Low
Endophyte-enhanced	Yes	Yes	Yes	Yes	Yes	Yes

Tall Fescues

Did you know that 230 m² of turfgrass absorbs carbon dioxide and releases enough oxygen for a family of four?



Cool-season grasses (C3), very rustic, with a bunch type growth habit that adapts to a wide range of soils and uses. Has a fibrous and deep root system.



Applications:

- Low maintenance lawns with minimal irrigation.
- Sod production, rough and slopes on golf courses, sports fields, racetracks and polo fields.
- A minimum of 70% Festuca arundinacea must be included in mixes.

Highest density, fine leaf and low mowing tolerant varieties

BIZEM



Ideal for sports fields

- The best new generation of Fescues for use in sports turf.
- Fine leaf texture, comparable to *Lolium perenne* or *Poa pratensis*.
- Maximum density and intense dark colour.
- Extremely resistant to foot and machinery traffic and maximum recovery capacity.
- Performs well with frequent mowing >10 mm.
- Excellent winter growth.
- Creeping growth habit.



GENIUS



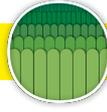
Maximum resistance to Brown patch and grey leaf spot

- No 1 NTEP in quality.
- Very aggressive growth based on lateral stems.
- Magnificent winter colour.
- Excellent resistance to brown patch and very shade and drought tolerant.
- Quick spring green-up.



Rhizomatous varieties with lateral growth

TERRANO

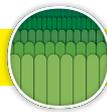


Máxima tolerancia a calor y sequía

- Resistente a *Brown patch*.
- Extremadamente tolerante al pisoteo.
- Tolerante a salinidad.
- Excelente crecimiento invernal.
- Máxima densidad para producción de tepe y usos deportivos.
- Excelente para cultivo de tepes.

Varieties with fine leaf texture and maximum density

TANK



The new generation with the highest NTEP rating

- Very fine leaf texture.
- Exceptional shade tolerance.
- Extremely high density.
- Maximum brown patch resistance.
- Medium green colour.
- Competes very aggressively against weeds
- Presence of rhizomes.

FESNOVA



Excellent summer

- Exceptional variety with a wide plant crown and maximum density.
- Maintains dark green colour in the winter.
- Slow growth with very fine leaf texture.
- Consumes 30% less water than other varieties.
- Great establishment.
- Maximum resistance to brown patch.



Semidwarf varieties with fine leaf texture

FIRACES

Easy and resistant

- Minimum maintenance needs with less scarifying and aerifying.
- Superb traffic tolerance and maximum recovery ability.
- Low fertiliser needs.
- Low mowing frequency.
- Excellent winter growth.



MÉRIDA

The most vigorous dwarf variety

- Outstanding fine leaf texture and slow growth.
- Performs very well in the summer.
- Maximum drought tolerance.
- Excellent traffic tolerance and recovery.
- Salt tolerant.



Tall Fescues

Turf quality mean		Leaf texture		Summer density		Color		Summer resistance to Brown Patch	
HIGH	6,7	HIGH	6,7	HIGH	7,7	HIGH	7,2	HIGH	7,7
BIZEM	6,5 ●	BIZEM	6,4 ●	BIZEM	7,0 ●	FESNOVA	6,9 ●	BIZEM	7,0 ●
FESNOVA	6,5 ●	FESNOVA	6,1 ●	FESNOVA	6,7 ●	BIZEM	6,8 ●	FESNOVA	6,3 ●
TERRANO	6,3 ●	TERRANO	5,6 ●	TERRANO	6,7 ●	TERRANO	6,7 ●	TERRANO	5,3 ●
LOW	4,5	LOW	3,4	LOW	4,7	LOW	3,8	LOW	1,0
LSD Value	0,7	LSD Value	0,3	LSD Value	0,7	LSD Value	0,3	LSD Value	2,1
1-9: 9 Best		1-9: 9 Fine-leaf texture		1-9: 9 Max. density		1-9: 9 Dark color		1-9: 9 Resistant	

NTEP Trials 2017



TALL FESCUES	Varieties with fine leaf texture and lateral growth		Rhizomatous varieties with lateral growth	Varieties with fine leaf texture and maximum density	
Variety	BIZEM	GENIUS	TERRANO	TANK	FESNOVA
Seeding rate g/m ²	40	40	50	40	40
Overseeding rate g/m ²	50	50	50	50	50
Seeds per gram	416	495	484	416	484
Days to germination	7-12	7-10	10-12	7-12	7-12
Recommended planting dates	Spring-fall		Spring-fall	Spring-fall	
Color	Very dark	Very dark		Very dark	Very dark
Establishment	Fast	Fast		Fast	Fast
Growth	Slow	Slow		Slow	Slow
Leaf texture	Fine	Fine		Fine	Fine
Spreading activity	Rhizomes	Rhizomes	Rhizomes	Rhizomes	No
Maintenance	Low	Low	Low	Low	Low
Fertilizing needs	Moderate	Moderate	Low	Moderate	Moderate
Shade tolerance	High	High	High	High	High
Winter dormancy	No	No	No	No	No
Disease resistance	Brown patch, Pythium, Leaf spot	Brown patch and Pyricularia	Brown patch, Leaf spot	Brown patch, Pythium, Leaf spot	Brown patch, Pythium, Leaf spot
Recovery capacity	Very high	Very high	Excellent	Very high	Very high
Traffic tolerance	Extraordinary	Extraordinary	Excellent	Extraordinary	Excellent
Heat tolerance	Excellent	Excellent	Excellent	Excellent	Excellent
Mowing height	From 10 mm	From 10 mm	From 15 mm	From 10 mm	From 10 mm
Mowing frequency	Low	Low	Low	Low	Low
Irrigation needs	Low	Low	Low	Low	Low
Salt tolerance	Excellent	Excellent	High	Excellent	Excellent
Endophyte-enhanced	Yes	Yes	Yes	Yes	Yes

TALL FESCUES	Semidwarf varieties with fine leaf texture	
Variety	FIRACES	MÉRIDA
Seeding rate g/m ²	40-50	40
Overseeding rate g/m ²	50	50
Seeds per gram	523	490
Days to germination	7-12	7-12
Recommended planting dates	Spring-fall	
Color	Dark	Dark
Establishment	Fast	Fast
Growth	Slow	Slow
Leaf texture	Medium	Medium
Spreading activity	No	No
Maintenance	Low	Low
Fertilizing needs	Low	Moderate
Shade tolerance	High	High
Winter dormancy	Limited	No
Disease resistance	Brown patch	Brown patch, Leaf spot
Recovery capacity	Excellent	Very high
Traffic tolerance	Excellent	Excellent
Heat tolerance	High	Excellent
Mowing height	20-30 mm	From 10 mm
Mowing frequency	Low	Low
Irrigation needs	Low	Low
Salt tolerance	High	Excellent
Endophyte-enhanced	Yes	Yes

Kentucky Bluegrass

(Poa pratensis)

Did you know that a football pitch and surrounds of approximately 10,000 m² absorbs around 12,000 kg of carbon dioxide a year?



Cool-season grass (C3), medium-fine leaf texture and growth with rhizome formation. Very tolerant to foot traffic. Sensitive to leaf diseases in mild weather conditions. Recommended in mixtures for its lateral growth.

Applications:

- Sports fields, polo, horse riding, fairways and golf course tees, top-quality gardening, sod production with high quality standards.
- They should only be used in mixtures.



Cross variety of *Poa pratensis* x *Poa texas*

BLUE GEM



Maximum shade tolerance

- MIDNIGHT type, No. 1 NTEP.
- Hybrid of *Poa pratensis* x *Poa arachnifera*.
- Maximum density with good resistance to shade and drought.
- Maximum quality.
- Excellent resistance to foot traffic.
- Tolerates cutting heights >12 mm.
- Not prone to forming thatch.



Compact-America type variety

FIELD PRO

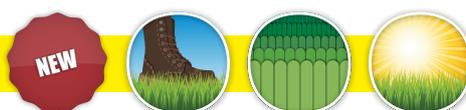


A *Poa pratensis* that sets quickly

- Very fast to establish.
- Maximum resistance to rust and mildew.
- Excellent summer growth.
- Medium leaf texture.
- Combines very well with *Festuca arundinacea* and *Lolium perenne*.



JERSEY



Kentucky bluegrass

- Elite turf quality.
- Great heat tolerance.
- Excellent wear tolerance.
- Medium dark green.
- Good disease resistance.
- Fine leaf texture.
- Performs well at golf fairway cutting heights.



Compact-America type variety

STRENUUS



Maximum installation speed

- Under optimal conditions germinates in 5-7 days.
- Quick installation therefore ideal for regeneration of sports fields.
- Easier to establish than other varieties.
- Combines perfectly with *Poa pratensis* or *Lolium perenne*.
- Excellent heat tolerance and maximum resistance to summer stress.
- Excellent resistance to traffic with quick recovery.
- Maximum resistance against red thread, helminthosporium disease, grey leaf spot, rust and turf damaging insects like Tipula.



JUMPSTART



Germinates in 7 days

- Excellent establishment.
- Maximum resistance to rust and mildew.
- Excellent summer growth.
- Medium leaf texture.
- Combines very well with *Festuca arundinacea* and *Lolium perenne*.



Midnight Type Varieties

PRAFIN (BLUEDEVIL)



Excellent under stress situations

- MIDNIGHT variety with greatest heat tolerance.
- Less prone to thatch build up.
- Drought and salt tolerant.
- Low mowing frequency.
- Tolerates mowing heights >12 mm.



RIGHT

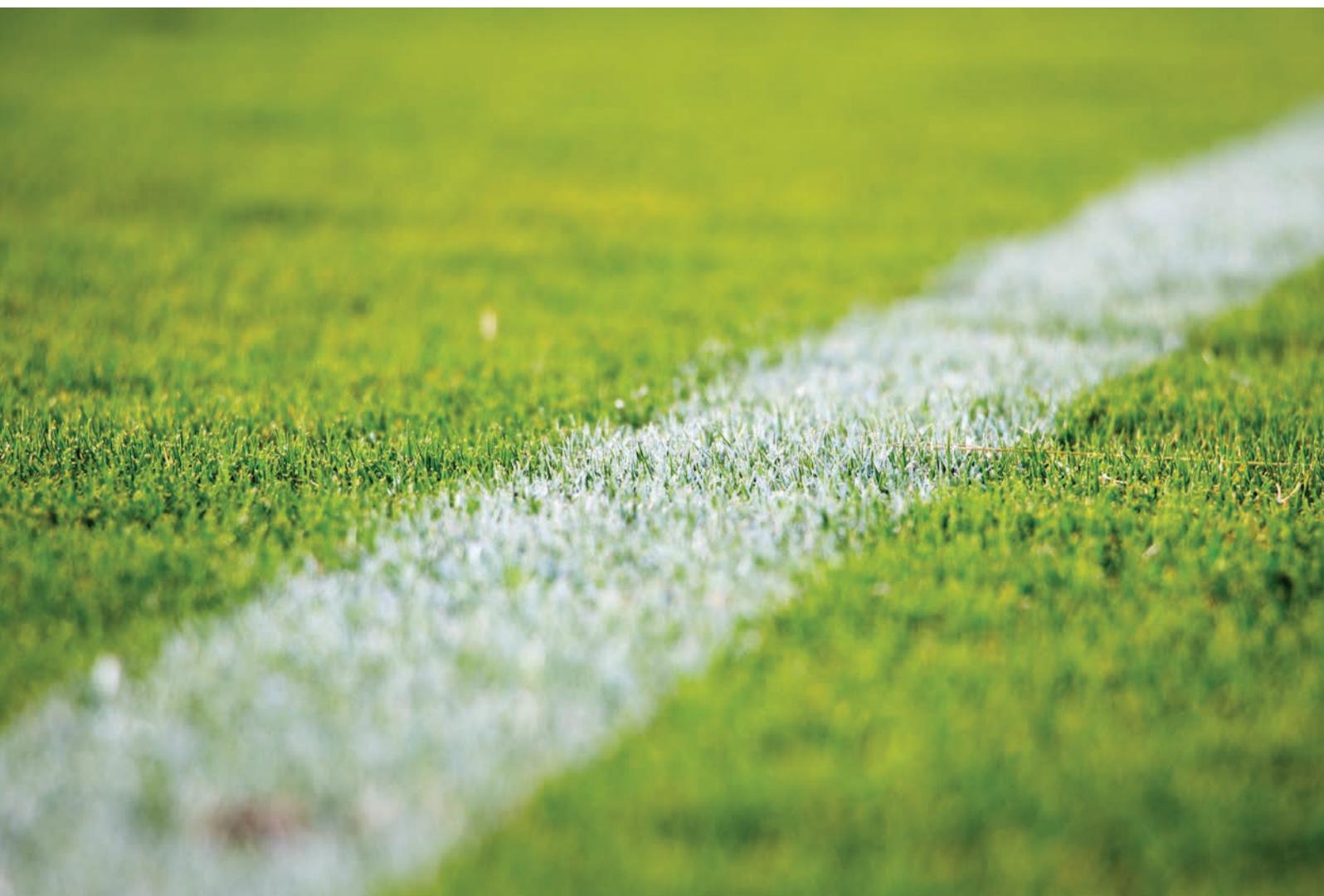


Extreme tolerance to salinity and drought

- Broad resistance to diseases, especially leaf diseases.
- Maximum density in difficult conditions.
- Very fast establishment.
- Tolerates mowing heights >12 mm.
- Excellent appearance throughout the entire year.



KENTUCKY BLUEGRASS	Poa pratensis x Poa texas	American type and fast establishment				Midnight type and high density varieties	
	BLUE GEM	FIELD PRO	JERSEY	STRENUUS	JUMPSTART	PRAFIN	RIGHT
Seeding rate g/m ²	10-15	10-15	10-15	15-20	10-15	10-15	10-15
Overseeding rate g/m ²	20	5-10	5-10	20	20	5-10	20
Seeds per gram	2,497	2,750	2,850	2,500	2,750	2,400	2,549
Days to germination	17-24	7-12	7-12	7-10	7-12	15-20	15-30
Recommended planting dates	Spring-fall	Spring-fall	Spring-fall	Spring-fall	Spring-fall	Spring-fall	Spring-fall
Color	Dark	Dark	Medium	Dark	Medium	Dark	Dark
Establishment	Medium	Very fast	Very fast	Fast	Very fast	Medium	Medium
Growth	Slow	Slow	Slow	Slow	Slow	Slow	Slow
Leaf texture	Fine	Fine	Fine	Fine	Medium	Fine	Medium
Spreading activity	Rhizomes	Rhizomes	Rhizomes	Rhizomes	Rhizomes	Rhizomes	Rhizomes
Maintenance	Medium	Low	Low	Medium	Medium	Medium	Medium-high
Fertilizing needs	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Shade tolerance	High	Medium-high	High	Medium	Medium	Medium-high	Medium
Winter dormancy	No	No	No	No	No	No	No
Disease resistance	Leaf spot, Roya, Summer patch, Dollar spot	Leaf spot, Rust, Summer patch, Dollar spot	Powdery mildew, Rust	Summer patch	Leaf spot, Roya, Summer patch, Dollar spot	Leaf spot, Roya, Summer patch, Dollar spot, Antracnosis	Pythium, Brown patch, Summer patch
Recovery capacity	Excellent	Excellent	Excellent	Very good	Excellent	Very good	Excellent
Traffic tolerance	Excellent	Excellent	Excellent	Excellent	Good	Excellent	Excellent
Heat tolerance	Excellent	Excellent	Excellent	High	Excellent	Excellent	Excellent
Mowing height	From 12 mm	From 12 mm	From 12 mm	From 12 mm	From 15 mm	From 12 mm	From 12 mm
Mowing frequency	Medium	Medium	Medium	Medium	High	Medium	Medium
Irrigation needs	High	Medium	Medium	Medium	Low	Medium	Medium
Salt tolerance	Medium	Medium	Medium	Medium	Medium	High	Excellent
Endophyte-enhanced	Yes	Yes		Yes	Yes	Yes	Yes



Poa Trivialis

Did you know turfgrass heavily reduces environmental noise pollution?



