

Your Garden's Sixth Sense

 **AGRO CS**

GARDEN[®]
boom

**PROFESSIONAL
QUALITY**



Wake up your Sixth Sense

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*Discover a new and entirely unique face for your garden.
A high-quality lawn shouldn't be just a dream that
we can't ever accomplish.
That's why Garden Boom is coming to the market.*

Garden Boom – Your Garden's Sixth Sense

The care for lawns belongs to daily routines of the homeowners of houses and gardens. The vicinity of each house is its decoration, necessarily based on high-quality lawns. Nevertheless, reaching a perfect lawn-surface appearance and having a nice garden haven't been so easy so far. That's why we are coming up with the product called Garden Boom.

Unique Concept

Garden Boom products have been developed with the help of professional from the Grounds care trade. Therefore the Garden Boom products have the correct compositions to cover the complete care for your garden.

Complex Care

The garden is a living organism, changing itself during the season. For that reason, Garden Boom is ready to solve every situation, from seeding a new lawn, through to the care of its seasonal maintenance. Garden Boom has got the answer to every question, offering a suitable product for each particular need for your lawn.



Grass-Seed Species and their Properties when Used in the Garden Boom Product-Range

GARDEN BOOM grass-seed mixtures are selected from the top grass-seed species, corresponding to the valuation systems RSM (applied in Germany) and STRI (applied in England).

To be selected for grass-seed mixtures under the Garden Boom trademark, the species have to comply with the highest quality requirements. Combining the species and varieties of perennial rye-grass, smooth meadow-grass and red-fescue grasses giving a coherent range of top grass-seed mixtures.

Properties of the grass -seed varieties	Perennial rye-grass	Red fescue grasses			Smooth meadow-grass
		Tall-outgrowing	Bunch-type	Short-outgrowing	
Tolerance to heavy use	10	4	3	4	9
Resistance to diseases	6	7	5	4	7
Tolerance to dryness	4	6	7	8	5
Growing-up speed	10	8	7	6	2
Nutrients needed	9	6	4	4	8
Tolerance to high temperatures	2	5	6	6	5
Leaf fineness	4	4	8	8	3
Cleanness after mowing	4	7	8	8	5
Tolerance to the salting	4	5	7	8	4
Tolerance to the shadowing	5	5	6	6	5
Density	5	4	9	9	5
Tolerance to wetness	2	4	4	4	4
Producing felt	1	4	5	6	7
Tolerance to coldness	2	3	3	3	6

Properties of the grass-seed species: 1 - the worst; 10 - the best

Basic Grass-Seed Species and their Properties

Perennial rye-grass – *Lolium perenne*

One of the strengths of perennial rye-grass is its excellent resistance to load, fast seed germination and its growing-up speed after seeding. Its weakness is its lower resistance to dryness, and its higher maintenance requirements. When complying with the recommended care, ryegrass with other grass species is able to make a really high-quality lawn.

Smooth stalked meadow-grass – *Poa pratensis*

The strengths of smooth stalked meadow-grass are its resistance to overstepping, tolerance to coldness and its excellent appearance after mowing. Its weakness is mainly its slower growing-up speed, taking 3 or 4 weeks according to ambient conditions. Being

combined with perennial ryegrass, smooth meadowgrass is suitable for intensively high-loaded lawns.

Red fescues – *Festuca rubra*

Fescues themselves are further divided into, to bunch-type fescues, short-outgrowing and tall-outgrowing fescues. Combining these three species gives a high-quality lawn. The strengths of fescue grasses are their leaf-fineness, density and its tolerance to shadowing. Its weaknesses include its regeneration speed and its resistance to load. For that reason, it's mainly used in decoration lawns.

Size Overview of the Grass-Seed Species



Perennial rye-grass (*Lolium perenne*)

Smooth stalked meadow-grass (*Poa pratensis*)



Red fescue (*Festuca rubra*)

GRASS-SEED MIXTURES

Garden Boom offers three basic grass-seed mixtures meeting high demands of their future users, primarily concerning density, resistance to load and diseases, required speed of regeneration and first of all, the lawn appearance quality.



