

FENOX

**FENOX CATALOG
TRELLISING RANGE
AND PLANTS
ACCESSORIES**



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FENOX

Trellising range and plants accessories



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**AT FAYNOT, quality is not just a word, it's a philosophy.
Everything is done to keep it at the highest level.**

The choice of materials, design and manufacturing of the products makes it possible to offer a very high level of quality and brings the guarantees of durability required for each item.

The company has an integrated laboratory equipped with the latest technology. It performs tests to ensure the quality of each product.

The characteristics and quality of the products are constant, which guarantees item durability and carry installation processes.

State of mind

Faynot is a century old family business. The company's performance is based on a state of mind that is passed on from generation to generation.

- Innovative spirit: research and development at the heart of its priorities, materialized by numerous patents.
- Service spirit: a commercial policy based on listening, advising and providing technical assistance to customers.
- Open-minded: respect for all the players who contribute to its success, customers, employees, suppliers.
- Entrepreneurial spirit: Faynot is a manufacturer and all of its factories are based in France.



FAYNOT, a family business on a human scale since 1912

FAYNOT is a 100% family-owned medium sized business. It wishes to remain on a human scale, and therefore develop with mastery and regularity.

Its industrial and commercial development has always been done in this way, with the constant objective of perpetuating its activities, while respecting its staff, its customer and suppliers.

The management and managerial staff strive to be close towards all collaborators of the company.

FAYNOT, an industrial company

FAYNOT is an industrial company renowned for its know-how and innovative products.

The production workshops are based in France.

FAYNOT, an exporting company

FAYNOT exports its products to many countries.



FAYNOT: a century-old company 1912-2012



Manufacturing plant - Faynot Industrie

Ets Faynot Industrie SA

Thilay in the Ardennes region

- Metal wire working (bending, threading, forging).
- Manufacture of ground anchors.
- Assemblies, packing.
- Cold stamping (manufacture of surveying nails).
- Storage, logistics and shipments.



Manufacturing plant - Faynot II

Ets Manquillet sarl

Thilay in the Ardennes region

- Sheet metal working (cutting - stamping).
- Manufacture of ground anchors, tube work (rib welding and collar).
- Production of stamping cutting tools.
- Polyester powder coating.
- Assemblies, packing (mechanical fixings, etc.).
- Services.



Manufacturing plant - Faynot III

CIS Compagnie Industrielle de la Semoy sarl

Thilay in the Ardennes region

Plastics factory:

- Resin molding (polymer concrete for marker heads).
- Plastic injection molding.
- Assembly, drilling (granite heads, special markers).
- Impact resistance test of markers heads (polyroc, plastic).

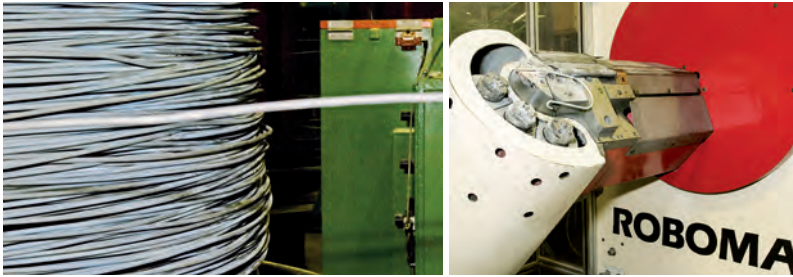


Control and testing laboratory

- Mechanical tests (tensile, hardness, bending).
- Metrology (dimensional checks).
- Tests to determine the strengths of the assemblies.
- Impact resistance tests.
- Corrosion tests (Kesternich).
- Product implementation tests.
- Markers (anchors) pulling test in the ground.
- Various quality controls.

OUR EXPERTISE

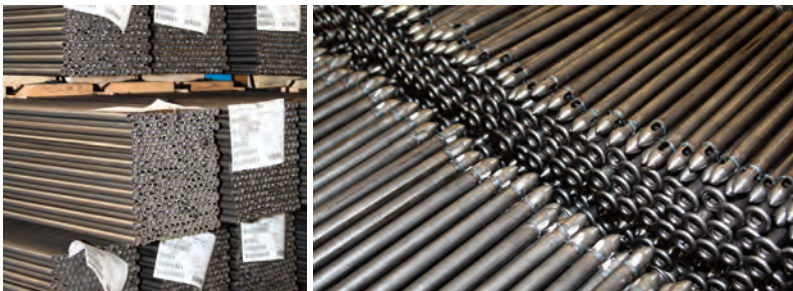
Recognized know-how in the following fields:



Metal wire work: wire bending cold stamping, rolling thread, pointing...
(Manufacturing plant - Faynot Industrie).
The bending of the metal wire enabled Faynot to produce items for the building sector, topography (manufacture of cadastral landmarks for surveyors), viticulture and arboriculture.



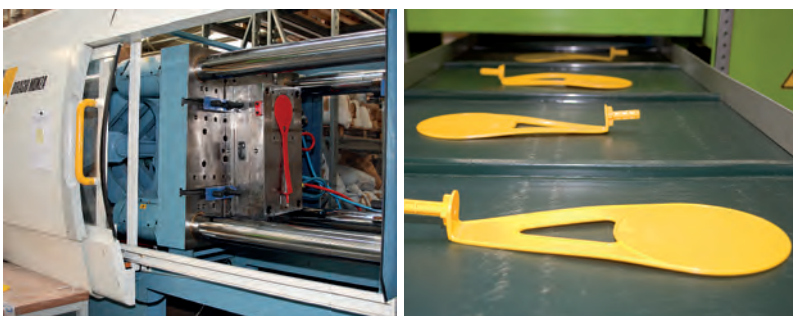
Sheet metal working: cutting, punching, bending, stamping, profiling...
(Manufacturing plant - Faynot II - Manquillet).
Faynot also produces specific items and parts. These types of productions are perfectly mastered. The company produces tools and can manufacture from the indications and plans of its customers a large number of special parts and this in various materials (various steels, stainless steels, aluminium alloys...).



The work of the metal tube: cutting, deformation, welding, assembly...
(Manufacturing plant - Faynot II - Manquillet).
A unique know-how, with very high quality steel.



Hot dip galvanizing:
(SMA - Société Métallurgique des Ardennes, Subsidiary of Faynot).
Formation of a coating by immersion of steel parts in a bath of hot zinc.
Allows optimum protection of steels against corrosion.
Reference standard: NF EN ISO 1461.
More information on page 91.



The plastics industry: plastic injection and extrusion, polymer molding, ...
(Manufacturing plant - Faynot III - Compagnie Industrielle de la Semoy).
The molding of polymer concrete parts offers the possibility of making marker heads so-called "Polyroc", as solid as granite. The plastics processing plant is completed by an integrated plastic injection and extrusion workshop and allows a large number of plastic parts to be made (allotment markers, marker heads, plastic pole...).

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- Our service will guide you towards the most suitable solution to your need.



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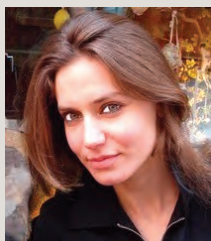
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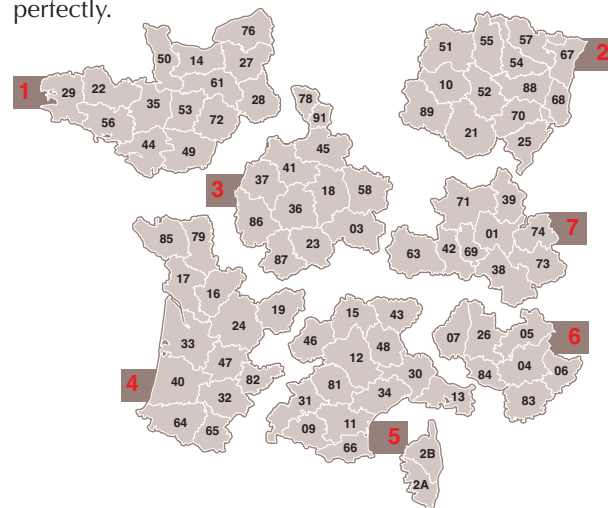
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THE SALES NETWORK

On the field, our technical sales representatives share the whole France territory and concerning other countries, we also have a team dedicated to foreign customers as well as sales representatives (in Italy and hispanic countries).

True technicians, knowing perfectly the products and their specificities, they are able to intervene directly on the sites to bring you technical assistance. The stability of the sales force is a major asset, each salesperson knows his customers perfectly.



Product range



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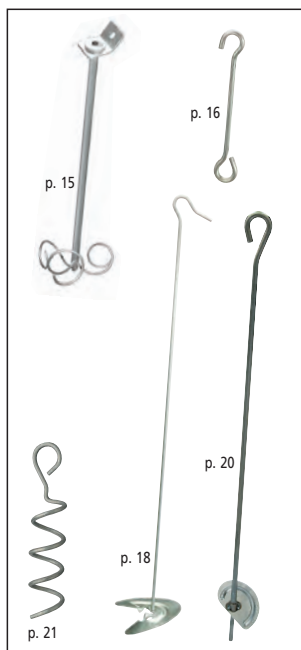


Various fixings and equipment

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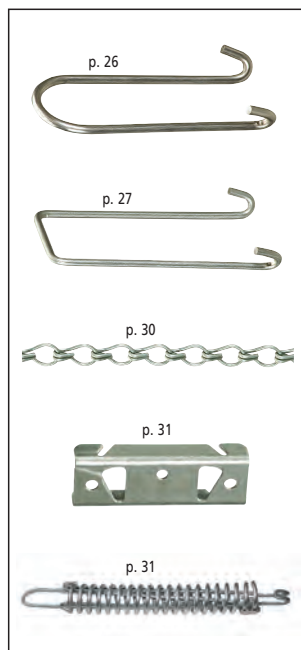
Trellising range A to Z

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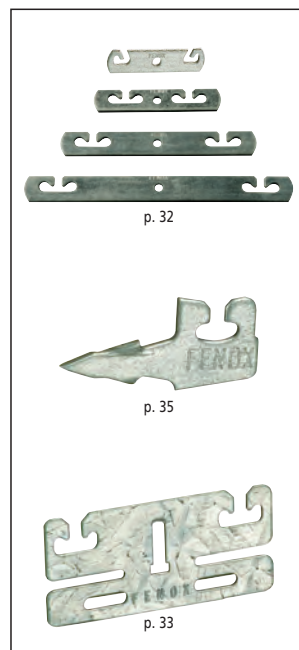
Anchors

