



VITRO PLUS
THE FERN FIRM
SINCE 1990

corporate information & assortment



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Microsorium musifolium Crocodyllus



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CONTRIBUTING TO A GREENER WORLD

Almost 36 years have already passed since Vitro Plus was founded. Looking back, there has never been any doubt that our specialisation in Ferns has been the only right choice, right from the very beginning. After all, Ferns are our passion.

Even so, a lot has also changed in horticulture over these three and a half decades, and we're facing a rapid succession of increasingly difficult challenges. Climate problems, energy transition and deforestation are all having a severe impact on all of us.

Fortunately, we've also noticed how passionate people are about nature, and the growing desire for a natural environment in and around the home.

The impact of this on Vitro Plus has been a significant expansion of our range. The traditional 'Boston Fern' used to reign supreme, but now there is also space for innovative Ferns, both for the home and more and more for the garden.

At Vitro Plus, we're enthusiastic about continuing to stimulate this transition in the coming years. We will continue to offer customers a broad and exciting range of beautiful Ferns for the home and garden, doing our bit for the happiness that green plants bring to our world.

We also want to contribute to a Greener World, because it's so desperately needed.

On behalf of the Management Board,

ARD, ELENITA AND JOHN

AS AN INNOVATIVE COMPANY WE TRY TO STAY AT THE FOREFRONT

JOHN BIJL

Owner & Sales Director

John Bijl founded
Vitro Plus in 1990
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ARD STOUTJESDIJK

Co-owner & Product Director

Ard has been working at
Vitro Plus since 2001
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ELENITA DAVIDSE

Managing Director Finance & HR

Elenita has been working at
Vitro Plus since 2016
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WE WANT TO BE THOUGHT OF AS THE SPECIALIST IN OUR FIELD

John Bijl

"I supervise our team and assist them when necessary. Like everyone else at Vitro Plus, they know that they can always rely on me and that I am always available. It is typical for our open informal approach to welcome questions and ideas as long as they are in the interests of our customers. In general, the plans I'm establishing for the next few years still involve focusing on ferns and developing not only our tropical indoor ferns but also our hardy outdoor ferns. These will be hardy ferns propagated from spores. After all, we are constantly noticing the demand for them. This validates our expectation that 'the fern' is experiencing a revival. For growers, this means new opportunities to earn money with our products. And we can help them by providing information and advice regarding cultivation and how to approach their market. We want to be thought of as the specialist in our field; when growers think of ferns, they should think of us, and when they think of Vitro Plus, they should think of ferns."

Ard Stoutjesdijk

"My job revolves around keeping our business processes running smoothly. Together with the close-knit team formed in recent years, we work on perfecting control of both the tissue culture process and the renewed spore sowing process. We've already achieved some impressive successes, but we're determined to go even further and continue to deliver our unequalled quality with the help of our advanced automated production systems that we develop ourselves. This enables us to maintain a consistent and efficient supply of a broad selection of products as and when they are required. Market needs are communicated to us by our marketing and sales departments and then carefully incorporated into our production process by our research team. I'm proud that I work with such a great group of people every day. They share my enthusiasm in taking on these challenges and embracing them wholeheartedly."

Elenita Davidse

"I've been working at Vitro Plus since 2016, in recent years as managing director and member of the MT, together with John and Ard. I'm responsible for the areas of finance and HRM.

As an innovative company, we try to stay at the forefront by continuously improving our production processes. We engage carefully with our customers, and move in the direction in which they want to grow. We also have to take into account all kinds of external factors, such as energy shortages, demographic trends, etc. All these developments define the point on the horizon towards which we want to head, and with which our financial policy and personnel policy have to be coordinated. We recently took a major step with the completion of a new production facility. 552 PV panels have started generating electricity at this production facility, so it won't be suffering any energy shortages. The completion of the building marks the achievement of one of our goals, and offers a solution for various developments. Balancing needs and possibilities in a financially sound way is a challenging responsibility that I really enjoy.

In addition to financial resources, all our colleagues are invaluable to us. We try to get the right people in the right place, so that everyone enjoys coming to work. It's important that people can stay with us in the long-term, as it benefits business continuity. We arrange internal training courses, among other things, to promote this employability. If somebody enjoys something and they're good at it, the work is often second nature. We also try to rotate tasks, to keep our company agile and make sure people's work has plenty of variety. However, it doesn't stop there; we encourage sports by providing an opportunity to exercise or a sports budget, and regularly organise fun activities that promote solidarity.

Just as we listen to our customers, we also listen to our colleagues as well as possible, and do what we can to respond to their needs. This also requires needs and possibilities to be balanced, which I'm happy to undertake together with other colleagues."



WE GROW OUR SPORE FERNS IN CLIMATE CELLS

QUALITY IN OUR CLIMATE CELLS

Alongside tissue culture propagation, we've also been increasingly specialising in spore propagation in recent years. This enables us to supply fern species that cannot be propagated via tissue culture.

In addition, a whole new market segment, namely perennial ferns for the garden, will become available to our customers.

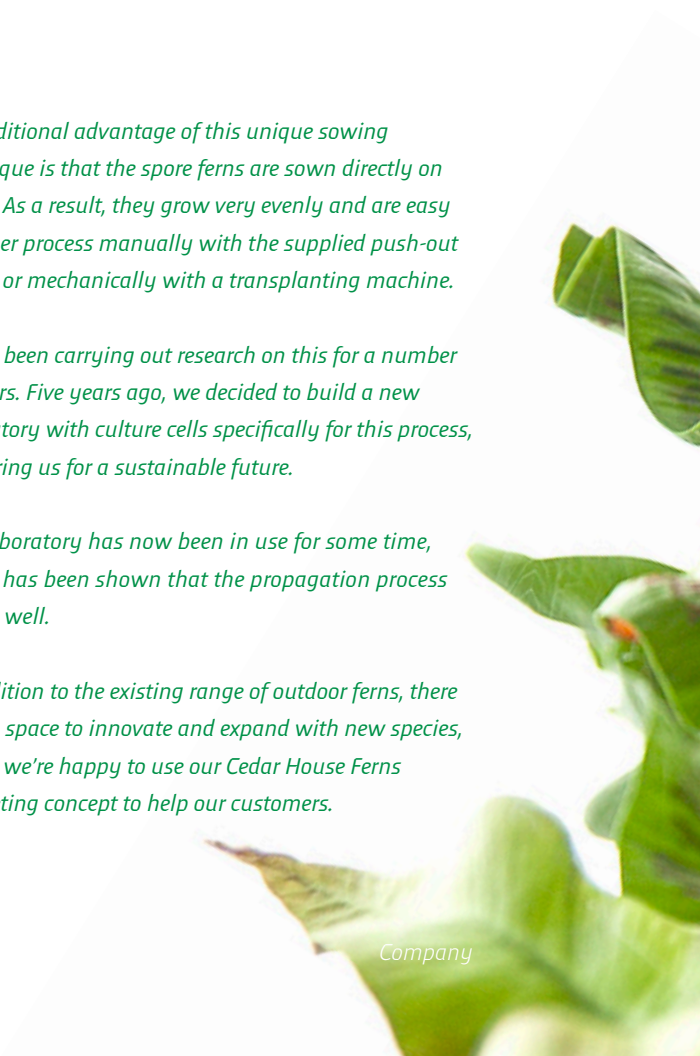
Spore ferns are traditionally grown in greenhouses, but at Vitro Plus we decided to grow them in climate cells where we can control the conditions much better than in greenhouses, and avoid the need for plant protection products. Our patented foil technology allows us to plan growing times very exactly and grow in clean conditions, which benefits quality and delivery reliability.

An additional advantage of this unique sowing technique is that the spore ferns are sown directly on plugs. As a result, they grow very evenly and are easy to either process manually with the supplied push-out plates or mechanically with a transplanting machine.

We've been carrying out research on this for a number of years. Five years ago, we decided to build a new laboratory with culture cells specifically for this process, preparing us for a sustainable future.

The laboratory has now been in use for some time, and it has been shown that the propagation process works well.

In addition to the existing range of outdoor ferns, there is also space to innovate and expand with new species, where we're happy to use our Cedar House Ferns marketing concept to help our customers.



MY ULTIMATE GOAL IS TO PROVIDE THE VITRO PLUS PRODUCTION DEPARTMENTS WITH VALUABLE ADVICE

WE HAVE CONTINUOUSLY FOCUSED ON SUSTAINABILITY AND EFFICIENCY

Marinus de Ronde

"My collaboration with Vitro Plus began in 2001.

