

GROWTH CATALOGUE

Professional substrates & potting
soils for safe growth



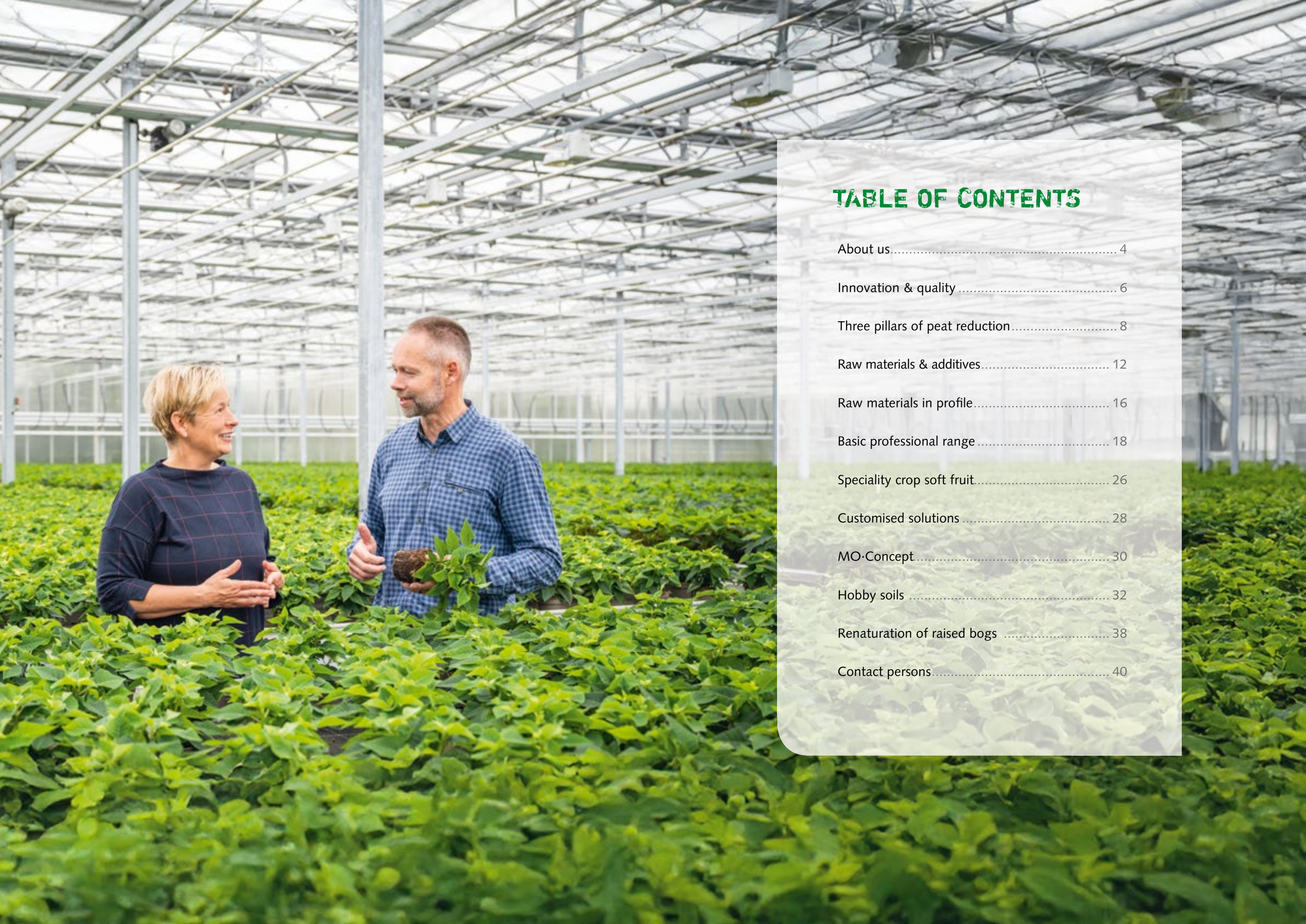


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ABOUT US

Your partner Gramoflor - Innovation meets family business

Founded in 1908 by Anton Gramann as a peat trading company, GRAMOFLO is now a modern substrate company with German plants in Vechta and Neuenkirchen-Vörden as well as in Mogente, Spain.

We are the international quality supplier of sustainable and efficient high-performance substrates for professional commercial horticulture and potting soils for hobby gardeners.

The reduction of peat by using our own, regional and renewable raw materials wherever possible plays a central role for us today and will continue to do so in the future. We are very pleased that we have already reached the milestone of a peat substitution rate of 37% by volume for professional and hobby substrates.

Our successful HORTICERT certification in autumn 2024 gives us the opportunity to calculate our carbon footprint in substrate production transparently and verifiably in comparison to a specified reference mixture made from 100% peat.

At the same time, we are setting standards in the industry, as we are the first substrate manufacturer specialising in professional horticulture to be HORTICERT-certified.

Customer proximity and the continuous development of innovative product solutions are important cornerstones for us. The resulting real added value makes GRAMOFLO your competent and strong partner.



3 x production-
sites



> 130
employees



43,5 mio.
€/year



> 700.000 m³
substrate/year



Certified substrates supporting
sustainable production



37% peat substitution
rate in 2024



> 300 ha
renaturation area



Professional
horticulture (B2B)



> 220 ha
peat extraction

INNOVATION & QUALITY

Sustainable and safe

Both Gramoflor Research and Development (R&D) and Sustainable Product Development (SPD) have been conducting intensive research work for years. They develop innovative quality substrates for the optimal



development of a wide variety of crops and plants. Crop safety for horticulture, healthy and vital plants and climate-conscious peat reduction are the top priorities. The well-trained team also focusses on the research into alternative, preferably renewable and regional substrate raw materials and uses its own greenhouse and laboratory for this purpose.

Tested and certified

"Quality right from the start" is our guiding principle. To live this actively, we introduced a comprehensive quality management system years ago.

Our raw materials and professional substrates are certified in accordance with the RAL quality procedure.* This certifies compliance with the high quality standards of the Gütegemeinschaft Substrate für Pflanzen e.V.. **The RAL quality and test specifications** are subject to regular monitoring and correspond to the current state of the art.

In addition, all **LIGNOFIBRE®** variants as well as Cocopeat types, Cocofibre and our organic substrates and organic soils are suitable for organic farming and are **FiBL-listed**. Our organic substrates and organic soils are also ECOCERT certified*.

With the **HORTICERT certification** obtained in autumn 2024 for our two German Gramoflor plants, we are underlining our credible commitment to sustainability. This independent, international certification system ensures ecological, social and economic sustainability criteria for peat substitutes, potting soils and growing media along the entire supply chain.

Our successful HORTICERT certification gives us the opportunity to calculate our carbon footprint in



substrate production transparently and verifiably in comparison to a specified reference mixture made from 100% peat.



*Coco Chips have not yet been RAL certified as of Dec. 2024. FiBL listing for Coco Chips is commissioned as of Dec. 2024.

THREE PILLARS OF PEAT SUBSTITUTION

You are wondering why we guarantee crop safety?

Simply because we can!

Peat substitutes perfectly combined.

Horticulture is currently undergoing an unprecedented paradigm shift in the field of soils and substrates. Peat, a raw material that has provided security for decades, is less and less available because it is considered a fossil raw material with a negative CO₂ balance.

According to the demands of the BMEL (Federal Ministry of Food and Agriculture), professional horticulture should therefore be largely peat-free by 2030. This presents the entire industry with major challenges that need to be tackled together.