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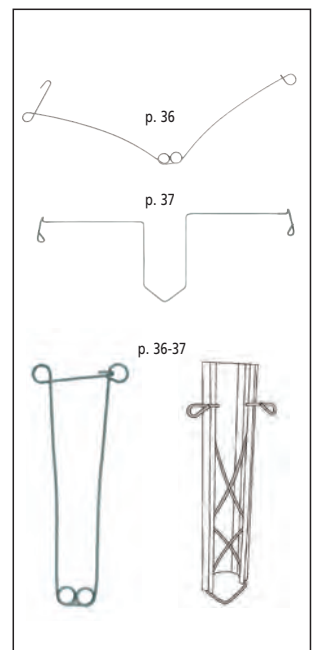
Row ends

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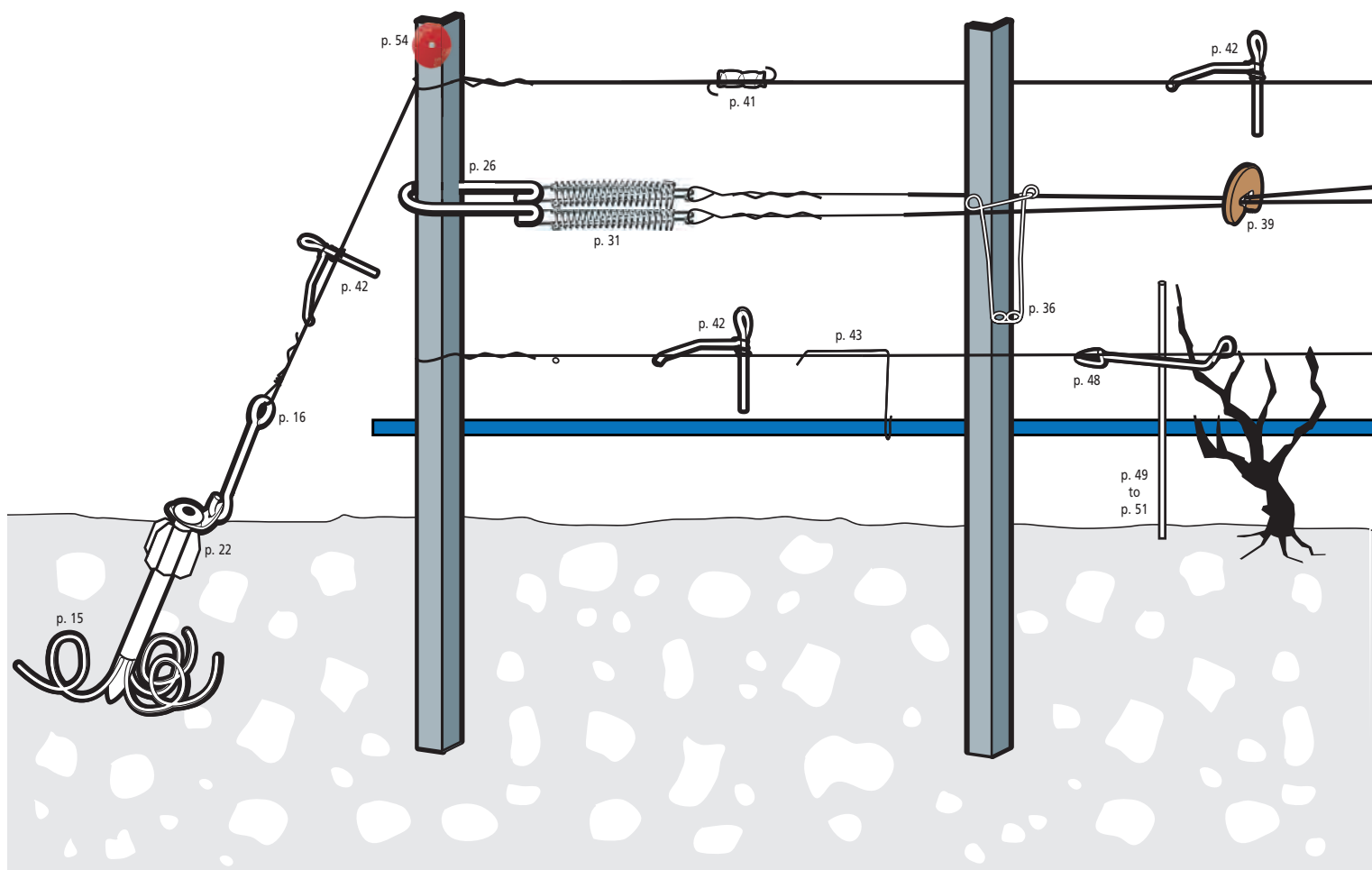


Accessories
for moveable wires

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Spreaders

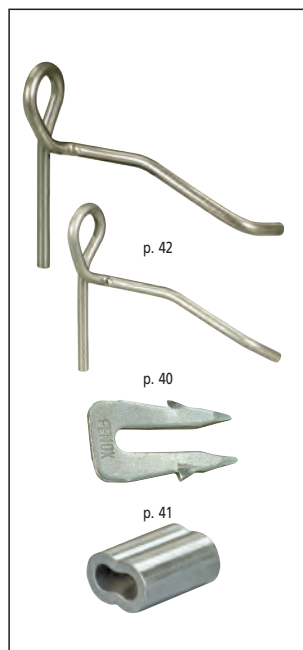


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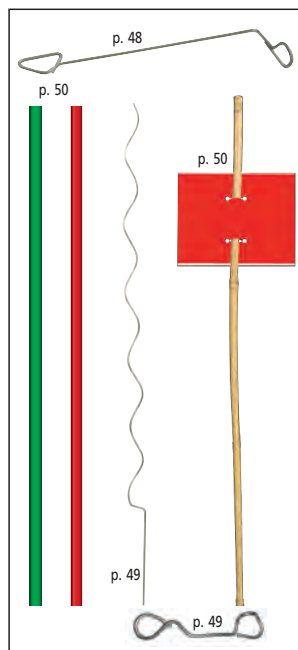
Moveable wires clips

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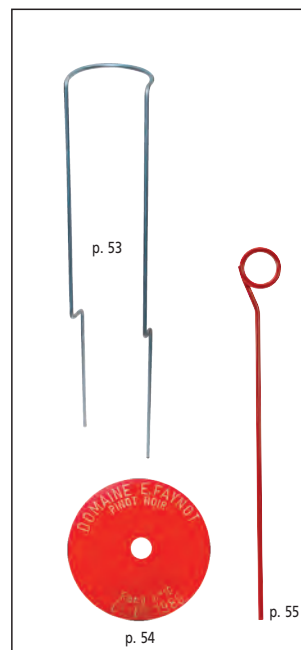
Accessories
for fixed wires

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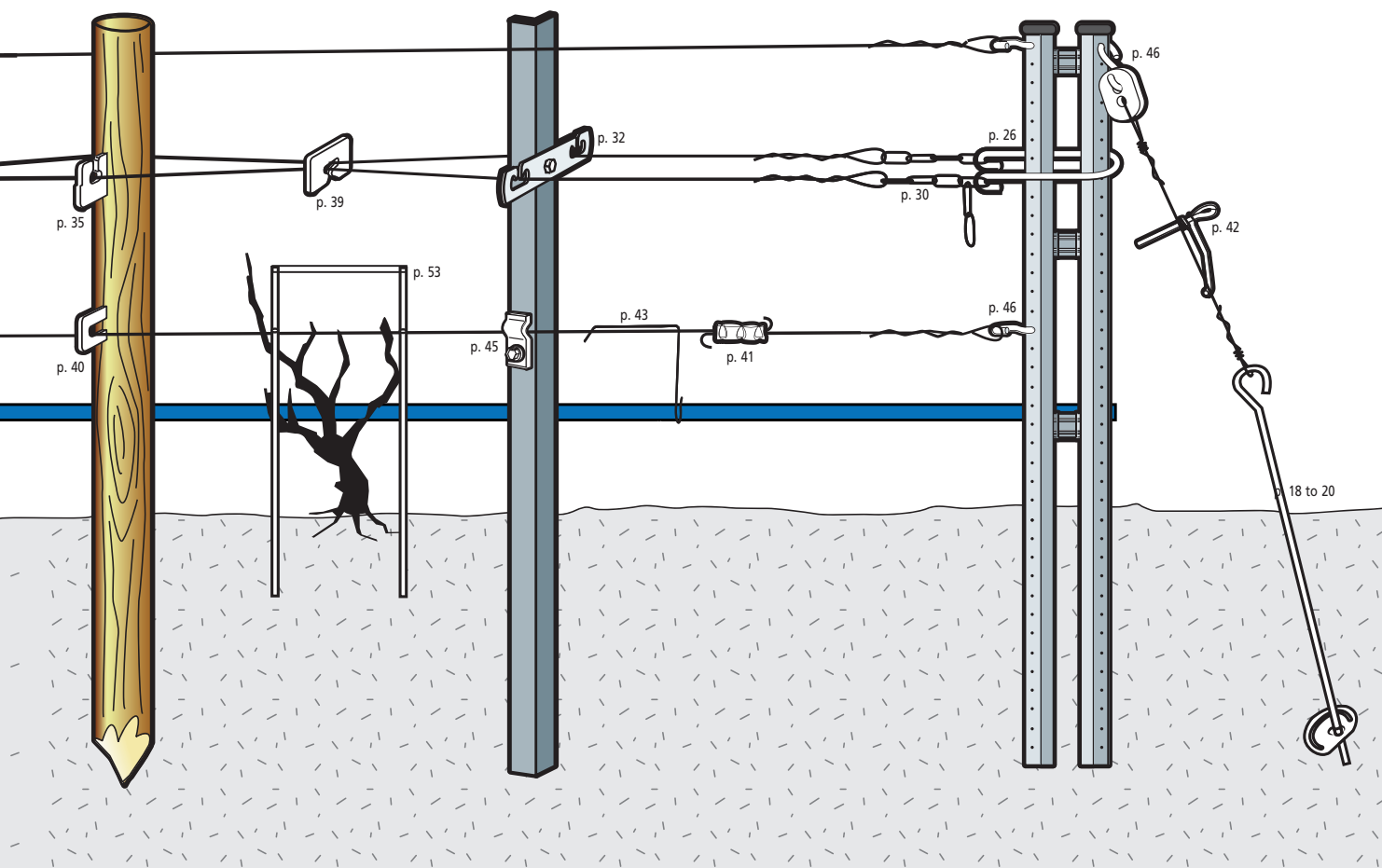