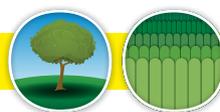
Cool-season grass (C3), with a fine leaf texture, light green colour and stoloniferous growth habit. Tolerant to cold and wet conditions. Moderate shade tolerance and little persistence in summer.

Applications:

Overseeding of warm-season grasses (*Cynodon* spp., *Paspalum vaginatum*, *Zoysia* spp., etc.) to improve colour in winter, especially on sports fields.



QUASAR



Smooth transition

- Very small seed size which allows for easy overseeding on dormant (C4) varieties.
- Fast to establish at low temperatures.
- Magnificent dark green colour.
- Excellent spring transition.
- Recommended for overseeding of greens, tees and golf course fairways.



WINTERWAY



Very fast

- Excellent quality for golf greens.
- Maximum density and quality.
- Excellent traffic resistance.
- Highly shade-tolerant.
- Recommended for overseeding on all areas of the golf course (tees, greens and fairways).



Poa Trivialis

Species	<i>Poa trivialis</i>	
Variety	QUASAR	WINTERWAY
Seeding rate g/m ²	20	20
Overseeding rate g/m ²	25-50	25-50
Seeds per gram	4.400	5.350
Days to germination	5-8	5-8
Recommended planting dates	20°C in the soil during fall	
Color	Dark	Dark
Establishment	Fast	Fast
Growth	Slow	Slow
Leaf texture	Fine	Fine
Spreading activity	Rhizomes	Rhizomes
Maintenance	Low	Low
Fertilizing needs	Low	Low
Shade tolerance	High	High
Winter dormancy	No	No
Cold tolerance	High	Excellent
Disease resistance	Rust, Leaf spot	Leaf spot, Rust, Summer patch, Dollar spot
Recovery capacity	Excellent	Excellent
Traffic tolerance	Excellent	Excellent
Heat tolerance	Limited	Low
Mowing height	3-30 mm	From 7 mm
Mowing frequency	Low	Medium
Irrigation needs	High	High
Endophyte-enhanced	No	No



Poa bulbosa

RADIX 307

NEW



Ideal for winter coverage with minimal water requirements

- Annual species, which regenerates through bulbs.
- Vegetates during winter months and has slow growth with temperatures above 25°C.
- Maximum resistance to drought.
- Low seeding rates. 10g/m².
- Ideal for winter overseeding to improve colour.

Creeping Bentgrass

(*Agrostis stolonifera*)

Did you know turfgrass acts like a water purifier for the soil and helps to avoid soil erosion?



Cool-season (C3) fine-textured, dense grass with an aggressive, creeping growth habit. Tolerates mowing heights from 2-3 mm. Very high maintenance turfgrass.

Applications:

Greens, golf course tees and fairways, tennis courts, high-maintenance lawns.



High density with less inputs. For greens, tees and golf course fairways

Bright green color

TOUR PRO



The new generation with fewer inputs

- New generation. No 1 NTEP.
- Excellent seedling vigour and establishment.
- Elegant and slow growing turf.
- Produces durable surface with medium to fine leaf texture.
- Extremely traffic tolerant.
- Drought and salt tolerant.
- Excellent resistance to dollar spot and brown patch.
- Very aggressive against *Poa annua* infestation.
- Medium green colour.
- Less prone to discolouration during winter months.



Average quality data for different *Agrostis* varieties grown in greens in four locations in the USA for LPI group 2 (NTEP 2018)

Median of general appearance ratings of *Agrostis stolonifera* in greens

Variety	General appearance
High	6.5
TOUR PRO	6.4
LUMINARY	6.2
Low	4.4
LSD Value	0.3
CV	9.0

Results of American trials. 2015-2019. 1-9; 9 = best.

Name	Entrance	GA3	VA1	KS1	IA1	Average
TOUR PRO	15	7.3	7.3	6.9	7.0	7.1
DLFPS-AP/3018	3	7.2	7.3	6.9	7.0	7.1
DLFPS-AP/3059	6	7.1	7.1	6.7	6.7	6.9
Kingdom	12	7.1	7.1	6.7	6.8	6.9
Nightlife	13	7.1	7.1	6.7	6.7	6.9
Piranha (DC-1)	16	6.9	7.0	6.7	7.0	6.9
Barracuda	19	7.0	7.1	6.7	6.8	6.9
777 (DLFPS-AP/3054)	2	7.0	7.0	6.7	6.8	6.9
Luminary	1	6.9	7.0	6.6	6.7	6.8
Shark	18	6.8	6.9	6.5	6.5	6.7
V-8	14	6.8	6.9	6.5	6.6	6.7
Pure Select	7	6.8	6.8	6.5	6.6	6.7
L-93 XD	10	6.6	6.6	6.4	6.7	6.6
Valderrama	8	6.8	6.8	6.4	6.4	6.6
Armor	11	6.7	6.8	6.3	6.3	6.5
DLFPS-AP/3056	4	6.5	6.5	6.3	6.5	6.4
Declaration	20	6.4	6.5	6.2	6.3	6.4
Pure Eclipse (PST-ROPS)	17	6.2	6.3	6.1	6.3	6.2
Penncross	9	6.0	6.0	5.5	5.3	5.7
LSD Value		1.1	1.1	1.1	1.1	1.1
C.V.(%)		9.6	9.6	10.1	10.0	9.8

Levels 1 to 9; 9 = best.

	Winter color	Dollar spot resistance	Spring green up	Trampling stress tolerance	Average overall appearance
TOUR PRO	7.1	8.9	5.8	5.3	6.5
777	7.1	8.0	5.7	5.3	6.6
V-8	6.4	8.6	6.2	4.8	6.6
L-93 XD	6.4	8.7	5.9	5.9	6.7
Valderrama	5.8	8.4	4.7	4.3	5.9
Declaration	6.9	8.9	6.1	4.3	6.3
Penncross	6.1	8.2	3.8	3.2	4.5
LSD	0.7	0.6	0.5	0.4	0.2

NTEP Classification 2018, 1-9; 9 = ideal lawn.

High density varieties with moderate maintenance

Ideal for greens, tees and fairways

007 DSB



Reduced fungicide use

- No 1 NTEP. Improvement of L-93 and southshore varieties.
- Magnificent resistance to dollar spot.
- Vigorous, uniform and moderately dense growth.
- Excellent winter aspect with no discolouring.
- Ideal under stress conditions.



LUMINARY



Exceptional performance across multiple regions

- Resistant to dollar spot, snow mould as well as summer diseases.
- Requires fewer chemical applications.
- Resilient & wear tolerant with good recovery from ball marks. Reduced thatch buildup.
- Compatible with other *Agrostis* varieties in overseeding and competes well with *Poa annua*.
- Versatile for golf course greens, tees and fairways.



High density varieties

Ideal for greens

TEEONE (T-1)



Darkest variety in colour

- Very aggressive growth against *Poa annua*.
- Rapid repair of ball marks and divots.
- Dark bluish-green colour.
- Maximum shoot density but creates very little thatch.
- Moderate maintenance and optimal green speed.

VALDERRAMA



Maximum resistance against dollar spot

- Very competitive against *Poa annua*.
- Salinity tolerant.
- Heat tolerant.
- Maintains excellent winter colour.
- Vigorous and uniform with moderate, dense growth.
- Reduced maintenance costs.

Evaluations of resistance to dollar spot of *Agrostis stolonifera* in greens

Variety	GA3	IA1	IN1	KS1	KY1	MI1	MN1	MO1	NC1	NJ1	VA1	MEAN
High	8.2	9.0	8.3	8.5	8.3	8.8	6.8	8.7	8.4	7.0	4.7	8.1
TOUR PRO	8.7	8.8	8.7	8.4	8.0	8.9	6.7	8.9	7.4	7.5	4.7	8.0
LUMINARY	8.0	8.7	8.3	8.3	8.3	8.3	6.2	8.5	7.7	6.7	4.2	7.7
Low	6.8	6.2	4.9	3.9	2.3	5.0	2.2	3.9	5.4	3.5	4.8	4.6
LSD Value	0.9	0.9	1.4	1.3	1.0	1.2	1.9	1.8	1.5	1.2	1.7	0.6
C.V. (%)	7.1	6.2	11.2	11.4	9.0	9.2	23.9	15.0	13.6	12.8	23.6	12.7

Results of American trials. 2015-2019. 1-9, 9 best

Mean turf quality ratings of bentgrass cultivars grown on a green at four locations in the US for LPI group 2 (NTEP 2018)

Variety	DATA 2015-2018	DATA 2015-2018	DATA 2015-2019	DATA 2015-2019	DATA 2015-2019	DATA 2015-2019	DATA 2014	DATA 2015-2019	DATA 2015-2019	DATA 2019
	Color recovery in spring	Medium trampling tolerance	Winter color	Resistance to Dollar spot	Resistance to Brown patch	Color 9 (maximum)	Establishment force	% Average coverage in spring	% Average coverage in summer	General appearance
TOUR PRO	4.8	5.6	6.5	8.0	7.4	6.4	6.7	92.0	97.3	7.3
PIRANHA (DC-1)	4.2	5.4	6.4	7.6	7.9	6.7	5.5	86.6	92.1	7.1
LUMINARY	4.3	5.1	6.5	7.7	7.5	6.6	5.3	89.5	94.9	7.0
777	4.3	5.5	6.4	7.1	7.5	6.7	6.6	91.4	95.8	6.9
DECLARATION	4.0	4.6	6.0	8.0	6.9	6.2	6.5	88.8	93.7	6.7
L-93XD	4.3	5.2	6.0	8.1	6.9	6.3	5.9	83.1	94.9	7.1
PENNCROSS	2.2	3.6	5.5	7.0	7.4	5.4	6.5	85.1	93.9	5.6
VALOR LSD	1.1	0.9	0.6	0.6	1.4	0.4	0.9	8.8	7.9	1.1

NTEP Classification 2018, 1-9, 9 = best. LSD: least significant difference

Creeping Bentgrass

CREEPING BENTGRASS	High density with medium green color	High density with dark green color	
Variety	TOUR PRO	TEEONE (T-1)	VALDERRAMA
Use	Greens, tees and fairways	Greens, tees	Greens, Tees and Fairways
Seeding rate g/m ²	5-8	5-8	5-8
Overseeding rate g/m ²	5-8	5-15	5-15
Seeds per gram	15,200	14,640	13,245
Days to germination	3-5	2-5	7
Color	Medium	Very Dark bluish	Medium
Establishment	Very fast	Very fast	14-21 days
Growth	Upright	Upright	Upright
Leaf texture	Fine	Fine	Fine
Endophyte-enhanced	Si	Si	Yes
Fertilizing needs	Low	Low	Medium
Thatch tendency	Medium	Medium-high	Medium
Topdressing and verticutting needs	Medium	High	Medium
Ball mark recovery	Very fast	Very fast	Fast
Shade tolerance	Medium-high	Medium-high	Medium
Winter-active growing	Excellent	Excellent	Excellent
Dollar spot resistance	Excellent	Moderate	Excellent
Brown patch resistance	Excellent	Moderate	Excellent
Poa annua resistance	Excellent	Excellent	Excellent
Traffic tolerance	Excellent	Excellent	Very high
Summer stress tolerance	Excellent	High	Moderate
Bentgrass bloat-scalp	No	No	Moderate
Mowing height	3-5 mm	3-5 mm	3-5 mm
Irrigation needs	Medium	High	High
Salt tolerance	Excellent	High	Excellent

CREEPING BENTGRASS	High density and moderate maintenance	
Variety	007 DSB	LUMINARY
Use	Greens, Tees and Fairways	
Seeding rate g/m ²	5-8	5-8
Overseeding rate g/m ²	5-15	5-15
Seeds per gram	14,000	13,200
Days to germination	3-5	3-5
Color	Dark	Medium
Establishment	Very fast	Fast
Growth	Upright	Upright
Leaf texture	Very fine	Fine
Endophyte-enhanced	Yes	Yes
Fertilizing needs	Medium	Medium
Thatch tendency	Medium	Medium
Topdressing and verticutting needs	Medium	Medium
Ball mark recovery	Fast	Fast
Shade tolerance	Medium	Medium
Winter-active growing	Excellent	Excellent
Dollar spot resistance	Excellent	Excellent
Brown patch resistance	Excellent	Excellent
Poa annua resistance	Excellent	Excellent
Traffic tolerance	Excellent	Excellent
Summer stress tolerance	Excellent	Excellent
Bentgrass bloat-scalp	No	Moderate
Mowing height	3-6 mm	3-6 mm
Irrigation needs	Medium	Medium
Salt tolerance	Excellent	Medium



Agrostis Castellana

Cool season grass (C3) of medium to thick leaf texture and robust stolons. Tolerates cutting heights >10 mm. Lower mowing heights can reduce density and affect appearance negatively.

Uses:

Low maintenance areas in cooler zones and low-quality gardening.

HIGHLAND

Standard

- Common variety of medium to low quality. Used in mild climates.
- Used in low-maintenance mixtures. Fine leaf species.



Agrostis Tenuis

Cool season (C3) grass with erect growth and less lateral growth than other varieties of *Agrostis stolonifera*. Very good traffic tolerance with a bright green colour.

Uses:

For use on golf course greens and decorative gardening in mild climates with low maintenance needs.



ABERROYAL

Moderate maintenance

- Excellent winter performance.
- Bright green color.
- Excellent Dollar spot resistance.
- Wear-tolerant.
- Mowing height from 10 mm.



Species	<i>Agrostis castellana</i>	<i>Agrostis tenuis</i>
Variety	HIGHLAND	ABERROYAL
Seeding rate g/m ²	5-10	5-8
Overseeding rate g/m ²	5-15	5-15
Overseeding with bermuda g/m ²	No	10-20
Seeds per gram	11,640	11,500
Days to germination	7-10	7-10
Recommended planting dates	Spring-fall	Spring-fall
Color	Bright	Medium
Establishment	Slow	Slow
Growth	Upright	Upright
Leaf texture	Medium	Fine
Maintenance	Low	Low
Fertilizing needs	Low	Low
Shade tolerance	Low	Medium
Winter purpling	No	No
Disease resistance	No	Dollar spot, Brown patch
Recovery capacity	Low	Excellent
Traffic tolerance	Low	Medium
Heat tolerance	High	High
Mowing height	From 15 mm	10 mm
Mowing frequency	Low	Low
Irrigation needs	Medium	Medium
Salt tolerance	Low	Low



Other cool-season species (C3)

Species	<i>Agropyrum cristatum</i>	<i>Agropyrum intermedium</i>	<i>Brachypodium phoenicoides</i>	<i>Cynosorus cristatus</i>	<i>Descampsia cespitosa</i>	<i>Poa annua</i>	<i>Poa nemoralis</i>	<i>Poa supina</i>	<i>Puccinellia distans</i>
Variety	COMÚN	COMÚN	COMÚN	COMÚN	BALOU	TWO PUTT	ENHARY	SUPRANOVA	FULTS
Seeding rate g/m ²	40-50	40-50	30	35	20	10-15	10	10	10-15
Overseeding rate g/m ²	50	50	40	50	25	10-15	15	10	15
Seeds per gram	450	1,590	282	475	1,780	5,000	5,200	5,350	4,180
Days to germination	15-30	15-30	15-20	15-20	15-20	3-7	5-10	5-10	10-14
Recommended planting dates	Spring-fall								
Color	Medium-dark	Medium-dark	Dark	Medium	Medium	Medium	Medium	Medium	Medium
Establishment	Slow	Slow	Slow	Medium	Medium	Fast	Medium	Medium	Medium
Growth	Slow	Slow	Slow	Slow	Slow	Fast	Medium	Slow	Slow
Leaf texture	Coarse	Coarse	Medium	Medium-coarse	Medium	Fine	Fine	Fine	Fine
Mowing frequency	Medium-low	Medium-low	Low	Medium	Medium	Medium	Medium	High	Medium
Mowing height	From 40 mm	Since 40 mm	Since 30 mm	30-50 mm	20-50 mm	From 1.8 mm	Since 10 mm	3-10 mm	20-50 mm
Maintenance	Low	Low	Very low	Medium	Medium	Medium	Medium	High	Low
Fertilizing needs	Low	Low	Very low	Low	Low	Medium	Low	High	Very low
Cold tolerance	High	High	High	High	High	High	Maximum	High	No
Shade tolerance	Medium-high	Medium-high	High	Medium-high	High	High	High	Medium	Medium-high
Disease resistance	High	High	High	Fair	Fair	Fair	Fair	Fair	Medium-high
Recovery capacity	High	High	High	Medium	Medium	High	Low	High	Medium
Traffic tolerance	High	High	Medium	High	High	High	Low	High	Low
Heat tolerance	Medium-high	Very high	Very high	Low	Low	Medium	Low	Low	High
Salt tolerance	High	High	High	Low	Low	Medium	Very low	Low	Excellent
Irrigation needs	Very low	Very low	Very low	Moderate-high	Moderate-high	Medium	High	High	Medium-low
Endophyte-enhanced	No	No	No	No	No	No	No	No	No



A high-angle photograph of a golf course. The foreground is dominated by a dense, vibrant green lawn. In the middle ground, a large, well-maintained green with a white flag is visible. To the right of the green, a dark pond is bordered by a wooden retaining wall. The background features a line of tall, thin trees and a distant building. The overall scene is bright and clear, suggesting a sunny day.

