

Catalog

Systems for professionals

We invent, deliver and assemble!



FruitSecurity Holland

Fruit growing



FruitSecurity Holland is a specialist in harvest protection. We do this by designing and building fruit systems. All our systems are extensively tested to offer the best possible protection.

Tree nursery



Tree growers are directly affected by climate change in the 21st century. More and more often a company is attacked by extreme weather like heavy rainfall, heavy hail and/or bright sunshine which can cause sunburn. FruitSecurity Holland has developed many systems to prevent this. FruitSecurity Holland also supplies windbreak netting.

Automotive



Hail can cause enormous damage to cars. Windows can break and the hail can cause huge dents. It is often expensive to repair the damage. That is why FruitSecurity Holland has car systems for: lease companies, car companies and/or dealerholdings.



**If you focus on
the product,
we will focus
on the best
protection!**

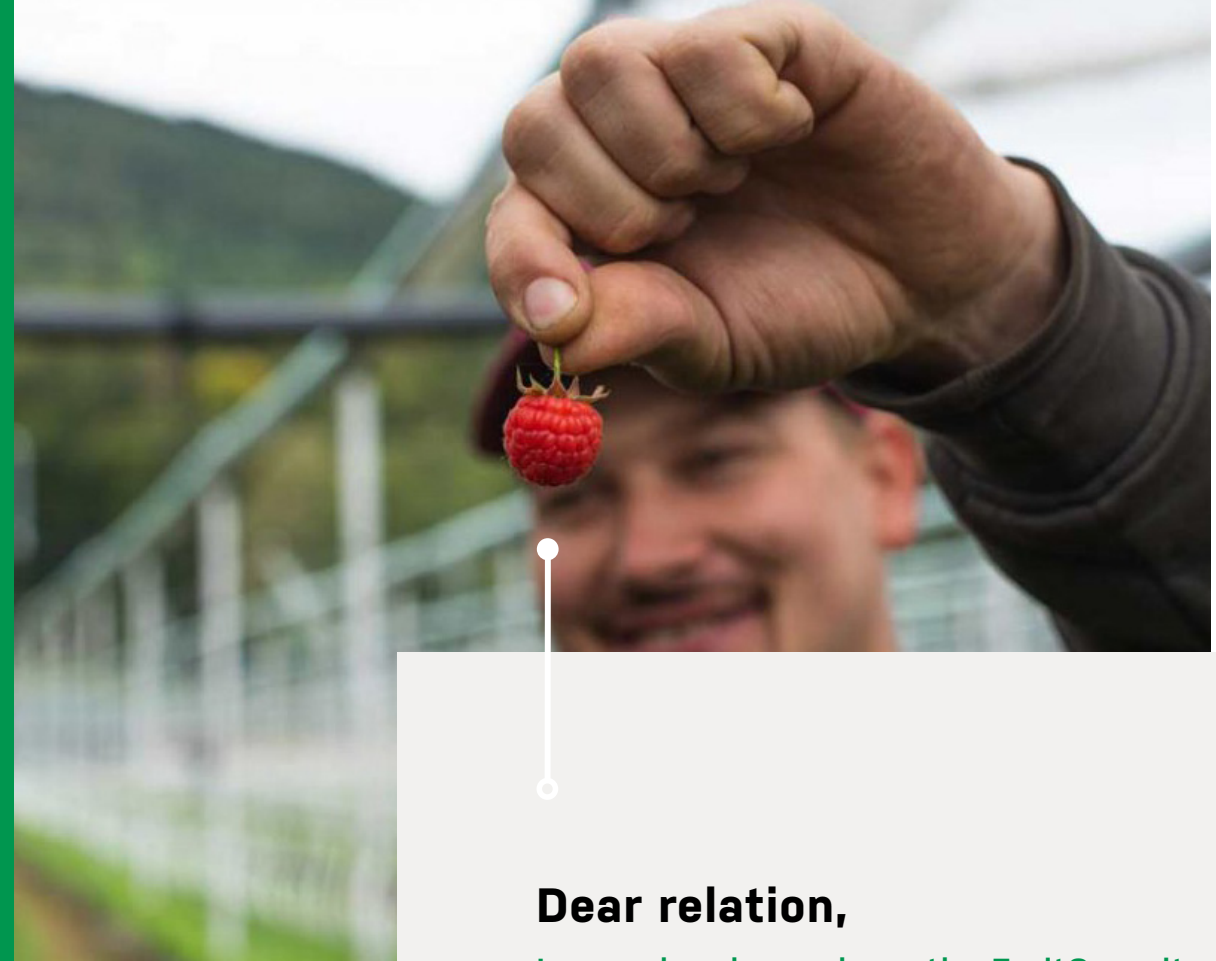


**Do you have a question?
Rick has the answer.**

+31 (0) 318 301 731

OR

sales@fruitsecurityholland.com



Dear relation,

In your hands you have the FruitSecurity Holland catalog. We have made this catalog for you so that you can get an overview of our assortment.

You as a grower or cultivator will do everything to deliver your product as beautiful and good as possible. But that depends on several factors for example weather influences that can completely destroy your annual turnover. FruitSecurity Holland has the mission to offer optimal protection for your crop. This can be done by coverings or materials. Every detail counts!

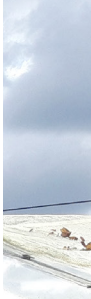
We have been building hail nets and foil systems for years. Our team of motivated specialists is at your service every day to protect your fruit from hail and rain.

Also next year you can expect several new products from us. Through Facebook, LinkedIn, Instagram and our newsletters we hope to keep you informed about the innovations and projects we are working on.

Kind regards,

The team of FruitSecurity Holland

Traditional hail net system



The WIESEL system is an innovative solution for fruit growers. This system has been developed for fruit growers in order to provide the best solution for harvest security. It is based on many years of professional experience and a unique spirit of invention. The system guarantees optimum safety standards, impressive functionality and high durability.

Specifications

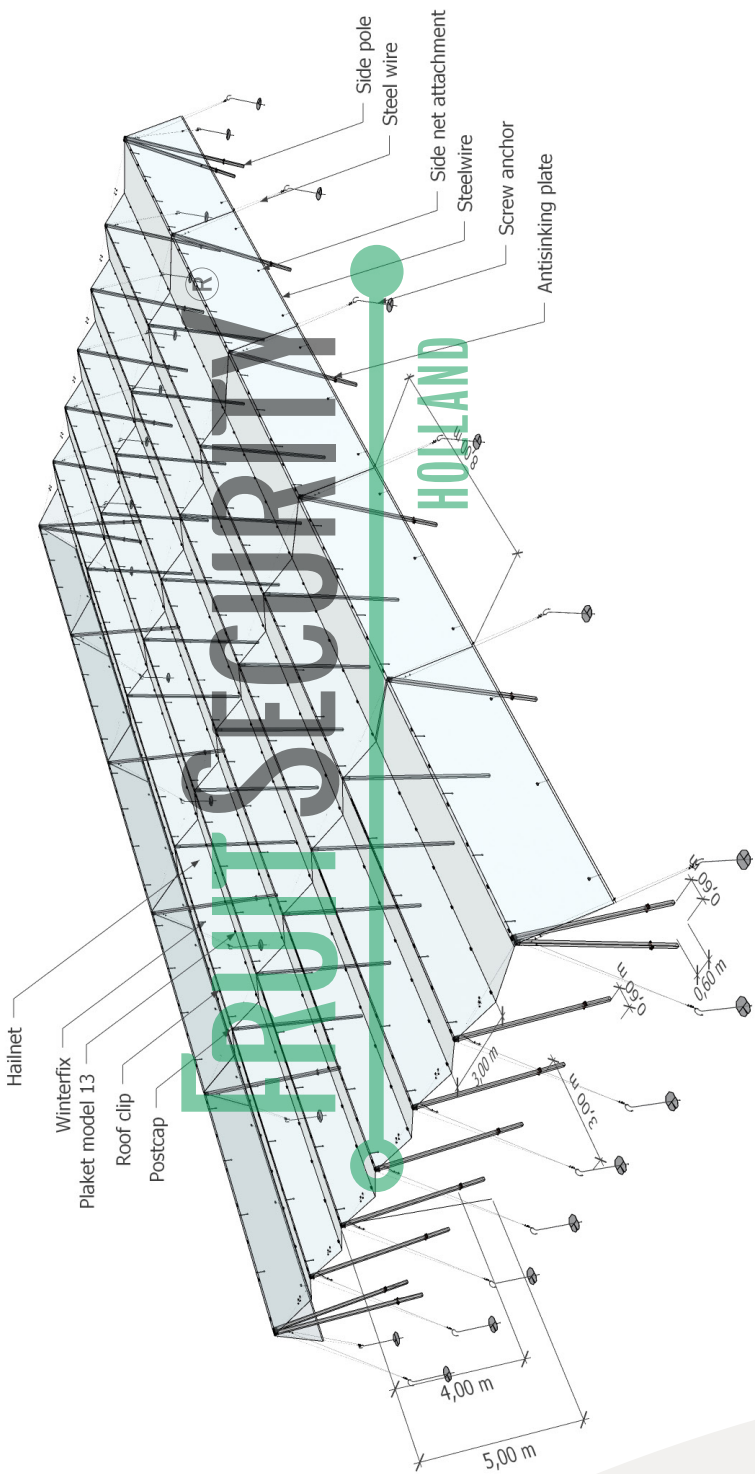
A characteristic of the Traditional Hail Netting System is that there are posts in each row. Because there are posts in each row, the system can also be used to support the trees. Therefore, a sustainable solution. The Traditional Hail Netting System is the first system designed with the longitudinal and transversal wires on top of the post head. This makes the construction of the system rock solid and it can withstand the most intensive rainfall. In technical jargon, this is also referred to as grid formation. Due to the lattice formation (longitudinal and transverse threads at the head of the pile), the increasing load is evenly distributed across the structure. By installing the cross wire over the hail netting, there is no longer any need for an underlying cross wire. In this way, hail can be discharged better and more regularly. And thanks to the installation of the cross wire over the hail net, more working space is available in the path of the machines (in the row of trees).