We at Gramoflor have been focussing on this development for many years and have set the necessary course at an early for ever-increasing peat reduction. The topic of peat replacement has the highest priority in the company, so that I promise you a hand: We can do that! With the perfect combination of the best peat substitutes, we maximise the peat content of your substrates to a maximum and guarantee you the goal that is so important to you in this area, namely crop safety. Peat reduction at Gramoflor currently focuses mainly on our three pillars: the premium wood fibre **LIGNOFIBRE®** from our own production and currently in five variants as well as Cocos and substrate compost from our own processing. These glorious three are perfectly combined by us, so that we can offer you, whether peat-reduced or peat-free, future-proof substrates for every type of crop in our own plants.

Our future is based on experience and knowledge, simply because we can do it!

J. Gramann

Josef Gramann
Managing Partner



1. WOOD FIBRE Quality wood fibre LIGNOFIBRE®

When it comes to describing the ideal peat substitute for substrates and soils, our own wood fibre with the brand name **LIGNOFIBRE®** provides all the necessary properties.

Using **state-of-the-art refining technology**, we have been producing this quality wood fibre since 2018 in what are now two of our own wood fibre plants.

In this way, we obtain a particularly high-quality substrate raw material with a **good CO₂ balance** from the renewable and regional residual material wood chips (certified quality) through thermal-mechanical defibration.

The advantages of **LIGNOFIBRE®** wood fibre at a glance:

- effective combinability for maximum peat reduction
- local and reliable availability
- good drainage properties of the coarser variants
- good water storage capacity of the finer variants
- balanced air balance
- quick rewettability
- structural stability, i.e. low shrinkage
- rapid drying of the substrate surface
- low n-fixation (nitrogen stabilised)

The **five structural variants** available, from superfine to coarse, are an ideal replacement for peat in substrates and soils and are also suitable for the entire range of different crops, from press pots to containers. They can be **perfectly** combined with each other, but also with other peat substitutes, thus ensuring maximum peat reduction while taking crop safety into account.

All variants are RAL quality-assured and FiBL-listed for use in organic horticulture.



2. COCO

Diverse portfolio of coconut products

Cocopeat (coconut pulp), Cocofibre (coconut fibres) and Coco Chips are sufficiently available in the countries of origin, such as India and Sri Lanka, as **residual materials** from coconut processing and have now also proven to be excellent peat substitutes in professional horticulture.

Our new **Coco Chips** are made from shredded coconut husks and offer an excellent, coarse-grained structure for substrates. As a peat-free alternative to coarse white peat, Coco Chips are characterised by their very good structural stability, which is demonstrably even superior to that of white peat.

The natural fibre content promotes the air capacity of the substrate, which is essential for healthy root development, among other things. Coco Chips, especially in combination with our wood fibre variants **LIGNOFIBRE®c** coarse and **LIGNOFIBRE®**, are the perfect addition to your substrate from pot size 13.

Thanks to the water retention in the coarse pieces, Coco Chips support sustained moisture despite their coarse structure.

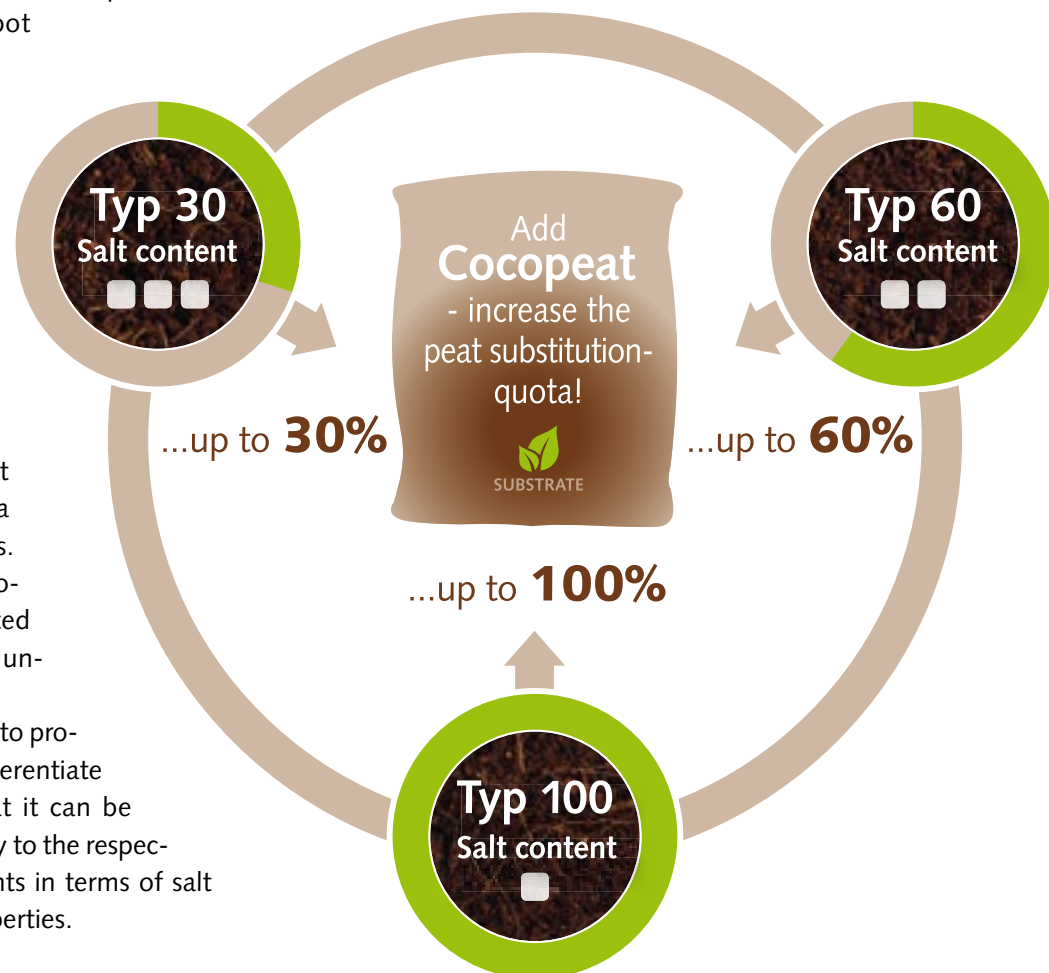
We process the raw material **Cocopeat** ourselves at our production plant using a specially developed process. A large proportion of the so-called leaching of unwanted salts/nutrients takes place under controlled conditions. Gramoflor is therefore able to process the Cocopeat and differentiate it into **three types** so that it can be tailored even more precisely to the respective cultivation requirements in terms of salt content and chemical properties.

This enables continuity in the chemical properties and thus an effective and safe use of coco products in the substrate.

Three Cocopeat qualities are therefore available:

- **Type 30** for proportions in substrates up to 30%
 - **Type 60** for proportions in substrates up to 60%
 - **Type 100** for proportions in substrates up to 100% and for particularly sensitive crops.
- Chemical buffering is no longer necessary.

All coconut products are RAL quality-assured and FiBL-listed for use in organic horticulture.*



*Coco Chips have not yet been RAL certified as of Dec. 2024. FiBL listing for Coco Chips is commissioned as of Dec. 2024.

3. SUBSTRATE COMPOST

From our own processing

Substrate compost is another renewable raw and residual material that is obtained from green waste **in the spirit of a smart circular economy**. However, it can only be used for peat reduced and peat free substrates and soils if strict quality standards are met.