Did you know that solar energy is the fuel for plants and is absorbed through the leaves through chlorophyll? The darker the colour, the more chlorophyll, therefore, more resistance to stress

Warm-season grass

(Cynodon dactylon)

Did you know that grass is an ideal crop to irrigate using recycled water due to its high tolerance to salinity, its high nitrogen needs and its purifying effect?



Bermudagrass

Warm-season grasses (C₄) require a minimum soil temperature of 18°C to germinate and begin to lose colour when soil temperatures drop below 12°C. They have a lateral growth by stolons and rhizomes.

Uses:

Sports fields, football pitches, polo, horse racetracks, golf course fairways, tees and rough, public and private gardening with very low water consumption. Also used in the production of sod.



WARM-SEASON (C₄)

Bermuda Seed Varieties

IBIZA



The solution against drought, heat, cold and salinity

- New generation in hybrid bermudagrass seed.
- Requires 20% less water compared to other bermudagrass varieties.
- High salinity tolerance.
- Excellent density comparable to vegetative (sod) varieties.
- Excellent winter-hardiness.
- Optimum autumn colour retention.
- Spring green-up faster than other bermudagrasses.
- Germinates in 7 days in optimal conditions thanks to the FITÓ OPTIMA seed enhancement.
- Exceptional wear tolerance and recovery from traffic.
- Genetically darker green colour.
- Maximum resistance to spring dead spot.



Especially recommended for use on sports fields, horse racetracks, tees and fairways on golf courses and public and private lawns.



Type TIFWAY 419 bermudagrass varieties

MONACO



Color retention and cold resistance

- High density.
- Exceptional winter resistance.
- Good colour retention, especially during the autumn months.
- Genetically darker green colour.
- Exceptional wear tolerance.

Ideal for greens, tees and fairways on golf courses, football pitches, horse racetracks, polo, tennis and public and private gardening in the Mediterranean area and the Canary Islands.



Winter look

Improved Bermudagrass common type

GOBI



Very fast

- Mediterranean type with unbeatable drought and salt tolerance.
- Very fast establishment with great recovery capacity.
- Produces less thatch.
- Mowing height from 15 mm.
- Low maintenance needs.
- Resistant to spring dead spot and dollar spot.

Suitable for landscaping, public and private lawns, sport fields, and golf course rough.



Winter look

MED PRO SLT



The most resistant Bermuda against salinity

- Maximum tolerance to salinity.
- Excellent spring colour recovery.
- Exceptional traffic tolerance.
- Fast establishment.
- Great recovery capacity.
- Outstanding wear tolerance.

Ideal for tees and fairways on golf courses, sports fields, horse racetracks, as well as public and private landscaping and soil stabilisation projects.



Winter look

Species	<i>Cynodon Dactylon</i>			
Variety	IBIZA	MONACO	GOBI	MED PRO SLT
Seeding rate g/m ²	10-15	10-15	10-15	6.5-13
Overseeding rate g/m ²	10	10	10	6.5-15
Seeds per gram	1,950	1,860	2,200	2,150
Days to germination	7-10	7-10	5	5
Recommended planting dates	Spring - summer	Summer	Summer	Late spring-summer
Color	Medium	Dark	Medium	Medium dark
Establishment	Medium	Medium	Very fast	Fast
Growth	Medium	Slow	Very fast	Medium-fast
Leaf texture	Fine	Fine	Medium	Medium-fine
Spreading activity	Rhizomes and stolons	Rhizomes and stolons	Rhizomes and stolons	Rhizomes and stolons
Maintenance	Medium	Medium	Medium-low	Low
Fertilizing needs	Medium	Low	Low	Low
Shade tolerance	Medium	Low	Low	Low
Winter dormancy	Below 9°C	Below 9°C	Below 12°C	Below 12°C
Cold resistance	Excellent	Excellent	High	High
Disease resistance	Spring dead spot, Dollar spot	Spring dead spot, Dollar spot	Spring dead spot	Spring dead spot
Recovery capacity	Excellent	Excellent	Excellent	Excellent
Traffic tolerance	Excellent	Excellent	High	Exceptional
Heat tolerance	Excellent	Excellent	Excellent	Excellent
Mowing height	From 10 mm	From 10 mm	From 15 mm	From 10 mm
Mowing frequency	Low	Low	Medium	Medium
Drought tolerance	Excellent	Excellent	Excellent	Excellent
Salinity tolerance	Excellent	Excellent	High	Excellent



Seashore Paspalum, Knot Grass

(Paspalum vaginatum)



Warm-season grass (C4) that requires minimum soil temperatures over 18°C to germinate, losing colour below 4°C. Rhizomatous and stoloniferous growth habit. Outstanding salt tolerance.



Uses:

- Soils with high salt content and areas with poor quality irrigation water, soccer fields, horse racetracks, polo fields, greens, tees, fairways and rough on golf courses, public and private lawns.
- Should be seeded when soil temperatures are above 18°C.

PURE DYNASTY



The new generation of Paspalum in seed

- Exceptional quality PLATINUM TE variety.
- Maximum salinity tolerance.
- Allows you to seed grass in extreme salinity conditions.
- Bright dark green colour.
- Requires a balanced fertilization (especially calcium and manganese) during establishment.

For greens, tees, fairways, rough, sports fields, public and private gardening.



Winter look

Paspalum notatum

C4 turfgrass species with a thick leaf texture which is better suited to a warm climate. Adapts to a wide range of soil conditions including slightly acidic and infertile soils. It propagates easily by seed and forms a very resistant and open sward, especially suitable for stabilising land.

PENSA PRO



Best drought tolerance

- Requires at least 8 hours of daily sunlight.
- Excellent tolerance to direct sunlight.
- Coarse texture.
- Excellent drought tolerance.
- Excellent resistance to diseases.
- Very resistant to foot traffic..



Winter look

Kikuyu

(Pennisetum clandestinum)

Warm-season grass (C4) which requires minimum soil temperatures of 18°C for germination and loses colour below 4-5°C. Spreads by vigorous rhizomes and stolons. Maximum heat and drought tolerance. Highly traffic tolerant and resists low mowing heights. Can be seeded in its pure form or mixed with other varieties.

Uses:

Coastal areas with soils high in salt content where only low-quality water is available. Public and private lawns, sports fields and public paths.

Seed variety

AZ-1

Less aggressive

- Longest active growth period and resists dormancy in coastal areas.
- Finer stolons, less prone to seed heads.
- Does not create much thatch.
- Spring dead spot and brown patch resistant.

Recommended for public and private gardens and sports fields.



WARM-SEASON (C4)



Winter look



Species	<i>Paspalum vaginatum</i>	<i>Paspalum notatum</i>	<i>Kikuyu</i>
Variety	PURE DYNASTY	PENSA PRO	AZ-1
Seeding rate g/m ²	6,5-13	30-45	5-15
Overseeding rate g/m ²	10	20	10
Seeds per gram	720	440	515
Days to germination at 30°C	7-10	7-21, with 30°C	7-10
Recommended planting/sowing dates	Summer	Spring - summer	Summer
Color	Dark bright	Medium	Medium - dark
Establishment	Fast	Fast	Fast
Growth	Slow, rhizomatous	Fast	Fast
Leaf texture	Fine	Thick	Coarse
Spreading activity	Rhizomes and stolons	Rhizomes and stolons	Rhizomes and stolons
Maintenance	High	Low	Medium
Fertilizing needs	Low but specific	Low	Low
Shade tolerance	Medium - high	Medium	Medium - high
Winter dormancy	Below 0°C	Below 12°C	Below 4°C
Cold resistance	Low	Low	High
Disease resistance	Spring dead spot, Dollar spot	-	Spring dead spot, Brown patch
Recovery capacity	Excellent	Low	Excellent
Traffic tolerance	Excellent	Medium	Excellent
Heat tolerance	Excellent	High	Excellent
Mowing height	5-30 mm	30-50 mm	5-30 mm
Mowing frequency	Medium-low	Low	Medium - high
Drought tolerance	Very high	Very high	Very high
Salt tolerance	Unbeatable	Medium-high	Excellent



Zoysiagrass

(*Zoysia japonica*, *Zoysia matrella*, *Zoysia tenuifolia*, *Zoysia hibrida*)

Warm-season grass (C4), which require soil temperatures above 18°C to germinate and loses colour when temperatures drop below 10°C although some leaves remain green, even in frosty conditions. Very slow establishment. Spreads by stolons and rhizomes. Maximum tolerance in conditions of heat, drought and salinity. Moderate traffic tolerant. Low maintenance that does not need frequent mowing.

Uses:

Sustainable turf. Low maintenance turf for use on public and private lawns, areas with little access to irrigation and zones that do not require much mowing.



WARM-SEASON (C4)

Seed variety of *Zoysia japonica*

ZENPRO



Easier to establish

- Medium leaf texture.
- Faster to establish (3 to 4 months) than all vegetative varieties.
- Maximum rusticity and very low water requirements.
- Does not require frequent mowing (4-5 mowing a year).

Ideal for minimal maintenance gardening.



Winter look

Species	<i>Zoysia japonica</i>
Variety	ZENPRO
Seeding rate g/m ²	5-15
Overseeding rate g/m ²	10
Seeds per gram	1,409
Days to germination at 30°C	14-35
Recommended planting/ sowing dates	Spring - summer
Color	Medium-Dark
Establishment	Slow
Growth	Slow
Leaf texture	Medium
Spreading activity	Rhizomes and stolons
Maintenance	Low
Fertilizing needs	Very Low
Mowing frequency	Very Low
Mowing height	10-30 mm
Shade tolerance	Medium
Winter dormancy	Below 7°C
Disease resistance	Spring dead spot, Brown patch
Recovery capacity	Low
Traffic tolerance	Medium
Heat tolerance	Excellent
Drought tolerance	Excellent
Salt tolerance	Excellent

C4 varieties for shade situations

American grass or Saint Augustine Grass

(*Stenotaphrum secundatum*)

Warm-season grass (C4) with coarse leaf texture, widely used throughout the Mediterranean for its shade tolerance, low maintenance and ability to maintain its green colour, especially during mild winters. With an aggressive, creeping growth habit.

Uses:

Residential public and private gardens in shade or semi-shaded areas, with minimal maintenance needs in a Mediterranean climate.

Seed variety

GRAPRO



The First American Grass Seed

- Excellent shade tolerance in a Mediterranean climate.
- Lateral growth.
- Low maintenance requirements.
- Maintains colour in winter.
- Extremely heat and traffic tolerant.

Ideal for residential areas in full or partial shade.
Minimal maintenance.



Dactyloctenium Australe

(Durban Grass)

Warm-season grass (C₄) that requires soil temperatures above 18°C for active growth and does not lose colour during winter months. Furthermore, it is the most shade-tolerant species of all C₄ grasses, which makes it a very attractive choice for implantation throughout the Mediterranean.

Uses:

Minimal maintenance gardening, full shade areas, trees, no treading, infrequent mowing.

LM



Solution for shade situations

- Adapts very well to areas in full shade.
- Lateral growth.
- High salinity tolerance.
- Maximum tolerance to heat and traffic.

Ideal for low-maintenance public and private gardening in a Mediterranean climate where shade is a problem.



WARM-SEASON (C₄)



Axonopus fissifolius

Warm season grass (C4) with a thick leaf texture, slow growth and light green colour. Adapts well to humid, sandy or acidic soils or on infertile soils to aid in stabilisation. Also used in landscaping. Low maintenance grass with cutting heights of between 2.5 to 5 cm.

Uses:

Public parks, roadsides and other areas to improve the landscape.

BRASIL PRO



Minimum maintenance and shade tolerant

- Grows well in poor soil conditions.
- Tolerates shade.
- Requires little or no fertiliser.
- Competes well with weeds.
- Helps to control erosion.

Ideal for stabilising the ground on steep slopes.



Buffalograss (*Bouteloua dactyloides*)

TEXOKA



Minimum maintenance needs

- Sustainable.
- Maximum tolerance to heat and drought.
- Minimum mowing.
- Low traffic and shadow tolerance.

Ideal for out rough or low maintenance zones in a continental climate.



Winter look



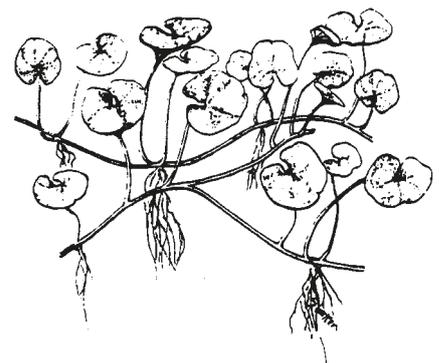
Shade resistant Convolvulaceae

Dichondra Repens

Convolvulaceae species adapted to coastal areas with a mild climate and available irrigation. Broad, globular, ornamental leaf that decreases in size when mowed. Growth is in the form of rhizomes. Requires a minimum soil temperature of 20°C to germinate, with seeding preferably carried out during the months of Spring and Summer. It tolerates sunlight well and has maximum shade tolerance that requires minimal maintenance.

Uses:

Sustainable turf, sun and shade tolerant. Areas that require infrequent mowing. Ornamental.