Grass-Seed Mixture **SPORT**

It's designated for lawns with intensive load. Its composition combines mainly the species of meadow-grasses and ryegrass to have a high-quality and resistant lawn with really good regeneration. The lawn composition comes from long-time experience in lawn-sowing and care for professional sport-grasses.

Species	%
Bunch-type red fescue (<i>Festuca rubra commutata</i>)	15
Tall up-outgrowing fescue (<i>Festuca rubra rubra</i>)	10
Smooth meadow-grass (<i>Poa pratensis</i>)	15
Perennial rye-grass (<i>Lolium perenne</i>)	60

- Resistance to load: **high**
- Growing speed: **high**
- Care-taking requirements: **medium**
- Grass-mowing height: **3 – 5 cm**
- Sowing quantity: **30 – 40 g/m²**
- Bag size: **10 kg**

Grass-Seed Mixture **PARK**

It's mainly designated for decorative lawns for parks or family gardens with a lower load-intensity, primarily emphasising the lawn appearance. The basis of the mixture combines red fescues supporting the dense grass bundle with lower growth.

Species	%
Bunch-type red fescue (<i>Festuca rubra commutata</i>)	20
Short-outgrowing red fescue (<i>Festuca rubra trichophylla</i>)	20
Tall up-outgrowing fescue (<i>Festuca rubra rubra</i>)	20
Smooth meadow-grass (<i>Poa pratensis</i>)	15
Perennial rye-grass (<i>Lolium perenne</i>)	25

- Resistance to load: **medium**
- Growing speed: **medium**
- Care-taking requirements: **medium**
- Grass-mowing height: **2 – 5 cm**
- Sowing quantity: **25 – 30 g/m²**
- Bag size: **10 kg**

Grass-Seed Mixture **REGENERATION**

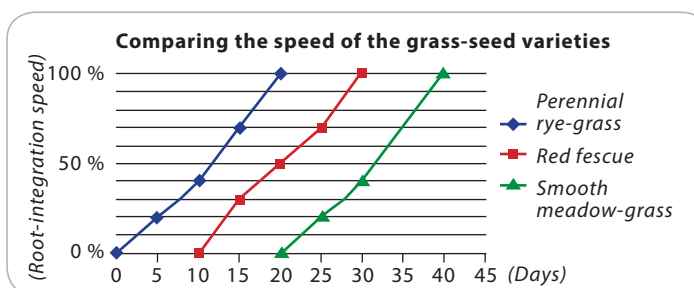
It's designated for regenerating of damaged lawns. The main benefit of the mixture is its really high growth and root-integration in the existing lawn. The basis of the mixture consists of perennial ryegrass meeting the principal requirement for fast-integrating seed-root system into the existing lawn to regenerate its damaged spots.

Species	%
Bunch-type red fescue (<i>Festuca rubra commutata</i>)	10
Smooth meadow-grass (<i>Poa pratensis</i>)	5
Perennial rye-grass (<i>Lolium perenne</i>)	85

- Resistance to load: **high**
- Growing speed: **high**
- Care-taking requirements: **medium**
- Grass-mowing height: **3 – 6 cm**
- Sowing quantity: **30 – 40 g/m²**
- Bag size: **10 kg**

Main Rules for Selecting Grass-Seed Mixtures

- **Character** of the grass-seed mixture – **decorative, load-bearing**
- Root-system **growing speed**
- **Treatment** needed
- Grass-mowing **height**
- **Grass-sowing quantity** per m²
- Grass-sowing **period**
- Irrigation needed – **natural precipitation, automatic irrigation system**
- Subsequent care – **mowing, fertilization**