The first step was creating space for mother plants, and soon after, we started offering liners directly from the greenhouse to customers.

Since then, we have grown to cover an area of 9,000 m².

Until about five years ago, we mainly focused on transplanting tissue culture ferns, but since 2020 we have also begun transplanting spore sown ferns from the laboratory and expanding into outdoor fern production.

With our most recent expansion, we can now cultivate these hardy ferns under cooler growing conditions, responding to the increasing demand for ferns that require less energy to produce.

Throughout our partnership, we have continuously focused on sustainability and efficiency. By using double screening, LED lighting, and insulated sandwich panels for the greenhouse walls, we have made significant progress in reducing energy consumption.

The introduction of process automation (PAT) has made our operations more efficient and transparent, giving us clearer insight into every step of production.

In addition, our substrate development has advanced to the point where we can now grow completely peat-free, marking another milestone in our commitment to sustainable cultivation."



MARINUS DE RONDE

our Greenhouse Partner

Growing together since 2001















SASKIA MOL

Plant & Research Specialist

Saskia has been working at Vitro Plus since 1998

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SELECTING THE MOST STRONG AND BEAUTIFUL TISSUE CULTURE

QUALITY AND RESEARCH TURNED OUT TO BE THE PERFECT MATCH FOR ME

Saskia Mol

“When I joined Vitro Plus 27 years ago, fresh out of Horticultural College with a specialization in Research, I started by working four days a week in Production and one day in Research.

After about a year, I became Head of the Laboratory, but I soon realized that this role wasn’t the right fit for me. Fortunately, I was then given the opportunity to focus on Quality and Research—something that turned out to be the perfect match. These are still my main responsibilities today, and I couldn’t imagine a better combination.

My research is primarily focused on determining which propagation protocol works best for a “new” fern species that we want to add to our assortment. Occasionally, I also develop protocols for third parties. In the past, I have also conducted extensive studies on substrate performance.

Alongside research, I oversee the quality of our plants from the initiation, through the multiplication stages in the laboratory.

Whenever issues arise in fern production, I’m called in to investigate what went wrong and how we can solve it. An equally important part of this role is identifying how we can prevent similar problems in the future. In addition to these core tasks, I coach colleagues and supervise interns.

Team members come to me with questions about the quality of plants. I regularly organize “cutting discussions,” during which we review each fern family and discuss exactly what to pay attention to and I also demonstrate cutting techniques when needed.

We also run various projects that are ideal for interns. Sometimes we advertise internship positions through schools, but just as often we are approached directly by students who are eager to gain experience at Vitro Plus. If we have enough plant material available and I have sufficient time for supervision, we are always happy to welcome them.”

MEETING REGULARLY KEEPS THE WHOLE TEAM ON ITS TOES AND THE QUALITY STANDARDS HIGH

OUR MISSION

As we see it, our mission is to help fern growers all over the world to make advancements in what they do and how they serve their market. We concentrate on producing the very best starting material and providing our buyers with the best possible assistance. Two of our staff members are constantly engaged in the development of strong new varieties. We would be more than happy to help you choose the varieties that would suit your situation best. We will also be pleased to help growers who are considering the production of ferns in addition to their existing crops.

OUR AMBITION

We want to be number one in products and customer assistance. You can expect a plus from our team in every regard: in personal contacts, information and advice relevant to your company, delivery method, growing instructions, and the optimum accessibility of our staff whenever you have a question. In addition to these benefits, you will be doing business with a company engaged in continuous innovation and that keeps you always up to date. This means you will regularly hear about new ferns that will inspire the next link in your distribution chain. Our goal is to introduce ten new varieties every year.



SELECTION PRODUCES FERNS THAT ARE DEEPER GREEN, STRONGER, MORE COMPACT AND FASTER GROWING

INNOVATION: A PERMANENT PRIORITY

An innovative approach has been part of our business ever since it was founded. When developing our products, we always consider both ends of the distribution chain. We keep an eye on the market and identify both the current and potential demand. We follow developments in technology and determine the innovations that would offer us and our customers opportunities. As a result of examining

the available technology, we have developed the Vitro-Plug® a practical and efficient method of growing on young plant material. At Vitro Plus, the Vitro-Plug® is used for producing ferns from spores within a sterile environment. Since then, it has become one of our unique selling points, and it has also rewarded us with various business awards and patents. At Vitro Plus, innovation never stops.

VITRO PLUS WORKS HARD TO BECOME, AND TO RETAIN ITS POSITION AS THE BEST FERN COMPANY EVER

THE CLOSEST IMITATION OF SUN LIGHT

At the beginning of this century, we initiated extensive tests using LED lighting. The emergence of LED lighting combined with multilayer cultivation was a revolutionary breakthrough that made it possible to harden off ferns which are propagated by tissue culture and spores in our laboratory. The higher light level of the LED in combination with the CO₂ enhancement inside the growth container results in a stronger, more developed and better rooted fern. The patented semi-permeable foil system makes this hardening process possible.

The result is simply a better product that can develop under ideal conditions. This growing process ensures that plants start their phase of greenhouse cultivation free of diseases. The cooperation with Bever Innovations (horticulture.beverinnovations.com) resulted in the development of mobile, flexible and plug-and-play LED grow trolleys with LED panels that match the natural properties of sunlight due to their unique design.

A RECOGNISED SPECIALIST IN OUR FIELD

Since our founding, we have devoted ourselves to the selection and propagation of tropical and hardy ferns. We began with just a few varieties, but now we supply over 150 varieties. Since changes are frequently made in this assortment, it's always interesting to have a look at our website every now and then or to send us an e-mail. After all, new varieties mean new opportunities!

Right from the start, Vitro Plus committed itself to being the best in its field. Our priority is you, as our customer, and how we can serve you the best - by giving you the right information, personalized advice and delivering the services as well as the products just as we promised. In our opinion, this is also part of being a 'specialist in our field'.

WE KEEP OUR ASSORTMENT EXCITING BY ANALYSING TRENDS AND CONTINUALLY DEVELOPING OUR PRODUCTS

THE VITRO PLUS FERN ASSORTMENT

Every year, we add new fern varieties and improved versions of existing varieties to our assortment. Sometimes, a certain variety is eliminated because interest among consumers is insufficient. With these comings and goings, our selection of products remains up to date and attractive. Our goals are to offer you, our customers, an interesting range of excellent products and also to promote ferns throughout the entire distribution chain as a natural, lush, contemporary item that belongs in every indoor or outdoor space. We would be pleased to assist you in selecting the fern varieties that would suit your specific growing conditions, market and marketing strategy.

INSPIRING EACH OTHER

What can you do with ferns? If you talk with an interior designer, a landscaping specialist or an imaginative consumer, you'll discover endless possibilities. The main reason is that ferns derive their beauty from the pure simplicity of their frond (the leaves of ferns) shapes and colours which makes them perfect for a wide range of interior styles in various living and working environments such as houses, restaurants, hotels, offices, showrooms, reception areas, conference rooms and waiting rooms. Ferns also purify indoor air, introduce a sense of tranquillity, and provide inspiration. Using a series of ferns produces an even stronger natural and decorative effect.

WE SEE CUSTOMER PREFERENCES AND MARKET TRENDS AS THE GOVERNING FACTORS IN OUR OPERATIONS

THE RICHNESS OF SIMPLICITY

Fossils show us that ferns were already populating our planet around 375 million years ago. This era, known as the Devonian, was when the first land vertebrates - the amphibians - were evolving from fish, so ferns are at least as old as them. Over time, the primeval fern developed into a family comprising thousands of species. Unlike most other plants, ferns produce no flowers. They derive their pure beauty from their innumerable intriguing frond shapes and their

many gradations of green, from tender light green to intensely deep shades. A good example of a deep green variety is our improved Boston fern 'Nevada'. This mysterious, restrained character of ferns makes them even more appealing. Moreover, ferns have been found to remove impurities from the air, which, in turn, creates a pleasant environment and increases labour productivity. Make sure that your product selection is responding to what your market demands.



A GOOD EXAMPLE OF A DEEP GREEN VARIETY WITH EXCELLENT GENETICS IS OUR BEST-SELLING FERN CALLED 'NEVADA'

SPECIFIC CHARACTERISTICS

Decades of careful selection have resulted in a rich collection of cultivars, each with its own specific characteristics in terms of plant size, frond shape, colour, compactness and keeping quality.