Species	<i>Stenotaphrum secundatum</i>	<i>Dactyloctenium australe</i>	<i>Axonopus fissifolius</i>	<i>Bouteloua dactyloides</i>
Variety	GRAPRO	LM	BRASIL PRO	TEXOKA
Seeding rate g/m ²	1-3	1-3	10	10
Overseeding rate g/m ²		1-2	5	100 kg/ha
Seeds per gram	2,950	23,130	2,800	605
Days to germination at 30°C	7-10	7-10	7-10	30
Recommended planting/ sowing dates	Spring - summer	Spring - summer	Spring - summer	Summer
Color	Dark	Light	Medium - light	Medium
Establishment	Slow	Fast	Fast	Very slow
Growth	Slow	Medium	Medium	Very slow
Leaf texture	Medium	Medium	Medium	Fine
Spreading activity	Stolons	Stolons	Stolons	No
Maintenance	Low	Low	Low	Very low
Fertilizing needs	Medium	Low	Low	Very low
Mowing frequency	Very low	Very low	Very low	Very low
Mowing height	From 20 mm	From 20 mm	From 20 mm	From 50 mm
Shade tolerance	Excellent	Excellent	Excellent	Very low
Winter dormancy	Below 3°C	Below 3°C	No	Below 12°C
Disease resistance	Gray leaf spot	Spring dead spot	High	-
Recovery capacity	High	High	Excellent	Very low
Traffic tolerance	High	High	High	Very low
Heat tolerance	Excellent	Excellent	Excellent	Very high
Drought tolerance	High	Excellent	Excellent	Very high
Salt tolerance	High	High	High	Medium

Convolvulaceae

Species	<i>Dichondra repens</i>
Variety	COMUM
Seeding rate g/m ²	5-15
Overseeding rate g/m ²	10
Seeds per gram	236
Days to germination at 30°C	7-21
Recommended planting/ sowing dates	Spring - summer
Color	Medium-Dark
Establishment	Slow
Growth	Slow
Leaf texture	Broadleaf
Spreading activity	Rhizomes
Maintenance	Low
Fertilizing needs	Low
Mowing frequency	Very low
Mowing height	From 10 mm
Shade tolerance	Excellent
Winter dormancy	Below 3°C
Disease resistance	-
Recovery capacity	High
Traffic tolerance	Low
Heat tolerance	High
Drought tolerance	Low
Salt tolerance	Low

Other warm season species (C4)

Species	<i>Eremochloa ophiuroides</i>	<i>Stenotaphrum secundatum</i>	<i>Zoysia tenuifolia</i>
Variety	TIFFBLAIR	COMUN	COMUN
Seeding rate g/m ²	5-10	Vegetative multiplication	Vegetative multiplication
Overseeding rate g/m ²	10	Vegetative multiplication	Vegetative multiplication
Seeds per gram	110	The seed does not exist	The seed does not exist
Days to germination at 30°C	10-20	It is established by cutting or sod	It is established by cutting or sod
Recommended sowing dates	Late spring-summer	Cutting in summer	Sod or cutting in summer
Color	Medium	Dark	Light
Establishment	Medium	Slow	Very slow (more than a year)
Growth	Medium	Slow	Very slow
Leaf texture	Medium	Ver thick	Very fine
Spreading activity	Stolons	Stolons	Rhizomes
Maintenance	Very low	Low	Very low
Fertilizing needs	Medium	Medium	Very low
Mowing frequency	Low	Very low	No cut
Mowing height	30-50 mm	10-30 mm	-
Shade tolerance	Very low	Medium	Medium
Winter dormancy	Below 12°C	Below 5°C	Below 0°C
Disease resistance	Brown patch	-	-
Recovery capacity	Very high	High	Very low
Traffic tolerance	Medium	High	Moderate
Heat tolerance	Very high	High	Very high
Drought tolerance	Very high	Medium	Very high
Salt tolerance	Excellent	Medium	Very high

C4 species for minimum maintenance



Appearance in winter



Appearance in summer

Axonopus fissifolius



Appearance in winter



Appearance in summer

Dactyloctenium australe



Appearance in winter



Appearance in summer

Pennisetum clandestinum



Appearance in winter



Appearance in summer

Bouteloua gracilis



Appearance in winter



Appearance in summer

Bouteloua curtipendula



Appearance in winter



Appearance in summer

Schizachyrium scoparium

Mixtures



Mixtures to save water and with less maintenance

SPARRING mixture



Compact and persistent

- Our most popular blend with superior performance.
- Provides endurance and excellent recovery.
- Medium to low cultivation needs. Low mowing and fungicide need.
- High tolerance to heat, drought and salinity.
- Water savings of up to 30% compared to standard cool-season mixtures.

Uses: Public and private lawns, football pitches, horse racetracks, polo fields, Golf course rough and pitch and putt fairways. Also used for sod production.

Packaged: 1 kg, 5 kg and 25 kg.

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> GENIUS	30%	21%
<i>Festuca arundinacea</i> TANK	30%	20%
<i>Festuca arundinacea</i> BIZEM	20%	15%
<i>Lolium perenne</i> RINOVO	10%	10%
<i>Poa pratensis</i> PRAFIN	5%	17%
<i>Poa pratensis</i> JERSEY	5%	17%

CHARACTERISTICS

Seeding rate g/m ²	35
Overseeding rate g/m ²	40-50
Seeds per gram	730
Days to germination	7-12
Recommended planting dates	Spring, end of summer, fall
Color	Dark
Establishment rate	Medium
Growth	Slow
Leaf texture	Medium
Spreading activity	Yes
Maintenance	Low
Fertilizing needs	Low
Shade tolerance	Medium
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Excellent
Mowing height	20-30 mm
Mowing frequency	Low
Irrigation needs	Low
Salt tolerance	High



Mixtures to save water and with less maintenance

RUSTICO mixture



Good quality/price ratio. Low maintenance

- Mixture based on semi-dwarf varieties of *Festuca arundinacea* and *Lolium perenne*.
- Withstands foot traffic and uprooting.
- Resistant to diseases and pests.
- Low water and fertiliser consumption.

Uses: Sports fields, horse racetracks, polo, golf course rough areas, pitch & putt fairways, low-maintenance gardening with maximum hardness. Used as a cover grass for fruit orchards and vineyards.

Packaged: 25 kg.

CHARACTERISTICS

Seeding rate g/m ²	35
Overseeding rate g/m ²	40-50
Seeds per gram	540
Days to germination	5-10
Recommended planting dates	Spring-fall
Color	Dark
Establishment rate	Fast
Growth	Slow
Leaf texture	Medium
Spreading activity	Si
Maintenance	Low
Fertilizing needs	Low
Shade tolerance	Medium
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	20-30 mm
Mowing frequency	Medium
Irrigation needs	Low
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> FIRACES	40%	38%
<i>Festuca arundinacea</i> MÉRIDA	40%	38%
<i>Lolium perenne</i> RINGLES	10%	12%
<i>Lolium perenne</i> LOVER	10%	12%



Mixtures to save water and with less maintenance

RESISTENTE mixture



Rustic and resistant

- Uniform mixture, adapted for low maintenance requirements.
- Savings of up to 30% on irrigation water and 50% on mowing frequency compared to other mixtures. Due to its Mediterranean-type *Festuca arundinaceas*, does not go dormant in the winter. Recovers very well after periods of drought without irrigation.
- Tolerates full sun and partial shade, heat, drought and salinity.

Uses: Horse racetracks, polo, golf course rough, low-maintenance gardening with maximum rusticity. Sod production.

Packaged: 1 kg, 5 kg and 25 kg.

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> FESNOVA	35%	21%
<i>Festuca arundinacea</i> MÉRIDA	30%	22%
<i>Festuca arundinacea</i> GENIUS	30%	22%
<i>Poa pratensis</i> PRAFIN	5%	35%

CHARACTERISTICS

Seeding rate g/m ²	40
Overseeding rate g/m ²	50
Seeds per gram	719
Days to germination	10-15
Recommended planting dates	Spring - fall
Color	Dark
Establishment rate	Medium
Growth	Slow
Leaf texture	Medium
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	Very low
Shade tolerance	High
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Excellent
Mowing height	From 25 mm
Mowing frequency	Very low
Irrigation needs	Low
Salt tolerance	High



Mixtures to save water and with less maintenance

STRONG mixture



The new generation of *Festuca arundinacea* for sports fields

- Low maintenance.
- Fine leaf texture.
- Excellent traffic tolerance and recovery.
- Water savings of up to 30%.
- Maximum drought and shade tolerance.
- Excellent winter activity..

Uses: Public and private gardening with low maintenance and high aesthetics. Rough on golf courses, equestrian and polo fields.

Packaged: 25 kg.

CHARACTERISTICS	
Seeding rate g/m ²	45
Overseeding rate g/m ²	50
Seeds per gram	495
Days to germination	7-12
Recommended planting dates	Spring-fall
Color	Dark
Establishment rate	Fast
Growth	Slow
Leaf texture	Fine
Spreading activity	Yes
Maintenance	Low
Fertilizing needs	Low
Shade tolerance	High
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Excellent
Mowing height	From 10 mm
Mowing frequency	Low
Irrigation needs	Low
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> BIZEM	50%	49%
<i>Festuca arundinacea</i> GENIUS	25%	26%
<i>Festuca arundinacea</i> FESNOVA	25%	24%



Mixtures to save water and with less maintenance

COSTA mixture



For drought and salinity

- Specific blend for use along Mediterranean coastal areas or warm inland areas.
- Savings of up to 50% on irrigation compared to other traditional cool-season grasses.
- Due to its varieties of *Festuca arundinacea*, does not go dormant in the winter months.
- Recovers very well after periods of drought.
- Performs very well in sunny areas and partial shade, as well as heat, drought and salinity conditions.

Uses: Equestrian, polo, golf course rough, low-maintenance gardening with maximum hardiness on coastal sites.

Packaged: 1 kg, 5 kg and 25 kg.

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca arundinacea</i> BIZEM	35%	19%
<i>Festuca arundinacea</i> MÉRIDA	35%	19%
<i>Poa pratensis</i> PRAFIN	10%	30%
<i>Lolium perenne</i> SUN	10%	7%
<i>Cynodon dactylon</i> GOBI	10%	25%

CHARACTERISTICS	
Seeding rate g/m ²	25-35
Overseeding rate g/m ²	50
Seeds per gram	906
Days to germination	7-15
Recommended planting dates	Spring - fall
Color	Dark
Establishment rate	Medium
Growth	Slow
Leaf texture	Medium
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	Very low
Shade tolerance	Medium
Winter dormancy	No
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Excellent
Mowing height	From 25 mm
Mowing frequency	Low
Irrigation needs	Very low
Salt tolerance	Excellent



High-maintenance mixtures with maximum traffic tolerance

SPORT mixture



Fine and traffic-tolerant

- Installs very quickly when incorporating last generation perennial Lolium varieties with great persistence. *Poa pratensis* provides recovery capacity and lateral framing.
- Varieties adapted to low mowing heights and variety which copes under heavy traffic and climatic stresses.
- The result is a high plant density.

Uses: Sports fields, tennis, equestrian, golf course tees and fairways and garden of maximum quality. Sod production..

Packaged: 1 kg, 5 kg and 25 kg.

CHARACTERISTICS

Seeding rate g/m ²	25-35
Overseeding rate g/m ²	40-50
Seeds per gram	1,151
Days to germination	5-10
Recommended planting dates	Spring-fall
Color	Medium dark
Establishment rate	Fast
Growth	Medium
Leaf texture	Fine
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	From 10 mm
Mowing frequency	Medium
Irrigation needs	Medium
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> PROCESS	25%	12%
<i>Lolium perenne</i> GREENLAND	25%	12%
<i>Lolium perenne</i> RINOVO	20%	11%
<i>Poa pratensis</i> FIELD PRO	10%	23%
<i>Poa pratensis</i> PRAFIN	10%	20%
<i>Poa pratensis</i> STRENUUS	10%	21%



High-maintenance mixtures with maximum traffic tolerance

SPORT BLUE mixture



The innovation for sports fields

- Maximum resistance to grey leaf spot and summer diseases.
- *Poa pratensis* provides excellent recovery capacity and lateral growth.
- Quality varieties adapted to low cutting heights and cope well under stressful conditions, either climatic or use which result in a high plant density.
- Can be seeded during summer months.

Uses: Sports fields, tennis courts, horse racetracks, golf course tees and fairways, high maintenance lawns. Sod production.

Packaged: 1 kg, 5 kg and 25 kg.

CHARACTERISTICS

Seeding rate g/m ²	10-15
Overseeding rate g/m ²	25
Seeds per gram	2,480
Days to germination	12-25
Recommended planting dates	Spring - summer
Color	Medium dark
Establishment	Medium
Growth	Slow
Leaf texture	Fine
Mowing frequency	Yes
Mowing height	Medium
Maintenance	Medium
Fertilizing needs	High
Cold tolerance	No
Shade tolerance	High
Disease resistance	Excellent
Recovery capacity	Excellent
Traffic tolerance	High
Heat tolerance	From 12 mm
Salt tolerance	Medium
Irrigation needs	Medium

COMPOSITION	% WEIGH	% SEED COUNT
<i>Poa pratensis</i> PRAFIN	30%	28%
<i>Poa pratensis</i> FIELD PRO	25%	26%
<i>Poa pratensis</i> STRENUUS	25%	23%
<i>Poa pratensis</i> JERSEY	20%	23%



High maintenance and resistance formula, in light color

SPORT LIGHT mixture



Thin and resistant to trampling

- It is installed very quickly by incorporating latest generation perennial Lolium varieties with great persistence. *Poa pratensis* provides recovery capacity and lateral framework.
- They are varieties adapted to low cutting and situations of climatic stress and use.
- The result is a high plant density.

Uses: Soccer fields, tennis fields, horse riding fields, golf course tees and fairways, top quality gardening. Sod production..

Packaged: 1 kg and 25 kg.

CHARACTERISTICS

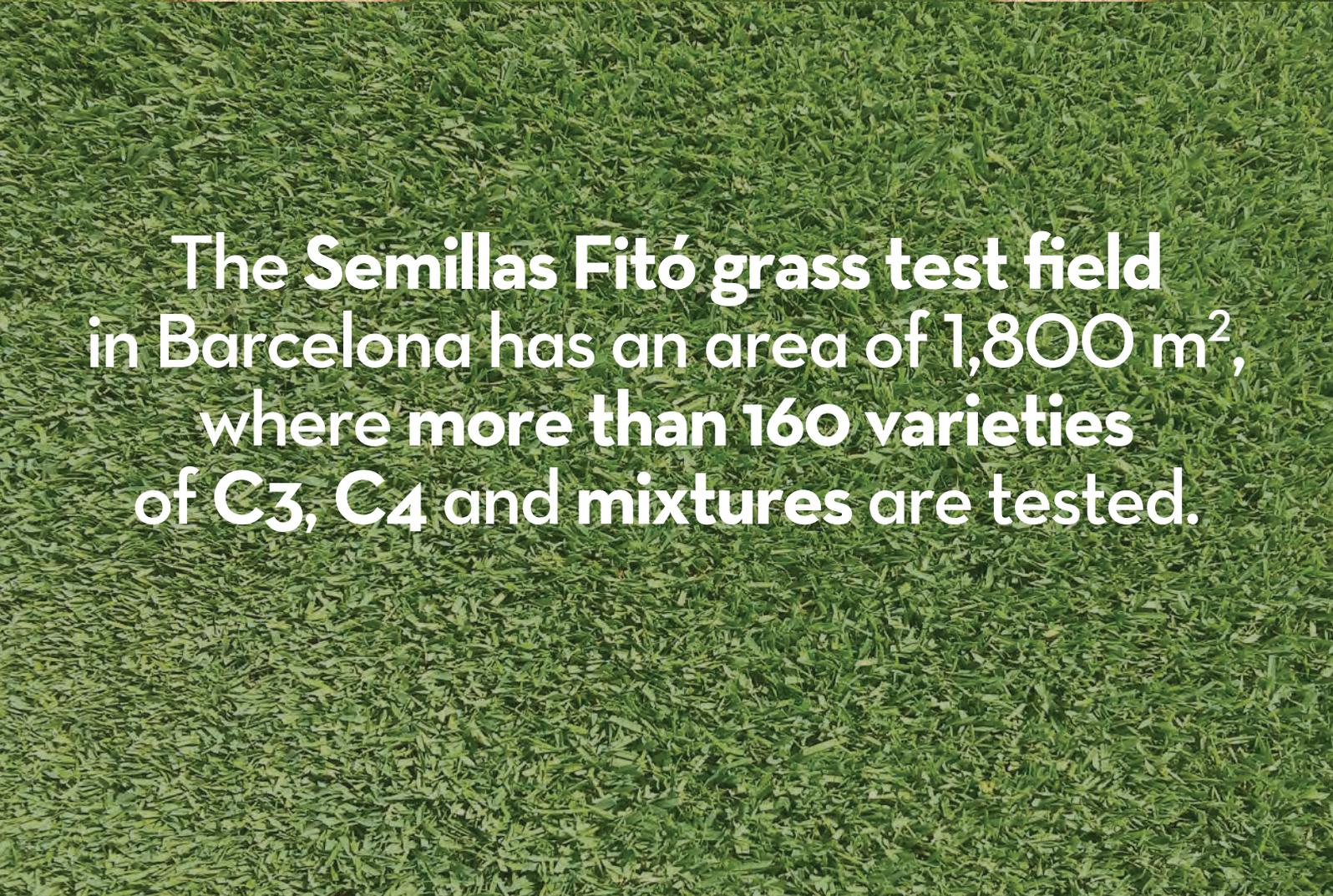
Seeding rate g/m ²	25-35
Overseeding rate g/m ²	40-50
Seeds per gram	1,151
Days to germination	5-10
Recommended planting dates	Spring-fall
Color	Light
Establishment rate	Fast
Growth	Medium
Leaf texture	Fine
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	From 10 mm
Mowing frequency	Medium
Irrigation needs	Medium
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> GREENSPREAD	35%	17%
<i>Lolium perenne</i> ZURICH	35%	18%
<i>Poa pratensis</i> JERSEY	30%	66%





The Semillas Fitó grass test field in Barcelona has an area of 1,800 m², where more than 160 varieties of C3, C4 and mixtures are tested.