Stakes

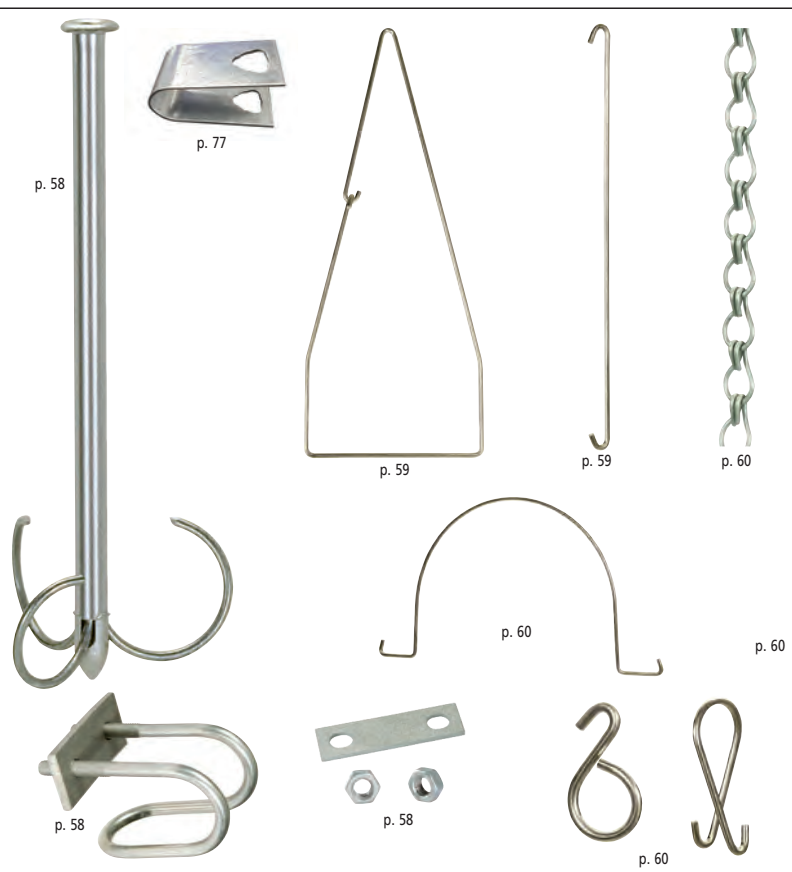
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Protections
and identifications



Greenhouse accessories



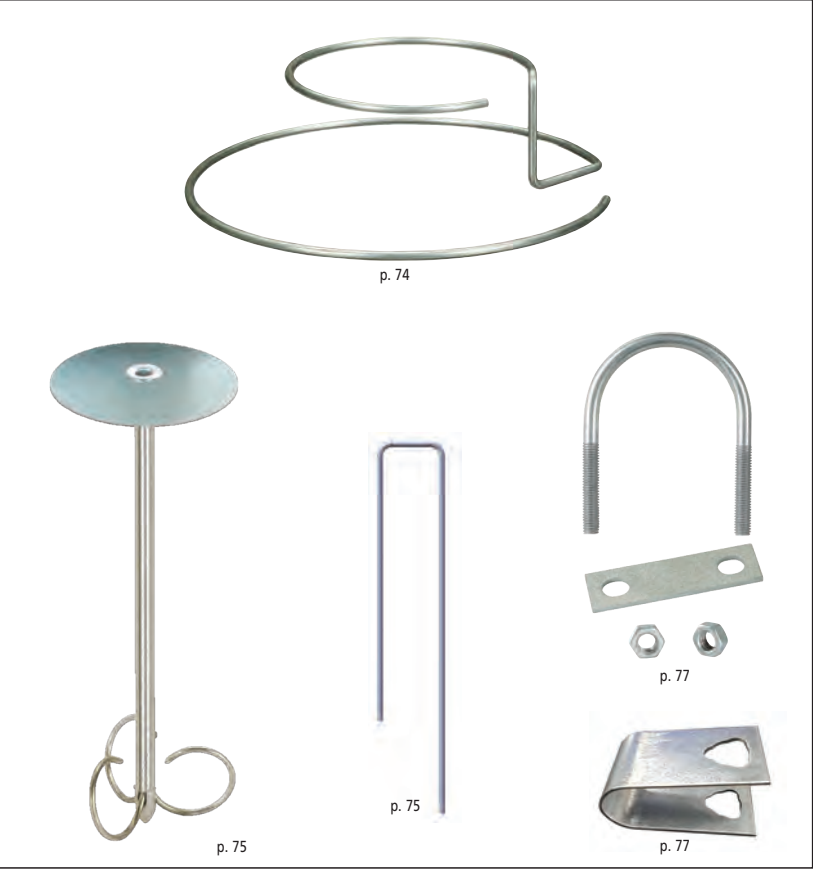
Arboriculture accessories



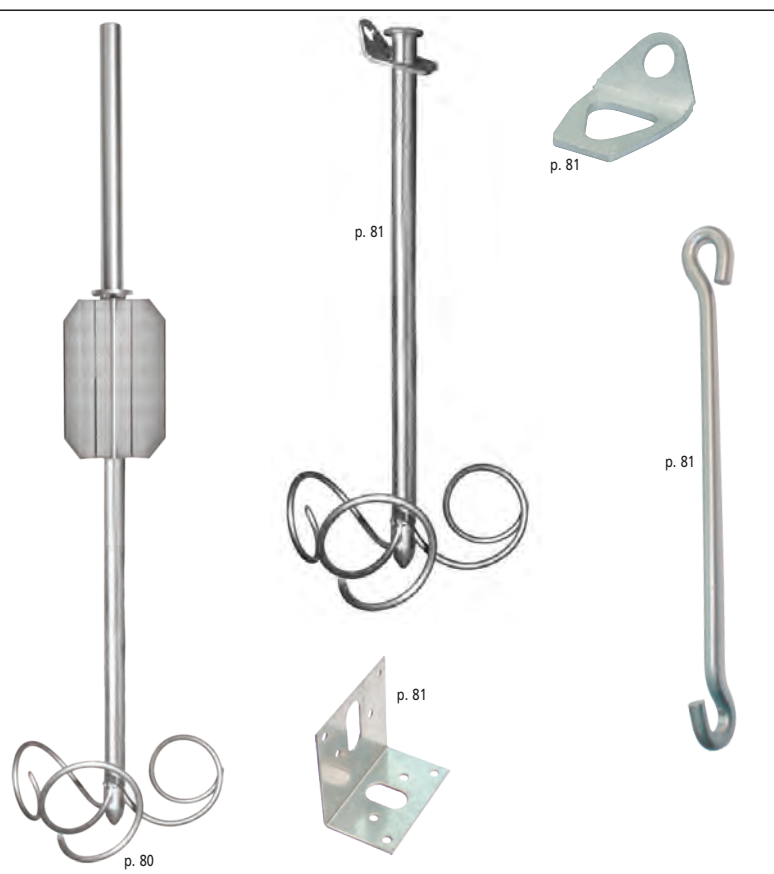
Accessories fences / grids



Plants and garden accessories



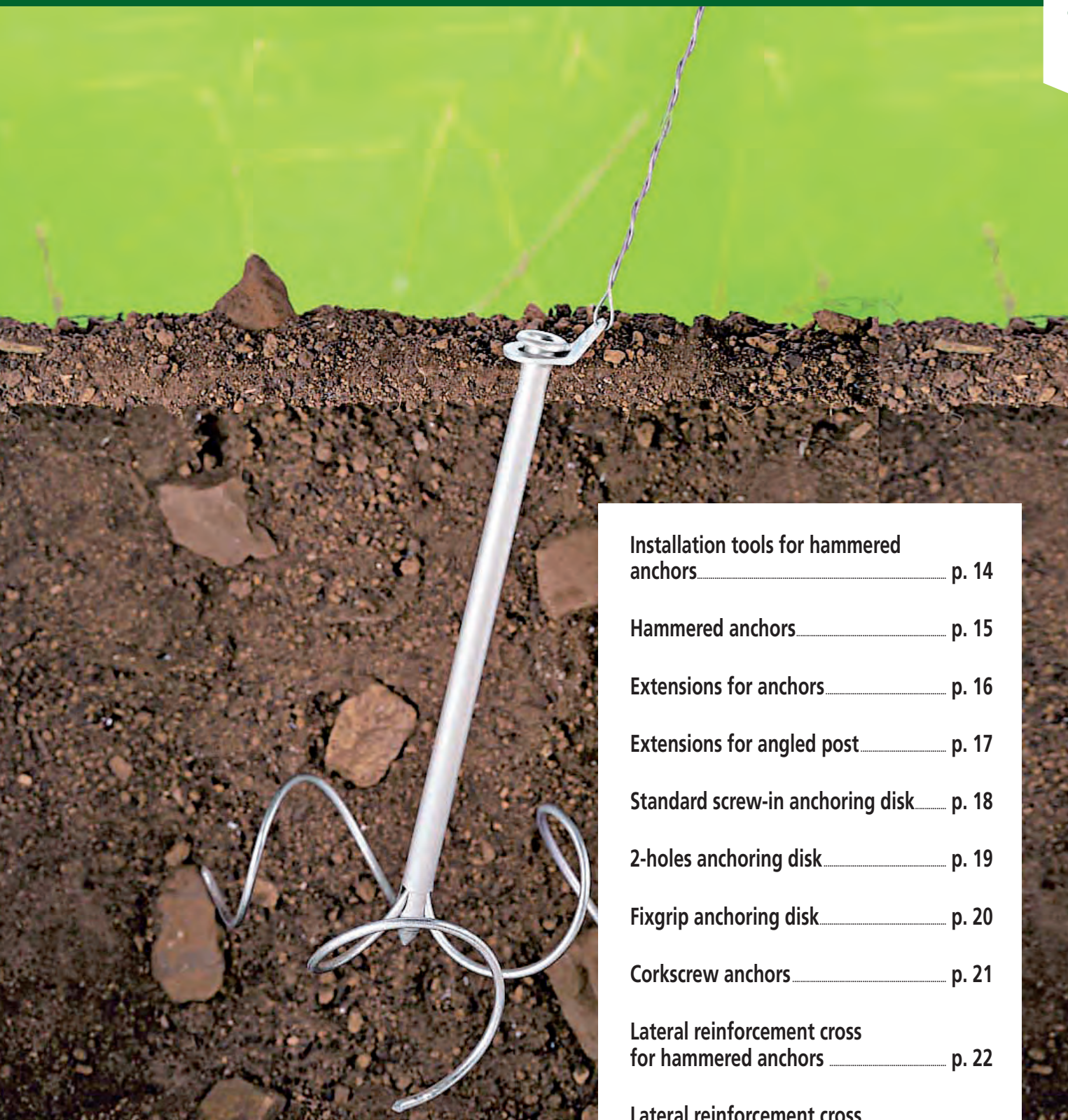
Furniture fixings



Fixings and equipments



Anchors



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Installation tools for hammered anchors

Driving tool

Essential to drive down the anchor in the ground, prevents to damage the collar of the anchor and the anchor rods from rising.