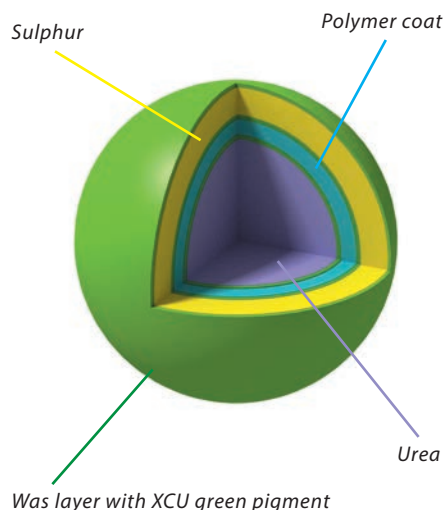




XCU Technology

The technology comprises the use of packed controlled-release fertilisers allowing for gently-release of nutrients. The technology is unique because of using inside polymer coat protecting the urea granule. The outside layer of the granule is encased with a thin layer of sulphur and that everything is covered by a wax layer with XCU green pigment.

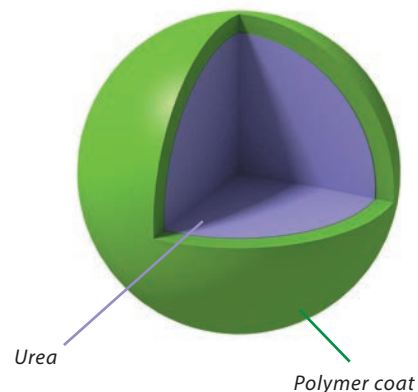
This structure of the jacket makes a consistent and more durable granule whose stronghold is important both when being made and when applied. In fact, its stronger coat guarantees slower release of the nutrients for even 10 weeks. The activation and progressively releasing nutrients come up according to humidity and temperature.



POLYON Technology

The technology of coated fertilisers provides for long-standing release of nutrients for several months. The technology uses the outside polymer coat combined with green pigment protecting the urea granule.

Once again, the jacket is activated by soil humidity, but further nutrient are released due to temperature without being influenced by humidity.



Properties of the Nutrients

Nitrogen - N

Nitrogen is a nutrient important to generally support the lawn growth. The supply of this nutrient is important for the lawn from the beginning of vegetation till the beginning of autumn. The application of a fertiliser having a higher nitrogen rate should be limited in the autumn period. Alternative fertilisers should be used for this period with reduced nitrogen levels.

Phosphorus - P

Phosphorus supports the growth and development of the grass-root system. Choosing a product with high phosphorus is important for the germination of newly sown seeds or the regenerating of lawns.

Potassium - K

Regularly supplying potassium gives a high resistance and tolerance of the lawn to stress conditions, e.g. high temperatures in summer. A higher potassium rate is very important also when preparing the lawn for winter, as it helps strengthen the cells of the plant. Potassium is also important in root development.

Magnesium - MgO

It favourably influences the lawn colour and thus its aesthetical appearance and integrity.

Main Properties of Garden Boom Fertilizers are these

- Reliable way of **distributing of nutrients** thanks to using XCU and POLYON technologies
- **Gently release** over a period of several weeks and possible up to nearly several months
- **Fine granule-size**
- **Reducing the amount of nutrients** leaching out, with **more efficient uptake** for the lawn
- **Minimum risk** of burning the grass
- **Progressive** and **regular** grass-growing
- **Supporting** the root system

LAWN FERTILIZERS

The professionals' experience shows that you may have a high-quality lawn when using fertilizers with controlled-release of nutrients, with NPK ratios adjusted to different seasons of the year.



Lawn Fertilizer **ONCE a YEAR**

The most long-lasting fertilizer in the Garden Boom product line using POLYON technology gives the option of being applied just once a year to give nutrients to the lawn for the whole vegetation period. It's suitable to apply it in spring. The fertiliser efficiency ranges from 6 to 9 months.

- Composition: **NPK 25-05-08 + 3 MgO**
- Bag size: **15 kg**
- Application rate: **60 – 80 g/m²**
- Granule size: **2 - 3 mm**
- Application: **from April to June**
- Quantity: **15 kg = 180 až 250 m² of the lawn**

Lawn Fertilizer **SPRING**

The spring fertilizer with XCU technology starts up the lawn in spring months. The optimally-selected ratios of its nutrients support fast growth and development of the lawn. The fertilizer can be used also over the whole year to support its more intensive growth. The fertilizer can be applied from April to September, being active for 2 - 3 months.