Fine leaf textured mixtures

ORNAMENTAL mixture



Fine and fast

- Aesthetic, fine-textured mixture with medium to low maintenance needs.
- Quick laying on the field.
- Well traffic and shade tolerance. Easy recovery.
- Prefers temperate to cold climate though the advanced varieties are also heat-tolerant..

Uses: Public and private lawns with fine sheet texture. Fairways and tees of golf courses.

Packaged: 1 kg, 5 kg and 25 kg.

CHARACTERISTICS

Seeding rate g/m ²	25-35
Overseeding rate g/m ²	40-50
Seeds per gram	874
Days to germination	5-8
Recommended planting dates	Spring-fall
Color	Medium
Establishment rate	Fast
Growth	Medium
Leaf texture	Very fine
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	Medium
Shade tolerance	Medium
Winter dormancy	No
Disease resistance	Medium
Recovery capacity	High
Traffic tolerance	High
Heat tolerance	Medium
Mowing height	From 15 mm
Mowing frequency	Medium
Irrigation needs	Medium
Salt tolerance	Medium

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca rubra rubra</i> RUF1	30%	26%
<i>Lolium perenne</i> RINGLES	25%	15%
<i>Lolium perenne</i> SUN	25%	17%
<i>Festuca rubra rubra</i> FINE PRO	10%	10%
<i>Poa pratensis</i> PRAFIN	10%	32%



Fine leaf textured mixtures

SOMBRA mixture

Fine and ornamental

- Fine-textured mixture specially designed where shade is problematic.
- Moderate mowing and fertiliser needs.
- Prefers temperate climate although can be adapt to warmer climates.

Uses: Public and private lawns. Fairways and tees on golf courses as well as areas in shade.

Packaged: 1 kg, 5 kg and 25 kg.



CHARACTERISTICS

Seeding rate g/m ²	25
Overseeding rate g/m ²	35
Seeds per gram	788
Days to germination	5-8
Recommended planting dates	Spring-fall
Color	Medium
Establishment rate	Medium
Growth	Slow
Leaf texture	Very fine
Spreading activity	Yes
Maintenance	Medium
Fertilizing needs	Medium
Shade tolerance	High
Winter dormancy	No
Disease resistance	High
Recovery capacity	Low
Traffic tolerance	Medium
Heat tolerance	Medium
Mowing height	From 15 mm
Mowing frequency	Low
Irrigation needs	Medium
Salt tolerance	Medium

COMPOSITION	% WEIGH	% SEED COUNT
<i>Festuca rubra rubra</i> RUF1	40%	39%
<i>Festuca Rubra trichophylla</i> PINAFORE	20%	20%
<i>Festuca rubra commutata</i> ZODIAC	20%	27%
<i>Lolium perenne</i> RINGLES	20%	14%



Mixtures for reseeding

CREeping RYE mixture



100% dark-colored, side-growing varieties

- Monospecific mixture based on varieties of *Lolium perenne* ultimate generation characterised by their lateral growth and maximum persistence.
- Excellent for reseeding any worn areas.
- The size of seeds, smaller than other varieties of *Lolium perenne* and its capacity for lateral growth, allows to lower the seeding rate by 30% to 20 g/m².

Uses: In any area such as initial seeding or reseeding. For sod production, high traffic sports fields, tees on golf courses, high maintenance gardens where horizontal and vertical growth is required.

Packaged: 25 kg.

CHARACTERISTICS

Seeding rate g/m ²	20
Overseeding rate g/m ²	30
Seeds per gram	513
Days to germination	3-7
Recommended planting dates	All year
Color	Dark
Establishment rate	Very fast
Growth	Fast
Leaf texture	Fine
Spreading activity	Yes
Maintenance	Medium- High
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	8-20 mm
Mowing frequency	High
Irrigation needs	High
Salt tolerance	Excellent

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> PROCESS	40%	38%
<i>Lolium perenne</i> GREENLAND	30%	29%
<i>Lolium perenne</i> RINOVO	30%	33%



Mixtures for reseeding

LIGHT RYE mixture



With lateral growth and light green colour

- Monospecific mixture based on ultima generation *Lolium perenne* varieties characterised by their light colour, lateral growth and high density and persistence.
- It is characterised by being a formula with varieties of fast establishment and very fine leaf texture.
- Excellent traffic and tolerance.
- Competes very well against *Poa annua*.

Uses: For initial seeding or reseeding.

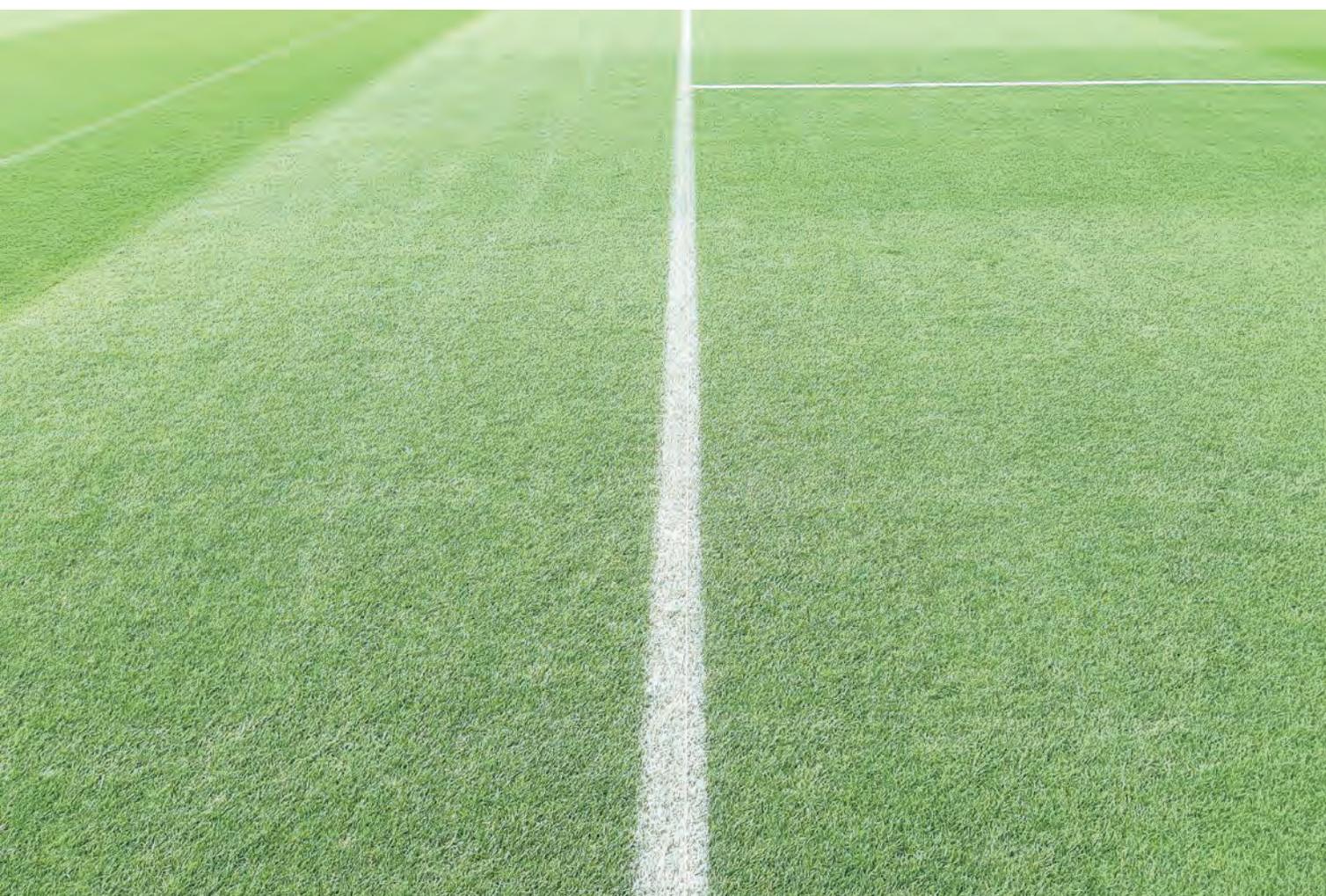
For the formation of sod, sports fields and in areas of high traffic, golf course tees, and high-quality lawns where horizontal and vertical growth is desired.

Packaged: 25 kg.

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> ZURICH	50%	52%
<i>Lolium perenne</i> GREENSPREAD	50%	48%

CHARACTERISTICS

Seeding rate g/m ²	20
Overseeding rate g/m ²	30
Seeds per gram	513
Days to germination	3-7
Recommended planting dates	All year
Color	Light
Establishment rate	Very fast
Growth	Fast
Leaf texture	Fine
Spreading activity	Yes
Maintenance	Medium- High
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Very good
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	From 10 mm
Mowing frequency	High
Irrigation needs	High
Salt tolerance	Medium



Mixtures for reseeding

REPOBLADOR mixture



Quick and easy

- Great mixture that offers the benefits of quick germination with the latest generation ryegrass that resists high foot traffic.
- Excellent for overseeding damaged areas.
- Excellent traffic tolerance and recovery.

Uses: Overseeding any type of grass or as a base mixture for football, polo, tennis, and tees and rough on golf courses.

Packaged: 1 kg, 5 kg and 25 kg.

CHARACTERISTICS

Seeding rate g/m ²	25
Overseeding rate g/m ²	50
Seeds per gram	573
Days to germination	3-7
Recommended planting dates	All year
Color	Dark
Establishment rate	Very fast
Growth	Fast
Leaf texture	Fine
Spreading activity	No
Maintenance	Medium- High
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	High
Mowing height	8-20 mm
Mowing frequency	High
Irrigation needs	High
Salt tolerance	High

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> RINGLES	40%	38%
<i>Lolium perenne</i> LOVER	30%	30%
<i>Lolium perenne</i> SUN	30%	32%

Mixtures for reseeding

FAST mixture

Quick establishment even at low temperatures

- This formula combines a dwarf Italian ryegrass (*Lolium multiflorum*) with a high-quality perennial ryegrass.
- It germinates when soil temperatures are as low as 3°C and also roots very quickly.
- Has maximum tolerance to foot and machinery traffic.
- With the arrival of springtime temperatures, the annual ryegrass disappears smoothly and progressively without the need for herbicides, ensuring a natural transition between varieties.

Uses: Ideal for overseeding on cool-season species (C3) to cover worn areas, or for overseeding warm-season species (C4) in Autumn where a progressive transition without herbicides is desired. Used for overseeding tees and fairways on golf courses, football pitches, equestrian, tennis and lawns.

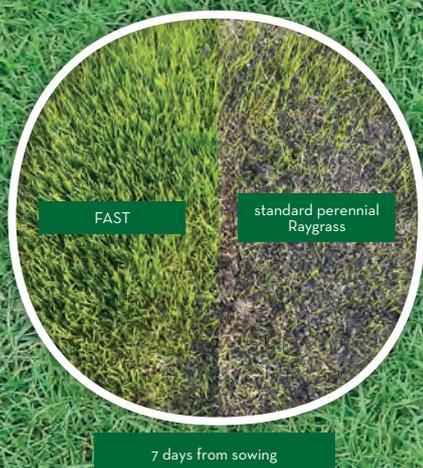
Packaged: 25 kg.

COMPOSITION	% WEIGH	% SEED COUNT
<i>Lolium perenne</i> SUN	50%	60%
<i>Lolium perenne</i> THUNDER	50%	40%



CHARACTERISTICS

Seeding rate g/m ²	30-40
Overseeding rate g/m ²	50
Seeds per gram	508
Days to germination	3-7
Recommended planting dates	Fall - winter - spring
Color	Dark
Establishment rate	Very fast
Growth	Fast
Leaf texture	Fine
Spreading activity	No
Maintenance	Medium-high
Fertilizing needs	High
Shade tolerance	Low
Winter dormancy	No
Disease resistance	High
Recovery capacity	Excellent
Traffic tolerance	Excellent
Heat tolerance	Medium- low
Mowing height	10-20 mm
Mowing frequency	High
Irrigation needs	High
Salt tolerance	Medium



7 days from sowing

Cover mixtures with Wildflowers

JARDIN FLORIDO (wildflowers)



Explosion of color

GENERAL USE

- Wildflowers.
- 60-80 cm height.

Uses: Flower beds, rockeries, borders and to add colour.

Composition: *Iberis umbellata*, *Centaurea cyanus*, *Calendula officinalis*, *Cosmos sulphureus*, *Delphinium consolida mixed*, *Linum perenne*, *Zinnia elegans*, *Coreopsis lanceolata*, *Papaver rhoeas*, *Gaillardia pulchella*, *Chrysanthemum carinatum*, *Chrysanthemum carinatum*, *Coreopsis tinctoria*, *Silene pendula*, *Festuca ovina* Aberfleeze.

Packaging: 10 g (4 m²), 100 g (40 m²), 500 g (20 m²).

ENANO

- Wildflowers.
- 20-30 cm height.

Uses: Flower beds, rockeries, borders and for creating spots of color.

Composition: *Cheiranthus allionii*, *Dimorphotheca sinuata*, *Tagetes patula*, *Calendula officinalis*, *Silene pendula*, *Iberis amara*, *Viola cornuta*, *Dianthus deltooides mixed*, *Lasthenia glabrata*, *Lobularia maritima*, *Malcolmia maritima*, *Phacelia campanularia*, *Saponaria ocymoides*, *Potentilla recta*, *Chrysanthemum paludosum*, *Alyssum saxatile*, *Bellis perennis*, *Festuca ovina* Aberfleeze.

Packaging: 10 g (4 m²), 100 g (40 m²), 500 g (20 m²).



Cover mixtures with **Wildflowers**

CESPED FLORIDO

(meadow mix)



Turf and flower harmony

GENERAL USE

- Wildflowers with low maintenance grasses.
- 60-80 cm maximum height. No traffic.

Uses: Areas where a natural-looking, wildflower lawn is desired.

Composition: *Iberis umbellata*, *Centaurea cyanus*, *Calendula officinalis*, *Cosmos sulphureus*, *Delphinium consolida*, *Linum perenne*, *Zinnia elegans*, *Coreopsis lanceolata*, *Papaver rhoeas* mixed, *Gaillardia pulchella*, *Chrysanthemum coronarium*, *Chrysanthemum carinatum*, *Coreopsis tinctoria* Dwarf, *Silene pendula*, *Festuca ovina* Aberfleeze, *Festuca rubra rubra* Rufi.

Packaging: 500 g (20 m²), 10 kg.

ENANO

- Wildflowers with low maintenance grasses.
- 20 cm maximum height. Withstands light traffic.

Uses: Grass scattered with flowers with low-maintenance needs, out rough, low-maintenance gardens where a wide range of colours is desired.

Composition: *Cheiranthus allionii*, *Dimorphotheca sinuata*, *Tagetes patula*, *Calendula officinalis*, *Silene pendula*, *Viola cornuta*, *Dianthus deltoides* mixed, *Lasthenia glabrata*, *Lobularia maritima*, *Malcolmia maritima*, *Saponaria ocymoides*, *Potentilla recta*, *Alyssum saxatile*, *Beliis perennis*, *Festuca ovina* Aberfleeze, *Festuca rubra rubra* Rufi.