	For anchor	Reference	Packaging
Anchor	350 mm - Ø 17 mm	130-047	1
Anchor	500 mm - Ø 17 mm	80-044	1
Anchor	600 mm - Ø 17 mm	180-044	1
Anchor	1000 mm - Ø 21 mm	51-044	1
Anchor	1500 mm - Ø 21 mm	1502-044	1



Sleeve

Essential for deploying the anchor rods and locking the anchor securely in the ground.

	For anchor	Reference	Packaging
Anchor	350 mm - Ø 17 mm	20350-047	1
Anchor	500 mm - Ø 17 mm	20510-047	1
Anchor	600 mm - Ø 17 mm	20610-047	1
Anchor	1000 mm - Ø 21 mm	201020-044	1
Anchor	1500 mm - Ø 21 mm	1501-044	1



Ground plate

Hot-dipped galvanized steel.
Essential to prevent the anchor sinking into the ground during driving.

Type	For anchor	Reference	Packaging
Standard	Ø 17 mm	1713-044	1
Split	Ø 17 mm	1714-044	1
Split	Ø 21 mm	2017-044	1



Standard plate



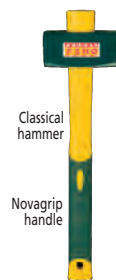
Split plate

Hammer and handle

Classical hammer for the installation of the anchor in the ground. The claw-hammer designed for preparing the ground before driving the anchor.

The Novagrip handle provides a remarkable convenience in use. The handle and the hammer are delivered disassembled.

Description	Reference	Packaging
Classical hammer without handle	1251-047	1
Claw-hammer without handle	1500-047	1
Wooden handle alone	1502-047	1
Novagrip handle alone	1501-047	1



Classical hammer



Novagrip handle



Claw-hammer



Novagrip handle

Pneumatic hammer

Pneumatic hammer for easy driving anchors
Supplied with chisel for the adaptation of driving tool and sleeve.

Description	Reference	Packaging
Pneumatic hammer + chisel*	90-044	1

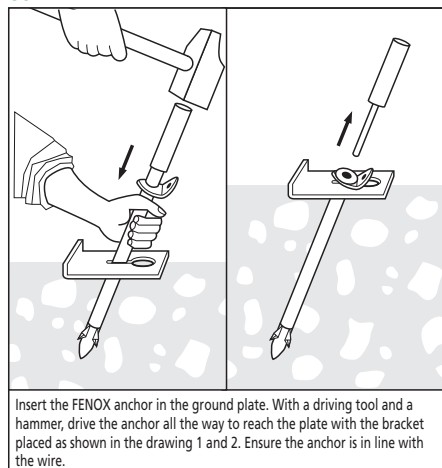
*Contact us for delivery time.



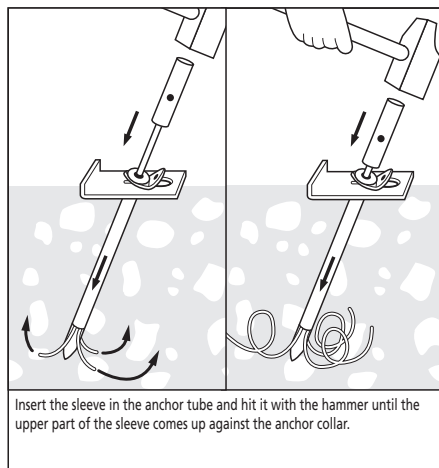
Pneumatic hammer

Chisel

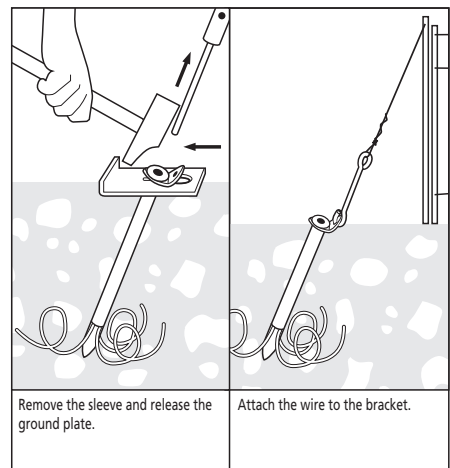
USE:



Insert the FENOX anchor in the ground plate. With a driving tool and a hammer, drive the anchor all the way to reach the plate with the bracket placed as shown in the drawing 1 and 2. Ensure the anchor is in line with the wire.



Insert the sleeve in the anchor tube and hit it with the hammer until the upper part of the sleeve comes up against the anchor collar.



Remove the sleeve and release the ground plate.

Attach the wire to the bracket.

Standard hammered anchors

Made of hot-dip galvanized steel (inside and outside) according to NF EN ISO 1461 (see page 91).

Easy to install using a simple hammer, the hammered anchor with its three anchoring rods deploying in the ground offers unrivalled resistance to pulling out.

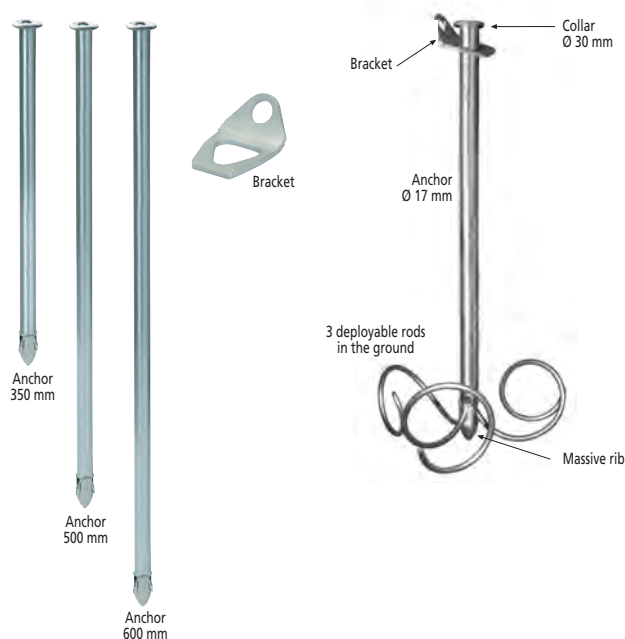
Thanks to a massive rib in high resistant steel who allows an easy placement, the anchor is particularly recommended for hard and stony soils.

A hot-dip galvanized steel bracket, placed under the collar of the anchor allows rapid attachment of the wire or an extension.

Description	Reference	Packaging
Anchor 350 mm* - Ø 17 mm with bracket	350-044	50
Anchor 500 mm - Ø 17 mm with bracket	510-044	50
Anchor 600 mm - Ø 17 mm with bracket	610-044	50
Extra bracket	300-044	10

*Used for very hard soils.

Packaging: 5 bags of 10 anchors in a sack.



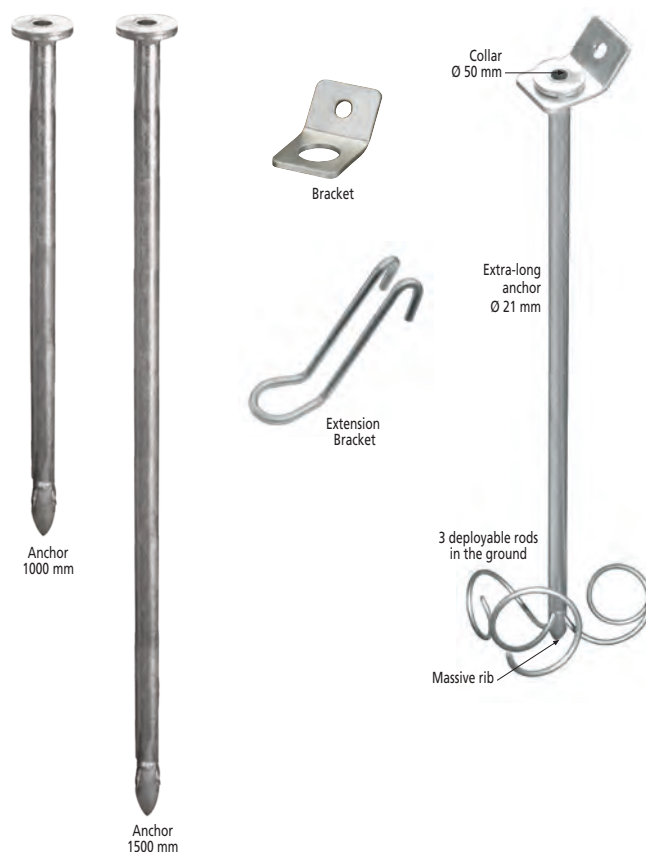
Extra-long hammered anchors

The extra-long anchor have the same mechanical features as the standard anchor. Its diameter of 21 mm and its great length make it possible to reach strata deeper in the ground.

Description	Reference	Packaging
Anchor 1000 mm - Ø 21 mm	1020-044	25
Anchor 1500 mm - Ø 21 mm	1500-044	5
Hot-dip galvanized steel bracket	8040-044	5
Galvanized extension bracket	44-042	10



Anchor in situation. Scan to view the video.



Additional accessories

Extensions



Page 16

Lateral reinforcement cross



Pages 22-23

Tube clip



Page 58

Root ball anchor



Page 62

Wire holder



Page 69

Extensions for anchors

Extensions

Made of galvanized steel wire. Designed to fit the bracket.
Enables the trellis to withstand mechanical and corrosive aggression at ground level.
Special small loops available, for better tensile strength.

Length	Standard reference	Small curls reference	Packaging
200 mm	400290-044	399200-044	50
300 mm	400300-044	399300-044	50
415 mm	400510-044	399415-044	50
500 mm	400520-044	399500-044	50
600 mm	400600-044	399600-044	50



Standard extension

Small loops extension



Standard extension. Scan to view the video.