Vitro Plus has developed and selected specific cultivars which can tolerate the typical extremely dry conditions of a European living room. These new resistant varieties from Vitro Plus can easily withstand extreme climate conditions.

NeVada

TROPICAL AND HARDY FERNS

Roughly speaking, ferns can be grouped into tropical and hardy ferns depending on the climate zone in which they grow best. Tropical ferns have very little frost tolerance, while hardy ferns can survive through cold periods, even though the fronds of most of these varieties will die back during the winter.

COACHING AND MOTIVATING MY COLLEAGUES IS AN IMPORTANT PART OF MY WORK

EVERY DAY IS AN INTERESTING CHALLENGE

Bedette van de Zande

"As Production Manager at Vitro Plus, I oversee the organization and daily workflow within our tissue culture laboratory.

My role is to ensure that every part of the production process runs smoothly, efficiently, and to the highest quality standards. I focus on structuring our work, guiding our teams, and continuously looking for smarter and more effective ways to do things.

Since the beginning of this year, I have been supported by Maartje Stoutjesdijk, our Assistant Production Manager. She strengthens our department by managing projects that optimise existing processes and improve consistency across production.

Maartje also plays an important role in the introduction of new products, helping to drive innovation and ensuring that we continue to evolve as a leading producer of high-quality fern tissue culture.

Together, Maartje and I make sure that the entire production process is well-coordinated and future-focused, so that Vitro Plus can continue to grow and deliver excellence in plant tissue culture."



MAARTJE STOUTJESDIJK

Assistant Manager Production

Maartje has been working at Vitro Plus since 2025

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BEDETTE VAN DE ZANDE

Manager Production, Coordinator R&D

Bedette has been working at Vitro Plus since 2007

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LENNART BIJL

Project & Operations Coordinator

Lennart has been working at Vitro Plus since 2020

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MIRANDA MEERMAN

Team Leader Spore Ferns Department

Miranda has been working at Vitro Plus since 2017

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WE CONSTANTLY
CHECK QUALITY
OF EVERY TRAY
WE SOW

THE ULTIMATE GOAL IS TO ENSURE OUR CUSTOMERS RECEIVE THE BEST PRODUCTS

"As Project & Operations coordinator and Team Leader of the Spore Fern Department, we make sure that the best quality spore ferns are produced on time. We use the spores of our own mother plants in the greenhouse to produce more than 80 different varieties in our spore fern production department. To make sure every variety is as attractive as possible, we constantly check quality of every tray we sow, and make adjustments when necessary.

Each variety that we produce with the team has its own specific growth time and treatment, so we have to know our products thoroughly and what every individual species needs.

The ultimate goal of all this work is to ensure our customers receive the best products and that we continue developing as a team."

OUR CUSTOMERS ARE OUR FIRST PRIORITY

WE ADD VALUE TO THE COLLABORATION

The colleagues at the Sales department provide great knowledge, expertise and innovation for the market. Together, we don't only ensure that everything from orders to deliveries go smoothly, but we also think actively along with our customers in order to achieve our mutual goals and so add value to the cooperation.

We at the Sales Department answer all customers' questions via the Sales e-mail box (sales@vitroplus.nl). Our first priority is to provide our customers with the best possible service available.

As an additional service to our customers, we have recently created a fact sheet for each fern variety. They can be downloaded using login credentials, which can be obtained via sales@vitroplus.nl. These sheets provide answers to all your fern-related questions!

Our current Sales Team consists of some highly skilled and experienced members and recently we have welcomed some new enthusiastic colleagues to our department.

Each and every one of us is a specialist in their own field and working together in the Sales department we get real Team effort.

*You can contact us at sales@vitroplus.nl
or give us a call: [+31 111 468 088](tel:+31111468088)*



AGNES AZZAQUI

Sales

Agnes has been working at Vitro Plus since 2001

MAE HOFSTEENGE

Sales

Mae has been working at Vitro Plus since 2021

ADRIANA BOSSELAAR

Sales Administration

Adriana has been working at Vitro Plus since 2024

ROMY VAN OORSCHOT

Sales

Romy has been working at Vitro Plus since 2019

MACHIEL MATHIJSSSEN

Supervisor Sales Department

Machiel has been working at Vitro Plus since 2021

VINCENT VAN VUUREN

Sales Manager

Vincent has been working at Vitro Plus since 2019

STELLA VAN KLINKEN

Sales

Stella has been working at Vitro Plus since 2025

ELLEN KRAAIJENBRINK

Sales & Marketing

Ellen has been working at Vitro Plus since 2001

WE WANT TO
SHARE OUR
PASSION
WITH YOU

WE PUT IN A GREAT EFFORT TO RENEW AND EXPAND OUR TROPICAL AND PERENNIAL FERN ASSORTMENT

Vincent van Vuuren

"As sales manager for Vitro Plus it's my responsibility to oversee and coordinate the sales activities of Vitro Plus, making sure our customers are always our team's top priority. I visit our customers on a regular basis and intend to act as a bridge between our customers and our sales team who are all assigned to their own group of customers and together we try to give the best help and support for all inquiries and programs.

In a dynamic market landscape, we are committed to ensuring that Vitro Plus remains attuned to your needs and the demands of your market. Together with our marketing team and our customers we put in a great effort to renew and expand our tropical- and perennial

fern assortment. The biggest compliment Vitro Plus receives is being seen as the 'Fern Firm,' serving as the complete source for ferns, including tropical and perennial fern varieties, supplied as starting material or liners (EU), uniform and with a high quality standard. Although ferns are ancient plants and have been around for millions of years, we discover there is still so much to learn and explore. With thousands of varieties out there, ferns continue to amaze us every day, and we hope to share that passion and interest with you!

Vitro Plus looks forward to the opportunity to meet you and talk about the possibilities it may have for your business. Let's (grow) ferns together! "

Innovation is part of our DNA, it's in our blood

more about our growing team

VINCENT VAN VUUREN

Sales Manager

Vincent has been working at Vitro Plus since 2019

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ELLEN KRAAIJENBRINK

Sales & Marketing

Ellen has been working at Vitro Plus since 2001

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HELEEN POMPE

Crop Specialist & Researcher

Heleen has been working at Vitro Plus since 1991

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I SUPPORT CHANGES THAT ARE IMPROVEMENTS

GOOD SALEABLE PRODUCTS

Heleen Pompe

"My work consists of managing our own motherstock. I'm also responsible for the parent material that is given to my colleagues by customers or offered to us by plant hunters. These plants are introduced to our lab to see if they would be suitable for propagation. Here, it's a question of close observation and testing for stability and the quality of the progeny. My work involves the transition of the plant as we receive it to how it responds to the situation in the lab. We test them for stability, whether they will be suitable for the customer's growing system, and whether they will make a useful addition to the customer's assortment. This means that their preferences and opinions are important to us. Like the other departments, our people in Research & Development have a real team spirit. We help each other, talk things over, and do things together. It gives us a sense of satisfaction when a plant can be successfully propagated and then sells well. That's good for the grower and the market as well."





DELIVERY AND TRANSPLANTING

IN OPTIMAL CONDITION

Besides continually expanding our fern assortment we are constantly improving growth conditions in order to deliver plants that are healthy and free of disease. In our laboratory and greenhouse, we are dedicated to managing the clump and the young plants in terms of their size. Also important are managing their growing medium and the cell size of the tray in which they are delivered.

JUST RIGHT FOR YOUR GROWING PROCESS

Our patented methods and Vitro-Trays® are available in several versions and are constantly being improved - and your experiences and inputs are valuable in this process. We supply our ferns in a tray suitable for your growing process. These trays have standard outer dimensions but vary in their number of holes depending on the size of the plants. Trays with 126 and 96 holes are available for pre-transplanted plants, and trays with 104 and 84 holes are available for transplanted plants. The trays are suitable for manual or automated transplanting, depending on your company's situation.

Our Vitro-Trays® with micro-perforated film enable the young ferns to easily withstand a long journey and even to remain in optimal condition when not processed immediately upon arrival.

WHICH TRAYS ARE RIGHT FOR YOU?

VITRO-TRAY® 126

This is the smallest and most sold tray size of our Vitro Tray®. It is very suitable for weaning to tray sizes, such as a 104- and 84-hole trays.