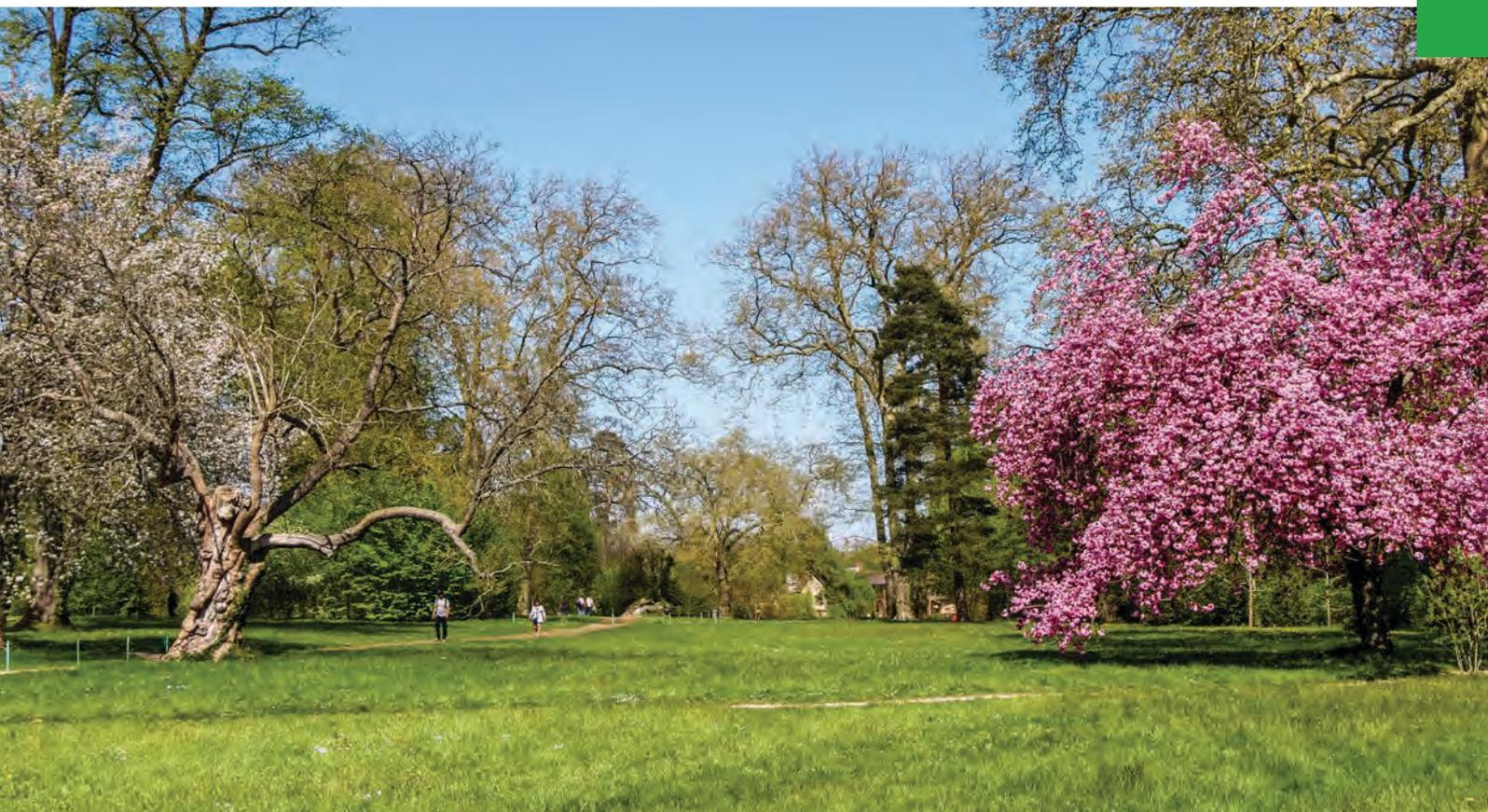
Packaging: 500 g (20 m²), 10 kg.



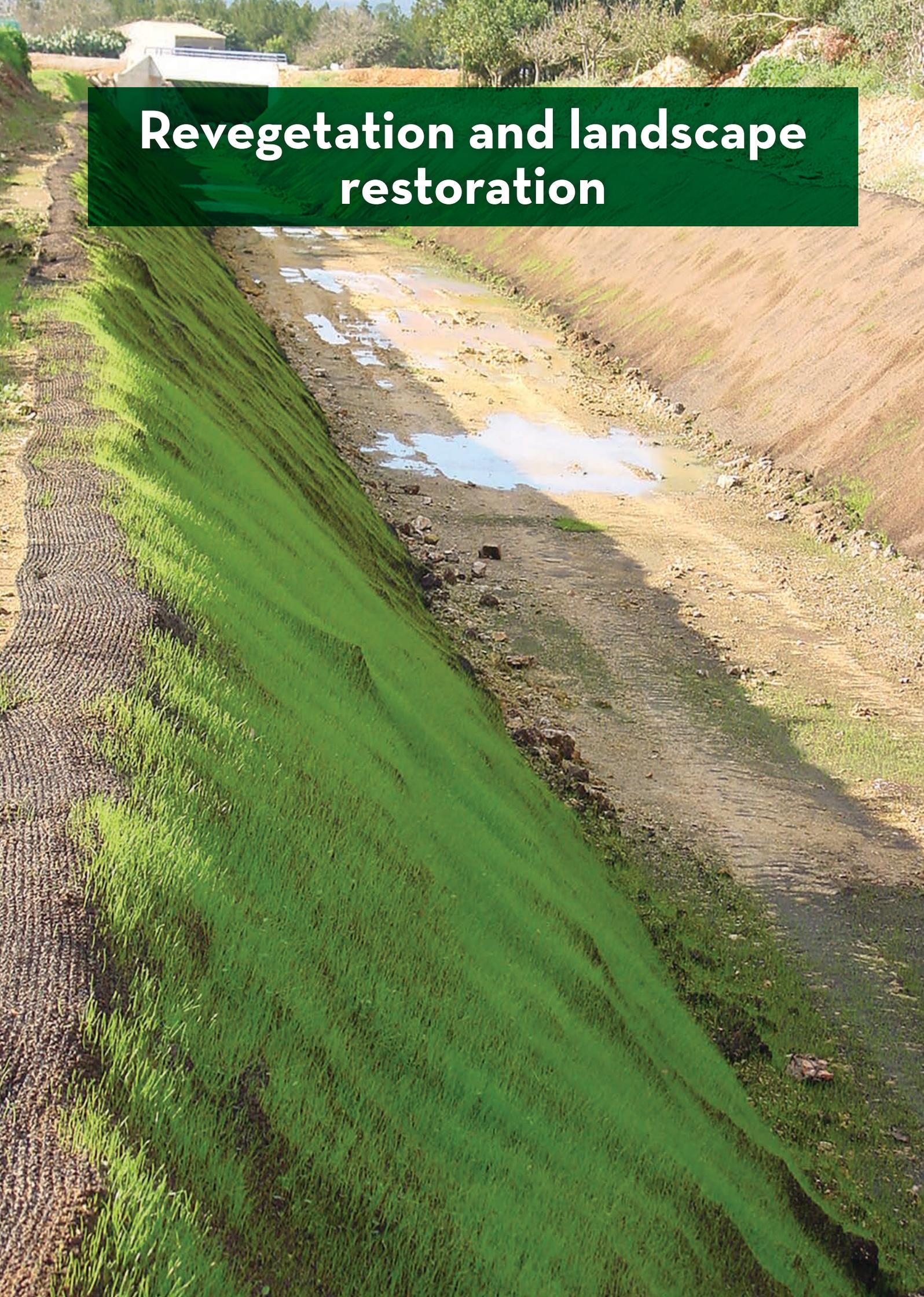
CHARACTERISTICS	SPARRING	RÚSTICA	RESISTANT	STRONG	COSTA	SPORT	SPORT BLUE
Seeding rate g/m ²	35	35	40	45	25-35	25-35	10-15
Overseeding rate g/m ²	40-50	40-50	50	50	50	40-50	25
Seeds per gram	730	540	719	495	906	1,151	2,480
Days to germination	7-12	5-10	10-15	7-12	7-15	5-10	12-25
Recommended planting dates	Spring, end of summer, fall	Spring - fall	Late spring	Spring - fall	Late spring - summer	Spring-summer	Spring-summer
Color	Dark	Dark	Dark	Dark	Dark	Medium-dark	Medium dark
Establishment rate	Medium	Fast	Medium	Fast	Medium	Fast	Medium
Growth	Slow	Slow	Slow	Slow	Slow	Medium	Slow
Leaf texture	Medium	Medium	Medium	Fine	Medium	Fine	Fine
Spreading activity	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Maintenance	Low	Low	Medium	Low	Medium	Medium	Medium
Fertilizing needs	Low	Low	Very low	Low	Very low	High	Medium
Shade tolerance	Medium	Medium	High	High	Medium	Low	High
Winter dormancy	No	No	No	No	No	No	No
Disease resistance	Excellent	Excellent	Excellent	Excellent	Excellent	High	High
Recovery capacity	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Traffic tolerance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Heat tolerance	Excellent	High	Excellent	Excellent	Excellent	High	High
Mowing height	20-30 mm	20-30 mm	From 25 mm	From 10 mm	From 25 mm	From 10 mm	From 12 mm
Mowing frequency	Low	Medium	Very low	Low	Low	Medium	Medium
Irrigation needs	Low	Low	Low	Low	Very low	Medium	Medium
Salt tolerance	High	High	High	High	Excellent	High	High

Variety	JARDÍN FLORIDO (Wild Flowers)		CÉSPED FLORIDO (Meadow Mix)	
	GENERAL USE	ENANO	GENERAL USE	ENANO
Seeding rate g/m ²	2-3	2-3	25	25
Days to germination	15-20	15-20	15-20	15-20
Recommended planting dates	Mainly spring and fall		Spring and fall	
Color	Yellow, blue, white, red, purple, rose	Yellow, blue, white	Yellow, blue, white, red, rose, violet	Yellow, white, rose, violet
Maintenance	Low	Low	Low	Low
Fertilizing needs	Low	Low	Low	Low
Shade tolerance	Moderate	Moderate	Moderate	High
Drought tolerance	Low	Low	High	High
Salt tolerance	Low	High	High	High
Mowing height	-	-	No mowing	From 10 cm
Mowing frequency	Twice a year after blooming		1-2 times a year after end of blooming	1-2 times a year
Traffic tolerance	No	No	No	Moderate to high
Plant height	60 cm	10-30 cm	60 cm	20 cm
Pollinator mixture	Excellent	Excellent	Excellent	Yes

	SPORT LIGHT	ORNAMENTAL	SOMBRA	CREEPING RYE	LIGHT RYE	REPOBLADOR	FAST
	25-35	25-35	25	20-30	30	25	30-40
	40-50	40-50	35	30	30	50	50
	1,151	874	788	513	513	573	508
	5-10	5-8	5-8	3-7	3-7	3-7	3-7
	Spring - fall	Spring - fall	Spring - fall	All year	All year	All year	Fall, winter, spring
	Light	Medium	Medium	Dark	Light	Dark	Dark
	Fast	Fast	Medium	Very fast	Very fast	Very fast	Very fast
	Medium	Medium	Slow	Fast	Fast	Fast	Fast
	Fine	Very fine	Very fine	Fine	Fine	Fine	Fine
	Yes	Yes	Yes	Yes	Yes	No	No
	Medium	Medium	Medium	Medium- High	Medium- High	Medium- High	Medium-high
	High	Medium	Medium	High	High	High	High
	Low	Medium	High	Low	Low	Low	Low
	No	No	No	No	No	No	No
	High	Medium	High	High	High	High	High
	Excellent	High	Low	Excellent	Very good	Excellent	Excellent
	Excellent	High	Medium	Excellent	Excellent	Excellent	Excellent
	High	Medium	Medium	High	High	High	Medium- low
	From 10 mm	From 15 mm	From 15 mm	8-20 mm	From 10 mm	8-20 mm	10-20 mm
	Medium	Medium	Low	High	High	High	High
	Medium	Medium	Medium	High	High	High	High
	High	Medium	Medium	Excellent	Medium	High	Medium



Revegetation and landscape restoration



Low performance

Cover Crops



SPARRING NITRO

- The advantages of our Sparring mixture, but with very low maintenance requirements.

Composition:

85% *Festuca arundinacea* MERIDA
10% *Lolium perenne* RINGLES
5% *Trifolium repens* PIPOLINA

Seeding rate: 40 g/m².

Seeding time: Spring and Autumn.

RUSTIC LOW

- Combination of C3 and C4 grasses with minimal irrigation needs.

Composition:

50% *Festuca arundinacea* MERIDA
50% *Paspalum notatum* PENSA PRO

Seeding rate: 40 g/m².

Seeding time: Spring and Autumn.

NATURAL MEADOW

- Low-maintenance mixture with clover that catches nitrogen from the atmosphere.
- Adapts well in any soil and climate.
- Minimal mowing and irrigation.
- Natural meadow appearance.

Composition:

15% *Lolium perenne*
45% *Festuca rubra rubra*
25% *Festuca arundinacea*
5% *Cynodon dactylon*
10% *Trifolium repens*

Seeding rate: 15 g/m².

Seeding time: Spring and Autumn.



HYDROSEEDING-REVEGETATION

Mediterranean mixture

Native species to be added: *Antyllis cytisoides*, *Cistus albidus*, *Lygeum spartium*, *Piptatherum milliaceum*, *Psoralea bituminsa*, *Retama sphaerocarpa*, *Stipa tenacissima*.

Composition:

25%	<i>Lolium perenne</i>
20%	<i>Agropyrum elongatum</i>
20%	<i>Festuca arundinacea</i>
15%	<i>Dactylis glomerata</i>
8%	<i>Onobrychis Viciaefolia</i>
5%	<i>Cynodon Dactylon</i>
5%	<i>Medicago Sativa</i>
2%	<i>Bouteloua dactyloides</i>

Seeding rate: 25-30 g/m².

Seeding time: Spring-Autumn.

Continental mixture

Native species to be added: *Cistus clusii*, *Lavandula officinalis*, *Rosmarinus officinalis*, *Spartium junceum*, *Thymus vulgaris*.

Composition:

20%	<i>Lolium perenne</i>
15%	<i>Agropyrum elongatum</i>
20%	<i>Festuca arundinacea</i>
10%	<i>Dactylis glomerata</i>
15%	<i>Festuca rubra rubra</i>
5%	<i>Lotus corniculatus</i>
5%	<i>Trifolium subterraneum</i>
5%	<i>Melilotus officinalis</i>
5%	<i>Onobrychis viciaefolia</i>

Seeding rate: 25-30 g/m².

Seeding time: Spring-Autumn.



Oceanic mixture

Native species to be added: *Cytissus scoparius*, *Genista scorpius*, *Spartium junceum* and *Ulex europaeus*.

Composition:

20%	<i>Lolium perenne</i>
25%	<i>Dactylis glomerata</i>
25%	<i>Festuca rubra rubra</i>
10%	<i>Festuca ovina duriuscula</i>
5%	<i>Sanguisorba minor</i>
5%	<i>Agrostis tenuis</i>
5%	<i>Trifolium repens</i>
5%	<i>Melilotus officinalis</i>

Seeding rate: 25-30 g/m².

Seeding time: Spring-Autumn.

Ski resort mixture

This mixture has the following purpose:

- To prevent soil erosion.
- Maintain snow coverage for maximum amount of time possible.
- To help prevent avalanches.
- Aesthetic appearance during summer months.

Composition:

24%	<i>Lolium perenne</i>
25%	<i>Dactylis glomerata</i>
25%	<i>Festuca rubra rubra</i>
15%	<i>Fleo pratensis</i>
5%	<i>Agrostis tenuis</i>
5%	<i>Trifolium repens</i>
1%	<i>Achillea millefolium</i>

Seeding rate: 25-30 g/m².

Seeding time: Summer.

High mountain mixture

Composition:

20%	<i>Lolium perenne</i>
25%	<i>Dactylis glomerata</i>
25%	<i>Festuca rubra rubra</i>
15%	<i>Fleo pratensis</i>
5%	<i>Agrostis tenuis</i>
5%	<i>Trifolium repens</i>
5%	<i>Melilotus officinalis</i>

Seeding rate: 25-30 g/m².

Seeding time: Spring-Autumn.





ENSURE YOUR CROP'S ECOSYSTEM WITH OUR COVER GRASS

The **FITÓ COVER** range has a range of products developed by Semillas Fitó to obtain groundcover which serves as an agronomic method for farm management. The objective is to help maintain and develop the structure and physical-chemical balance of the soil to benefit the main crop..