"High strength" extension

Galvanized steel "High strength" extensions used in the same way as standard model but capable of dealing with much higher strength demands.

Length	Reference	Packaging
200 mm	500290-044	50
415 mm	500510-044	50
Locking plate	533503-044	10

Different lengths on request.



Locking plate

High strength extension

Installation



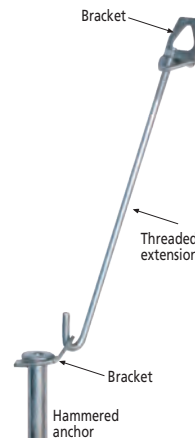
High strength extension. Scan to view the video.

Adjustable extension

Extension with M8 x 50 mm thread, associated with a Bracket, allowing adjustment or for tensioning wire.

Description	Reference	Packaging
Threaded extension L200*	397200-044	50
M8 galvanized nut H13	2608-016	100
Bracket	300-044	10

**Different lengths on request.*



Bracket

Threaded extension

Bracket

Hammered anchor



Threaded extension with Bracket.

Additional accessories

Hammered anchors



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Anchor rod



Pages 18 to 20

Crimping sleeve



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Tensioner



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Ratchet strap



Page 63

Extensions for angled post

High strength adjustable extension

Galvanized steel extension with a locking plate (included) on the loop, with an M8 thread (2 nuts included). Positioning in the existing hole of the angled post.

Description	Reference	Packaging
Threaded extension set L200	450201-044	50
Threaded extension set L400	450401-044	50

Locking plate and 2 nuts included (not assembled).



High strength adjustable extension on angled post.

Twin extension for angled post

Galvanized steel extension, with twin arms for optimal resistance. Adapted to 50 x 50 mm angled post with Ø 9 mm hole.

Description	Reference	Packaging
Twin extension L300	398300-044	50

Other lengths on request.



Twin extension on angled post.

Additional accessories

Crimping sleeve



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Tensioner



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Ratchet strap



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Standard screw-in anchoring disk

Standard screw-in anchoring disk

Manufactured in a very high tensile steel, the Fenox ribbed anchoring disk has hot-dip galvanized protection.

The Ø 120 mm disk fit the Ø 6 mm rods, available in 3 lengths.

It is specifically suited for loose ground.

Description	Reference	Packaging
Disk Ø 120 mm	122-044	50
600 mm rod	60600-044	10
750 mm rod	60750-044	10
900 mm rod	60900-044	10
1200 mm rod	61200-044	10
Locking plate (delivered with the rod)	533503-044	10



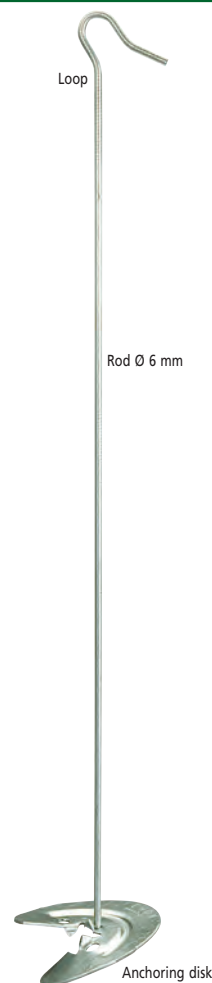
Standard screw-in anchoring disk. Scan to view the video.



Locking plate



Anchoring disk
Ø 120 mm

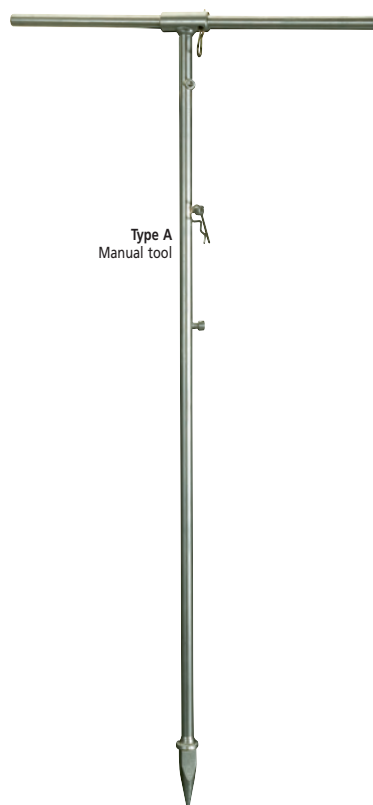


Installation tools

Type A: Manual T-shaped setting tool with a drive square at the end, specially designed for Fenox disk.

Type B: Tool to be installed on a mechanical or hydraulic auger with a female 42 mm hexagonal drive.

Description	Reference	Packaging
Type A - Manual tool	102048-044	1
Type B - Rabaud tool for mechanical auger	105000-044	1
Type A - Manual tool for 1200 mm rod	-	1



Type A
Manual tool



Type B
Rabaud tool

Additional accessories

Extensions



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Lateral reinforcement cross



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Ratchet strap



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2 holes helical anchoring disk

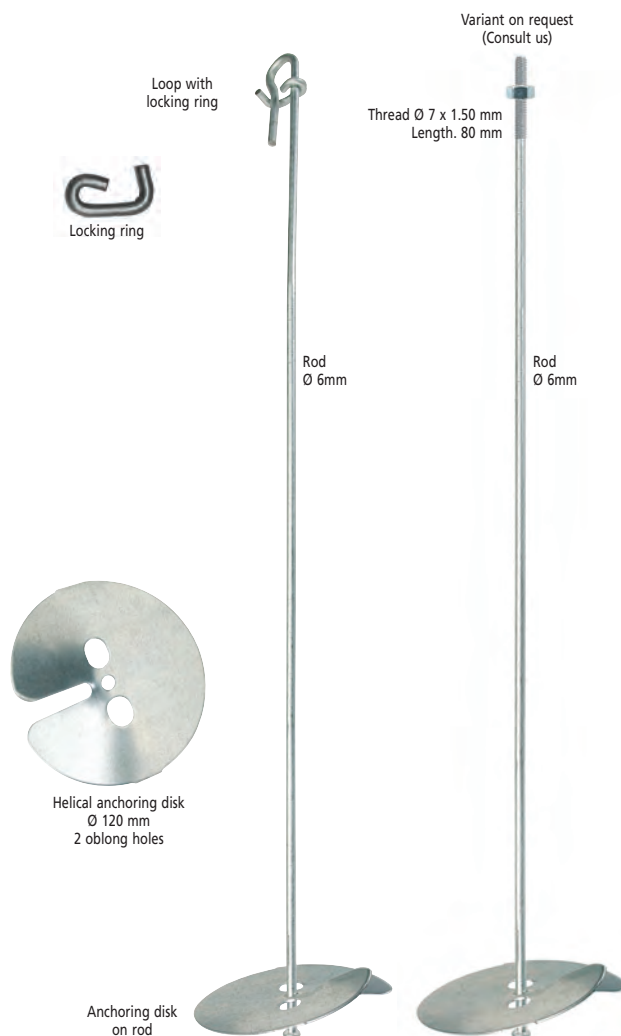
Manufactured in a very high tensile steel, the helical anchoring disk has hot-dip galvanized protection.
The Ø 120 mm disk fit the galvanized steel rod, available in 4 lengths.
Possibility of making on request a thread on the rod instead of the loop. It is specifically suited for loose ground.

Description	Reference	Packaging
2-holes helical anchoring disk	123-044	50
600 mm rod	630600-044	10
750 mm rod	630750-044	10
800 mm rod	630800-044	10
900 mm rod	630900-044	10
Locking ring*	630000-044	10

*Delivered separate not assembled.



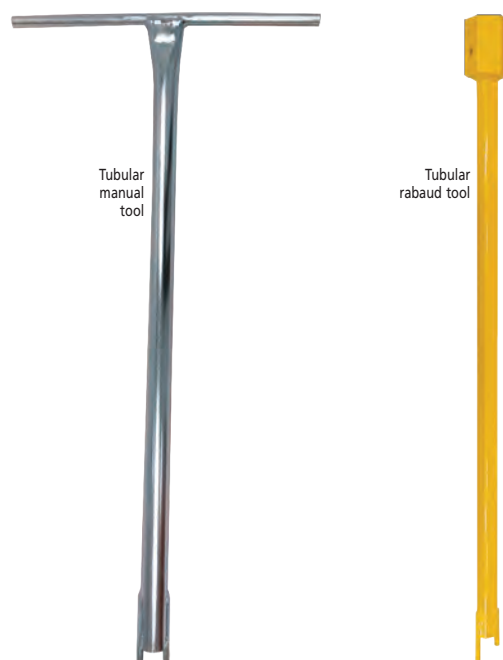
Helical anchoring disk with tubular driving tool. Scan to view the video.



Tubular driving tool for 2-holes disk

Tubular shape to insert the anchor rod inside, and having 2 lugs for driving the disk.

Description	Reference	Packaging
Tubular manual tool	102050-044	1
Tubular Rabaud tool for mechanical auger	102051-044	1



Additional accessories

Extensions



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Lateral reinforcement cross



Pages 22 - 23

Ratchet strap



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Fixgrip anchoring disk



Fixgrip anchoring disk

Patented System, fixgrip allowing to make inseparable (monobloc) a rod and an anchoring disk, thus facilitating handling and storage.

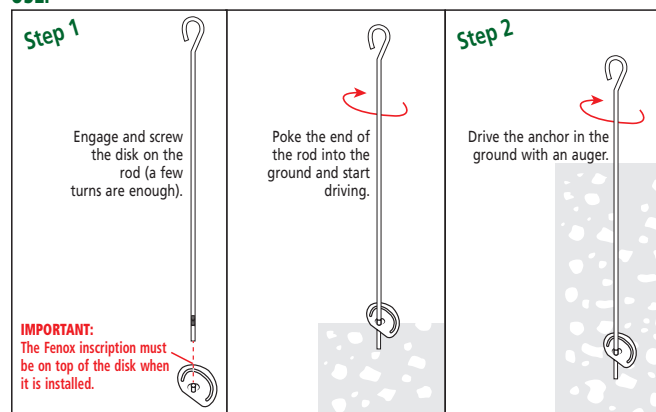
The Fixgrip anchoring disk is composed of:

- a Ø 12 mm rod with on one side a hooking loop serving as a drive (no tools are necessary for driving), and on the other side a conical thread for assembling a disk,
- a FIXGRIP disk with a welded and threaded sleeve for screwing the rod.