- Composition: **NPK 24-05-11 + 3 MgO**
- Bag size: **15 kg**
- Application rate: **30 – 40 g/m²**
- Granule size: **2 - 3 mm**
- Application: **from April to September**
- Quantity: **15 kg = 375 až 500 m² of the lawn**

Lawn Fertilizer **SUMMER**

The summer fertilizer using XCU technology which has an equilibrated ratio of nitrogen and potassium for the lawn to optimally intake nutrients over summer months when the lawn is exposed to high temperatures. Its gradual controlled release helps the lawn be strong and healthy. The fertilizer's efficiency lasts for 2 - 3 months.

- Composition: **NPK 20-00-20 + 2 MgO**
- Bag size: **15 kg**
- Application rate: **30 – 40 g/m²**
- Granule size: **2 - 3 mm**
- Application: **from June to August**
- Quantity: **15 kg = 375 až 500 m² of the lawn**

Comparing the lawn growth if using fast-dissoluble fertilizers and long-term fertilizers



Efficiency of long-term fertilizers



Efficiency of fast-dissoluble fertilizers

LAWN FERTILIZERS

The GARDEN BOOM fertilizer product-range belongs to the group of long-lasting fertilizers allowing the lawn to get optimum supply of nutrients in the appropriate season of the year.



Lawn Fertilizer AUTUMN

The fertilizer, using XCU technology, is primarily designated for autumn months. The selected ratio of its nutrients will help the lawn get ready for the winter season to increase its resist to winter stress conditions. Applying the fertilizer influences the spring colour of the lawn to also faster involving the vegetation root system combined with using the spring fertilizer. The fertilizer's efficiency lasts for 2 – 3 months. A high ratio of potassium can be used for additionally fertilizing the lawn in the summer season when there are high temperatures.

- Composition: **NPK 14-00-28 + 3 MgO**
- Bag size: **15 kg**
- Application rate: **30 – 40 g/m²**
- Granule size: **2 - 3 mm**
- Application: **from August to October**
- Quantity: **15 kg = 375 až 500 m² of the lawn**

Lawn Fertilizer PRE-SEED

The fertilizer is designated for establishing new lawns, regenerating older lawns and it is also suitable before installation of turf. The controlled-release of nutrients is provided using XCU technology with the adapted ratio of nutrients to support the root system growth and increase the regeneration of the lawn. The fertilizer's efficiency lasts for 2 - 3 months.

- Composition: **NPK 15-20-10 + 3 MgO**
- Bag size: **15 kg**
- Application rate: **25 – 30 g/m²**
- Granule size: **2 - 3 mm**
- Application: **from April to September**
- Quantity: **15 kg = 500 až 600 m² of the lawn**

Guide on the packaging



Bag size and coverage



Application rate



When to use the fertilizer



Fertilizer's efficiency

What shall I know before starting using fertilizers

- 1. Fertilizer class** - The fertilizer application differs according to the seasons of the year - spring, summer, autumn fertilizers.
- 2. Fertilizer type** - Long-lasting fertilizer is a good choice to have a top lawn.
- 3. Dosing fertilizer** - Each fertilizer has got its pre-defined dose.
- 4. Granule size** - The optimum granule-size is 1 - 4 mm.
- 5. Application period** - The application time is ideally in the morning or evening hours because of the lawn temperature.

- 6. Soil conditions** - Clayish soils have got other properties than sandy soils as for their permeability.
- 7. State of the lawn** - A damaged lawn requires another nutrient ratio, generally changing the nitrogen and phosphorus ratio.
- 8. Number of applications** - 3 - 4 applications a year are enough when using long-lasting fertilizer.
- 9. Correct application** - Your correct movement in the plot of land is important to minimise overdose.
- 10. Using a fertilizing plan** - It's a good advisor for whole-year maintenance.