Hail nets

FruitSecurity Holland has developed its own type of hail net. The hail net type WIESEL with a mesh size of 2.8mm x 8.7mm is the optimal protection against small and large hail stones. Different colours of hail nets can be chosen. FruitSecurity Holland supplies hail nets in the colours: Crystal, Grey, Black and Milk White. If you need a different colour, this is possible after consultation. the choice of which colour is needed for you depends on the variety and the light conditions in the orchard.

Winter storage

The WIESEL Winterfix is the fastest, simplest and most economical solution for the winter storage of hail nets. It is easy to assemble and can remain in the orchard all year round.



Flat hail net system



The Wiesel flat hail net system was the first three-row system introduced to the market. The very first three-row system for the three-row sprayer. The most unique feature of the flat hail net system is the working space underneath the hail net.

Specifications

Characteristic of the flat hail net system is the row distance. Driving distances of up to 11 metres are possible. This with driving heights up to 5.0m and post distances up to 3.5m. The desired height of the system can always be discussed. Due to these characteristics of row distances, row heights and post distances, it is possible to use a 3-row sprayer. This provides ideal protection against hail and sunburn.

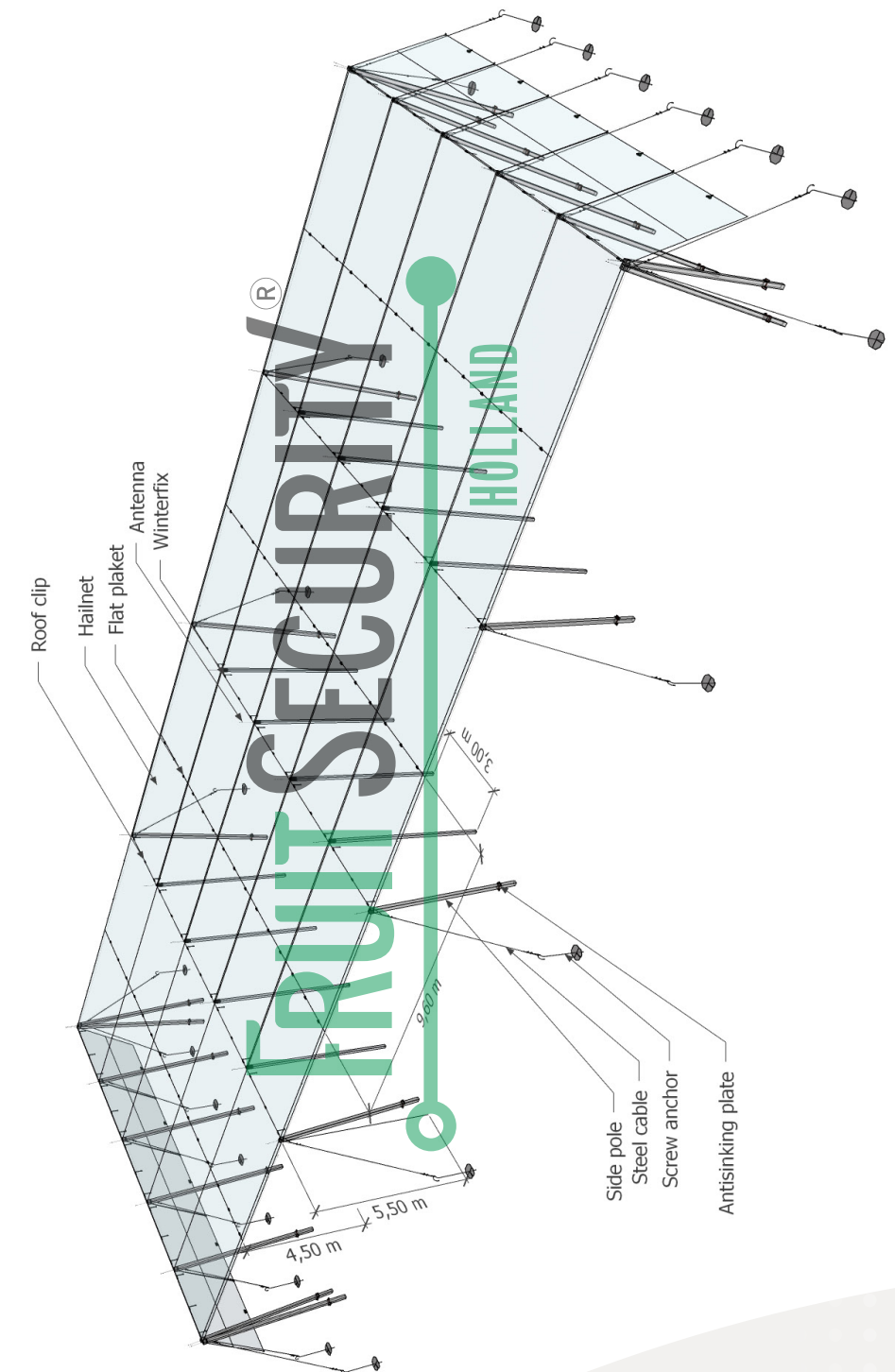
The WIESEL hail netting system works without emptying hail. The system therefore avoids damage from scattered hail. The system has been extensively tested in areas with very strong winds and under heavy snow loads for wind and rain permeability.

Plaques and clips

The attachment of the hail net to the longitudinal wire is another important point. For this, a net cam clip is used. The net cam clip fixes the netting only at certain points. As a result, the hail net still has sufficient room to move. In case of (strong) wind, it does not always move at the same point. This benefits the life span of the hail net.

Light loss

The flat hail net system has the least light loss in comparison with other systems. The least light loss is due to the fact that less square meter of hail nets are needed on the system. The three most common types of hail nets are crystal, grey and black. Crystal has an 8% shade, grey 13% and black 18%.



Powerflex Foil System



The Powerflex Foil System was specially developed as a rain system for the cherry crop. Over the years the system has been further developed for raspberries and blueberries. There are now even Powerflex systems above strawberries, redcurrants and blackberries.

Features

The Powerflex Foil System is designed to be easy to open and close. The system can be opened and closed more often in a year. As a result, customers often close the Powerflex system in the frost period. The Powerflex is constructed with 2 separate lanes above the grass track. In the middle of the row it is connected with elastic. The elastic holds the foil down through the gutter wire. This causes all the water to run into the gutter.