The substrate compost used by Gramoflor comes from long-term partnerships with regional suppliers from the waste management industry who recognise these high requirements and also achieve them with their compost. We only use high-quality green waste compost in accordance with the German Compost Quality Association (Bundesgütegemeinschaft Kompost) with rotting grade V.

And this compost material is further processed in the Gramoflor production plants by pre-screening, resulting in a more homogeneous product with further application possibilities in soils and substrates.

The RAL quality assurance guarantees a continuously consistent high quality in order to fulfil the requirements of a substrate for professional horticulture and the cultivation safety necessary there.



Peat substitutes perfectly combined.

Are you looking for a peat-reduced or peat-free professional substrate with guaranteed cultivation safety? Then come to us, because we can really do it!

RAW MATERIALS & ADDITIVES



Our raw materials – your choice

Renewable peat substitutes



LIGNOFIBRE®c
hydro



LIGNOFIBRE®c
Xtrafine+



LIGNOFIBRE®c



LIGNOFIBRE®



LIGNOFIBRE®c
coarse



Cocopeat
Type 30 / 60 / 100



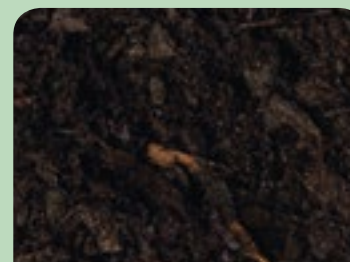
Cocofibre



Coco Chips



Substrate compost



Bark humus



Pine bark

Our raw materials – your choice

Mineral peat substitutes



Perlite
0-3 mm / 0-6 mm



Expanded clay

Peat-based raw materials



White peat
fine



White peat
medium



White peat
coarse



Black peat



Black peat
special



Mixed peat fibre

Additives and fertiliser



Osmocote
mineral fertiliser



Viscotec Blue - organic-
mineral eco-fertiliser



Horn shavings
organic biofertiliser



Damp clay



Sand



gramoXchange

Your choice – our basis

The basis for our Gramoflor high-performance substrates and soils is this diverse range of both renewable and mineral peat substitutes, high-quality peat, additives and fertilizers. It enables you to make the ideal choice for your Gramoflor substrate and thus for effective, safe and climate-friendly cultivation of your crops.

The most important cornerstones of our raw materials are our three pillars of peat reduction, our wood fibre **LIGNOFIBRE®**, the coconut products **Cocopeat**, **Cocofibre** and **Coco Chips** as well as our quality-assured **substrate compost**. These enable us to successfully reduce peat in our substrates without loss of quality.

Peat as a raw material will continue to play a certain role in commercial horticulture in the coming years. Here, too, we have done our homework and use our own North German peat wherever possible. We extract this in our own upper subsoil process, which involves starting the renaturalisation process at the same time.

You can read more about our commitment to peatland and climate protection on page 39.

RAW MATERIALS IN PROFILE

Ideal properties for your substrate - perfectly combined.

Our substrate starting materials are very heterogeneous in terms of their chemical, physical and biological properties. Depending on the intended use, the desired properties of the substrate are perfectly reproduced through a perfect combination with each other in order to achieve the required physical and chemical properties with pinpoint accuracy.

In terms of sustainability, for example, the combination of the different peat substitutes with each other and the different structures within a peat substitute is crucial. Depending on the substrate's area of application, peat itself still has its justification. Gramoflor develops the optimum professional substrate for your crops and areas of application.

	Chemical properties		Physical properties				Biological properties	Application
Raw material	Salinity	PH-value buffering	Air retention/circulation	Influence on structural stability	Drainage (permeability)	Max. water absorption capacity	Biological activity	Stage of the plant
LIGNOFIBRE ^{®c} coarse	★★★ ★★	☆☆☆ ☆☆	★★★ ★★	★★★ ☆☆	★★★ ★★	☆☆☆ ☆☆	★★★ ☆☆	Pot plants, container plants, bucket plants
LIGNOFIBRE [®]	★★★ ★★	☆☆☆ ☆☆	★★★ ☆☆	★★★ ☆☆	★★★ ☆☆	☆☆☆ ☆☆	★★★ ☆☆	Timber wood propagation, young plants, pot plants, container plants, bucket plants
LIGNOFIBRE ^{®c}	★★★ ★★	☆☆☆ ☆☆	★★★ ☆☆	★★★ ☆☆	★★★ ☆☆	☆☆☆ ☆☆	★★★ ☆☆	Sowing & seeding, timber wood propagation, young plants, pot plants, container plants
LIGNOFIBRE ^{®c} Xtrafine+	★★★ ★★	☆☆☆ ☆☆	★★★ ☆☆	★★★ ☆☆	★★★ ☆☆	☆☆☆ ☆☆	★★★ ☆☆	Sowing & seeding, cuttings, timber wood propagation, young plants, pot plants, container plants
LIGNOFIBRE ^{®c} hydro	★★★ ★★	☆☆☆ ☆☆	★★★ ☆☆	★★★ ☆☆	★★★ ☆☆	☆☆☆ ★★	★★★ ☆☆	Sowing & seeding, cuttings, timber wood propagation, young plants, pot plants
Cocopeat Type 30	★★★ ☆☆	☆☆☆ ☆☆	☆☆☆ ☆☆	★★★ ☆☆	☆☆☆ ☆☆	☆☆☆ ★★	★★★ ★★	Sowing & seeding, propagation, pot plants, container plants
Cocopeat Type 60	★★★ ☆☆	☆☆☆ ☆☆	☆☆☆ ☆☆	★★★ ☆☆	☆☆☆ ☆☆	☆☆☆ ★★	★★★ ★★	Sowing & seeding, propagation, pot plants, container plants
Cocopeat Type 100	★★★ ★★	☆☆☆ ☆☆	☆☆☆ ☆☆	★★★ ☆☆	☆☆☆ ☆☆	☆☆☆ ★★	★★★ ★★	Young plants, sowing & seeding, propagation, pot plants, container plants
Cocofibre Type 100	★★★ ★★	☆☆☆ ☆☆	★★★ ★★	★★★ ★★	★★★ ★★	☆☆☆ ☆☆	★★★ ★★	Normally pot and container crop
Coco Chips	★★★ ☆☆	☆☆☆ ☆☆	★★★ ★★	★★★ ★★	★★★ ★★	☆☆☆ ☆☆	★★★ ★★	Normally pot and container crop
Bark humus	☆☆☆ ☆☆	★★★ ☆☆	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ★★	☆☆☆ ☆☆	Limited to shares; mainly pot and container plants
Pine bark	★★★ ☆☆	☆☆☆ ☆☆	★★★ ★★	★★★ ★★	★★★ ★★	☆☆☆ ☆☆	★★★ ☆☆	Limited to shares; mainly container plants
Substrate compost	☆☆☆ ☆☆	★★★ ★★	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ★★	☆☆☆ ☆☆	Limited to shares; mainly pot and container plants
Expanded clay	☆☆☆ ☆☆	☆☆☆ ☆☆	★★★ ★★	★★★ ★★	★★★ ★★	☆☆☆ ☆☆	★★★ ★★	Limited to shares; mainly pot and container plants and also specialties like cemetery soils
Perlite 0-6 mm	★★★ ★★	☆☆☆ ☆☆	★★★ ★★	★★★ ☆☆	★★★ ☆☆	☆☆☆ ☆☆	★★★ ★★	Depending from its fraction size and amount mainly for all applications
Mixed peat fibre	★★★ ★★	★★★ ★★	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ★★	★★★ ★★	Pot plants, container plants, bucket plants
Black peat	★★★ ★★	★★★ ★★	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ★★	★★★ ★★	Sowing & seeding, cuttings, timber wood propagation, young plants, pot plants
Black peat special	★★★ ★★	★★★ ★★	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ★★	★★★ ★★	Press pot young plants
White peat fine	★★★ ★★	★★★ ★★	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ☆☆	☆☆☆ ★★	★★★ ★★	Sowing & seeding, cuttings, timber wood propagation, young plants, pot plants, container plants
White peat medium	★★★ ★★	★★★ ☆☆	★★★ ☆☆	★★★ ☆☆	★★★ ☆☆	☆☆☆ ★★	★★★ ★★	Timber wood propagation, young plants, pot plants, container plants, bucket plants
White peat coarse	★★★ ★★	★★★ ☆☆	★★★ ★★	★★★ ★★	★★★ ☆☆	☆☆☆ ☆☆	★★★ ★★	Pot plants, container plants, bucket plants