This tray is compact, which makes it economical due to the low transport costs. It is the most efficient tray in our range.

VITRO-TRAY® 96

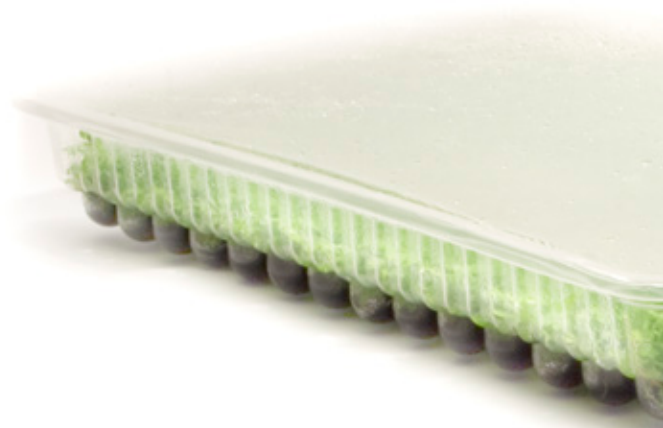
This is the slightly larger size in our series of the 96-126 Vitro Tray®. The larger cell contains more nutrition, and the plant is slightly larger, a bit stronger. Optionally, a 96-hole fern can be transplanted directly into a smaller pot (up to 7 cm.). Very suitable to transplant to larger plug sizes.

VITRO-PLUG @ 336

Perfect for transplanting to larger tray sizes (84 hole trays) or small pot sizes (6 - 9 cm / 2.4 - 3.5 inches). We produce ferns out of spores on this tray size - we sow on demand.

VITRO-PLUG @ 252

Perfect for transplanting to smaller pot sizes (6-9 cm pots) We produce ferns out of spores on this tray sizes - only on demand. Also used for ready to use Asplenium ferns - only on demand.



TRANSPLANTED 104-HOLE TRAY

Our 104-hole tray is noted for encouraging good root formation since it can be filled with paper-pot plugs.

TRANSPLANTED 84-HOLE TRAY

Our 84-hole tray is known for its good root formation. This delivery method is delivered loose filled and is suitable for pot sizes 12, 14 and 17 cm.

SELECTION ADVICE

For more information and advice about the tray that is best for your growing process, you can visit www.vitroplus.nl, send an e-mail to sales@vitroplus.nl, or call your dedicated contact at [+31 \(0\) 111 468 088](tel:+3120111468088).


For additional information and the legal disclaimer, please refer to our website. www.vitroplus.nl/disclaimer
This disclaimer also applies to these guidelines.




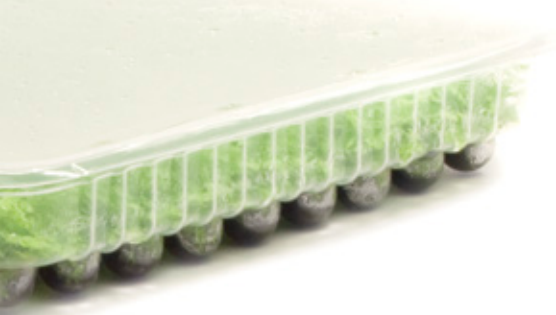
Delivery & transplanting




VITRO-PLUG® 252


 29 x 38,5 x 6,7 centimeter
11.42 x 15.16 x 2.64 inches

 1,7 x 1,7 x 2,7 centimeter
0.67 x 0.67 x 1.07 inches




VITRO-TRAY® 126


 29,5 x 19 x 4 centimeter
11.61 x 7.48 x 1.57 inches

 1,4 x 1,4 x 1,2 centimeter
0.55 x 0.55 x 0.62 inches





VITRO-TRAY® 96

 29,5 x 18,5 x 6,6 centimeter
11.61 x 7.28 x 2.6 inches

 1,8 x 1,8 x 1,8 centimeter
0.71 x 0.71 x 0.71 inches

VITRO-PLUG® 336

 29 x 38,5 x 6,7 centimeter
11.42 x 15.16 x 2.64 inches

 0,8 x 1,3 x 2,8 centimeter
0.31 x 0.51 x 1.10 inches



READY TO USE

You can get started as soon as you receive your Vitro-Trays®.
Follow these instructions:

HOW TO GROW IN FERN LINERS

1. Use new or cleaned trays.
2. Use a light peat mix (one containing Canadian peat, for example) or a light peat free mix.
3. Water the medium in the trays thoroughly before use; peat needs a certain number of hours to drench.
4. Don't plant the clumps too deeply.
5. Don't leave the trays uncovered for more than 10 minutes.
6. Cover the trays with a fleece cloth directly over the plants for the first two weeks, or with a thicker cheesecloth with 30 to 60 cm. of space above the trays. Alternatives to cheesecloth are plastic domes of clear plastic material. Another alternative would be to use a fog system, but do not use a heavy mist during the first 2 weeks.
7. Maintain high humidity (an RH of around 95%).
8. No additional feeding during the first 2 weeks.
9. After 2 weeks, move trays to an area with more light (partial shade), reduce humidity to 80% if possible, and start watering every day or every other day, preferably from below.
10. When fertilising from above, always rinse the plants with clear water.
11. Water early in the morning.
12. Depending on the variety, the cultivation period for ferns in a 72 hole liner is 8 to 10 weeks.



THE BIRTH OF CEDAR HOUSE FERNS

When I started Vitro Plus 35 years ago, I only knew one type of Fern: the *Nephrolepis Bostoniensis*.

At first, I was fascinated by the process of micro-propagation-tissue culture-and thanks to the invention of the Vitro-Tray and our automation in tissue culture, this is still a solid foundation for Vitro Plus today. But over time, other Fern species crossed my path, and my interest in Ferns began to grow.

In England, I visited Kew Gardens with its unique fern collections, where the original genes of thousands of fern species are preserved. In the hills of South Wales, I visited Fern nurseries with colleagues where it felt as if time had stood still.

England is also the country where, between 1850 and 1900, the famous Fern Craze raged. A large part of the population was obsessed with Ferns and collected every possible variety from around the world. Homes were decorated with Fern-patterned wallpaper, and people even ate from plates painted with Fern motifs. This mania took on extreme forms, especially after the belief spread that one could become invisible by finding "Fern seed." Thieves went out to collect Fern spores, and the forests around London were plundered.

Of course, today we know very different kinds of manias, but this story captured my imagination and inspired me to collect, with the help of friendly Fern hunters (who still exist!), previously unknown Fern species from around the world.

By now, our Cedar House Ferns garden has become a place where people come together. We welcome everyone with an interest in Ferns and share the story of the Fern Craze. Unique species of garden Ferns can be admired, and these are propagated in our laboratory through tissue culture or spores.

The newest varieties are sold at special plant fairs, and in this way, we continue to gain more fern friends who join us. Our Cedar House Ferns garden Ferns are also available in various garden centers.

A young filmmaker is making a documentary about the creation of the garden that we will share with you as soon as it is ready. There is also a Cedar House Ferns website www.cedarhouseferns.com

With the birth of Cedar House Ferns, we hope to spark a new Fern Craze, bringing Ferns back into the spotlight as they once were in Victorian times. But beware, when collecting fern spores, you now know what might happen!



Scan to view the frontyard



Scan to view the backyard



Scan to view cedarhouseferns website



ECOPOTS
Leverings- en verzendkosten
Levenslang garantie
Gerecycled materiaal
Vorstbestendig
Volledig recyclebaar



TROPICAL FERNS

Tropical ferns are ideal for indoor use and can also be used outdoors as the climate permits. Nephrolepis is by far the best-known genus and is available in dozens of varieties. Careful selection has resulted in a rich collection of cultivars, each being different to the other in terms of frond size, shape, and colour; compactness and sturdiness. We would be pleased to provide you with more details. In Europe, tropical ferns are usually used as table ferns. In the U.S., more of them are used in hanging baskets.

FAVOURITE FERNS FROM VITRO PLUS

Our patented 'Nevada' is a real winner in the U.S.; the following characteristics of this fern have practically eliminated the use of the traditionally popular Boston Fern:

1. Scarcely any leaf loss.
2. Excellent transport.
3. Shelf life qualities.
4. More plants can be produced within a certain surface area.
5. Deeper green colour.
6. No cleaning required during harvest.