Insect net

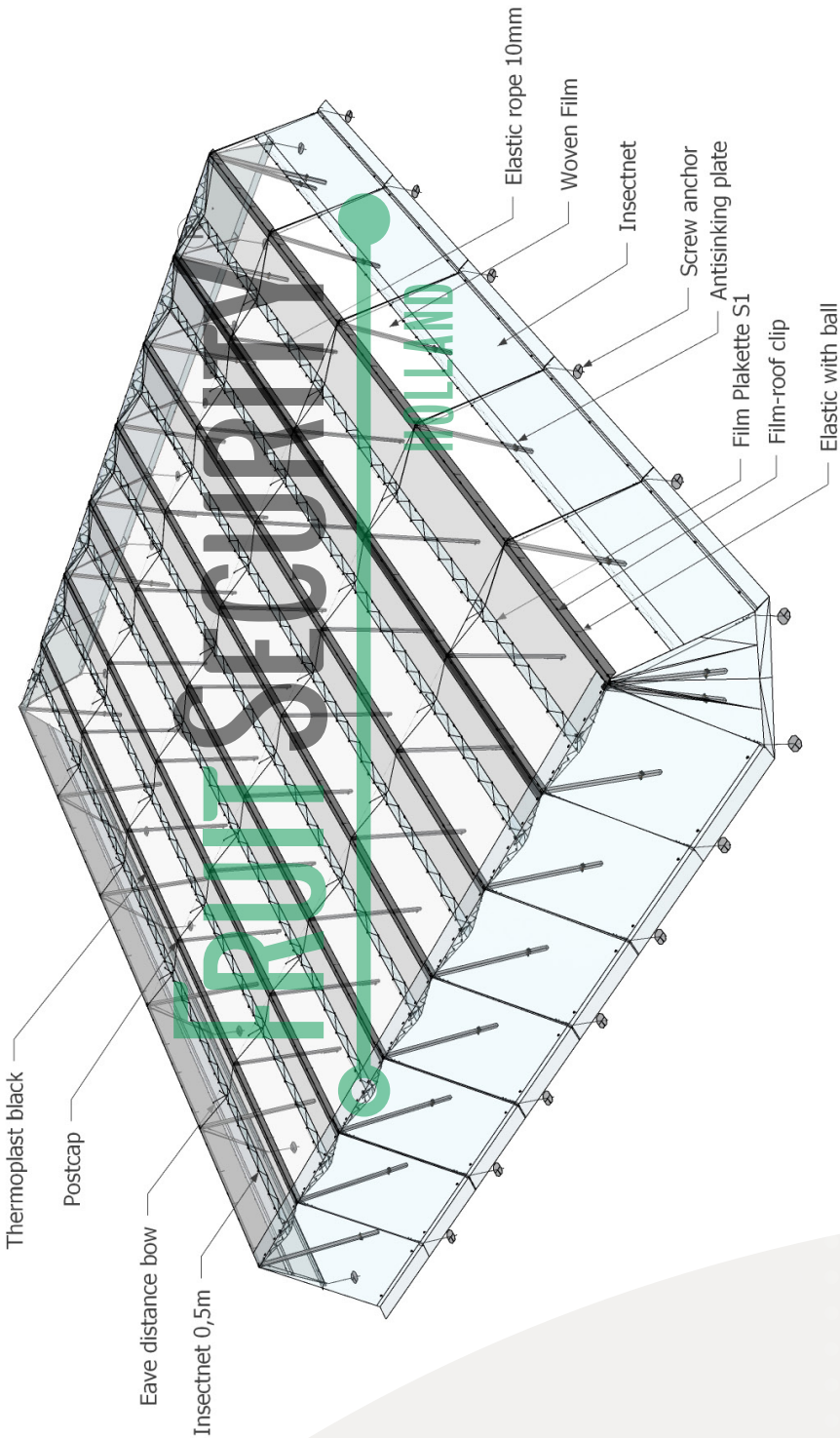
The Powerflex Foil System can also be equipped with an insect net. The insect net is installed in the gutter and all around on the sides and front. The insect net provides optimum protection against insects and birds. Especially against the Suzuk fruit fly (*drosophila suzukii*). The gutter width is standard 20-30 centimetres. A different gutter width can be discussed. The insect gutter also protects against

rain. The rain is broken by the insect gutter and enters the grass track nicely.

Woven foil

The foil used in the Powerflex Foil System is woven. The woven foil is available in one-sided and double-sided laminated form. The FruitSecurity film has a long life span and good durability. The woven foil has a diffuse effect, this prevents sunburn.

PowerFlex Foil System	Foil	Hailnet	Insectnet
Systeem standard			
Systeem basic			
Systeem optimal			



Jacket Vineyard System



The Jacket Vineyard System is a simple, but good hail protection system for the vineyard. The system is also increasingly being used in orchards. The Jacket system has already been installed in many vineyards.

Reduction of work

After installation of the system, the Vineyard System not only provides protection against external threats. The system also saves you time and work.

Hail nets

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Pruning

The hail nets also ensure that the shoots grow upwards. Crop protection work is less affected by the wind. This is due to the hail nets. Cutting over the nets is no problem at all. It is even possible to work with a pneumatic defoliator.

Clips

The WIESEL plaque mod. 13 is perfect for use with the Jacket Vineyard System. It facilitates the opening and closing of the protection system. And a further advantage is that the plaque can be disassembled.



GPS Measuring and mapping

When hail nets or rain systems have to be built, it has to be right down to the last clip. That is why FruitSecurity Holland has put a lot of effort into the right preparation. We have everything in house: from GPS surveying and mapping, to 3D drawing of the system and support.

Thinking

It starts with thinking about the field layout. With nets, it is helpful to also cover headlands if the plots need to be insect and bird-proof. With nets, keep space for anchors. The location of the plot entrance and of a pump house and/or fertigation unit are also important, as are those of drainage and other pipes in the ground.

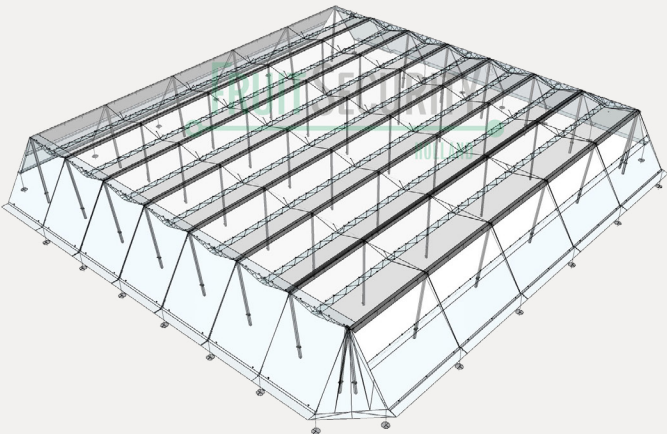
Design

A complete plot design facilitates construction. Contractors can avoid cables and pipes in the ground and take buildings and other objects into account. Detailed quotations can be made on the basis of the plot drawing.

For questions or to make an appointment call: +31 318 30 17 31



The Jacket Vineyard System saves me 20 man hours per hectare compared to other single-row systems” (Weingut Marcus).”



Free GPS measurement and orchard design*.

*At first order

Concrete post type Spinazzè

Available in many different options

Also watch the
concrete post test on
our YouTube channel



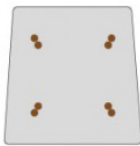
Prestressed concrete piles.

An important feature of the Spinazzè concrete posts is the inside, made of harmonic steel braids. Thanks to the inner steel braids, the concrete poles can bend with great elasticity and withstand the highest weights. The prestressed concrete poles are periodically tested in extreme conditions to verify their resistance before being installed in orchards or vineyards. The technical information with the most recent test results can be obtained from us.

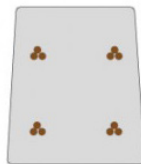


Overview of the most common sizes with the article number.

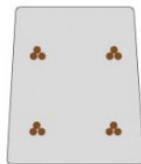
Concrete post 4.8m 7x7(12 thread)	FSH100357	Concrete post 5.0m 10x12 (24 thread)	FSH100965
Concrete post 4.8m 7x8(12 thread)	FSH100402	Concrete post 5.3m 7x8 (12 thread)	FSH100857
Concrete post 4.8 m 8.5x8.5(12 thread)	FSH100366	Concrete post 5.3m 8.5x8.5 (18 thread)	FSH100372
Concrete post 4.8m 8.5x8x5(18 thread)	FSH100875	Concrete post 5.5m 9x9.5 (18 thread)	FSH100431
Concrete post 5.0m 9x9.5(18 thread)	FSH100429	Concrete post 5.5m 10x12 (24 thread)	FSH100389



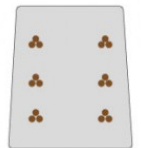
7 x 7 Concrete post
4 braids, 2 wires (11 kg/m)
For vineyards and orchards in hilly areas or on small pieces of land.



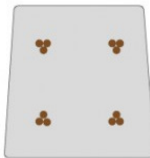
7 x 7 Concrete post
4 braids, 3 wires (11 kg/m)
For vineyards and orchards, for better resistance and mechanized agriculture.



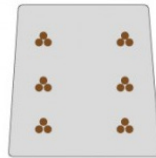
7 x 8 Concrete post
4 braids, 3 wires (12.8 kg/m)
For vineyards and orchards in large plantations and suitable for traditional hail nets



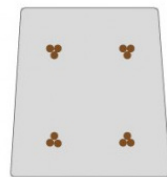
7 x 8 Concrete post
6 braids, 3 wires (12.8 kg/m))
For vineyards and orchards, extra reinforced. Suitable for hail net constructions



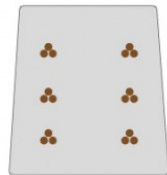
8,5 x 8,5 Concrete post
4 braids, 3 wires (16.4 kg/m)
Robust version for vineyards and orchards. Often used in flat net, foil and traditional systems.



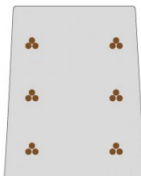
8,5 x 8,5 Concrete post
6 braids, 3 wires (16.4 kg/m)
Robust version for vineyards and orchards extra reinforced. Often used in flat net, foil and traditional system.