Our raw materials are RAL certified and FiBL listed.
As of December 2024: Coco Chips have not yet been RAL certified, FiBL listing has been commissioned.

BASIC PROFESSIONAL RANGE



From professionals for professionals

The production of standardised and individual substrates for professional horticulture is one of our core competencies. The Gramoflor basic professional range includes suitable substrates for ornamental plant cultivation, for tree nurseries, for perennial plants and for the cultivation of vegetables or soft fruit. We keep

this range in stock for you with the aim of ensuring short delivery lead times. In close co-operation with the Gramoflor specialist consultant, the substrate formulations are determined on site at the customer's premises and a substrate is recommended according to the existing requirements.

Range	Application	Substi-tution	CO ₂ -savings.*	Raw materials	Additives	PH-value	Structure
CULTIVATION AND PROPAGATION SUBSTRATES							
Presstopf Spezial Article no.: 27603				Available in:			
Vegetables	Sowing, Press pots, Propagation	30%	34%		gramo-MICRO DEPOT, Mineral fertilizer	5,6	fine
Tray superfine Article no.: 31883				Available in:			
Vegetables	Sowing, Propagation	15%	39%		gramo-MICRO DEPOT, Mineral fertilizer	5,6	super fine
Aussaat Tray Article no.: 3821				Available in:			
Vegetables	Sowing, Propagation	15%	47%		gramo-MICRO DEPOT, Mineral fertilizer	5,6	super fine
GRAMOSEMI Article no.: 2050				Available in:			
Vegetables	Sowing, Propagation	15%	49%		gramo-MICRO DEPOT, Mineral fertilizer	5,8	super fine fine
Presstopf Tray Article no.: 2001				Available in:			
Vegetables	Sowing, Press pots, Propagation	15%	29%		gramo-MICRO DEPOT, Mineral fertilizer	5,6	fine

* Calculated CO₂ savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

LEGEND: Raw materials

White peat

Mixed peat fibre

LIGNOFIBRE® (wood fibre)

Expanded clay

Wood chippings

Black peat

Coco

Perlite 0-6

Substrate compost

Bark humus

Range	Application	Substi- tution	CO ₂ - savings.*	Raw materials	Additives	PH- value	Structure
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CULTIVATION AND PROPAGATION SUBSTRATES

Tray media Article no.: 3236

Available in:   



Vegetables, Potted plants	Sowing, Young plants, Pricking	25%	49%		gramo-MICRO DEPOT, Mineral fertilizer	5,6	medium
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GRAMOSEMI+PERL. Article no.: 2051

Available in:  

Vegetables	Sowing, Propagation	30%	54%		gramo-MICRO DEPOT, Mineral fertilizer	5,7	superfine fine
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Aussaat/Vermehrung MO Article no.: 23001

Available in:  

Vegetables, Herbs	Sowing, Propagation	30%	51%		gramo-MICRO DEPOT, Mineral fertilizer, MO-Combi	5,6	fine
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BIO Presstopf Article no.: 35174

Available in:   


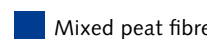

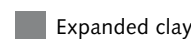
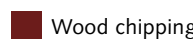

Vegetables	Sowing, Propagation, Press pots	30%	27%		gramo-MICRO DEPOT, Deposit fertilizer, Organic liquid	5,6	fine
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BIO Aussaat/Semi+Depot Article no.: 24741

Available in:   

Vegetables, Herbs, Potted plants	Sowing, Propagation	50%	59%		Deposit fertilizer, Organic liquid	5,8	fine
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LEGEND: Raw materials

 White peat
  Mixed peat fibre
  LIGNOFIBRE® (wood fibre)
  Expanded clay
  Wood chippings
  Black peat

Range	Application	Substi- tution	CO ₂ - savings.*	Raw materials	Additives	PH- value	Structure
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POT SUBSTRATES

Topf-LF+TonL Article no.: 24731

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


Bedding & balcony plants, Perennials, Potted plants	Potting final pot	45%	59%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	5,8	according to agreement
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TR70 Universal Article no.: 34180

Available in:   

Bedding & balcony plants, Perennials, Potted plants	Pots from pot size 9 cm	70%	68%		gramo-MICRO DEPOT, Mineral fertilizer	5,5	medium fibrous
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Topf/Pikier Article no.: 2003

Available in:   

Bedding & balcony plants, Vegetables, Potted plants	Young plants, Pricking	35%	57%		gramo-MICRO DEPOT, Mineral fertilizer	5,8	medium fibrous
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Topf/Pikier+TonL Article no.: 2004

Available in:   

Bedding & balcony plants, Vegetables, Potted plants	Bedding plants (also primula/ viola) from pot size 9cm	35%	56%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	5,8	medium fibrous
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Topf Article no.: 2005

Available in:   

Bedding & balcony plants, Herbs, Potted plants	Potting final pot	40%	59%		gramo-MICRO DEPOT, Mineral fertilizer	5,8	medium coarse fibrous
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Topf+TonL Article no.: 10955

Available in:   




























Bedding & balcony plants, Potted plants	Potting final pot	40%	59%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	5,6	medium coarse fibrous
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Topf+TonXL Article no.: 2006


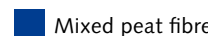

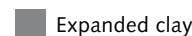
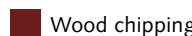

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Bedding & balcony plants, Potted plants	Potting final pot	40%	59%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	5,8	medium coarse fibrous
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 Coco
  Perlite 0-6
  Substrate compost
  Bark humus
* Calculated CO₂ savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.




