Another star is our patented 'Ariane'. This fern displays the same characteristics as 'Nevada', but has slightly curled pinnate leaflets and an upright habit very similar to 'Emerald Queen', which is still the most commonly purchased fern for tropical landscaping. This makes 'Ariane' a good addition. This fern can also be used for landscaping since it can easily tolerate bright sunlight. At lower light levels, it becomes less upright which even makes the plant suitable for hanging baskets.

For smaller pot sizes (up to 14 cm / 5.5 inches), 'Montana' is the best choice, particularly due to its easy care. This fern also has an upright habit. 'Fluffy Ruffles' is also a strong fern perfect for 10 to 12 cm / 3.9 to 4.7 inches pots, with a good shelf life. 'Green Moment' is a completely new variety; we advise to test different pot sizes in the range of 11 to 15 cm / 4.3 to 5.9 inches. The habit and colour of this fern is a mixture of our old friends 'Blue Bell' and 'Nevada'. In addition to the Nephrolepis cultivars, other groups are gaining popularity since they are so unlike the sword ferns. Consumers are really attracted to their interesting details. Asplenium varieties, especially 'Crispy Wave' and 'Crissie' with their unusual forked and undulating fronds, are extremely popular. Ferns with unusual colours such as 'Blue Star' also attract buyers.



NEW

AVAILABLE ON REQUEST

TASSELS MAIDENHAIR FERN

Adiantum capillus-veneris



BRONZE VENUS MAIDENHAIR FERN

Adiantum hispidulum 'Bronze Venus'









FRAGRANS MAIDENHAIR FERN
Adiantum raddianum 'Fragrans'
  8  



FRITZ LUTHII MAIDENHAIR FERN
Adiantum raddianum 'Fritz Luthii'
  8  







**DELTA MAIDENHAIR FERN
 'MISTY CLOUD'**
Adiantum raddianum 'Ultragracillimum'
  8  






**BRITTLE MAIDENHAIR FERN /
 FAN MAIDENHAIR FERN**
Adiantum tenerum 'Peacock'
  10 



PINK MAIDENHAIR FERN
Adiantum tenerum 'Scutum Roseum'
  9-11  



FLOWERING FERN
Anemia mexicana
  8 



DELIVERY METHODE  VITRO-TRAY®  VITRO-PLUG®  CUT FOLIAGE  TUB  HARDINESS ZONE
 USAGE  TABLE FERN  LANDSCAPE  HANGING BASKET



EAST INDIAN HOLLY FERN

Arachniodes simplicior

🌿 ✂️ 🗨️ 7-9 🏠 🌱



BIRD'S-NEST FERN

Asplenium antiquum

🌿 🗨️ 10-11 🏠 🌱



CRESTED JAPANESE BIRD'S-NEST FERN

Asplenium antiquum 'Crissie'

🌿 🗨️ 10-11 🏠 🌱



TWISTED BIRD'S-NEST FERN

EU48593 / US28746

Asplenium antiquum 'Hurricane'

🌿 🗨️ 10-11 🏠 🌱



CRESTED JAPANESE BIRD'S-NEST FERN

Asplenium antiquum 'Leslie'

🌿 🗨️ 10-11 🏠 🌱



NEW

AVAILABLE ON REQUEST

GIOIA® JAPANESE BIRD'S-NEST FERN

Asplenium antiquum 'Yuaspgio' Gioia®

🌿 🗨️ 10-11 🏠 🌱



DELIVERY METHODE VITRO-TRAY® VITRO-PLUG® CUT FOLIAGE TUB HARDINESS ZONE
USAGE TABLE FERN LANDSCAPE HANGING BASKET



JAPANESE BIRD'S-NEST FERN
Asplenium antiquum 'Victoria'

☀️ 🗿 🗿 10-11 🗿 🗿



MOTHER FERN

Asplenium difforme x dimorphum 'Parvati'

☀️ 🗿 10-11 🗿 🗿



BIRD'S-NEST FERN

Asplenium nidus 'Avis'

☀️ 🗿 10-11 🗿 🗿



CHAMPION'S BIRD'S-NEST FERN

EU52569 / US30949

Asplenium nidus 'Campio'

☀️ 🗿 10-11 🗿 🗿



AVAILABLE ON REQUEST

PLEATED JAPANESE BIRD'S-NEST FERN

EU23704 / US20949

Asplenium nidus 'Crispy Wave'

☀️ 🗿 10-11 🗿 🗿



DWARF BRAZILIAN TREE FERN

Blechnum brasiliense 'Volcano'

☀️ 🗿 8-9 🗿





'SILVER LADY®'
Blechnum gibbum
🌿 🗂️ 10-11 🌿 🌱



HARDY HOLLY FERN
Cyrtomium fortunei 'Clivicola'
🌿 ✂️ 🗂️ 5 🌿 🌱



AVAILABLE ON REQUEST
AUSTRALIAN TREE FERN
Cyathea cooperi
🌿 🗂️ 9 🌿 🌱



HARE'S FOOT FERN
Davallia denticulata
🌿 🗂️ 12 🌿 🌱



RABBIT FOOT FERN
Davallia fejeensis
🌿 🗂️ 10-12 🌿 🌱 🌿



WHITE RABBIT FOOT FERN
Davallia tyermannii /
Humata tyermannii
🌿 🗂️ 9-11 🌿 🌱 🌿



DELIVERY METHODE VITRO-TRAY® VITRO-PLUG® CUT FOLIAGE TUB HARDINESS ZONE
USAGE TABLE FERN LANDSCAPE HANGING BASKET



AVAILABLE ON REQUEST

**SOFT TREE FERN /
TASMANIAN TREE FERN**

Dicksonia antarctica

🌿 8-10 🌿 🌱



AVAILABLE ON REQUEST

RUBY RASP FERN

Doodia aspera 'Rough Ruby'

🌿 9 🌿 🌱



ANTENNA FERN

Doryopteris Pilosa var. *Gemmifera*

🌿 10-11 🌿



HEART FERN

Hemionitis arifolia

🌿 10-11 🌿



AVAILABLE ON REQUEST

CREeping SHIELD FERN

Lastreopsis microsora

🌿 ✂️ 🌿 8 🌱



PALAPALAI FERN / LACE FERN

Microlepia strigosa

🌿 9-11 🌿 🌱





KANGAROO FERN
Microsorium diversifolium
 🪴 🗨️ 10-11 🪴 🌱 🌿



'CROCODYLLUS' EU16160 / US13653
Microsorium musifolium
 🪴 🗨️ ✂️ 🗨️ 10-11 🪴 🌱 🌿



'GREEN FLAME' US17420
Microsorium punctatum
 🪴 ✂️ 🗨️ 10-11 🪴 🌱 🌿



'LAUA'E IKI' US11230
Microsorium scolopendrium
 🪴 🗨️ 10-11 🪴 🌱 🌿



'MACHO'
Nephrolepis biserrata
 🪴 🗨️ 10-11 🪴 🌱 🌿



'DUFFII'
Nephrolepis cordifolia
 🪴 🗨️ 10-12 🪴



DELIVERY METHODE
 USAGE
 VITRO-TRAY®
 TABLE FERN
 VITRO-PLUG®
 CUT FOLIAGE
 TUB
 VITRO-TRAY®
 LANDSCAPE
 HANGING BASKET
 HARDINESS ZONE