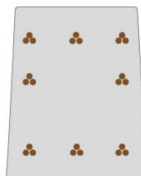
9 x 9.5 Concrete post
4 braids, 3 wires (20 kg/m)
Used as end posts in vineyards or orchards.



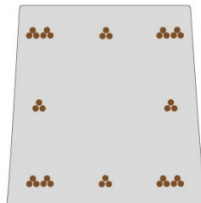
9 x 9,5 Concrete post
6 braids, 3 wires (20 kg/m).
Used as end posts in vineyards or orchards. Reinforced version, suitable for net and foil systems.



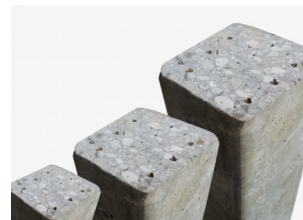
10 x 12 Concrete post
6 braids, 3 wires (25kg/m)
Robust post used as an end post for orchards standard version.



10 x 12 Concrete post
8 braids, 3 wires (25kg/m)
Robust post used as an end post for orchards. Reinforced version suitable for net and foil systems.



13 x 14 Concrete post
12 braids, 3 wires (45kg/m)
Used as a pole in windbreak solutions or corner post in hail net systems.



Various colors
All our concrete poles are available in a colored version and if necessary a head bore on top.



Wooden poles type Carmo



FruitSecurity Holland is exclusive dealer of Carmo poles

Knowing where the product comes from and its reliability are of high importance to us. That is why we started an exclusive partnership with Carmo for Northern Europe.

The Carmo posts are produced from slow growing pines from temperate and sustainable forests, in other words, carefully managed by humans. The Carmo wooden poles are made in countries with sand or mountains, which gives them a high mechanical resistance.

Pinus Pinaster

Unlike most (Kiefer) wood posts of the wood species Pinus Sylvestris, Carmo posts are of the species Pinus Pinaster. This type of wood is distinguished by its structure and has stronger fibers. The poles are peeled, so the core is always retained and the pole is proven stronger than milled wooden poles. Carmo posts are the highest quality posts. For a reliable and good planting this is also necessary.

FCBA

The FCBA quality mark, which is the independent body that monitors the quality of poles, has a guideline that class 4 wood must be treated with at least 15l Tanalith per m3 of wood. Our Carmo poles are treated with 28 kilos per m3.



The poles are available in various combinations of lengths and thicknesses by request:
4,5/5,0, 7,5/10,0, 10,0/12,0 and 12,0/14,0 cm.

Carmo post 1,5m 10,0/12,0 Tanalith 8001	FSH101222
Carmo post 1,8m 10,0/12,0 Tanalith 8001	FSH101227
Carmo post 2,0m 10,0/12,0 Tanalith 8001	FSH101232
Carmo post 2,2m 10,0/12,0 Tanalith 8001	FSH101236
Carmo post 2,3m 9,0/11,0 Tanalith 8001	FSH101241
Carmo post 3,5m 9,0/11,0 Tanalith 8001	FSH101244
Carmo post 4,0m 9,0/11,0 Tanalith 8001	FSH101247
Carmo post 4,5m 9,0/11,0 Tanalith 8001	FSH101217
Carmo post 5,0m 9,0/11,0 Tanalith 8001	FSH101195
Carmo post 5,5m 9,0/11,0 Tanalith 8001	FSH101195



Warranty

Carmo wooden poles come with a 20 year full guarantee. This means that if the post rots it will always be fully refunded. Carmo Wood can give a 20 year guarantee because it is certain of the quality of its Carmo posts.

Anti-sinking protection



Anti-sinking plates are the invisible muscles and the foundation of our systems."



Anti-sink plate wood

FSH100286



Anti-sink plate complete

FSH100285

Anti-sinking plates are used as anchors so that the post cannot sink into the ground when there is high pressure on the post. The assembly of the anti-sinking plates is simple and fast because they are attached to the posts with bolts and nuts.



Screw anchors



Fruit anchor disk FSH100821



Rambo anchor FSH100874



Torpedo anchor FSH100871

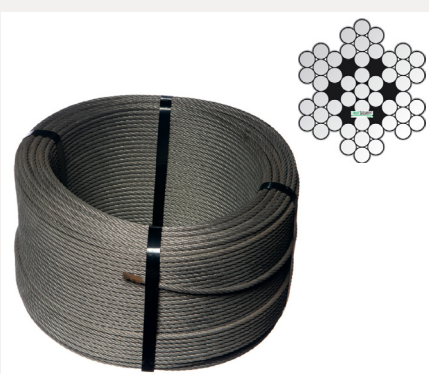


Screw anchor 150mm FSH100830
Screw anchor 250mm FSH100834
Screw anchor 300mm FSH100817
Screw anchor 400mm FSH100013
Screw anchor 500mm FSH100985
Screw anchor 600mm FSH101124

“Special ground anchors are used in hail net and foil systems. The strength of a system depends largely on the right anchor and the right anchor spacing.”

Teus de Jong
Technical Director

Steel wire and Steel Cable



Galvanized cable 5mm 7x7 FSH100794
Galvanized cable 6mm 7x7 FSH100804
Galvanized cable 8mm 7x7 FSH100810



Steel cable 5mm 1x19 FSH100826



Steel wire Wiesel 3,0mm FSH100446
Steel wire Wiesel 4,0mm FSH100443
GT steel wire 1,8mm FSH101403
GT Steel wire 2,0mm FSH101404
GT Steel wire 2,2mm FSH101405
GT Steel wire 2,5mm FSH101406
GT Steel wire 3,1mm FSH101425

“FruitSecurity has developed a special wire for hail nets with 3% stretch. This is essential in keeping the system and support under tension.”

Steel wire clamps & rings



Carabiner 6x60 mm FSH100303
Carabiner 8x80 mm FSH100302
Carabiner 8x80mm stainless steel FSH100299



Net ring 4x25 mm galvanized FSH100183
Net ring 8x80 mm galvanized FSH100184
galvanized ring 8x36 FSH101294



Steel wire/cable clamp Wiesel 8 mm FSH100081
NT Steel wire/cable clamp 8/10mm FSH100084
Steel wire/ cable clamp Wiesel 13 mm FSH100818

The best protection? We'd love to help you!

Rick Mudde
Sales manager



Post caps and components



Posts caps are ideal for attaching wires and cables on the posts. In the middle of the post cap is a screw with rings through which the wires and cables are stretched.



Standardcap simple Ø6cm FSH101353
Standardcap simple Ø8cm FSH100150
Standardcap simple Ø10cm FSH100151
Standardcap simple Ø21cm FSH100156



Firstfix 7x7 FSH100881
Firstfix 8,5x8,5 FSH100138
Firstfix 9,5x9,5 FSH100117
Firstfix 8/10x12 FSH100147



Power Firstfix 100 FSH100825
Power Firstfix 140 FSH100117
Power Firstfix 160 FSH101047



PowerMatic 7x7 FSH100162
PowerMatic 8x7 FSH100160
PowerMatic 8x8 FSH100163
PowerMatic 8,5x8,5 FSH100161



Firstfix Universal 100 FSH100105
Firstfix Universal 120 FSH100819
Firstfix Universal 140 FSH100844
Firstfix Universal 160 FSH100109



Firstfix long protection 30cm FSH100129

Post caps and components



Assembly tool

FSH100763



Plastic Spacer

FSH100463



Hiltiscrew for concrete post

FSH101211



U-wire Concretefix

FSH101210



Screw unit Powermatic

FSH101025

“Everything for optimal protection.”



Nut M10

FSH101129



Plastic ring black

FSH101034



Ring M10

FSH100924



Ring curved

FSH100168



M10 nut flat

FSH100926



Cap powermatic

FSH100880



M10-Nut 30mm

FSH100766



Protection tube Ø16 Black
Protection tube Ø20 Black

FSH100332
FSH100329



M10 Antenna 50cm

FSH100796

Bangels Fruit from Belgium

The Belgian brothers, Christophe and Pascal Bangels, grow apples and pears on more than 100 hectares in Montenaken. One of their regular customers is Colruyt, a partnership that encouraged them to install hail nets at a rapid pace. You can read their story, and how they entered into a pleasant cooperation with FruitSecurity Holland.

"Over the past three years, we have invested very rapidly in two of Colruyt's exclusive apple brands: Magic Star and Coryphée. We built 45 hectares of hail nets and planted new varieties during that period," says Christophe Bangels. It was a big investment for the brothers, but they are happy to pay it for the partnership with the supermarket chain. "The advantage is: the product is already sold before it is harvested. In 2018, we all had a small yield from the young trees, in 2019 already a decent harvest. Colruyt pays a fair price for it. They have Magic Star apples on the shelves this season until the end of July."