Range	Application	Substi- tution	CO ₂ - savings.*	Raw materials	Additives	PH- value	Structure
POT SUBSTRATES							
Topf+TonXL+Depot Article no.: 17375				Available in:   			
Bedding & balcony plants, Potted plants	Potting final pot	40%	58%		gramo-MICRO DEPOT, Mineral fertilizer, Deposit fertilizer, Clay	5,8	medium coarse fibrous
Topf+TonL+Perl Article no.: 10956				Available in:   			
Bedding & balcony plants, Potted plants	Potting final pot	40%	60%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	5,6	medium coarse fibrous
TR50 Universal Article no.: 30820				Available in:   			
Bedding & balcony plants, Perennials Potted plants	Potting final pot	50%	56%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	5,8	medium coarse fibrous
Torrfrei Universal Article no.: 32598				Available in:   			
Container plants, Herbs, Perennials, Potted plants	Soft irrigation water is essential only plants with pH > 5.5	100%	72%		gramo-MICRO DEPOT, Mineral fertilizer	6,4	according to agreement
Topf/Pikier-LF+TonL+MO Article no.: 24726				Available in:   			
Bedding & balcony plants, Vegetables, Potted plants	Young plants, Pricking	35%	61%		gramo-MICRO DEPOT, Mineral fertilizer, MO-Combi, Clay	5,8	medium-medium coarse fibrous
Topf+TonL+Depot Article no.: 13686				Available in:  			
Bedding & balcony plants, Perennials, Potted plants	Potting final pot	40%	57%		gramo-MICRO DEPOT, Mineral fertilizer, Deposit fertilizer, Clay	5,6	medium coarse fibrous
Topf-LFc TPI Article no.: 25936				Available in:   			
Potted plants, Speciality crops	Potting final pot	40%	58%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	5,8	medium coarse fibrous

LEGEND: Raw materials


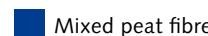

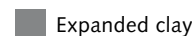
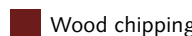

 White peat
 Mixed peat fibre
 LIGNOFIBRE® (wood fibre)
 Expanded clay
 Wood chippings
 Black peat
















Range	Application	Substi- tution	CO ₂ - savings.*	Raw materials	Additives	PH- value	Structure
POT SUBSTRATES							
BIO Universal-LF+Depot Artikel-Nr: 24727				Available in:  			
Bedding & balcony plants, Herbs, Perennials, Potted plants, Container	Young plants, Potting final pot	55%	61%		Organic liquid, Deposit fertilizer	5,8	medium-medium coarse fibrous
Topf/Cont-LF+TonL+Depot Artikel-Nr: 28162				Available in:  			
Bedding & balcony plants, Container plants, Herbs, Perennials	Container Potting final pot	50%	57%		gramo-MICRO DEPOT, Mineral fertilizer, Deposit fertilizer, Clay	5,8	according to agreement
CONTAINER SUBSTRATES							
Container Article no.: 2007				Available in:   			
Container plants	Pot container	40%	60%		gramo-MICRO DEPOT, Mineral fertilizer	5,8	according to agreement
Container+TonL Article no.: 2008				Available in:   			
Container plants	Pot container	40%	60%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	5,8	according to agreement
Container-LFc TPI Article no.: 25943				Available in:   			
Container plants, Poinsettien, Potted plants	Potting final pot Container, Speciality crops	50%	64%		gramo-MICRO DEPOT, Mineral fertilizer, Deposit fertilizer	5,6	according to agreement

 Coco
 Perlite 0-6
 Substrate compost
 Bark humus
* Calculated CO₂ savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

Range	Application	Substi- tution	CO ₂ - savings.*	Raw materials	Additives	PH- value	Structure
SPECIAL SUBSTRATES							
Paperpot-Plus+CC+MO Article no.: 18321				Available in:   			
Plug	Rooting	45%	61%		gramo-MICRO DEPOT, Mineral fertilizer, MO-Combi	5,7	fine
Paperpot-Special+Perl+MO Article no.: 14680				Available in:   			
Plug	Rooting	55%	63%		gramo-MICRO DEPOT, Mineral fertilizer, MO-Combi	5,6	fine
Friedhof+Wasserspeicher Article no.: 4804				Available in:  			
Cemetery	Planting & covering substrate	40%	41%		Mineral fertilizer, Clay	5,6	fine
Friedhof (spezial) Article no.: 4450				Available in:   			
Cemetery	Planting & covering substrate	45%	48%		Mineral fertilizer, Clay	5,6	fine
Calluna Topf-LF Article no.: 24735				Available in:  			
Calluna	Potting final pot	30%	56%		gramo-MICRO DEPOT, Mineral fertilizer	4,2	medium coarse fibrous
Cycl.-/Poins.-LFC+TonL+MO Article no.: 25945				Available in:   			
Cyclamen, Poinsettien	Potting final pot	50%	65%		gramo-MICRO DEPOT, Mineral fertilizer, MO-Combi, Clay	5,8	according to agreement
Primula/Viola+TonXL Article no.: 3196				Available in:   			
Primula, Viola	Potting final pot	20%	53%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	5,7	medium-medium coarse fibrous

LEGEND: Raw materials

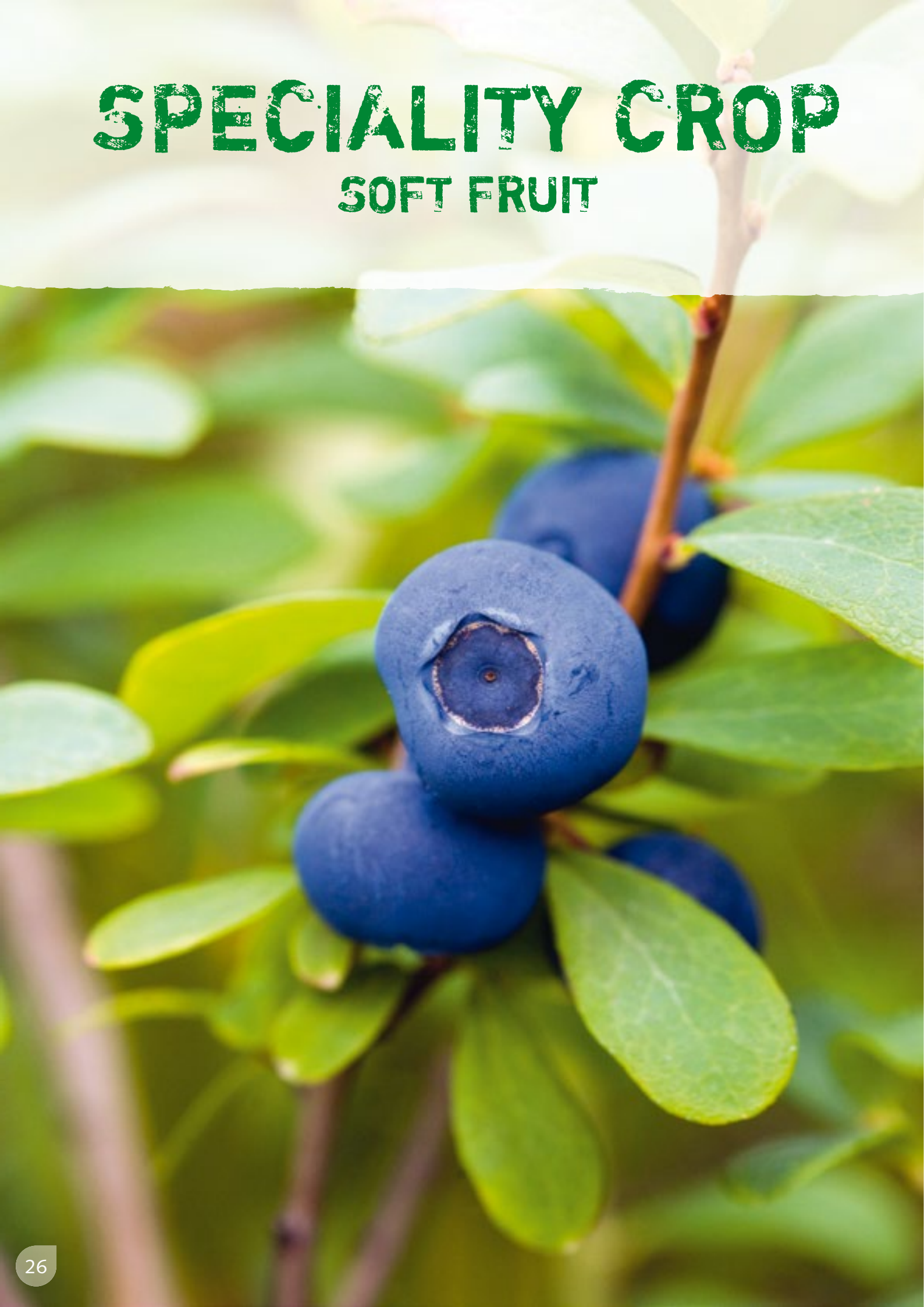
 White peat
  Mixed peat fibre
  LIGNOFIBRE® (wood fibre)
  Expanded clay
  Wood chippings
  Black peat