FUNCTIONS OF FITÓ COVER PRODUCTS

- To Increase organic matter content and improve soil structure.
- Reduce the risk of soil erosion and increase infiltration/retention of rainwater.
- Serve as a refuge for beneficial insects for pest control.
- Control weeds by competitiveness.
- To improve iron absorption; grasses can produce iron complexes.
- If legumes are present, they will transfer atmospheric nitrogen to the soil.
- In certain circumstances it can also be used as livestock feed.



Formula composed exclusively of perennial grasses, which provide a very dense, high-persistence and dwarf growth groundcover. All these factors help reduce maintenance costs because of reduced mechanical use. Planting Fitó Cover Grass in fruit or orchard orchards is recommended, since they have irrigation support and promote the development of the species providing groundcover..

SEEDING RATE: 40-50 kg/ha.

SEEDING PERIOD: Preferably in Autumn, although it can also be seeded in the springtime.



Cover grass is formed by different annual species of grasses and legumes which have a high reseeding capacity, which ensure their persistence over time. Using Fitó Cover Mix is advised in vineyards and olive groves where the water supply is limited or null, and climatic conditions are arid.

SEEDING RATE: 20 to 30 kg/ha.

SEEDING PERIOD: Early through to late Autumn.



The range of **PERMANENT** mixes stand out for their durability and permanence in pasture. The combination of different species and growth periods allows extending the life of pasture, ensuring high quality forage production for an extended period..

TYPE: Multiyear.

OBJECTIVES: Its main purpose is for cattle grazing but can also be grown for mowing according to agricultural practices. Particularly suitable for extensive livestock facilities.

SEEDING PERIOD: Spring or Autumn.

PERMANENT FRESH

FOR TEMPERATE AND HUMID AREAS

- Ideal for temperate and humid areas.
- Constant production guaranteed..

Composition: 93% grasses - 7% legumes

- Perennial ryegrass and hybrids
- Tall fescue
- Cocksfoot
- Timothy seeds
- Perennial clovers

Rate: 35-40 kg/ha



PERMANENT WARM

FOR WARMER AREAS

- Formula adapted for warm areas. Performs best with irrigation.
- High production after initial rooting.

Composition: 93% grasses - 7% legumes

- Perennial ryegrass and hybrids
- Tall fescue
- Dactyl
- Perennial clovers

Rate: 30-35 kg/ha



PERMANENT PLUS

MORE PROTEINS

- Particularly suitable for temperate and humid areas.
- Great protein contribution thanks to higher legume count.

Composition: 80% grasses - 20% legumes

- Perennial ryegrass and hybrids
- Perennial clover

Rate: 35-40 kg/ha



PERMANENT GRASS

GREATER VERSATILITY

- Strong adaptation to all types of crop management.
- Formula suited to both humid and arid regions where irrigation is present.

Composición: 100% grasses

- Perennial ryegrass and hybrids
- Tall fescue
- Dactyl
- Phleum pratense

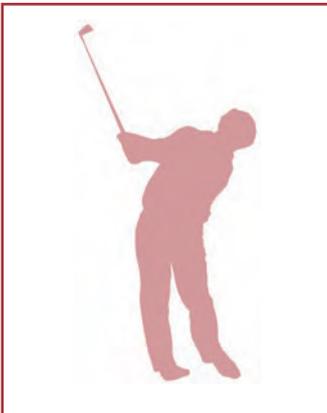
Rate: 30-35 kg/ha

Uses
Golf



USES MEDITERRANEAN COAST	
	<p>GREENS</p> <ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA • <i>Paspalum vaginatum</i> PURE DYNASTY
	<p>ANTEGREENS</p> <ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA • Mixture CREEPING RYE, REPOBLADOR, SPORT • <i>Lolium perenne</i> PROCESS, RINOVO, GREENLAND • <i>Paspalum vaginatum</i> PURE DYNASTY
	<p>TEES, FAIRWAYS</p> <ul style="list-style-type: none"> • Mixture CREEPING RYE, ORNAMENTAL, REPOBLADOR, SPORT • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, LUMINARY, VALDERRAMA • <i>Cynodon dactylon</i> IBIZA • <i>Paspalum vaginatum</i> PURE DYNASTY
	<p>ROUGH</p> <ul style="list-style-type: none"> • Mixture COSTA, RESISTENTE, SPARRING, STRONG • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT • <i>Paspalum vaginatum</i> PURE DYNASTY
	<p>OUT ROUGH</p> <ul style="list-style-type: none"> • <i>Cynodon dactylon</i> GOBI
	<p>OVERSEEDING</p> <ul style="list-style-type: none"> • Mixture CREEPING RYE, REPOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, GREENLAND, RINGLES, RINOVO, SUN • <i>Lolium multiflorum</i> THUNDER • <i>Poa trivialis</i> QUASAR, WINTERWAY • <i>Poa bulbosa</i> RADIX 307

USES CONTINENTAL CLIMATE	
	<p>GREENS</p> <ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA
	<p>ANTEGREENS</p> <ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA • Mixture CREEPING RYE, REPOBLADOR, SPORT • <i>Lolium perenne</i> PROCESS, RINOVO, GREENLAND
	<p>TEES, FAIRWAYS</p> <ul style="list-style-type: none"> • Mixture CREEPING RYE, ORNAMENTAL, REPOBLADOR, SPORT • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, LUMINARY, VALDERRAMA • <i>Cynodon dactylon</i> IBIZA, MEDPRO SLT • <i>Lolium perenne</i> GREENLAND, RINOVO
	<p>ROUGH</p> <ul style="list-style-type: none"> • Mixture ORNAMENTAL, RESISTENTE, RÚSTICO, SPARRING • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT
	<p>OUT ROUGH</p> <ul style="list-style-type: none"> • <i>Festuca ovina</i> ABERFLEECE • <i>Festuca brevipila</i> SPARTAN 2 • <i>Cynodon dactylon</i> GOBI, <i>Bouteloua dactyloides</i> TEXOKA

USES OCEANIC CLIMATE	
	<p>GREENS</p> <ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA
	<p>ANTEGREENS</p> <ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> 007 DSB, TOUR PRO, T-1, LUMINARY, VALDERRAMA • Mixture CREEPING RYE, REPOBLADOR, SPORT • <i>Lolium perenne</i> PROCESS, GREENLAND, RINOVO
	<p>TEES, FAIRWAYS</p> <ul style="list-style-type: none"> • Mixture CREEPING RYE, ORNAMENTAL, REPOBLADOR, SPORT • <i>Agrostis stolonifera</i> 007 DSB, SEASIDE 2, LUMINARY, VALDERRAMA • <i>Lolium perenne</i> GREENLAND, RINOVO
	<p>ROUGH</p> <ul style="list-style-type: none"> • Mixture ORNAMENTAL, RESISTENTE, RÚSTICO, SPARRING
	<p>OUT ROUGH</p> <ul style="list-style-type: none"> • <i>Festuca ovina</i> ABERFLEECE • <i>Festuca brevipila</i> SPARTAN 2

Uses

**Sports fields, football,
horse racetracks, polo**

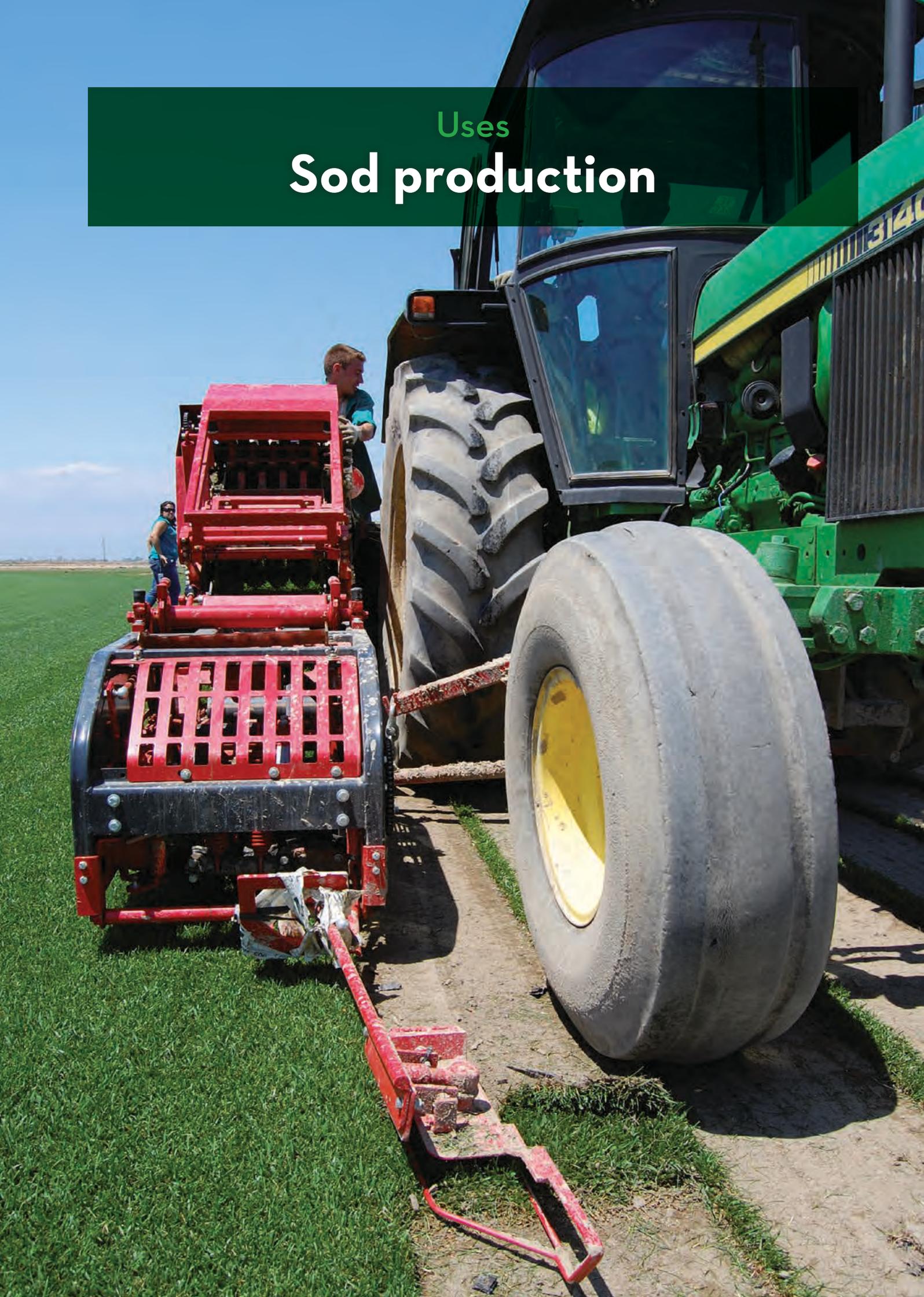


USES MEDITERRANEAN COAST			
	SCANT WATER	LOW MAINTENANCE	<ul style="list-style-type: none"> • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT • <i>Pennisetum clandestinum</i> AZ-1 • Mixture COSTA
		HIGH MAINTENANCE	<ul style="list-style-type: none"> • <i>Paspalum vaginatum</i> PURE DYNASTY
		OVERSEEDING	<ul style="list-style-type: none"> • Mixture CREEPING RYE, REPOBLADOR • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND • <i>Lolium multiflorum</i> THUNDER
ABUNDANT WATER	LOW MAINTENANCE	<ul style="list-style-type: none"> • Mixture RESISTENTE, STRONG, SPARRING 	
	HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mixture CREEPING RYE, REPOBLADOR, SPORT, SPORT BLUE 	
	OVERSEEDING	<ul style="list-style-type: none"> • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND • Mixture CREEPING RYE, REPOBLADOR, SPORT, FAST • <i>Lolium multiflorum</i> THUNDER 	

USES CONTINENTAL CLIMATE			
	SCANT WATER	LOW MAINTENANCE	<ul style="list-style-type: none"> • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT
		HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mixture RESISTENTE, SPARRING
		OVERSEEDING	<ul style="list-style-type: none"> • Mixture CREEPING RYE, REPOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND
ABUNDANT WATER	LOW MAINTENANCE	<ul style="list-style-type: none"> • Mixture RESISTENTE, STRONG, SPARRING 	
	HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mixture CREEPING RYE, REPOBLADOR, SPORT, SPORT BLUE • <i>Lolium perenne</i> PROCESS, LOVER, RINGLES, RINOVO, SUN, ZURICH, GREENLAND 	
	OVERSEEDING	<ul style="list-style-type: none"> • Mixture CREEPING RYE, REPOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND 	

USES OCEANIC CLIMATE			
	POUCA AGUA	LOW MAINTENANCE	<ul style="list-style-type: none"> • Mixture RESISTENTE
		HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mixture SPARRING
		RESSEMENTEIRA	<ul style="list-style-type: none"> • Mixture CREEPING RYE, REPOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND
ÁGUA SUFICIENTE	LOW MAINTENANCE	<ul style="list-style-type: none"> • Mixture SPARRING 	
	HIGH MAINTENANCE	<ul style="list-style-type: none"> • Mixture CREEPING RYE, REPOBLADOR, SPORT 	
	OVERSEEDING	<ul style="list-style-type: none"> • Mixture CREEPING RYE, REPOBLADOR, FAST • <i>Lolium perenne</i> PROCESS, LOVER, ZURICH, RINGLES, RINOVO, SUN, GREENLAND 	

Uses
Sod production



For sod production Semillas Fitó supplies only elite varieties tested many times in a wide range of trails.

The seed supplied follows exceptional quality controls based on SOD QUALITY criteria.

SOD QUALITY criteria

1. Seed lots produced only in specific fields without initial contamination by weeds and under control with SOD QUALITY criteria.
2. Purity test with a minimum of 10 times the size sample: 0% weeds and 0% other seeds.
3. The germination test must be largely above the minimum required for the species.
4. Fluorescence test to visualize any possible contamination of *Lolium multiflorum* (must be 0%).
5. Additional genetic controls.