Heavy sun

The heavy sun did cause losses for the Bangels brothers last year as well. "We had about 15-20% damage to the apples. But the apples that were under the nets were better. Shadow used to be a disadvantage of hail nets, but now it is an advantage because we get such hot summers. You see more and more extremes: then too wet, then too dry. We've also had a lot of hail in recent years, unfortunately, so we were glad those nets were up there." About 15 years ago, Christophe and Pascal initially invested in anti-hail guns. "But that's not conclusive, it's still a risk. Nobody can say for sure that it works. And it makes a lot of noise, if you're between houses it's annoying. Hail nets are much better." Initially, the construction of

the hail nets was because Colruyt asked for them. "They have to be able to count on those apples. But we are happy with it ourselves. You sleep better when you start with hail nets."

The first year, five hectares of hail net were built for Colruyt by three cooperating growers. "That all had to happen fairly quickly, we were allowed to grow for Colruyt and started working together. One of the other three growers had already chosen a Belgian supplier so we went along with that. That went reasonably well, but I did contact FruitSecurity Holland the following year.

Personal

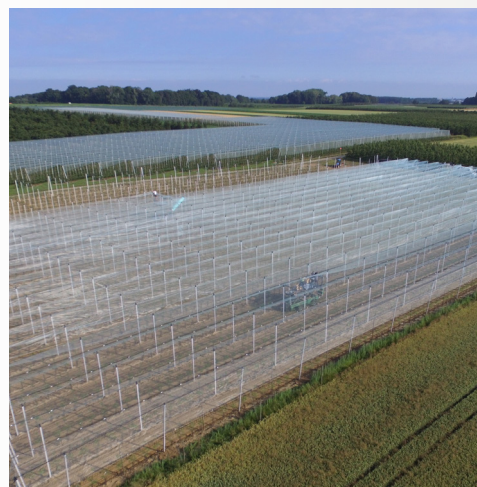
We immediately had a good relationship with Gerben and Teus and then started working with them." The Bangels company is now working with them for the third year. "This year they are building another 10 hectares of hail nets with us. We also hire a Dutch contractor who we know through them, the company is called Vriend. They do a lot of work with FruitSecurity Holland. I think the combination of Vriend for the contract work and FruitSecurity Holland for the material and the finishing is very good, I am very satisfied with that."

Christophe is clearly happy about that and adds, "Vriend's contract work is much easier to work with, so is the Dutch equipment which works better and faster than the Belgian one we had before. It's simple but it's conveniently and it's quicker to build. Vriend has a machine for placing the poles using GPS. So you get more done with less people. And the quality of the material is the same, which is just good."

Top product

The hail nets enable the Bangels brothers to grow a top product. "For Colruyt, the product has to be super and then they want to pay more for it. That is their strategy. The quality of your fruits and vegetables is the little thing in which you can distinguish yourself as a supermarket chain from other department stores." And the brothers are happy to work on that.

Also watch the interview
on the YouTube channel of
FruitSecurity Holland



“

You sleep better when you start with hail nets”

◦ Nets and mesh

Hail net type WIESEL

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KLY value

KLY largely determines the service life of a hail net. In addition to KLY value, weather influences, such as wind, also largely determine the service life.



Lifetime

The KLY value of crystal hail net is 950 KLY. In the Netherlands, the average is 80 KLY per year. U.V. stabilizers slow down the aging process of the plastic (PEHD). The amount of U.V. stabilizers determines the KLY-value. From practical experience we have found that the hail net has a lifespan of 10-15 years.



Made-to-measure

For many years we have made the nets in our workshop for you exactly to the size you want. With specially designed machines we can do this quickly and well.



Tensile strength

The tensile strength of each single wire is up to 3.5kg per wire. Which amounts to 112kg per width meter. The thickness of a single thread is 0,32mm. The woven net is so strong that you can make a hammock out of it. Each production of yarn is individually tested and monitored.



Polyethylene

Our hail nets are made of high density polyethylene (HDPE) with U.V. resistance.



Testing

Our systems have been extensively tested in areas with very strong winds and under heavy snow loads for wind and rain permeability.



◦ Nets and mesh



HAIL NET TYPE WIESEL BLACK

Mesh width	2,8 x 8,7 mm
Color	Black
Material	Polyethylene high density (PEHD) with U.V. resistance
Weight	46-50 gr/m²



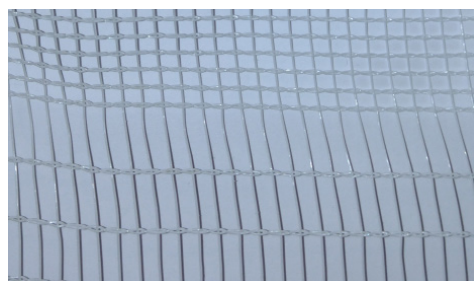
HAIL NET TYPE WIESEL CRYSTAL

Mesh width	2,8 x 8,7 mm
Color	Kristal
Material	Polyethylene high density (PEHD) with U.V. resistance
Weight	46-50 gr/m²



HAIL NET TYPE WIESEL GREY

Mesh width	2,8 x 8,7 mm
Color	Grey
Material	Polyethylene high density (PEHD) with U.V. resistance
Weight	46-50 gr/m²



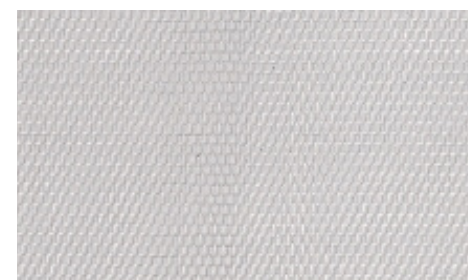
HAIL NET MILK WHITE

Mesh width	2,8 x 8,7 mm
Color	Milk white
Material	Polyethylene high density (PEHD) with U.V. resistance
Weight	47 gr/m²



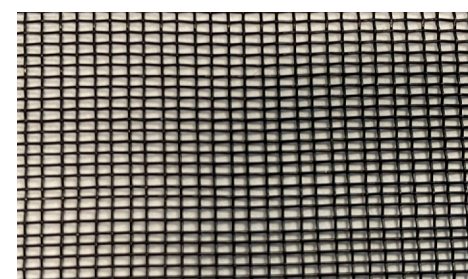
HAIL NET TYPE LIGHT GREY

Mesh width	2,8 x 8,7 mm
Color	Light grey
Material	Polyethylene high density (PEHD) with U.V. resistance
Weight	46-50 gr/m²



INSECT NET 40 WIT

Mesh width	0,97 mm x 0,72 mm
Color	White
Structure	Woven
width	On request



INSECT NET MESH 40 ZWART

Mesh width	0,97 mm x 0,72 mm
Kleur	Black
Structure	Woven
width	On request



BIRDNET

Mesh width	0,22 x 0,22 cm
Color	Black
Material	HDPE
Structure	Knitted
Weight	18 gr/m²



ANTI-RAIN NET

Structure	Tightly woven
Color	White

“Anti-rain net has the special ability that the net allows water vapor to pass through but not hard raindrops. This reduces the intensity of a hard rain and does not damage your fruit.”



ANTI-RAIN FOIL

Weight	150 gr/m²
Material	Woven foil
tensile strength	Warp 64 - Weft 86

Polyethylene foil



Delivered to measure!

Tunnel film and greenhouse film come in all shapes and sizes. At all kinds of different suppliers. For the development of the crop it is very important which type of foil is chosen. This is because there are many different properties that can be applied to the film. Properties that improve the quality of the film. Examples are: thermicity, anti-condensation, anti-fog, anti-dust, UV-stability and light transmission.

The film range of FruitSecurity Holland consists of the most qualitative and high-quality films in the most common widths. The polyethylene film can be used for growing soft fruits such as: strawberries, blueberries, redcurrants, raspberries, etc. The strength of our polyethylene film is that it has various properties to influence the climate under the film in the right way. Influencing the climate is necessary to achieve a better end result.

FruitSecurity Holland supplies Diamond 15° foil in addition to the standard types. The Diamond° foil was developed for more intensive weather conditions. Additives are added to prevent light from shining directly onto the crops. The film then creates a unique and high light diffusion, preventing sunburn and the shadow effect.

Photosynthetic efficiency is also increased with Diamond 15° film, as light diffusion allows light to reach the crop from all sides.

Light transmission

An important property of film is light transmission. Diffuse light reduces shadow and ensures that the plant receives a more evenly distributed light distribution throughout the day. Better light distribution allows the plant to get more light from the PAR range of the light spectrum, both for the upper leaves and the lower leaves, so more photosynthesis can take place. Maximum permeability of the PAR range is then necessary.

Diffuse films distribute the light more evenly. This will considerably reduce the risk of UV stress and make the plant less susceptible to disease. Due to this light distribution, all fruits will be beautifully coloured because the light reaches the fruit in all positions.

UV-stability

Crops can be damaged by excessive sunlight, resulting in crop burns. FruitSecurity Holland film therefore has a UV property that protects the crop and film from Ultraviolet light.

Ultraviolet light (UV) affects polyethylene film and can even damage the film. The life of the film therefore depends on its UV resistance. To protect the film and increase the UV resistance, UV stabilisers are added during the production process.