Range	Application	Substi- tution	CO ₂ - savings.*	Raw materials	Additives	PH- value	Structure
SPECIAL SUBSTRATES							
Primula/Viola+TonL+Depot Article no.: 17427				Available in:   			
Primula, Viola	Potting final pot	25%	54%		gramo-MICRO DEPOT, Mineral fertilizer, Deposit fertilizer, Clay	5,7	medium-medium coarse fibrous
Surfinia+TonXL Article no.: 9443				Available in:   			
Surfinia	Potting final pot	25%	53%		gramo-MICRO DEPOT, Mineral fertilizer, Clay	4,8	medium coarse fibrous
Surfinia-LFC+TonL+Depot Article no.: 25947				Available in:   			
Surfinia	Potting final pot	30%	52%		gramo-MICRO DEPOT, Mineral fertilizer, Deposit fertilizer, Clay	5,6	medium coarse fibrous
Topf-Berry Red Article no.: 30644				Available in:  			
Strawberries, Raspberries	Planting substrate	70%	70%		gramo-MICRO DEPOT, Mineral fertilizer	5,5	medium-medium coarse fibrous
Topf-Blueberry Article no.: 35172				Available in:  			
Blueberries (bog bedding plants)	Planting substrate	65%	70%		gramo-MICRO DEPOT, Mineral fertilizer	4,5	according to agreement
GF-Containermulch Spezial Article no.: 31393				Available in:  			
Mulching material	Covering material, container	100%	95%				according to agreement

 Coco
  Perlite 0-6
  Substrate compost
  Bark humus
* Calculated CO₂ savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

SPECIALITY CROP

SOFT FRUIT



Substrates for safe and high-yield cultivation

Are you looking for a suitable substrate for growing soft fruit such as strawberries, raspberries or blueberries? Our **Gramoflor soft fruit substrates** offer you the optimum

solution for crop-safe cultivation and high yields - customised to your farm.

Substrate	Structure	Application	Target ph-value	PS	Raw materials	Additives	Article no.
Topf-Berry Red	medium-medium coarse-fibrous	Universal soft berry substrate for strawberries and raspberries.	5,5	70%		Mineralfertilizer, gramoMICRO-DEPOT	30644
Raspberry (Long-Canes) + Strawberries	according to agreement	Especially for long canes + remontant strawberries in common cultivation methods. Increased substrate moisture.	5,8	55%		Mineral fertilizer, gramoMICRO-DEPOT	34603
Topf-Blueberry	according to agreement	Universally applicable, highly peat-reduced container substrate for blueberries. Increased substrate moisture..	4,5	65%		Mineral fertilizer, gramoMICRO-DEPOT	35172
Strawberries	according to agreement	Proven, highly peat-reduced substrate for strawberries in common cultivation methods outside the natural soil.	5,4	75%		Mineral fertilizer, gramoMICRO-DEPOT	29115

LEGEND: Proportion of raw materials = colour bar / PS = Peat substitution

White peat LIGNOFIBRE® (wood fibre) Mixed peat fibre Coco Perlite 0-6

All advantages at a glance

- ① Greater **crop safety** because of protected cultivation and the use of substrates
- ② More **reliability and controllability** thanks to standardised, safe raw materials
- ③ Protected cultivation **enables higher yields** with good fruit quality
- ④ **Optimum adaptation** to the cultivation method, e.g. cultivation of young plants, yield cultivation in containers, on gutters, racks or as ridge cultivation
- ⑤ **Tried and also completely customised** substrates
- ⑥ **On-site support**



In addition, we offer individual and therefore highly specialised substrate solutions according to customer-specific requirements.

INDIVIDUAL SUBSTRATE REQUEST



Customised and tailored to your culture

Our extensive basic professional range does not have the right professional substrate for you? No problem: Gramoflor also offers individual and therefore highly specialised substrate solutions.

The Gramoflor specialist consultant develops the customised special mixture on site in consultation with the customer. Here, too, peat reduction and crop

safety have top priority. Our Gramoflor consultants know what is important in professional cultivation management: they can look back on many years of experience and are horticultural technicians, master craftsmen or horticultural engineers. Throughout the entire cultivation period, they are at your side with commitment and advice.

As part of a comprehensive service, we analyse the customer-specific requirements of your crops at the start of the cultivation planning phase. Especially for substrates with a higher peat substitute content, the desired properties of the substrate are then matched with the raw materials and nutrient combinations for the start-up phase using our nutrient calculator (gramoNUTRI-concept). Here we draw on extensive data collection and years of expertise at Gramoflor.

The gramoNUTRI-concept enables sustainable and economical crop planning in the start-up phase, as it only contains components that are actually needed.

gramoNUTRI®- concept

- Nutrient optimisation when using peat substitutes
- Professional advice with precise nutrient calculation for the start phase
- Consideration of N-immobilisation of all substrate components



MO-CONCEPT



Natural vital substances

The regular use of pesticides is known to be a risk factor for humans and plants. **MO-CONCEPT** offers an innovative, natural alternative! This intelligent complex of plant-strengthening fungi and soil bacteria promotes vigorous, stress-free plant growth and almost completely reduces the need for chemical plant protection products in the root zone.

The result: healthy, residue-free plants, safe cultivation times and considerable savings on pesticides - a sustainable win-win situation for your business. **MO-CONCEPT** combines the high-performance substrate mix **MO-COMBI®** with

the post-treatment solutions **MO-VITAL®** or **MO-VITAL 5X®** to create a comprehensive system for healthy and successful plant cultivation.

You can find more details about Gramoflor **MO-CONCEPT** here:



10 advantages at a glance

- ① Healthy start for almost all horticultural crops
- ② Better rooting
- ③ Uniform, vigorous stock from the beginning to the end of the crop
- ④ Reduced failure in young plant production
- ⑤ Improved stress resilience (drought, moisture, transport, etc.)
- ⑥ Increased resistance
- ⑦ Avoidance of plant stress caused by the degradation of chemical active ingredients
- ⑧ Free from residue
- ⑨ Without chemical components
- ⑩ When handled properly, no stress on the environment and employees



HOBBY SOILS

BIO & PEAT FREE



Professional quality hobby soils

Our promise "Quality from the start!" applies not only to the professional gardener, but also to the hobby gardener at home. With our high-quality hobby soil range in professional quality, we support the discerning garden enthusiast in caring for their plants.

All hobby soils are at least **peat reduced**. In addition to verifiably responsibly sourced peat, they use renewable, horticulturally processed raw materials such as our **LIGNOFIBRE®** wood fibre, Cocopeat or green waste compost. As a result of our endeavours to set the course towards peat free soils in the hobby sector at an early stage, we already have four completely peat-free, conventional soils in our range.

With our BIO potting soils, we also offer a 100% ecological solution for all gardening enthusiasts who

want to consciously avoid peat altogether. They are completely peat-free and offer an environmentally friendly alternative for every garden.