'KUPUKUPU'
Nephrolepis cordifolia
🌿 🗂️ 10-12 🌱



'SWORD FERN'
Nephrolepis cordifolia
🌿 ✂️ 🗂️ 10-12 🌱 🌿



'ARIANE' EU28748 / US21218
Nephrolepis exaltata
🌿 ✂️ 🗂️ 9-11 🌱 🌿



'BLONDE'
Nephrolepis exaltata
🌿 🗂️ 9-11 🌱 🌿



'BOSTON BLUE BELL'
Nephrolepis exaltata
🌿 🗂️ 9-11 🌱 🌿



'BOSTON COMPACTA'
Nephrolepis exaltata
🌿 🗂️ 9-11 🌱 🌿





'BOSTON FERN'
Nephrolepis exaltata
🌿 🗨️ 9-11 🌧️



'CORDITAS'
Nephrolepis exaltata
🌿 🗨️ 9-11 🪴 🌧️



'COTTON CANDY'
Nephrolepis exaltata
🌿 🗨️ 9-11 🪴 🌧️



'EMINA®'
Nephrolepis exaltata
🌿 🗨️ 9-11 🪴



'FLUFFY RUFFLES'
NEPHROLEPIS EXALTATA
🌿 🗨️ 9-11 🪴 🌧️



'GREEN MOMENT'
EU41743 / US25311
Nephrolepis exaltata
🌿 🗨️ 9-11 🪴 🌧️



DELIVERY METHODE VITRO-TRAY® VITRO-PLUG® CUT FOLIAGE TUB HARDINESS ZONE
USAGE TABLE FERN LANDSCAPE HANGING BASKET



'MONTANA'
Nephrolepis exaltata
🌿 🗨️ 9-11 🌿 🌱



'MURANO'
Nephrolepis exaltata
🌿 🗨️ 9-11 🌿 🌱



NeVada



'NEVADA' EU14208 / US14190
Nephrolepis exaltata
🌿 🗨️ 9-11 🌿 🌱



'PETTICOAT'
Nephrolepis exaltata
🌿 🗨️ 9-11 🌿 🌱



'POM POM'
Nephrolepis exaltata
🌿 🗨️ 9-11 🌿 🌱



'TIGER' US15315
Nephrolepis exaltata
🌿 🗨️ 9-11 🌿 🌱





'FISHTAIL'
Nephrolepis falcata 'Furcans'
🌿 🗨️ 9-12 🌱 🌿



'EMERALD QUEEN'
Nephrolepis obliterata
🌿 ✂️ 🗨️ 9-11 🌱 🌿



'SHIVA'
Nephrolepis obliterata
🌿 🗨️ 9-11 🌱 🌿



'SUNJEST JESTERS CROWN' US16531
Nephrolepis obliterata
🌿 🗨️ 9-11 🌱 🌿



HEART-LEAVED CLIFF BRAKE FERN
Pellaea cordifolia
🌿 🗨️ 8-11 🌱 🌿



AUSTRALIAN CLIFF BRAKE FERN
Pellaea falcata
🌿 🗨️ 8 🌱 🌿



AVAILABLE ON REQUEST

DELIVERY METHODE VITRO-TRAY® VITRO-PLUG® CUT FOLIAGE TUB HARDINESS ZONE
USAGE TABLE FERN LANDSCAPE HANGING BASKET



AVAILABLE ON REQUEST

BUTTON FERN

Pellaea rotundifolia

🌿 9-11 🌿



BLUE STAR

Phlebodium aureum 'Mandaianum'

🌿 ✂️ 9-12 🌿



EXCLUSIVE AVAILABILITY

BLUE STAR 'DAVANA'

EU59033 / US32332

Phlebodium aureum 'Mandaianum'

🌿 ✂️ 9-12 🌿



NICOLAS DIAMOND

EU55554 / US30873

x*Phlebodia*

🌿 10-12 🌿



STAGHORN FERN

Platycerium bifurcatum 'Netherlands'

🌿 9-13 🌿



AVAILABLE ON REQUEST

CATERPILLAR FERN

Polypodium formosanum

🌿 9-11 🌿





UPRIGHT SHIELD FERN
Polystichum biaristatum
 🌿 5 🌿



KOREAN ROCK FERN
Polystichum tsus-simense
 🌿 5 🌿



SILVER BRAKE FERN
Pteris argyraea
 🌿 6-10 🌿



**MOONLIGHT FERN /
 CRETAN BRAKE FERN**
Pteris cretica 'Mayii'
 🌿 10-12 🌿



CRETAN BRAKE FERN
Pteris cretica 'Rowerii'
 🌿 10-12 🌿



SILVER LACE FERN
Pteris ensiformis 'Evergemiensis'
 🌿 9-11 🌿



DELIVERY METHODE
 VITRO-TRAY®
 VITRO-PLUG®
 CUT FOLIAGE
 HANGING BASKET
 TABLE FERN
 LANDSCAPE
 TUB
 HARDINESS ZONE



NEW

AVAILABLE ON REQUEST

SWORD BRAKE EVERGREEN FERN

Pteris ensiformis 'Evergreen'

🌿 10-11 🪴



AVAILABLE ON REQUEST

SILVER RIBBON FERN

Pteris nipponica / *Pteris albolineata*

🌿 8 🪴



**PAINTED BRAKE FERN /
THREE-COLORED BRAKE FERN**

Pteris quadriaurita

🌿 10-11 🪴



AUSTRALIAN JUNGLE BRAKE FERN

Pteris umbrosa

🌿 8 🪴



**LADDER BRAKE FERN /
CHINESE BRAKE FERN /
RUSTY BRAKE FERN**

Pteris vittata

🌿 8-11 🪴 🌱



LEATHERLEAF FERN

Rumohra adiantiformis

🌿 8-11 🪴 🌱



HARDY FERNS

In nature, ferns are denizens of woods and forests. They thrive on moist soil that is rich in humus and prefer a spot in shade or dappled shade. Nevertheless, as long as they are not allowed to dry out, most varieties will tolerate direct sun. Communicating clearly with buyers at the points of sale and via labels is essential for the success of this product.

GOOD COLD STRESS TOLERANCE

Fully hardy ferns (sometimes also called perennial ferns) are generally resistant to cold and can enliven a garden, patio, or living room for many years. 'Fully hardy', however, should not be mistaken as being synonymous with evergreen! Although this is the case with some varieties, the fronds of many fully hardy outdoor ferns will die back in autumn and winter. This is also the beauty of ferns; next spring, they will release vigorous new shoots again which slowly unfurl from the heart of the plant to become magnificent long fronds. Communicating these important details with the customer is an important element in the success of this product.

MARKETING STRATEGY

Most hardy ferns are sold in the spring, and, to a lesser degree, in the autumn. Because hardy ferns are used in gardens and landscaping projects, this makes them - unlike tropical ferns - a real seasonal product. The planting location and the phenomenon of autumn and winter dormancy must be clearly communicated to consumers by such means as labels on pots and plants. To encourage consumer purchases, the assortment has to consist of at least ten highly contrasting varieties that make a striking visual group display which invites selection and eventually purchase.

FAVOURITE HARDY FERNS

Most garden ferns are members of the *Dryopteris* (wood ferns) and *Polystichum* (holly ferns) families. Not everyone can easily tell the difference between these genera, but the fronds of holly ferns generally look somewhat more substantial.

DRYOPTERIS

One valuable member of the genus *Dryopteris* is *Dryopteris erythrosora* (Autumn Fern). This species has fronds of a striking orange-red color, especially in spring when the male ferns unfurl what look like the tentacles of a science-fiction monster. *Dryopteris atrata* has large deep green fronds that resemble the trunk of an elephant as they unfurl. Although its common English name is the Black Wood Fern or Shaggy Wood Fern, its Dutch name could be translated as 'Elephant Fern'. *Dryopteris remota* is a valuable plant and easy to grow. It emerges again every spring and is often more drought-tolerant than many other garden plants.

POLYSTICHUMS

The common name for *Polystichum acrostichoides* is the Christmas Fern because it looks so attractive at that time of year. *Polystichum tsus-simense* has many uses. Although this little plant was intended for indoors, it proved to be so hardy that it makes an excellent garden plant. Its fronds also make good foliage to use in bouquets and other floral arrangements. The smaller dimensions of *Polystichum rigens* make it a good choice for small urban gardens.

CYRTOMIUMS

Cyrtomium varieties are still less familiar garden ferns. They are characterised (as their common name, Holly Fern, suggests) by simple leathery leaflets with serrated edges. When planted in a somewhat sheltered location, *Cyrtomium falcatum* 'Rochfordianum' is practically hardy. With its attractive dark green fronds, it provides your garden with a beautiful diversity. These fronds also make it suitable for use in floristry. *Cyrtomium fortunei* 'Clivicola' is extremely hardy and has lighter, less glossy fronds.

CHEILANTHES

Cheilanthes lanosa is a unique species: a nice small fern with a grey woolly surface on the undersides of its fronds. A perfect plant for a rocky location in the sun. Once its roots have found a cool spot deep in the soil, it will survive dry hot summers.