The UV resistance of the film depends on 4 factors:

- Foil thickness.
- Light transmission/ transparency.
- Type of raw material.
- The use of additives such as UV stabilisers.

These 4 factors protect the film against UV light.

UV-open foil

A "UV-Open" film lets the UV radiation, which reaches the earth's surface, pass through unfiltered.

Opening the UV range from 320nm is necessary to develop the Anthocyanin pigments (red) in bicoloured roses, nectarines and red-leaved lettuce. Anthocyanin pigment needs UV light to give colour. Anthocyanin gives the purple colour to certain types of lettuce and aubergines. A film with a UV filter causes problems with colouring in these crops. Therefore, a UV-open film must be used. FruitSecurity Holland checks which film is most suitable for each crop.



More Information?

Get in touch with Wilbert:
Sales@fruitsecurityholland.com

Type numbers

E2119

Thickness	150-200 micron
transmission	87%
Diffusion	55%
Material	Polyethylene
Features	UVA, 85% thermisch, anti-condens, diffuus.
Crop	Strawberries, different kinds of berries, blackberries, apricots, raspberries, asparagus, etc.

E2118

Thickness	150-200 micron
transmission	90%
Diffusion	25%
Material	Polyethylene
Features	Maximum PAR range, clear, anti-fog.
Crop	Intended as an outer layer of film for double film systems.

E2553-UV OPEN

Thickness	150-200 micron
transmission	88%
Diffusion	55%
Material	Polyethylene
Features	EVA, 85% Thermal, Anti-fog, Diffuse, Anti-drip, UV-Open.
Crop	Strawberries, different kinds of berries, blackberries, apricots, raspberries, asparagus, etc.

E2187

Thickness	150-200 micron
transmission	88%
Diffusion	75%
Material	polyethylene
Features	Diffuse, UVA open, .
Crop	Red-coloured crops such as: strawberries, currants, peaches, apricots, etc.

Diamond 15® foil

E2143 DIAMOND® 15

Thickness	150-200 micron
transmission	89%
Diffusion	55-60%
Material	Polyethylene
Features	85% thermal, anti-fog, diffuse, anti-drip, very high light transmission.
Crop	Strawberries, different kinds of berries, blackberries, apricots, raspberries, asparagus, etc.

E2567 DIAMOND® 15

Thickness	50-200 micron
transmission	89%
Diffusion	55%
Material	Polyethylene
Features	Diffuse, 90% thermal, UV-open, very high light transmission.
Crop	Red-coloured crops such as: strawberries, currants, peaches, apricots, etc.

E1892 DIAMOND® 15

Thickness	150-200 micron
transmission	89%
Diffusion	58%
Material	Polyethylene
Features	85% thermal, anti-dust, diffuse, very high light opacity.
Crop	Strawberries, different kinds of berries, blackberries, apricots, raspberries, asparagus, etc.

Standard sizes

1,25m, 1,8m, 2,5m, 2,6m, 2,8m, 3,0m, 3,5m, 5,5m, 6,0m, 6,5m, 8,0m, 10,0m, 12,0m, 14,5m



Net attachments and components



Plaket Wiesel mod. 13 zwart FSH100231



Plakette Unifix 8mm FSH101112



Wiesel Net cam clip FSH100732



Flat plaket Wiesel white FSH100748



Flat end plaket Wiesel green FSH100740
Flat end plaket Wiesel black FSH100879



Plaket WIESEL green FSH100241



Plaket Magnum FSH100749



Legafix Gummi 80cm FSH100736



Wieselfix bungy 50cm FSH100870



Plastic ring white 33x8x3 FSH100799



Elastic (Bungy Gummi) 8mm FSH100217



Wiesel-lift Trumpet FSH100216



Winterfix model 10PA FSH100251



Ancora with chain FSH100940



Wiesel Lift role (small) FSH100215



Elastic hook 6mm FSH100218
Elastic hook 8mm FSH100221



Net-stop needles FSH100246

“Every bolt, nut and clip is thought about.
Doing this to deliver the best systems!”

Gerben van Veldhuizen
General Director



Rain protection components



Tensioner with wheel FSH101263



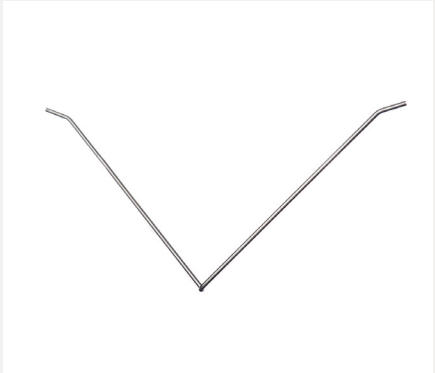
M10 Pole bracket incl. Nut FSH100831



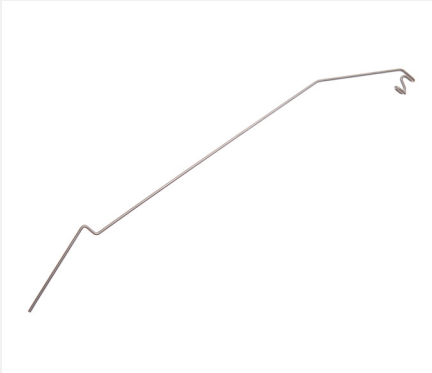
Rope thimble A2K 8 FSH101262
Round thimble D.15/35 galva. FSH101259



Plastic cord 4mm 400m FSH100190
Plastic cord 4mm 850m FSH100190



Distance bow 10mm FSH100866
Distance bow 12mm FSH101392



GT Net protector 1,0m FSH101419



EDB klem FSH101246

"FruitSecurity Holland continues to innovate new products on an ongoing basis. In 2020, for example, we developed the GT Net protector."

Jared Zoutewelle
2D&3D Designer



Biodynamic small fruit company Fruitweelde Biodynamisch

Fruitweelde is a biodynamic small fruit farm, located in the village of Ingen. Owner Elze-Lia Visser started in 2011 and entered into cooperation with FruitSecurity Holland in 2017. Main reason? Their continuous innovation.

Elze-Lia knew when she was 15 that she wanted to do something with agriculture. Through a study in Wageningen, she worked for two decades as a soil remediation consultant, but the outdoors kept it-ching. "At one point I thought: what am I doing in an office if I want to work outside?" So she took a part-time course in organic cultivation and started her current fruit farm in 2011. It literally started from scratch, on a piece of ploughed farmland where there was nothing else.

Growing organically

To be allowed to build a barn on this land, the municipality set the condition that she had to roll out her business plan in one go. In other words: 3,7 hectares were planted. At the time, this also consisted of cherries and plums. "Growing cherries organically is not

doable because of the Suzuki fruit fly. We tried for two years, but with no yield. With plums you have the plum sawfly and plum moth that cause a lot of damage. The moth can be treated with pheromones, but against the wasp you really have to spray and I don't want that."

The cherries and plums have since been replaced, the current acreage consists of raspberries and blackberries, kiwi berry and red berries. This kiwi berry does make me curious. "It's a small product, in recent years people are starting to know it more and more. I think it's the most delicious product I grow! The harvest is in late August, early September it's in the store." The red berries are also selling well. "Last year I lost everything in one week."

Not only is the store doing well, Elze-Lia is not short of hands in the field either. "We have too many people!", she says with a laugh. What makes these people so enthusiastic? "The atmosphere here is very nice. We have a very mixed group, people from the neighborhood, people from Poland who have been coming since the beginning, and many students from the Warmonderhof or from Wageningen who are doing a green education. Here they get a piece of practice."

For a new raspberry field, FruitSecurity Holland built the foil canopy in the spring of 2017. "We already had canopies based on a hail net construction at a field of blackberries and the existing raspberry plantation. That was a construction from another company. We switched to FruitSecurity Holland because I see that they put innovation directly into practice. They are continuously thinking of better solutions for their existing , for example, to roll up the film faster.

Conscious choice

Elze-Lia deliberately chose a system with concrete posts because wooden posts are impregnated with a toxic substance. "I don't want that on my land. In addition, I find concrete a form of sustainability, it can stand for a long time because replacement

also burdens the environment." She finds the advantage of the system of FruitSecurity Holland is that attaching the film is a simple and quick operation without getting very tired arms and hands. Another advantage is that the winter protection of the film is already mounted on the caps.

Specialist work

There was a nasty situation in 2018, when a heavy storm blew the foil out of the winter storage room and tore it apart. For a while there was a dispute over who was responsible, but FruitSecurity Holland resolved it nicely. "I like it when you can talk to each other and come to a solution," says Elze-Lia. "Even if you have a dispute, you still come out of it with them. I like the cooperation, we have the same principle of integrity. I also think it's important that FruitSecurity Holland delivers and installs the product, so it's all in one hand. Because mounting such a system is serious specialist work. So it's well taken care of."