Description	Coating	Reference	Packaging
Helical Fixgrip disk Ø 120 mm	Raw steel	120121-044	100
Flat Fixgrip disk Ø 100 mm	Raw steel	120100-044	100
Flat Fixgrip disk Ø 120 mm	Raw steel	120120-044	100
600 mm rod	Galvanized	120601-044	100
850 mm rod	Galvanized	120851-044	100
1000 mm rod	Galvanized	121001-044	100

Rod in raw steel on request.

USE:



Fixgrip anchor during driving. Scan to view the video.

Installation tool

For auger with splined shank.

The Fixgrip driving loop fits into the tool groove.

Description	Reference	Packaging
Fixgrip driving tool for auger with splined outlet 20/16*	120000-044	1

*Other size on request.



Additional accessories

Extensions



Page 16

Lateral reinforcement cross



Pages 22 - 23

Ratchet strap



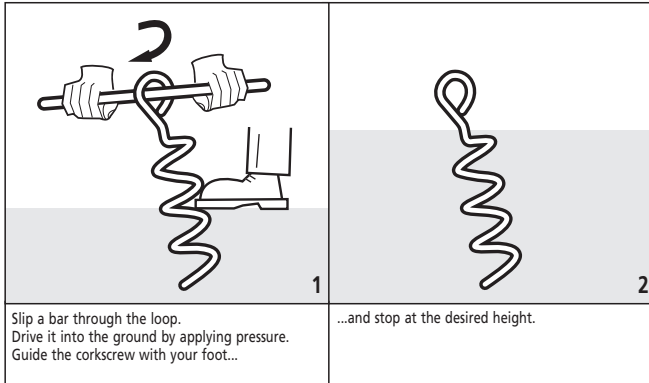
Page 63

Reusable corkscrew anchors

Corkscrew shaped anchors are well known for their simplicity. Reusable, they are suitable for loose ground (limited tensile resistance).

Dim. (Ø x L)	Coating	Reference	Packaging
Ø 5.2 x 150 mm	Galva	55150-044	50
Ø 7 x 170 mm	Galva	57170-044	50

USE:

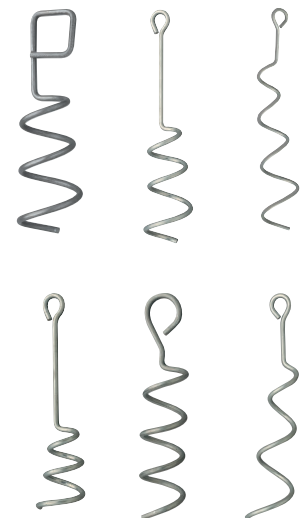


Conical corkscrew anchors

The principle of the conical corkscrew anchor is similar to that of a classic corkscrew.

Main advantage: better pulling resistance.

Dim. (Ø x L)	Coating	Reference	Packaging
Ø 5.2 x 150 mm	Galva	55151-044	50
Ø 7 x 170 mm	Galva	57171-044	50



Possibility of making other lengths and shapes.

Additional accessories

Extensions



Page 16

Lateral reinforcement cross



Pages 22 - 23

Ratchet strap



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Lateral reinforcement cross for hammered anchors



Reinforcement cross for hammered anchors

Allows to increase the lateral resistance of the anchors in the ground, mainly if they are not installed in the direction of the tensile force. Prevent shearing of the ground by the anchor, installed vertically, and which tends to take the direction of the wire.

The cross is made up of 2 identical parts which are assembled on the anchor body, with their slots fitting into each other.

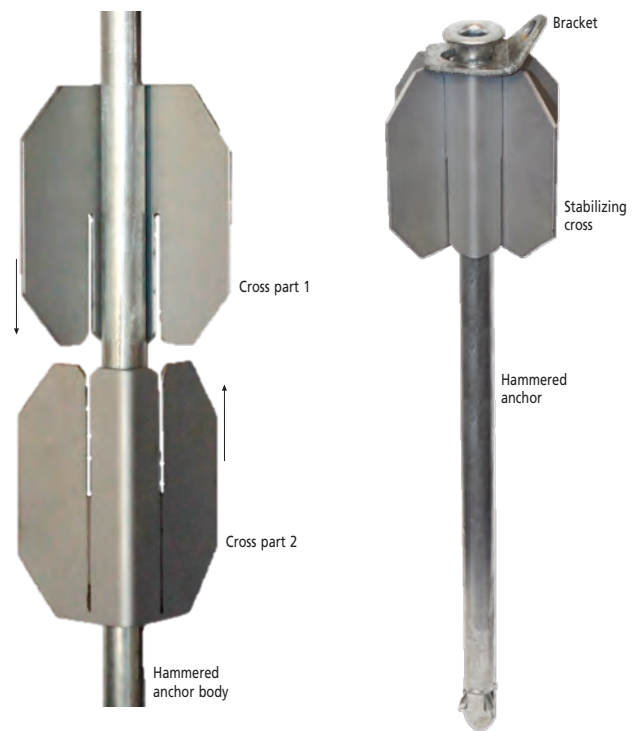
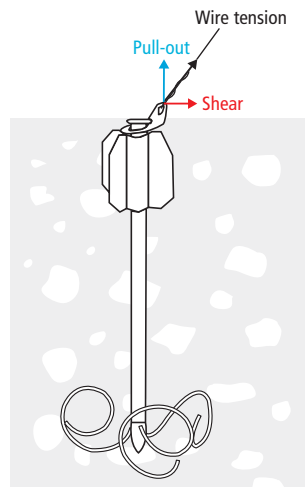
Manufactured in hot-dip galvanized steel according to standard NF EN 10346.

For hammered anchor	Cross height	Reference	Packaging*
Hammered anchor - Ø 17 mm	100	17100-044	50
Hammered anchor - Ø 21 mm	100	21100-044	50

*50 crosses (100 half crosses).



Implementation video.



USE:



Put the first part of the cross on the anchor body.



Put the second part on the anchor body but in the opposite way of the first one.



Slide the slots into each other.



The 2 parts form a cross.



Start to drive the anchor in the ground with the driving tool.



Put the ground plate between the Bracket and the cross and finish the installation.



Use the sleeve to deploy the rods in the ground.



Remove the split plate.

Lateral reinforcement cross for anchoring disk



Reinforcement cross for anchoring disk

Allows to increase the lateral resistance of the anchors in the ground, mainly if they are not installed in the direction of the tensile force.

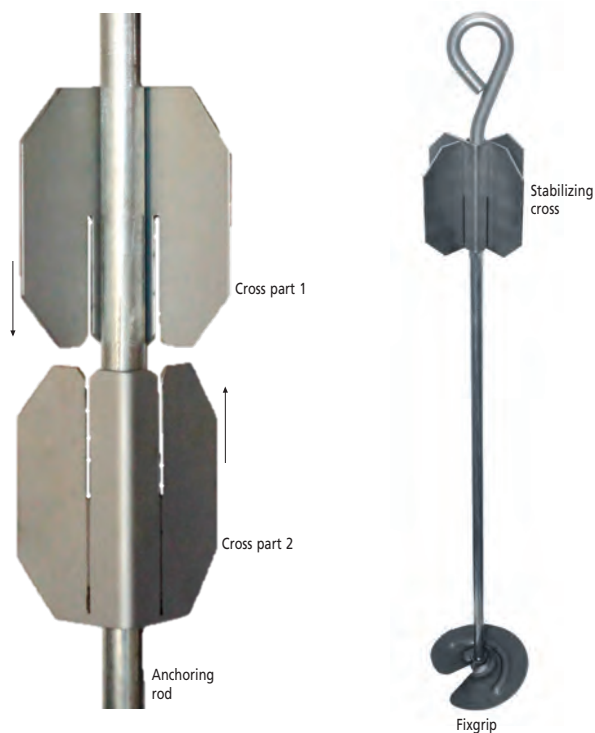
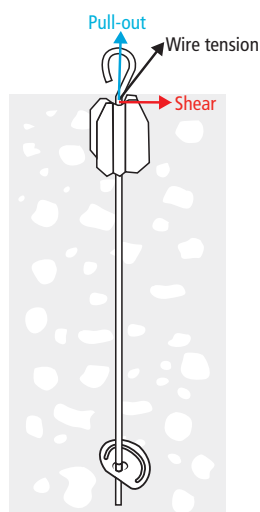
Prevent shearing of the ground by the anchor, installed vertically, and which tends to take the direction of the wire.

The cross is made up of 2 identical parts which are assembled on the anchor rod, with their slots fitting into each other.

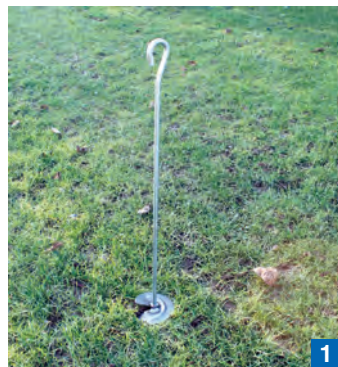
Manufactured in hot-dip galvanized steel according to standard NF EN 10346.

For rod	Cross height	Reference	Packaging *
Rod $\leq \varnothing 7$ mm	100	7100-044	50
Rod $\leq \varnothing 12$ mm	100	12100-044	50

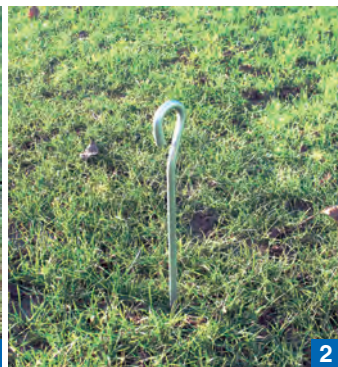
*50 crosses (100 half crosses).
Driving tool on request.



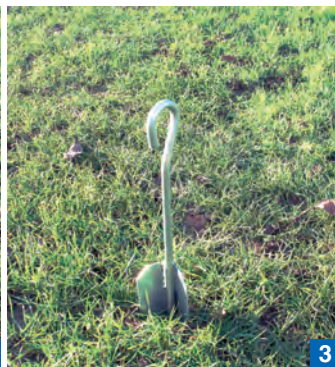
USE:



1 Screw the disk on the rod and start driving in the ground.



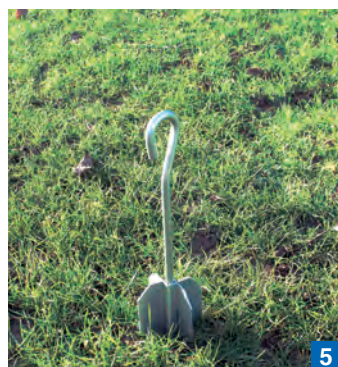
2 Stop screwing in order to install the cross.