Bio & peat free

Our series for growth with a clear conscience – 100% ecological

Bio Blumen- & Pflanzeerde



Article no.: 1032

Peat-free organic universal soil with purely organic fertiliser. Particularly suitable for raised beds, also for larger bedding and balcony plants, perennials and other ornamental plants as well as for repotting. Can also be used outdoors and for filling plant holes.

Peat substitution rate: 100%

CO₂ savings*: 70%

Available in:



peat free

Bio Kräuter- & Gemüseerde



Article no.: 1037

Peat-free organic soil for the organic cultivation of herbs and vegetables. Ideal for the further cultivation of young vegetable plants, as seedling soil and for planting herb beds. The nourishing fertiliser is purely organic.

Peat substitution rate: 100%

CO₂ savings*: 74%

Available in:



peat free

* Calculated CO₂ savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

HOBBY SOILS

GRAMOFLOR & NATURAHUM



Gramoflor soils

peat-free

Tomaten- & Gemüseerde torffrei



Article no.: 1088

The peat-free vegetable soil is ideal for tomatoes, cucumbers, peppers, aubergines, courgettes, pumpkins, chilli peppers and pepperonies. For self-sufficiency with fruit vegetables in raised beds, tubs or balcony boxes. Mineral fertilisation.

Peat substitution rate: 100%

CO₂ savings*: 73%

Available in:

20 50

peat free

Blumenerde torffrei



Article no.: 1475

Mineral-fertilised, well-structured and versatile peat-free potting soil. For spring-flowering plants, bedding and balcony plants as well as perennials and small shrubs. Can be used as an all-rounder for almost all plants in the garden, on the patio, on the balcony and indoors. With depot fertiliser.

Peat substitution rate: 100%

CO₂ savings*: 77%

Available in:

20 50

peat free

Gramoflor soils

Our peat-reduced full range for the sophisticated hobby gardener

Blumenerde



Article no.: 1075

Universal soil with clay minerals and micronutrients. It ensures healthy growth of all balcony plants, indoor and garden plants.

Peat substitution rate: 70%

CO₂ savings*: 56%

Available in:

5 10 15 20 45 70

Pflanzerde



Article no.: 1085

This is the perfect soil for planting perennials, shrubs and trees.

Peat substitution rate: 75%

CO₂ savings*: 58%

Available in:

45 70

Orchideenerde



Article no.: 1082

This structurally strong material is the ideal soil for orchids and provides for a healthy root climate.

Peat substitution rate: 100%

CO₂ savings*: 95%

Available in:

5

Pinien-Dekorrinde



Article no.: 1090 (fine)

Article no.: 1091 (medium)

Article no.: 1092 (coarse)

For creative garden design and ground cover, we recommend Gramoflor Pinien-Dekorrinde in coarse, medium and fine grain sizes, depending on requirements. It suppresses weed growth in a natural way and at the same time protects the soil from drying out.

Peat substitution rate: 100%

Available in:

60

* Calculated CO₂ savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

Balkonpflanzenerde**Article no.: 1078**

This soil ensures splendid growth in all balcony boxes. For all summer-flowering plants such as geraniums, fuchsias, petunias etc..

Peat substitution rate: 70%

CO₂ savings*: 54%

Available in:

20 45 70

**Kübel- & Zitruspflanzenerde****Article no.: 1084**

This soil is the perfect breeding ground for all citrus plants as well as for potted plants such as passion flower, oleander, angel's trumpet, daisies and hibiscus.

Peat substitution rate: 70%

CO₂ savings*: 61%

Available in:

45

**Kakteenerde****Article no.: 1083**

The cactus soil offers the best nutrient and pH value conditions for cacti and other succulents. It is based on quartz sand and exchange-active clay.

Peat substitution rate: 45%

CO₂ savings*: 52%

Available in:

5

**Rosenerde****Article no.: 1086**

Roses in pots, tubs and beds are well cared for with this soil and are rewarded with strong flowers and healthy flowers and healthy growth. Clay ensures good rewetting and nutrient buffering.

Peat substitution rate: 60%

CO₂ savings*: 54%

Available in:

20 45

**Aussaat- & Jungpflanzenerde****Article no.: 1081**

Specialised soil for sowing and growing of young plants. In addition it can be used for pricking out and propagation of cuttings.

Peat substitution rate: 55%

CO₂ savings*: 47%

Available in:

15

**Naturahum potting soils**

Good quality at an attractive price

Blumen- & Pflanzenerde**Article no.: 1250**

Universal soil for all indoor, balcony and patio plants. It is a soil rich in structure that is also suitable for planting perennials, shrubs and trees and ensures vital plant growth.

Peat substitution rate: 70%

CO₂ savings*: 60%

Available in:

10 20 45 70

**Graberde****Article no.: 1052**

A dark soil that is ideal for planting and covering graves.

Peat substitution rate: 55%

CO₂ savings*: 44%

Available in:

20 45

**Graberde****Article no.: 1080**

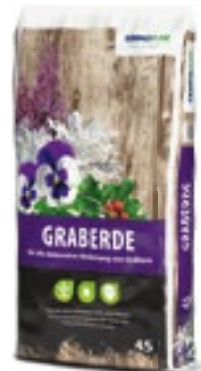
Fine crumbly and deep dark special soil for decorative covering of graves and for grave planting.

Peat substitution rate: 50%

CO₂ savings*: 36%

Available in:

15 45

**Rhododendron- & Moorbeeterde****Article no.: 1079**

Special soil for plants that require a low pH value (< 5.0). These include bog bedding plants such as rhododendrons, azaleas and heathers.

Peat substitution rate: 50%

CO₂ savings*: 46%

Available in:

20 45 70

**Rindenmulch****Article no.: 1258**

A natural coniferous wood bark for decorative and practical ground cover.

Peat substitution rate: 100%

Available in:

60

**Gärtnersubstrat**

Professional quality from the gardener you trust

Gärtnersubstrat**Article no.: 1025**

Your own tried and tested formulation for your customers or our tried and tested professional standard formulation for lush and healthy plant growth.

Peat substitution rate: 55%

Available in:

20 45 70



* Calculated CO₂ savings using HORTICERT GHG methodology vs. 100% peat. Basis: ex works, loose.

RENATURATION OF RAISED BOGS



We create living raised bogs



In northern Germany, peat extraction is being used to create genuine CO₂ reservoirs exclusively on land that was previously used for agriculture. Living raised bogs are being developed in the interests of peatland and climate protection and this work will later be handed over to the "Lebensraum Moor" foundation set up by Gramoflor in 2012.

The non-profit nature conservation foundation under civil law follows the guiding principle

Gramoflor's roots lie in the agricultural history of the founding Gramann family, which has always been closely associated with the peatlands of northern Germany. This gave rise to Josef and Gabriela Gramann's deep

of contributing to a respectful and responsible approach to nature. Its objective is the preservation and further development of the raised bog areas - safeguarded for generations. The foundation also aims to promote moorland and nature conservation, ecological education and research and development.



With our many years of expertise and in cooperation with nature conservation organisations, we can also create permanent nature conservation areas and climate-friendly CO₂ sinks. One pilot project for this is the peatland restoration in the Ahlen-Falkenberger Moor near Cuxhaven, which was launched in 2023. This will be realised via the NABU climate fund.

With all these measures, we are wholeheartedly committed to the restoration of living raised bogs - yesterday, today and in the future!

attachment to the moorland habitat, which continues to this day, and the renaturalisation work that Gramoflor has been carrying out for years on former peat extraction areas.