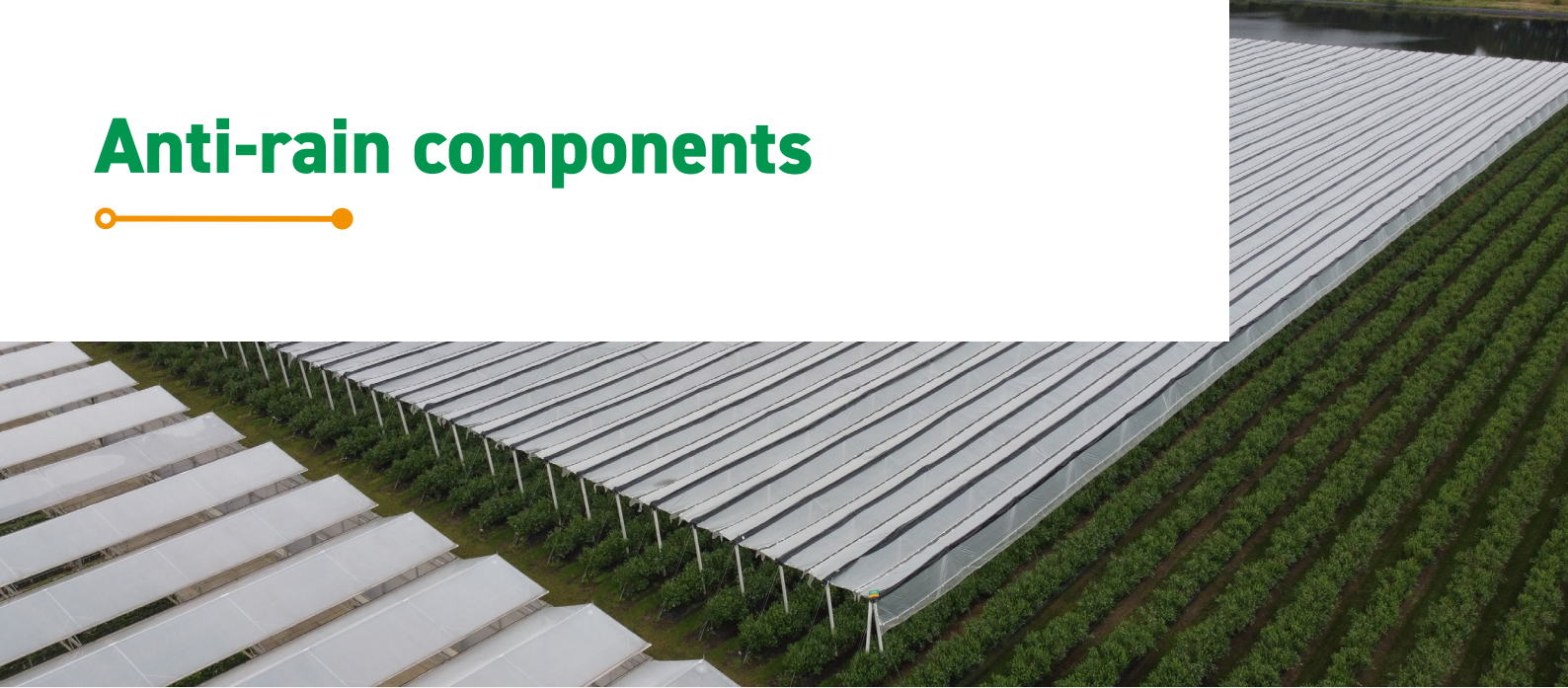
New plans

Next spring, Elze-Lia is going to put the plum field back into use, which will undoubtedly also include a section of red berries. Then FruitSecurity Holland will definitely be in the picture again for a next construction.



They are continuously working on developing better solutions for their existing systems.

Anti-rain components



Plaket WIESEL MOD2017 FSH100949



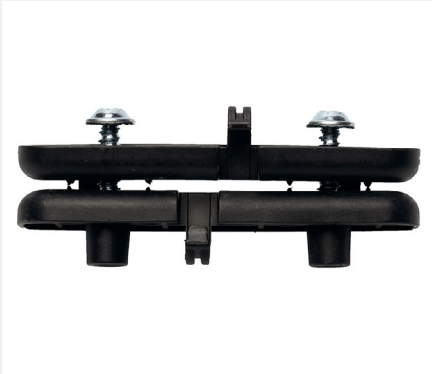
Elastic 6mm FSH100222
Elastiek 8mm FSH100217
Elastic 10mm FSH100224



Legafix 30cm FSH100734
Legafix 50cm FSH100735
Legafix 80cm FSH100736



Thermoplast 0,5m FSH100475
Thermoplast 0,6m FSH101182



Film-roof clip FSH100543



Plaket WIESEL Universal FSH100454

On our YouTube channel
FruitSecurity Holland you can
watch instructional videos as well.



Tools and machinery



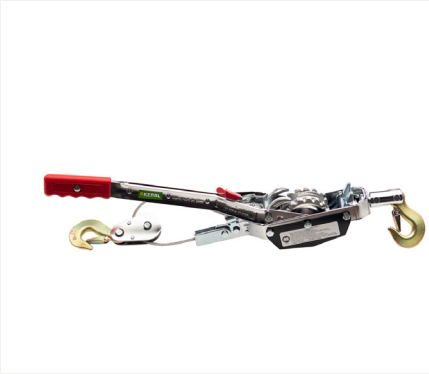
Wire unwinder 3 point FSH100997



Anchortester FSH101046



Impact Wrench panasonic FSH100927



Tightener 2 ton FSH100754



Anchor driller small FSH100996



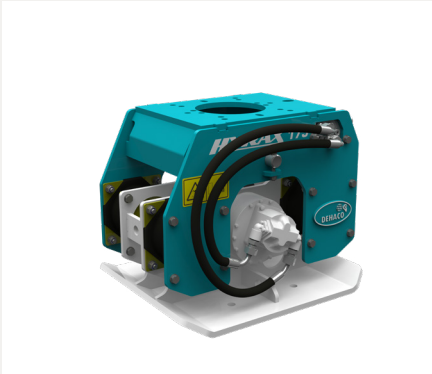
Anchor driller large FSH100995



Cable-tightening jaws 1-5mm FSH101189
Cable-tightening jaws 3-9mm FSH100758



Felco steelcable cutter C12 FSH100752
Felco steelcable cutter C16 FSH100760



Vibrating Block FSH100931



"Good tools are
half the job"

Repair equipment



Brackets and clamps



Double sided tape 50mmx25m FSH100957



Connection clip set FSH101192



Sewing FSH100797



Double clamp galv. set FSH100211



M8 U-bolt for pole 9x9 FSH100265



Tensioning bracket 9x9 FSH101035
Tensioning bracket 10x12 FSH100839



Welding tape 100mm x 33m FSH100945
Welding tape 50mm x 50m FSH100944



Adhesive tape FSH100204



Insulation tape black FSH101458



M10 U-bolt FSH100265



Post holder FSH100925



Post clip 10x12 RVS FSH101038
Post clip 7x7 FSH101409
Post clip 7x8 FSH101489
Post clip 8,5x8,5 FSH100914

Weight is an important issue, especially in hail protection systems. Using heavy wires in a system means that this heavy weight must be carried by the system. As a result, you depend on extra large posts and anchors to carry that weight.

Seven times lighter

Bayco® is seven times lighter than ordinary steel wire and, because of its elasticity, can withstand the weight of hail or wind forces and withstand them easily.

Conductor of heat

Bayco® is a poor conductor of heat, so damaged nets caused by heated wires are a thing of the past. Because of the high quality UV stabilizers and because of the durable, smooth wire, net damage caused by tearing will also not be a problem. In addition to canopy wires, Bayco is ideally suited for tree support. In fact, Bayco also prevents fruit tree cancer.



Bayco 856ZW 2,0mm Black spool 11kg FSH100979
 Bayco 856ZW 2,5mm Black spool 11kg FSH100942
 Bayco 856ZW 3,0mm Black spool 11kg FSH101015
 Bayco 857ZW 4,0mm White spool 12kg FSH100935
 Bayco 856ZW 4,0mm Black spool 11kg FSH100936



Bayco 856ZW 2,0mm Black Hank 11kg FSH100980
 Bayco 856ZW 2,5mm Black Hank 12kg FSH100981
 Bayco 856ZW 5,0mm Black Hank 12kg FSH101017
 Bayco 856ZW 5,2mm Grey Hank 23kg FSH101016



Lashing strap

FSH100919



Rejuvenated tube

Available in various sizes



Foil C-Clip 25mm
 Foil C-Clip 30mm
 Foil C-Clip 45mm

FSH101412
 FSH100917
 FSH101468



Gravel trunk

FSH101044



Tunnel tension strap white

FSH101415



M10 bolt for anti-zinc plate

FSH100928



Extension for concrete post

FSH100272



Wire tensioner

FSH100842



Gripple

Gripple is the market leader in the manufacture of wire connectors and tighteners for the agricultural market. Our products are known for their ease of use, cost efficiency and long service life. With a wide range of products that make installation, maintenance and repair

significantly easier, Gripple is the ideal solution for connecting, reinforcing, tightening and attaching wire to the end post.