3 Put the first part on the rod.



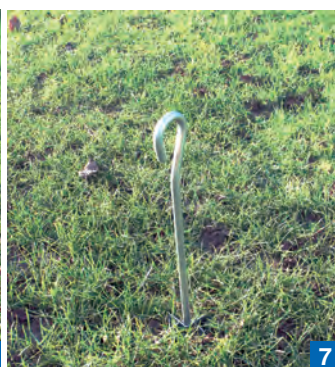
4 Put the second part on the rod but in the opposite way of the first one.



5 Slide the slots into each other.



6 Push the cross in the ground using the tool.



7 Cross installed.



8 Finish to screw the rod.

Reinforcement cross for angled post

Allows to increase the lateral resistance of the anchors in the ground. The cross is made up of 2 parts which are assembled together on the anchor, with their slots fitting into each other.

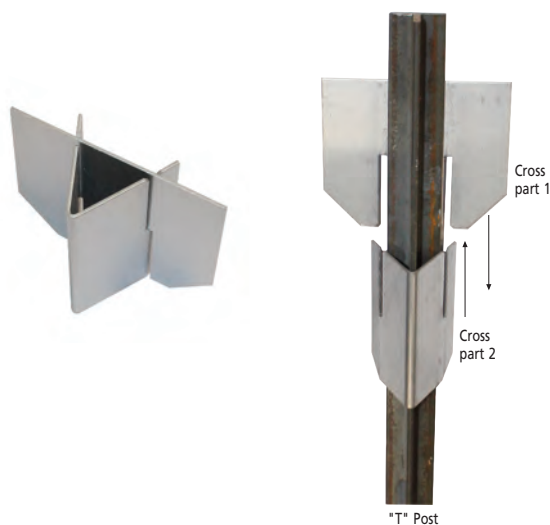
Manufactured in hot-dip galvanized steel according to standard NF EN 10346.

Description	Reference	Packaging
Reinforcement cross H100 mm for T post of 40 mm	—	50

Other possible dimension of angled post: on request.



Reinforcement cross on angled post.



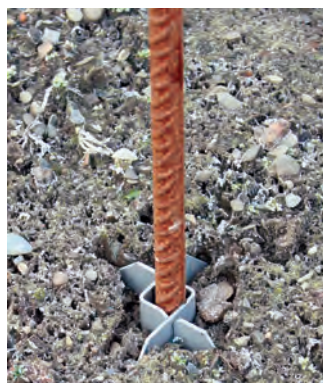
Reinforcement crosses for various anchors

Allows to increase the lateral resistance of the anchors in the ground. The cross is made up of 2 parts which are assembled together on the anchor, with their slots fitting into each other.

Manufactured in hot-dip galvanized steel according to standard NF EN 10346.

Anchor diameter	Reference	Packaging*
< = Ø 7 mm	7100-044	50
< = Ø 12 mm	12100-044	50
< = Ø 17 mm	17100-044	50
< = Ø 21 mm	21100-044	50

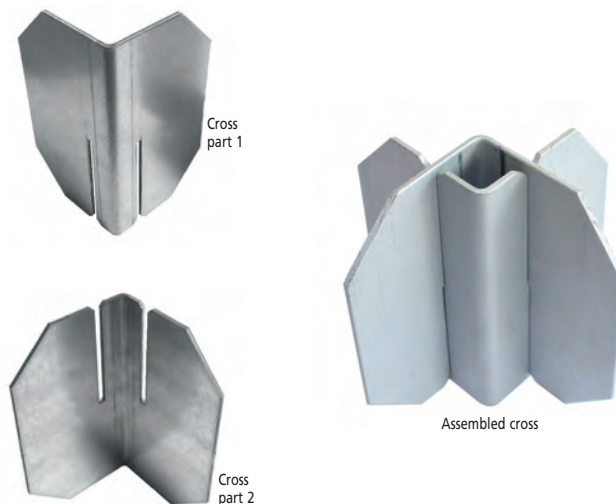
*50 crosses (100 half crosses).



The cross prevents the anchor from leaning.



The reinforcement cross allows the anchor not to shear the ground.



Trellising accessories

Trellising
accessories



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Row end ties

Round ties

Made of Ø 5.2 mm galvanized or stainless steel wire, depending on the material of post. The hooks are tilted slightly outwards for easier hanging of accessories.

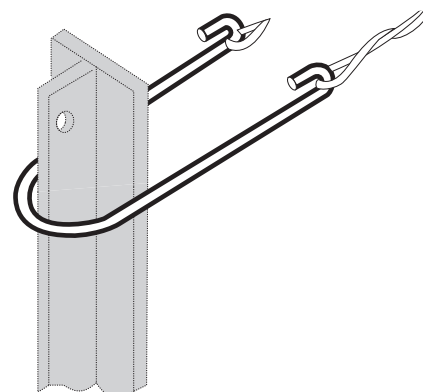
Description	For post	Length	Reference	Packaging
Round galvanized ties	Ø 40	140 mm	140405-044	50
		180 mm	180405-044	50
	Ø 55	140 mm	140555-044	50
		180 mm	180555-044	50
	Ø 85	150 mm	150855-044	50
		190 mm	190855-044	50
	Ø 110	160 mm	161105-044	50
		200 mm	201105-044	50

Other dimensions, on request.



Description	For post	Length	Reference	Packaging
Round stainless steel ties	Ø 55	140 mm	141555-044	50
	Ø 85	150 mm	151855-044	50

Other dimensions, on request.



Galvanized round ties on wooden post. Scan to view the video.



Additional accessories

Anti slide system



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Chains



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4 in 1 end post spreader



Page 31

Compensating spring



Page 31

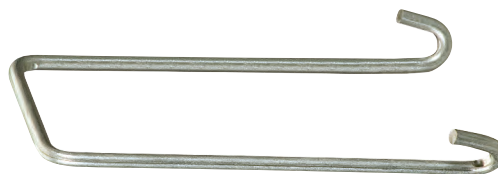
Row end ties

Square ties

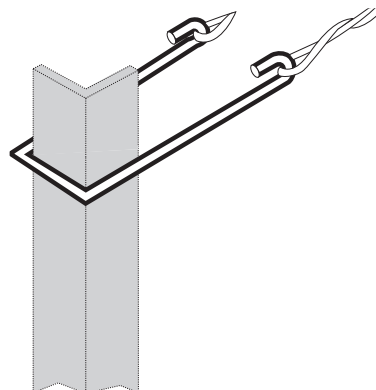
Made of Ø 5.2 mm galvanized or stainless steel wire, depending on the material of post. The ties have a square shape. The hooks are tilted slightly outwards for easier hanging of accessories.

Description	For post	Length	Reference	Packaging
Square galvanized ties	43	140 mm	24043-044	50
		180 mm	28043-044	50
	55	140 mm	24055-044	50
		180 mm	28055-044	50
	85	150 mm	25085-044	50
		190 mm	29085-044	50
	110	160 mm	26110-044	50
		200 mm	20110-044	50

Other dimensions, on request. In stainless steel, on request.



Square tie with supporting screw on metal post.



Additional accessories

Anti slide system



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Chains



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4 in 1
end post spreader



Page 31

Compensating spring



Page 31

Special end ties

Ties hook

S-shaped ties hook for end post with side holes. The same part is installed on both sides of the post.

Description	Reference	Packaging
Ties hook	20000-044	100



Ties hook

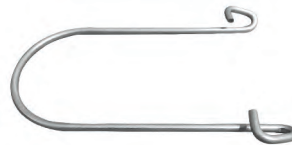


Ties hook on post with side holes.

Round ties with closed hooks

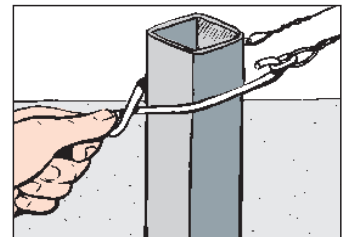
Round galvanized ties with closed hooks.

Interior Ø	Length	Reference	Packaging
85	150	150856-044	50
110	160	160110-044	50
130	200	200130-044	50



Loop ties

In galvanized steel, the loop ties has the same function as the standard ties. Its particular shape has the advantage of being able to be easily held during installation or when moving along the post.

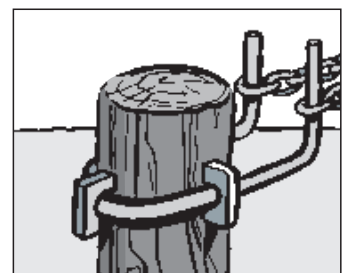


Loop ties during slide along the post.

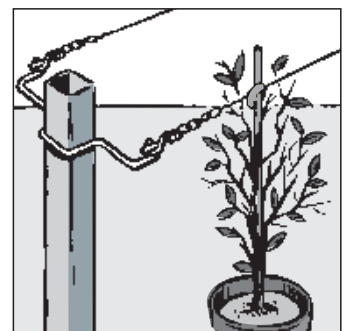
Special ties

Possibility of making all shapes of ties specially adapted to your post. In galvanized steel wire.

Tailor-made ties: on request.



Tie fixed to the wooden post by staples.



Wide tie.

Additional accessories

Chains



Page 30

Anti slide system



Page 29

Compressing spring



Page 31

Anti slide systems

Anti slide devices for ties

Devices allowing the ties not to slide along the inclined end posts.