	USES AVAILABLE MITURES	
	MEDIUM-LEAF TEXTURE (C3)	<ul style="list-style-type: none"> • Mixture SPARRING • Mixture RESISTENTE
	FINE-LEAF TEXTURE (C3)	<ul style="list-style-type: none"> • Mixture CREEPING RYE, SPORT, SPORT BLUE, TOUR PRO
	GREENS (C3)	<ul style="list-style-type: none"> • <i>Agrostis stolonifera</i> T-1, TOUR PRO, 007DSB
	GRASS FOR AREAS WITH SALT PROBLEMS (C4)	<ul style="list-style-type: none"> • <i>Paspalum vaginatum</i> PURE DYNASTY
GRASS FOR WATER SAVINGS (C4)	<ul style="list-style-type: none"> • <i>Zoysia japonica</i> • <i>Bermuda</i> 	



Uses

**Landscape, public
and private lawns**



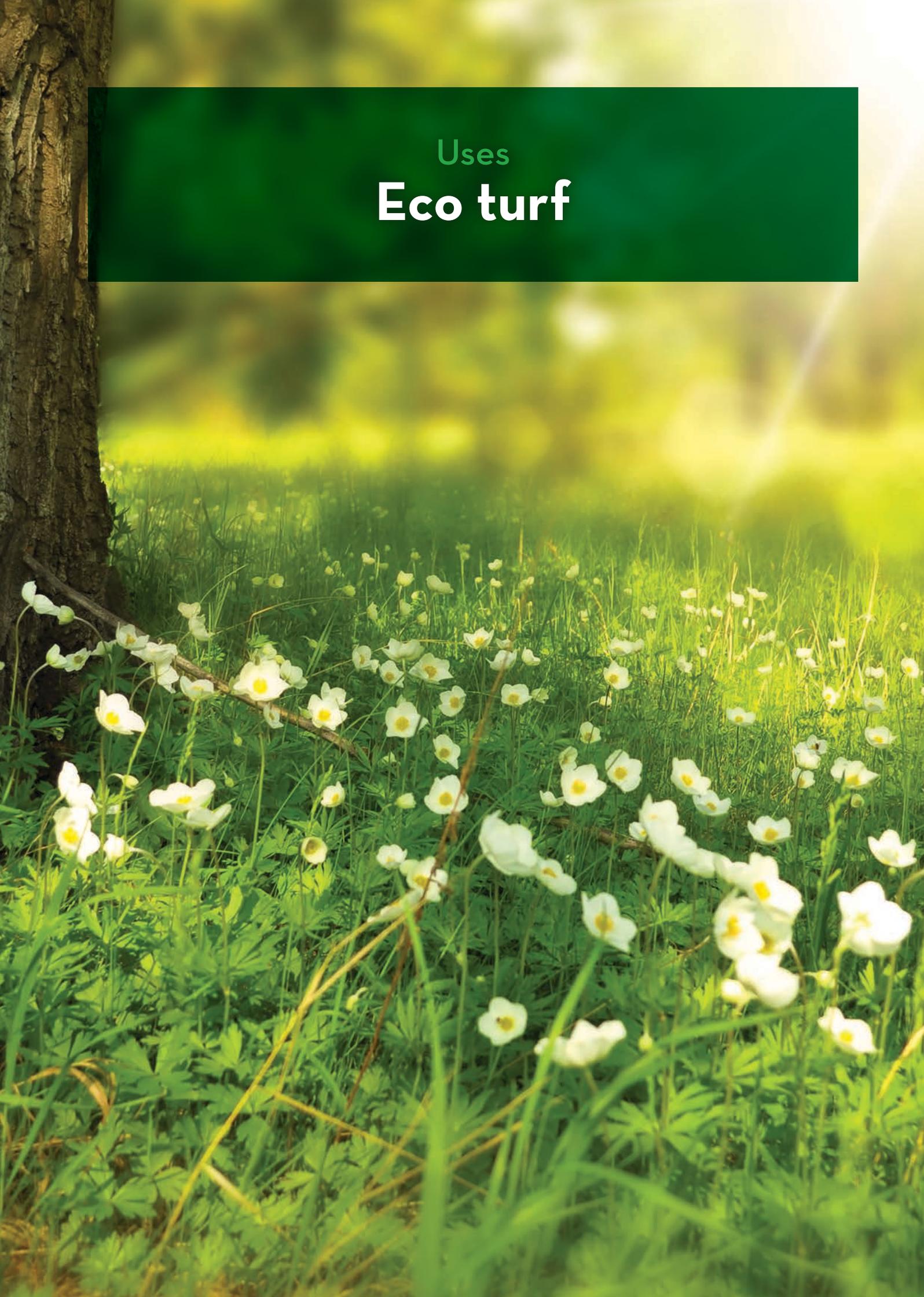
USES MEDITERRANEAN COAST			
	SUN	SCANT WATER	<ul style="list-style-type: none"> • <i>Cynodon dactylon</i> GOBI, IBIZA, MEDPRO SLT • <i>Pennisetum clandestinum</i> AZ-1 • <i>Zoysia Japonica</i> ZENPRO • <i>Paspalum vaginatum</i> PURE DYNASTY • Mixture COSTA
		ABUNDANT WATER	<ul style="list-style-type: none"> • Mixture CREEPING RYE, RESISTENTE, RÚSTICO, SPORT, SPORT BLUE, SPARRING, STRONG
	SUN/SHADE	SCANT WATER	<ul style="list-style-type: none"> • Mixture RESISTENTE, STRONG
		ABUNDANT WATER	<ul style="list-style-type: none"> • <i>Dichondra</i>

USES MEDITERRANEAN COAST			
	SUN	SCANT WATER	<ul style="list-style-type: none"> • Mixture RESISTENTE, RÚSTICO, SPARRING, STRONG • <i>Cynodon dactylon</i> IBIZA
		ABUNDANT WATER	<ul style="list-style-type: none"> • Mixture CREEPING RYE, ORNAMENTAL, RESISTENTE, RÚSTICO, SPARRING, SPORT, SPORT BLUE, STRONG
	SUN/SHADE	SCANT WATER	<ul style="list-style-type: none"> • Mixture RESISTENTE, STRONG
		ABUNDANT WATER	<ul style="list-style-type: none"> • Mixture SOMBRA • <i>Dichondra</i>

USES OCEANIC CLIMATE			
	SUN	SCANT WATER	<ul style="list-style-type: none"> • Mixture RESISTENTE, SPARRING
		ABUNDANT WATER	<ul style="list-style-type: none"> • Mixture CREEPING RYE, ORNAMENTAL, SPARRING, SPORT, STRONG
	SUN/SHADE	SCANT WATER	<ul style="list-style-type: none"> • <i>Festuca ovina</i> ABERFLEECE • <i>Festuca brevipila</i> SPARTAN 2 • Mixture RESISTENTE, RÚSTICO, SPARRING, STRONG
		ABUNDANT WATER	<ul style="list-style-type: none"> • <i>Dichondra</i> • Mixture SOMBRA

USES OVERSEEDING		
	WITHOUT SOIL PREPARATION	<ul style="list-style-type: none"> • Mixture REOBLADOR, FAST
	WITH SOIL PREPARATION	<ul style="list-style-type: none"> • Mixture CREEPING RYE, REOBLADOR, FAST, LIGHT RYE

Uses
Eco turf

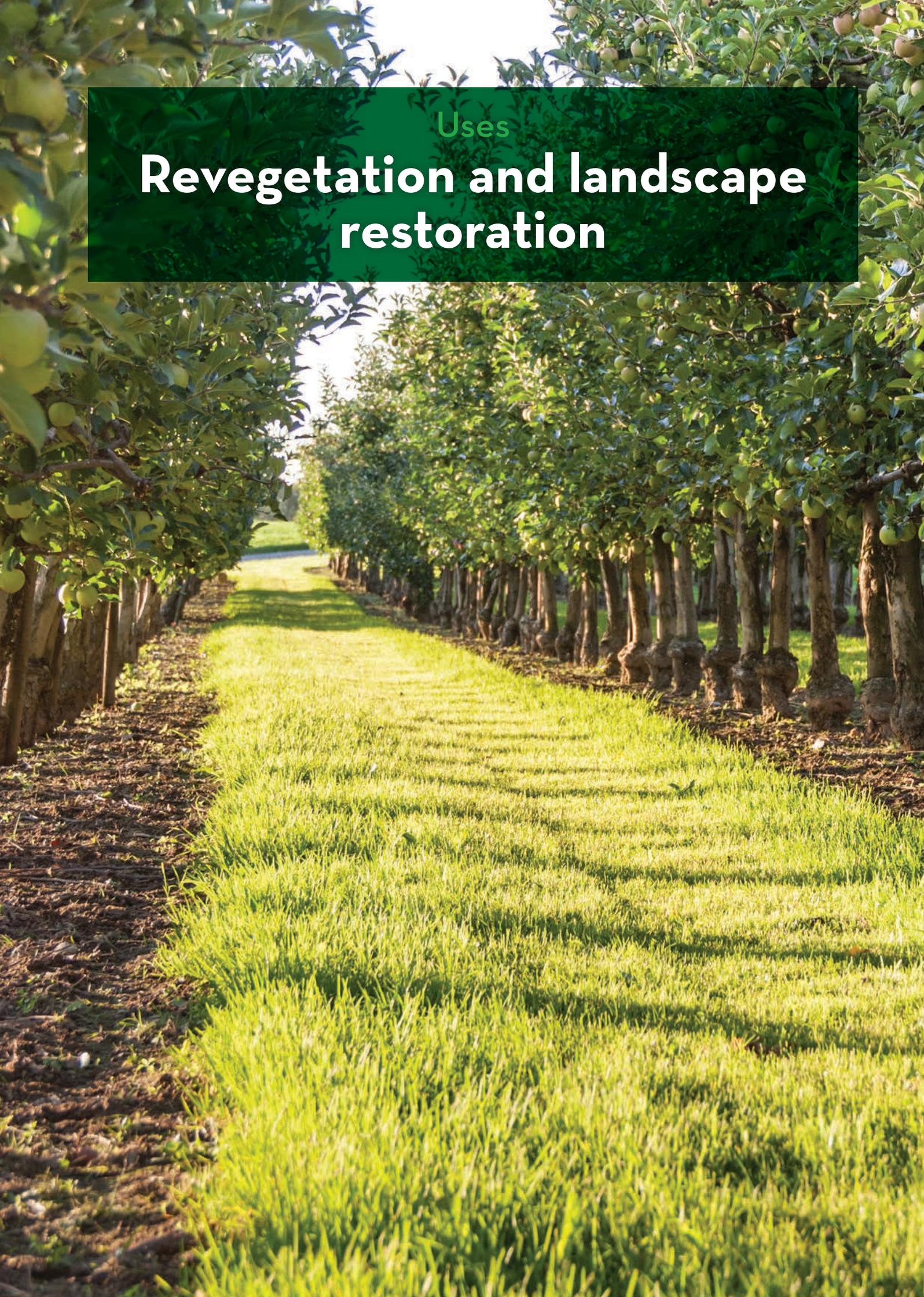


	USES TURFGRASS OPTION	
	MEDITERRANEAN CLIMATE	<ul style="list-style-type: none"> • Mixture COSTA, RESISTENTE, RÚSTICO • <i>Cynodon dactylon</i> GOBI, <i>Paspalum notatum</i> PENSACOLA, <i>Pennisetum clandestinum</i> AZ-1, <i>Zoysia japónica</i> ZENPRO
	MEDITERRANEAN CLIMATE	<ul style="list-style-type: none"> • Mixture RESISTENTE, RÚSTICO • <i>Cynodon dactylon</i> GOBI, IBIZA, <i>Zoysia japónica</i> ZENPRO
	OCEANIC CLIMATE	<ul style="list-style-type: none"> • Mixture ORNAMENTAL, SOMBRA • <i>Festuca ovina</i> ABERFLEECE, SPARTAN 2

	USES WILD FLOWERS COVER		
	WILD FLOWERS	JARDÍN FLORIDO	• GENERAL USE
			• ENANO
	MEADOW MIXTURE	CÉSPED FLORIDO	• GENERAL USE
• ENANO			

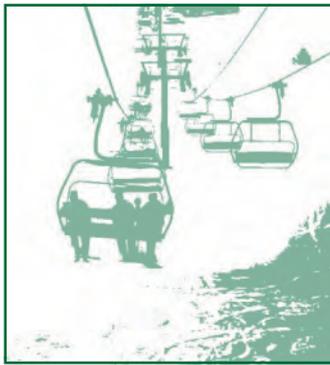
	USES WILD FLOWERS COVER
	SPARRING NITRO PRADERA NATURAL



A photograph of an orchard with rows of trees and a grassy path. The trees are lush green and have many small, round fruits hanging from their branches. The path is made of grass and runs down the center of the orchard, leading towards the background. The lighting is bright, suggesting a sunny day.

Uses

Revegetation and landscape restoration



USES TURFGRASS OPTION

MEDITERRANEAN CLIMATE

- **MEDITERRANEAN** mixture

CONTINENTAL CLIMATE

- **CONTINENTAL** mixture

OCEANIC CLIMATE

- **OCEANIC** mixture

HIGH MOUNTAIN

- **HIGH MOUNTAIN** mixture
- **SKI RESORT** mixture



USES COVER CROPS Vineyards, fruit trees, orchards

SEASONAL COVER

- Mixture **FAST**

PERMANENT COVER

- Mixture **PERMANENT FRESH, PERMANENT WARM, PERMANENT PLUS, PERMANENT GRASS**

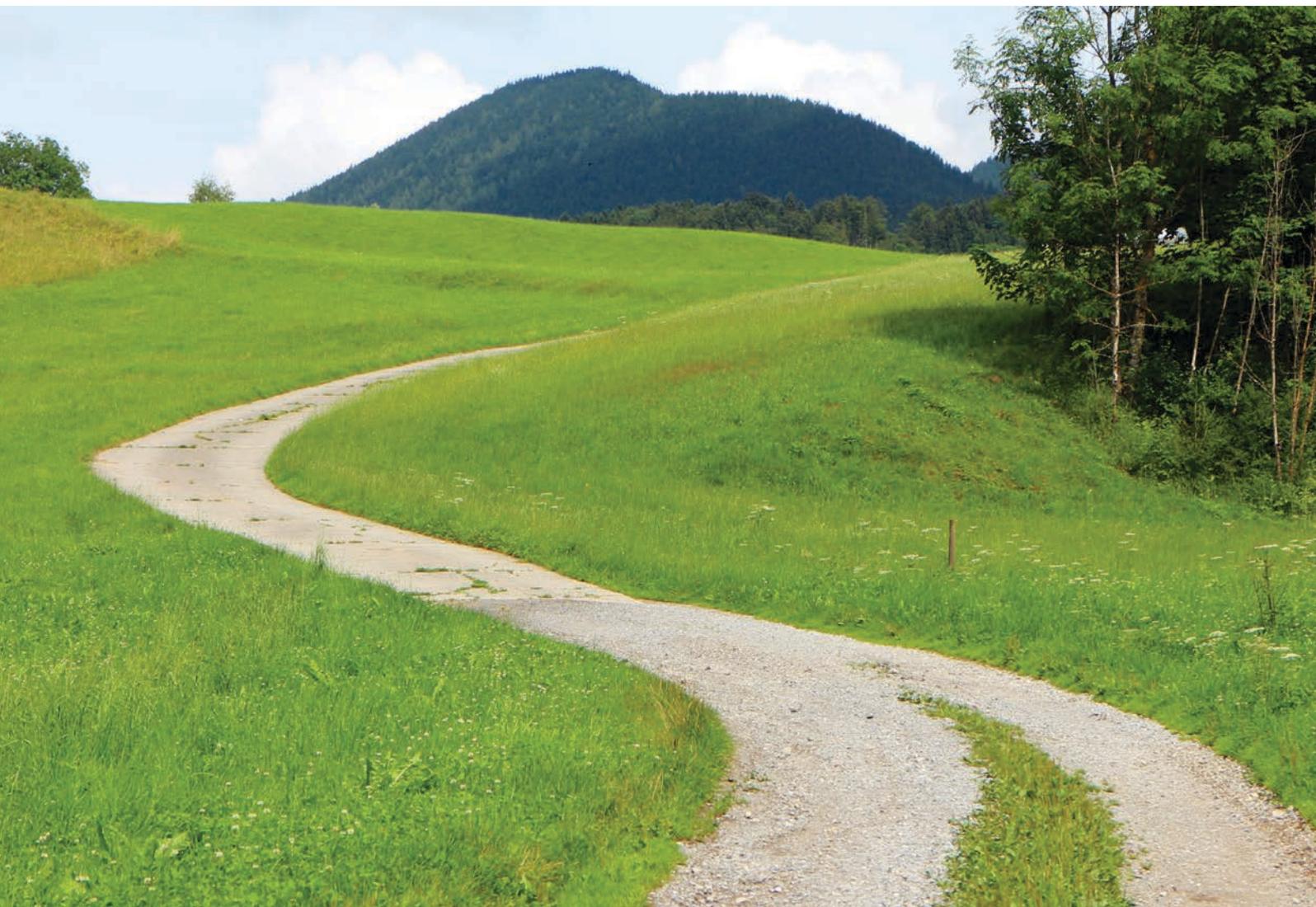
SOLAR POWER AREAS, WINDMILL PARKS

- Mixture **NATURAL MEADOW**

EXTENSIVE FORAGE FARMING, HUNTING...

- Mixture **PERMANENT PLUS, PERMANENT GRASS**

- Mixture **PERMANENT PLUS, PERMANENT GRASS**



An aerial photograph of a vast, lush green field, possibly a rice paddy, with thin white lines marking out sections. A dark green banner is positioned at the top of the image, containing the text "Coming Soon..." in white, bold, sans-serif font.

Coming Soon..

Lolium perenne



PATRIARCH

Dual variety for high persistence and reseeding



PLANETARY

Great lateral growth and persistence, an advance for soccer fields



SAVANT 2

Greater lateral growth and greater salt tolerance



TREK (4n)

Lolium perennial tetraploid (4n)

Festuca arundinacea



FESPRO

Top NTEP with best anti-disease package