Gripple Plus Assortment

Productname	Max. Weight	Wire thickness	Article number
Gripple Plus Small	300KG	1,40mm - 2,20mm Ø	FSH101990
Gripple Plus Medium	400KG	2,00mm - 3,25mm Ø	FSH100827
Gripple Plus Large	600 KG	3,25mm - 4,20mm Ø	FSH101917
Gripple Jumbo	600 KG	2,50mm - 3,15mm Ø	FSH101918

See our complete
Gripple product
range on our website:



GP Fix FSH101929



GP nr. 1 & GP nr. 2 FSH101708



GPAK Plus M

GPAK Plus W is designed to reinforce wooden and concrete posts. This ready-to-use set comes with steel wire in pre-cut lengths, a Gripple Plus Medium, a Twister and a wire protector to protect the wire from abrasion.



VIT-S Set
Available for wooden and metal posts



VIT-S Hook FSH101976



APEX anchors FSH101476
Available in many combinations and lengths

GPAK Plus W

GPAK Plus W is designed to reinforce wooden and concrete posts. This ready-to-use set comes with steel wire in pre-cut lengths, a Gripple Plus Medium, a Twister and a wire protector to protect the wire from abrasion.



WIESEL Frost oven



The Frost oven is the newest and best price technical interesting system of FruitSecurity Holland to fight frost in the orchard.

The Frost oven heats up your orchard powerfully and quickly by using wood or peat briquettes or your own pruning wood. These are fuels that are easy to light and provide a stable, high temperature. Peat warms the orchard 2 to 3.5 degrees in a 2.5 meter radius and wood briquettes can even warm the temperature 2 to 5 degrees.

Also watch the instruction videos on the YouTube channel of FruitSecurity Holland



Frost oven black-plate with ring
Frost oven black-plate steel without ring
Frost oven RVS with ring
Frost oven RVS Without ring

FSH101332
FSH101331
FSH101334
FSH101333



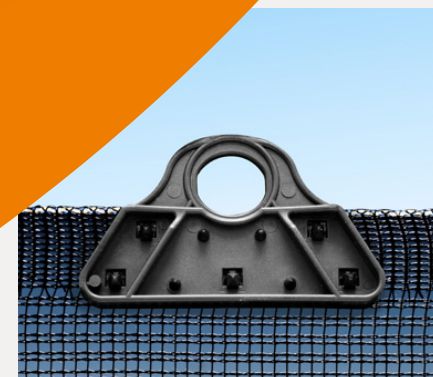
Ruf briquettes 10kg FSH101352



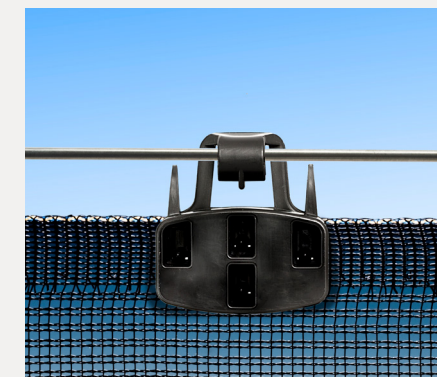


ArnoPlast

FruitSecurity Holland has expanded its product range with the materials from the Italian company Arnoplast. FruitSecurity Holland knows Arnoplast for many years and has worked together in the past. Arnoplast's materials are a nice, extra addition to the FruitSecurity Holland assortment:



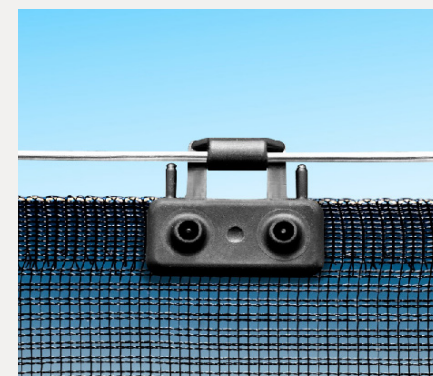
Nina net cam clamp FSH101704



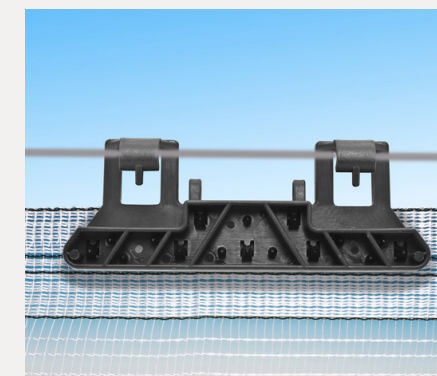
K4 net cam clamp FSH101709



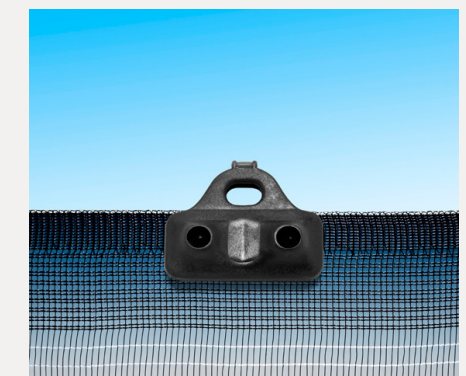
Magnum plaket FSH100749



Ancoraplack clip FSH101708



Ancoraplack clip 2 FSH101476



2-pointed clip FSH101383



Post cap Latina 7x7/7x8 FSH101687



Post cap Sphera FSH101686



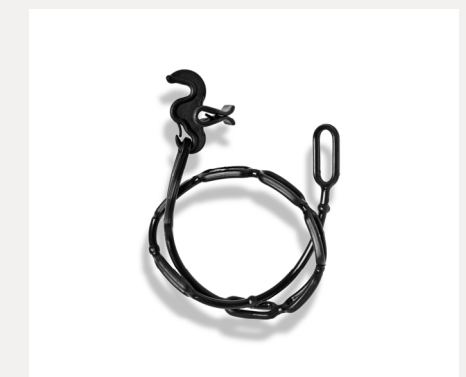
Post Cap Ø12cm FSH101531
Post Cap Ø4cm FSH101532



H-clip FSH101705



Stop net FSH101705



Net Ancora FSH100940



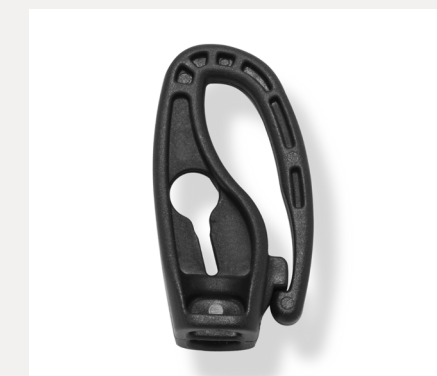
Post cap for iron post 40/60/65cm FSH101464



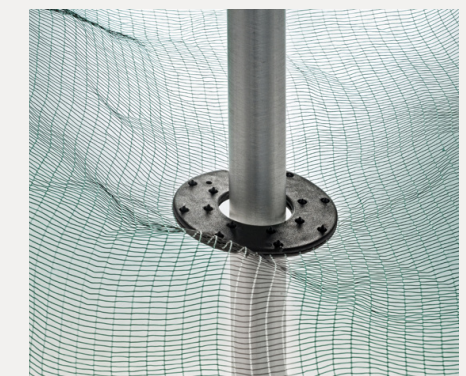
Post cap Champignon FSH101673



Self-locking spring FSH101735



Hook (elephant) FSH101736



Ring-shaped clip (diam. 45mm) FSH101711



CarProtection Holland

Hail can cause enormous damage to the vehicle fleet of dealer holding companies, car rental companies or lease companies. Windows can break and hail can cause huge dents in cars. Your fleet can be worth a lot less in a matter of minutes. It is often not profitable to have the damage repaired and there are frequent arguments with insurers about the policy conditions.

CarProtection Holland has the perfect protection for your car fleet. With the car system of CarProtection Holland your cars are well protected against heavy hail. This way your car fleet will remain unaffected and you will not suffer any capital loss.

Turtle Car System

The Turtle Car System is an innovative solution for the automotive industry. The Turtle Car Canopy has been specifically developed as a hail net over cars. The cars can easily be placed under the system. Also, it is always possible to see the cars.

Powerlastic auto-overlapping

The Powerlastic car system is an innovative solution for the automotive industry. The Powerlastic car roof has been specially developed as a hail net for cars. The cars can easily be placed under the canopy. Also, it is always possible to have a good look at the cars with this car roof.



Start net clip

FSH101697



Enokit clip

FSH101727



Foil tube clamp 15-40cm

FSH101767



Wire clamp 70

FSH101733



Wire clamp 50

FSH101734

**Contact us and we will be
happy to advise you!**

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