NEW

AVAILABLE ON REQUEST

TASSELS MAIDENHAIR FERN

Adiantum capillus-veneris

  8 



BRONZE VENUS MAIDENHAIR FERN

Adiantum hispidulum 'Bronze Venus'

  7 



ROSY MAIDENHAIR FERN

Adiantum hispidulum 'Rosy'

  7 



AVAILABLE ON REQUEST

AMERICAN MAIDENHAIR FERN

Adiantum pedatum

  3  



FLOWERING FERN

Anemia mexicana

  8 



AVAILABLE ON REQUEST

MERLOT LADY FERN / TWO-TIERED LADY FERN

Anisocampium sheareri

  7 





LIMITED AVAILABILITY

SHADES OF GREY FERN

Arachniodes Cavalerii

🌿 🌿 5 🌿



AVAILABLE ON REQUEST

BROAD HOLLY FERN

Arachniodes miqueliana

🌿 🌿 5 🌿



EAST INDIAN HOLLY FERN

Arachniodes simplicior

🌿 🌿 7 🌿



HART'S TONGUE FERN

Asplenium scolopendrium

🌿 🌿 4 🌿



NARROW HART'S TONGUE FERN

Asplenium scolopendrium

'*Angustifolium*'

🌿 🌿 4 🌿



AVAILABLE ON REQUEST

LADY FERN

Athyrium filix-femina

🌿 🌿 4 🌿



LEGENDA VITRO-PLUG® CUT FOLIAGE HARDINESS ZONE EVERGREEN DECIDUOUS NORTH AMERICAN NATIVE FERN



CRESTED LADY FERN
 Athyrium filix-femina
 'Vernoniaea Cristatum'
 🌿 4 🍃



DAINTY LADY FERN
 Athyrium minimum
 🌿 6 🍃



CRESTES JAPANESE PAINTED FERN
 Athyrium niponicum 'Applecourt'
 🌿 5 🍃



JAPANESE PAINTED FERN
 Athyrium niponicum 'Pictum'
 🌿 3 🍃



EARED LADY FERN
 Athyrium otophorum 'Okatum'
 🌿 6 🍃



WHORLED HARD FERN
 Blechnum appendiculatum
 🌿 8 🍃





AVAILABLE ON REQUEST

DEER FERN
Blechnum spicant



HAIRY LIP FERN
Cheilanthes lanosa



AVAILABLE ON REQUEST

AUSTRALIAN TREE FERN
Cyathea cooperi



DWARF HOLLY FERN
Cyrtomium caryotideum



SICK LEAVED HOLLY FERN
Cyrtomium devexiscapulae



JAPANESE HOLLY FERN
Cyrtomium falcatum 'Rochfordianum'
COLD DEPENDANT



LEGENDA VITRO-PLUG® CUT FOLIAGE HARDINESS ZONE EVERGREEN DECIDUOUS NORTH AMERICAN NATIVE FERN



HARDY HOLLY FERN
Cyrtomium fortunei 'Clivicola'
 🌿 🌿 5 🌿



AVAILABLE ON REQUEST
**SOFT TREE FERN /
 TASMANIAN TREE FERN**
Dicksonia antarctica
 🌿 🌿 8 🌿



AVAILABLE ON REQUEST
RUBY RASP FERN
Doodia aspera 'Rough Ruby'
 🌿 🌿 9 🌿



GOLDEN SCALED MALE FERN
Dryopteris affinis
 🌿 🌿 4 🌿



**CRESTED GOLDEN
 SCALED MALE FERN**
Dryopteris affinis 'Cristata the King'
 🌿 🌿 4 🌿



SHAGGY SHIELD FERN
Dryopteris atrata / *Dryopteris cycadina*
 🌿 🌿 6 🌿 COLD DEPENDANT





CHAMPION'S WOOD FERN

Dryopteris championii

🌿 5 🌿



CURLY DWARF MALE FERN

Dryopteris dickinsii 'Crispa'

🌿 4 🌿



AUTUMN FERN

Dryopteris erythrosora

🌿 5 🌿



COMPACT AUTUMN FERN

Dryopteris erythrosora 'Compact'

🌿 5 🌿



KOIDSUMA'S WOOD FERN

Dryopteris erythrosora var. *Koidzumiana*

🌿 7 🌿



MALE FERN

Dryopteris filix-mas

🌿 4 🌿



LEGENDA 🌿 VITRO-PLUG® 🌿 CUT FOLIAGE 🌿 HARDINESS ZONE 🌿 EVERGREEN 🌿 DECIDUOUS 🇺🇸 NORTH AMERICAN NATIVE FERN



BARNE'S MALE FERN
Dryopteris filix-mas 'Barnesii'
🌿 4 🇺🇸



FORMOSAN WOOD FERN
Dryopteris formosana
🌿 6 🇺🇸



GIANT WOOD FERN
Dryopteris goldiana
🌿 3 🇺🇸



KURATA'S FERN
Dryopteris kuratae /
Dryopteris pycnopteroides
🌿 6 🇺🇸



SUNSET FERN
Dryopteris lepidopoda
🌿 5 🇺🇸



MEXICAN MALE FERN
Dryopteris pseudofilix-mas
🌿 5 🇺🇸





REMOTE WOOD FERN

Dryopteris remota

🌿 4 🌿



KOREAN MOUNTAIN FERN

Dryopteris sichotensis

🌿 5 🌿



**JAPANESE WOOD FERN /
SIEBOLD'S WOOD FERN**

Dryopteris sieboldii

🌿 6 🌿



STEWART'S HIMALAYAN WOOD FERN

Dryopteris stewartii

🌿 6 🌿



EXCLUSIVE AVAILABILITY

JURASSIC WALLICH'S WOOD FERN

EU64920 / US32735

Dryopteris wallichiana 'Jurassic Gold'

🌿 5 🌿



AVAILABLE ON REQUEST

CREeping SHIELD FERN

Lastreopsis microsora

🌿 8 🌿



LEGENDA VITRO-PLUG® CUT FOLIAGE HARDINESS ZONE EVERGREEN DECIDUOUS NORTH AMERICAN NATIVE FERN



NEW

AVAILABLE ON REQUEST

OSTRICH FERN
Matteucia struthiopteris
🌿 7 🌿



HEART-LEAVED CLIFF BREAK FERN
Pellaea cordifolia
🌿 8 🌿



AVAILABLE ON REQUEST

AUSTRALIAN CLIFF BRAKE FERN
Pellaea falcata
🌿 8 🌿



AVAILABLE ON REQUEST

BUTTON FERN
Pellaea rotundifolia
🌿 9-11 🌿



**WINGED BEECH FERN /
JAPANESE BEECH FERN**
Phegopteris decursive-pinnata
🌿 4 🌿



COMMON POLYPODIUM FERN
Polypodium vulgare
🌿 4 🌿





CHRISTMAS FERN
Polystichum acrostichoides
 🌿 4 🇺🇸



UPRIGHT SHIELD FERN
Polystichum biaristatum
 🌿 5



WESTERN SWORD FERN
Polystichum munitum
 🌿 6 🇺🇸



**ASIAN SABER FERN /
 LONG EARED HOLLY FERN**
Polystichum neolobatum
 🌿 5



TASSEL OR BRISTLE FERN
Polystichum polyblepharum
 🌿 5



RIGID OR PRICKLY HOLLY FERN
Polystichum rigens
 🌿 5



LEGENDA 🌿 VITRO-PLUG® 🌿 CUT FOLIAGE 🌿 HARDINESS ZONE 🌿 EVERGREEN 🌿 DECIDUOUS 🇺🇸 NORTH AMERICAN NATIVE FERN



SOFT SHIELD FERN

Polystichum setiferum 'Dahlem'

🌿 6 🌿



KOREAN ROCK FERN

Polystichum tsus-simense

🌿 5 🌿



YUNNAN HOLLY FERN

Polystichum yunnanense

🌿 5 🌿



SILVER BRAKE FERN

Pteris argyrea

🌿 6-10 🌿



SILVER RIBBON FERN

Pteris nipponica / *Pteris albolineata*

🌿 8 🌿



AUSTRALIAN JUNGLE BRAKE FERN

Pteris umbrosa

🌿 8 🌿





**LADDER BRAKE / CHINESE BRAKE /
RUSTY BRAKE FERN**

Pteris vittata



**WIDESPREAD MAIDEN FERN /
SOUTHERN WOOD FERN**

Thelypteris kunthii



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A peek behind the curtain

For a peek behind the curtain of Vitro Plus, look us up at Facebook, LinkedIn and Instagram. We share pictures and news facts at least twice a week!

@VITROPLUSB.V.



FOR EVERY LUSTRUM, WE PLAN A JOURNEY!