PINE MULCH

Pine mulch from the GARDEN BOOM product-range is a suitable supplement to increasing the attractiveness of your garden in view of its appearance and decoration.

We offer a 100% pine mulch with its particle size of 40 - 60 mm suitable to be used both in the exterior and the interior.



PINE MULCH

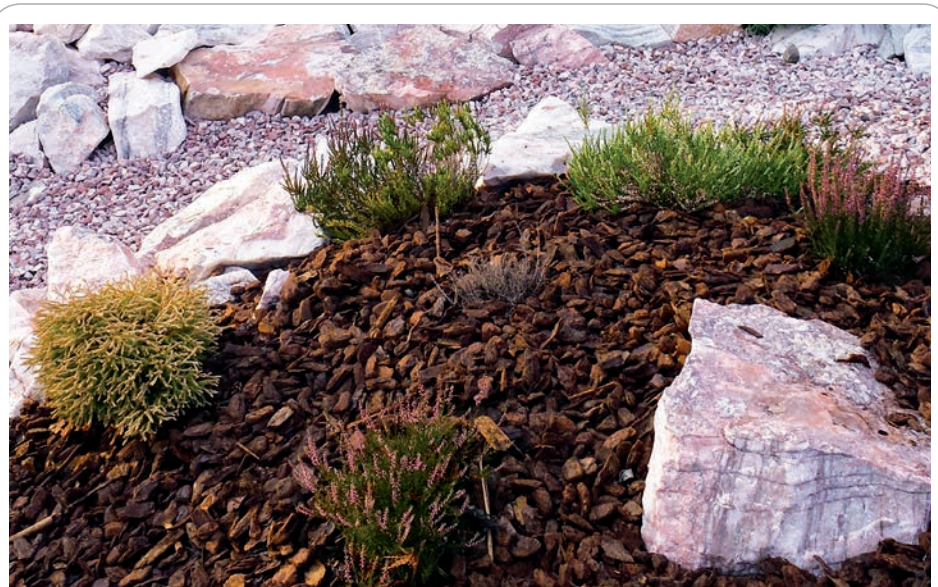
The home to pine bark is the Bay of Biscay region. Its main sources are located in the territory of France, Portugal and Spain.

Pine bark comes from *Pinus maritime*. The raw-material production starts with removing bark and consequently depositing when the bark has to go through several warming-up stages. That several-time repeated natural warming-up of the bark mulch is done to remove any harmful organisms therein.

Having passed that stage, the raw material is transported by ship to Belgium where it's sorted out according to a required fraction size, then it is transported directly to the Czech Republic.

The pine mulch obtained in that way is highly appreciated for its high lifetime and its top decoration ability.

- Particle size: **40 – 60 mm**
- Use: **Exterior, interior**
- Bag size: **65 l**



Advantageous of GARDEN BOOM Decorative Pine Mulch

- **Preventing from growing** germinated weeds
- **Preventing from** water evaporation
- **Protecting the soil** from erosion and drying-out
- **Supporting natural evolution** of soil organisms
- **High decorative** appearance

Choose the Plan of your Annual Fertilization

1.



Lawn Fertilizer **ONCE a YEAR**

Month	1	2	3	4	5	6	7	8	9	10	11	12
Application rate				80g/m ²								
Efficiency				ONCE a YEAR								

2.



Lawn Fertilizers **ONCE a YEAR** and **AUTUMN**

Month	1	2	3	4	5	6	7	8	9	10	11	12
Application rate				60g/m ²				40g/m ²				
Efficiency				ONCE a YEAR				AUTUMN				

3.



Lawn Fertilizers **SPRING** and **SUMMER** and **AUTUMN**

Month	1	2	3	4	5	6	7	8	9	10	11	12
Application rate				40g/m ²		40g/m ²			40g/m ²			
Efficiency				SPRING		SUMMER			AUTUMN			

4.



Lawn Fertilizer **PRE-SEED**

- New seeding
- Over-seeding
- Before installation of turf
- With deficiency of phosphorus

30g/m²
April
- September



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