Over many years, the company has developed its own upper subsoil process, in which renaturalisation takes place during peat extraction. This creates the best possible conditions for successful raised bog development. The process is now also recognised by renowned nature conservation organisations.



STIFTUNG
**Lebensraum
Moor**

CONTACT PERSONS NATIONAL

Your contact persons in the field service



Folker Bohlen

Sales consultant
Dipl.-Ing. Agr.
📍 Northern Lower Saxony
☎ +49 170 2755506
✉ f.bohlen@gramoflor.de



Benno Ostermann

Sales consultant
Master gardener
📍 Schleswig-Holstein/Hamburg/
Northeast Lower Saxony
☎ +49 1525 3236295
✉ b.ostermann@gramoflor.de



Fred Demberg

Sales consultant
📍 Parts of Lower Saxony/
Northeast NRW
☎ +49 162 2131290
✉ f.demberg@gramoflor.de



Georg Seelmann

Sales consultant
Horticultural technician
📍 Bavaria
☎ +49 172 8712306
✉ georg.seelmann@ghs-gartenbau.de



Bernhard Engelhart

Sales consultant
Master gardener
📍 Bavaria
☎ +49 172 7830809
✉ bernhard.engelhart@ghs-gartenbau.de



Stefan Krämer

Sales consultant
Gardener & Horticultural technician
📍 Bavaria
☎ +49 176/56937136
✉ gartenbau.skraemer@gmail.com



Marco Falk

Sales consultant
Horticultural technician
📍 North-Rhine Westphalia
☎ +49 151 12757800
✉ m.falk@gramoflor.de



Dirk Müller

Sales consultant
Horticultural technician
📍 Southwest Germany
☎ +49 170 2755504
✉ d.mueller@gramoflor.de



Thorsten Unterseher

Sales consultant
Dipl.-Ing. (FH) Horticulture
📍 Hesse/Saxony/Thuringia
☎ +49 172 5628755
✉ thorsten.unterseher@botana-gmbh.de



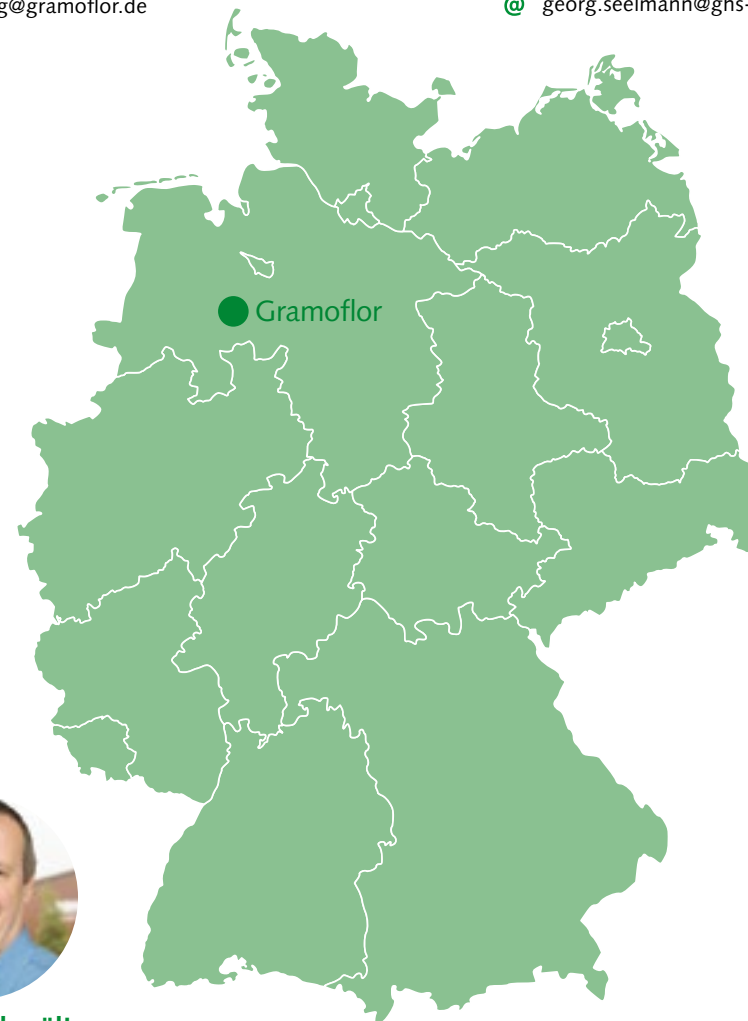
Oswald Müller

Sales consultant
Master gardener
📍 Hesse/Saxony/Thuringia
☎ +49 172 5633671
✉ oswald-mueller@gmx.de



Roland Schmäling

Sales consultant
Master gardener
📍 Bavaria
☎ +49 160 8203931
✉ roland.schmaeling@ghs-gartenbau.de



Your contact persons in the insides sales service



Jürgen Mehrländer-Baar

Inside sales Germany
☎ +49 4441 9997-14
✉ j.mehrlaender@gramoflor.de



Bärbel Mählmeyer

Inside sales Germany
☎ +49 4441 9997-20
✉ b.maehlmeyer@gramoflor.de



Christian Meyer

Inside sales Germany
☎ +49 4441 9997-28
✉ c.meyer@gramoflor.de



Anne Schenk

Inside sales Germany/Austria/
Gramoflor Iberica
☎ +49 4441 9997-18
✉ a.schenk@gramoflor.de

CONTACT PERSONS INTERNATIONAL

Your contact persons in the field service



Zbyněk Slezáček

Technical advice & sales
MSc. Ing.

📍 Czech Republic/Slovakia/Poland
☎ +420 724 340615
✉ zbynek.slezacek@substraty.info



Thodoris S. Tsiagkoudis

Technical advice & sales

📍 Balkans/Greece/Caucasus/
Slovenia/Cyprus
☎ +30 698 1337600
✉ t.tsiagkoudis@gramoflor.de



Philippe Baptistat

Technical advice & sales

📍 France/France Switzerland
☎ +33 607 963363
✉ p.baptistat@gramoflor.de



Paolo Pirisi

Representative office Italy
Dott. Agr.

📍 Italy
☎ +39 335 5781311
✉ p.pirisi@gramoflor.de



Gramoflor Ibérica SLU

Location Valencia

📍 Latin-America/Portugal/Spain
☎ +34 962 954 005
✉ info@gramoflor.es

Your contact persons in the insides sales service



Holger Gritzka

Inside sales service Export

📍 Great Britain/Ireland/Italy/Malta/
North America/Scandinavia
☎ +49 4441 9997-16
✉ h.gritzka@gramoflor.de



Theresa Burrichter

Inside sales service Export

📍 Africa/APAC/BeNeLux/France/
Switzerland/Slovenia
☎ +49 4441 9997-44
✉ t.burrichter@gramoflor.de



Sarah Abraham

Inside sales service Export

📍 Balkans/Greece/ Caucasus/
Middle East/Ukraine/Cyprus
☎ +49 4441 9997-15
✉ s.abraham@gramoflor.de



Anne Schenk

Inside sales service Export

📍 Austria/Gramoflor Ibérica/Germany
☎ +49 4441 9997-18
✉ a.schenk@gramoflor.de

■ Countries in supply

GRAMOFLOR

Quality from the start!

Gramoflor GmbH & Co. KG · Diepholzer Straße 173 · 49377 Vechta · Germany
Phone: +49 4441 9997-0 · Web: www.gramoflor.com