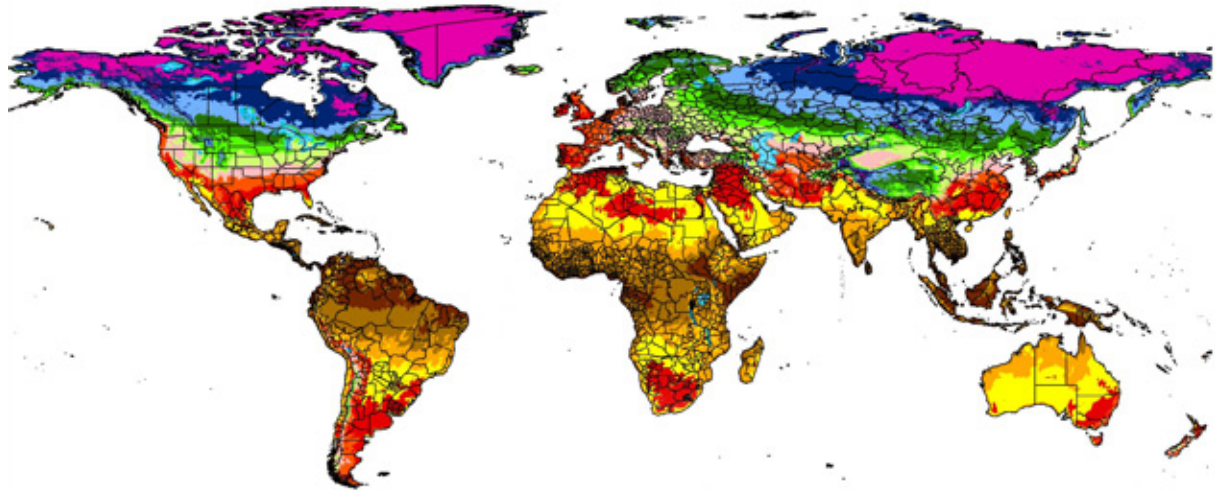
TO THE BEAUTIFUL ARDENNES!

At the moment Vitro Plus has about 80 employees in service and almost everybody is member of our staff association. The board of this association consists out of persons who represents all divisions of Vitro Plus and they regularly think of and organize fun outings for their colleagues. For every lustrum, we plan a journey! In October '24 it was time to celebrate our 35th anniversary in the Belgian Ardennes! It was an amazing trip! We all had a great time!



All Vitro Plus colleagues gathered in the heart of the Belgian Ardennes for an inspiring and energetic team getaway.

HARDINESS ZONE MAP



Minimum Temp (°F)	Zone	Minimum Temp (°C)	Minimum Temp (°F)	Zone	Minimum Temp (°C)	Minimum Temp (°F)	Zone	Minimum Temp (°C)
-60 to -50	ZONE 1	-51.1 to -45.6	-10 to 0	ZONE 6	-23.3 to -17.8	40 to 50	ZONE 11	4.4 to 10
-50 to -40	ZONE 2	-45.6 to -40	0 to 10	ZONE 7	-17.8 to -12.2	50 to 60	ZONE 12	10 to 15.6
-40 to -30	ZONE 3	-40 to -34.4	10 to 20	ZONE 8	-12.2 to -6.7	60 to 70	ZONE 13	15.6 to 21.1
-30 to -20	ZONE 4	-34.4 to -28.9	20 to 30	ZONE 9	-6.7 to -1.1			
-20 to -10	ZONE 5	-28.9 to -23.3	30 to 40	ZONE 10	-1.1 to 4.4			

ZONE 3		PAGE			PAGE			PAGE
American Maidenhair Fern		61	Giant Wood Fern / Goldie's Fern		67	Japanese Painted Fern		63

ZONE 4		PAGE			PAGE			PAGE
Barne's Male Fern		67	Curly Dwarf Male Fern		66	Narrow Hart's Tongue Fern		62
Christmas Fern		70	Golden Scaled Male Fern		65	Remote Wood Fern		68
Common Polypodium		69	Hart's Tongue Fern		62	Winged Beech fern /		
Crested Golden Scaled Male Fern		65	Lady Fern		62	Japanese Beech Fern		69
Crested Lady Fern		63	Male Fern		66			

ZONE 5		PAGE			PAGE			PAGE
Asian Saber Fern /			Deer Fern		64	Shades of Gray Fern		62
Long Eared Holly Fern		70	Hairy Lip Fern		64	Sunset Fern		67
Autumn Fern		66	Hardy Holly Fern		50 & 65	Tassel / Bristle Fern		70
Broad Holly Fern		62	Jurassic Wallich's Wood Fern		68	Upright Shield Fern		58 & 70
Champion's Wood Fern		66	Korean Mountain Fern		68	Rigid / Prickly Holly Fern		70
Compact Autumn Fern		66	Korean Rock Fern		58 & 71	Yunnan Holly Fern		71
Crested Japanese Painted Fern		63	Mexican Male Fern		67			

ZONE 6		PAGE	PAGE	PAGE	
Dainty Lady fern	63	Japanese Wood Fern		Stewart's Himalayan Wood Fern	68
Dwarf Holly Fern	64	/ Siebold's Wood Fern	68	Soft Shield Fern	71
Eared Lady Fern	63	Kurata's Fern	67	Silver Brake Fern	58 & 71
Formosan Wood Fern	67	Shaggy Shield Fern	65	Western Sword Fern	70

ZONE 7		PAGE	PAGE	PAGE	
East Indian Holly Fern	48 & 62	Rosy Maidenhair Fern	61	Ostrich Fern	69
Japanese Holly Fern	64	Sickle Leaved Holly Fern	64	Widespread Maiden Fern /	
Koidsuma's Wood Fern	66	Merlot Lady Fern /		Southern Wood Fern	72
Bronze Venus Maidenhair Fern	46 & 61	Two-tiered Lady Fern	61		

ZONE 8		PAGE	PAGE	PAGE	
Australian Jungle Brake Fern	71	Flowering Fern	47 & 61	Silver Ribbon Fern	59 & 71
Australian Cliff Brake Fern	56 & 69	Fragrans Maidenhair fern	47	Soft Tree Fern /	
Button Fern	57 & 69	Fritz Luthii Maidenhair Fern	47	Tasmanian Tree Fern	51 & 65
Creeping Shield Fern	51 & 68	Heart-leaved Cliff Brake Fern	56 & 69	Tassels Maidenhair Fern	46 & 61
Delta Maidenhair Fern	47	Ladder Brake Fern	59 & 72	Whorled Hard Fern	63
Dwarf Brazilian Tree Fern	49	Leatherleaf Fern	59		

ZONE 9		PAGE	PAGE	PAGE	
Ariane	53	Cotton Candy	54	Pink Maidenhair fern	47
Australian Tree Fern	50 & 64	Emerald Queen	56	Pom Pom	55
Boston Compacta	53	Emina	54	Ruby Rasp Fern	51 & 65
Boston Blue Bell	53	Fishtail	56	Shiva	56
Boston Fern	54	Fluffy Ruffles	54	Silverlace Fern	58
Blue Star	57	Green Moment	54	Staghorn Fern	57
Blonde	53	Montana	55	Sunjest Jesters Crown	56
Button fern	57 & 69	Murano	55	Tiger Fern	55
Blue Star Davana	57	Nevada	55	White Rabbit Foot Fern	50
Caterpillar Fern	57	Palapalai fern	51		
Corditas	54	Petticoat	55		

ZONE 10		PAGE	PAGE	PAGE	
Antenna Fern	51	Gioia Japanese bird's-Nest Fern	48	Nicolas Diamond Fern	57
Asplenium Antiquum	49	Green Flame	52	Painted Brake Fern	59
Bird's-Nest Fern	49	Heart Fern	51	Pleated Bird's Nest Fern	49
Brittle Maidenhair fern	47	Laua'e iki	52	Rabbit Foot Fern	50
Champions Bird's-Nest Fern	49	Japanese Bird's-Nest Fern	49	Silver Lady	50
Crested Japanese Bird's-Nest Fern	48	Kangaroo Fern	52	Sword Brake Evergreen Fern	59
Cretan Brake Fern	58	Kupukupu	53	Sword Fern	53
Crocodyllus	52	Macho	52	Twisted Bird's-Nest Fern	48
Duffii	52	Moonlight Fern	58		
Evergreen	59	Mother Fern	49		

ZONE 12		PAGE
Hare's Foot Fern	50	

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COLOPHON

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