Description	For post	Reference	Packaging
Twisted nail umbrella head	Wood post	4040-017	100
Wire guide hole Ø 6.1 mm P1 screw 4.8 x 38 mm for wooden post P5 screw 5.5 x 25 mm for metallic post	All posts	See page 45	100
Hook ring	Pierced post laterally Ø 7 mm	630000-044	10
Ties support	T post ≤ 40 mm drilled Ø 5 mm	20010-044	50
Self-drilling screw	For post unperforated thick. 1.5 to 5 mm	263035-091 (TK12) 63035-051 (zinc plated)	100
EPDM Brake sleeve	Angled post	140715-036	100



Twisted nail



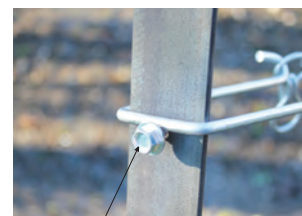
Wire guide



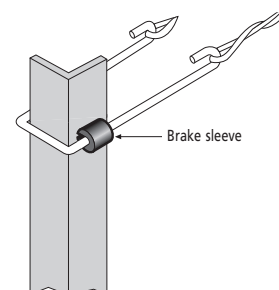
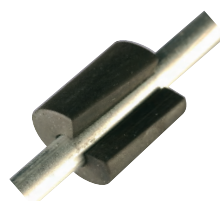
Hook ring



Ties support



Self-drilling screw



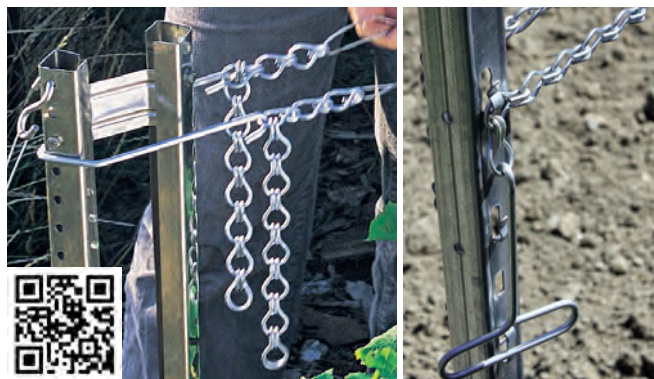
Technical
Sheet
on
request

Chains and gripper handle

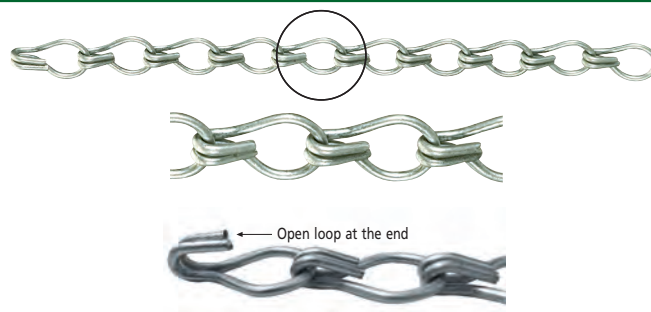
Galvanized chain for moveable wire

For attaching moveable wires to end posts. Used for adjusting tension of moveable wires. The last link is slightly open allowing easier hooking up and the joining of the chains together. Hot-dip galvanized steel.

Description	Length	Reference	Packaging
Galvanized chain	210 mm	210-044	100
	310 mm	310-044	100
	420 mm	420-044	100



Galvanized chain. Scan to view the video.



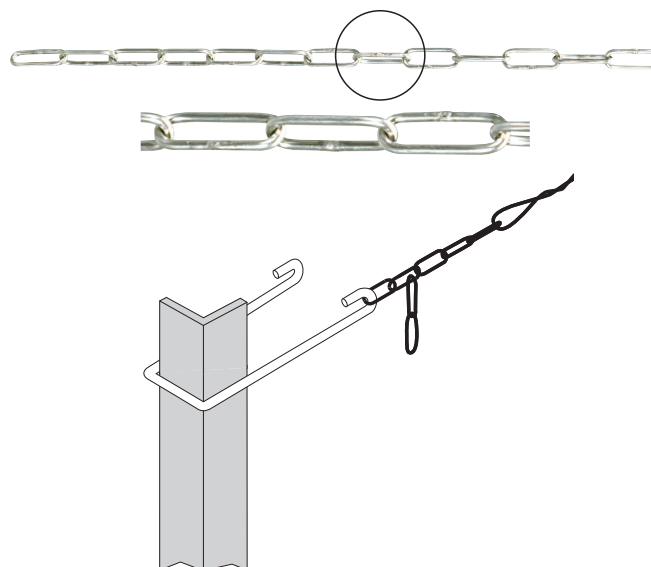
Stainless steel chain for moveable wire

For attaching moveable wires to end posts. Used for adjusting tension of moveable wires. Each link is welded. Made of stainless steel.

Description	Length	Reference	Packaging
Stainless steel chain	310 mm	310-042	100



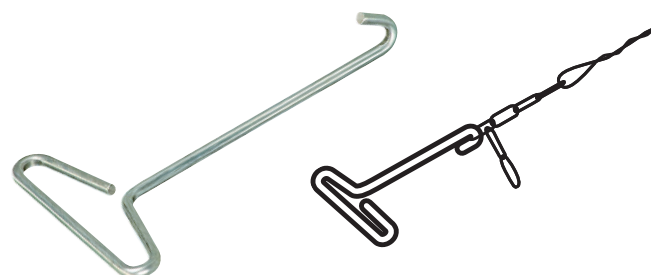
Stainless steel chain. Scan to view the video.



Gripper handle for chain tensioning

Made of galvanized steel. Design to avoid injury when tensioning chains. Allows to develop a greater tensioning force. This tool can be reusable. Also available in stainless steel or with colored corrosion proof coating.

Description	Reference	Packaging
Gripper handle	9-044	1



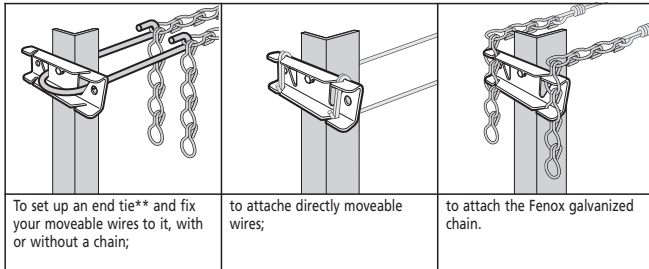
Row end accessories

4-in-1 end post spreader

Made of galvanized steel or raw steel, the 4-in-1 end post spreader allows the installation of different elements like ties, chains, wires.

Description	Coating	Reference	Packaging
4-in-1 end post spreader	Galvanized	21001-044	100
	Raw steel*	21000-044	100
Self-drilling screw P5	TK12	55025-091	100

4-in-1 end post spreader allows:



*We recommend using the galvanized spreader in priority for better corrosion resistance.
**Round for post Ø 40 mm - Square for post 43.



4-in-1 end post spreader with square tie and chain.

Compensating spring

Allows flexibility of moveable wires with respect to vine growth without loss of tension and compensates the steel wires dilation during temperature variations.

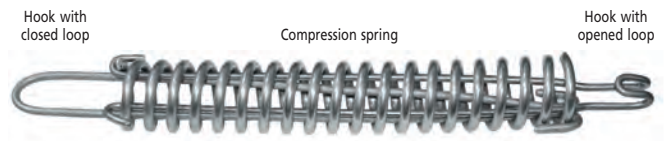
Composed of a compression spring and two galvanized steel hooks (one with open loop for wire or chain installation and one with a closed loop for the installation on ties or post hooks).

Usually installed on the end ties, and can also be installed in the middle of the rows on the moveable wire.

Available in 2 versions: 35 kg or 70 kg of tension.

Description	Spring stroke	Reference	Packaging
35 kg spring	100 mm	49-042	10
70 kg spring	100 mm	55-042	10

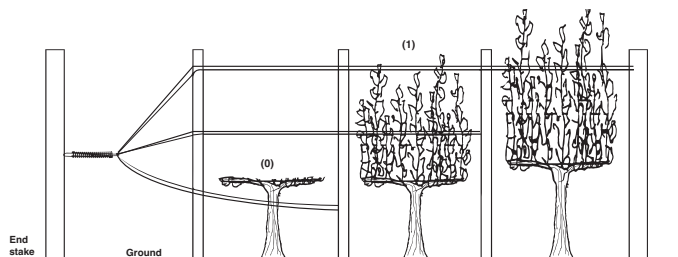
Possibility of making the compensating spring with 2 opened loops hooks or 2 closed loops hooks.



Compensating spring installed on the end ties.



Compensating spring installed on the moveable wire.



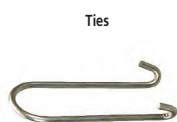
0/ Moveable wires at rest: keep the moveable wires above the ground when the vine is growing.

1/ First step: guiding the vine when it is growing (medium spring compression).

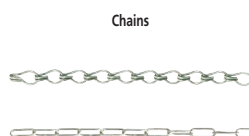
2/ Second step: optimal guiding of the vine before vintage (maximum spring compression).



Additional accessories



Pages 26 to 28



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Moveable wires spreaders

Standard spreader

The spreaders hold the moveable wires on either side of the posts.
The distance between wires can be changed according to the type of spreader.

Manufactured in a very high tensile steel, and has hot-dip galvanized protection.

Length	Reference	Packaging
80 mm	20080-044	50
	20081-044	250
100 mm	20100-044	50
	20101-044	250
120 mm	20120-044	50
150 mm	20150-044	50
200 mm	20200-044	50
250 mm	20250-044	50
300 mm	20300-044	50
350 mm	20350-044	50
400 mm	20400-044	50
500 mm	20500-044	50

Possibility to make 2 fixing holes according to spreader dimensions, as well as several notches of moveable wires, on request.



Wide-opening 80 mm spreader

Identical model to the 80 mm spreader but with wider opening providing time saving for installing the moveable wire. (Blind installation).

Description	Reference	Packaging
Wide-opening 80 mm spreader	20085-044	50



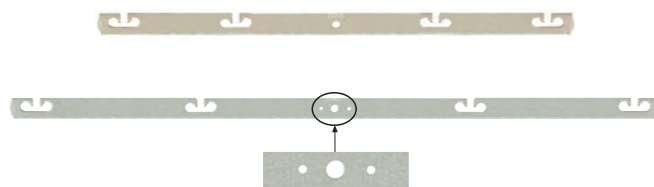
Special spreader

Special spreader with 4 notches for 4 wires for plants with large foliage (raspberries bushes for example).

Spreader with a central hole, possibility of 2 holes on request, to prevent spreader rotation.

Description	Reference	Packaging
600 mm spreader with 4 notches	20600-044	50

Other dimensions: on request.



Additional accessories

Spreader fixings



Page 33

Wire spreader



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Spreader tip



Page 35

Wooden and alu clip



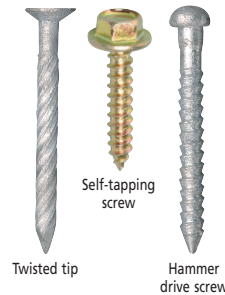
Page 39

Moveable wires accessories

Spreader fasteners for wooden posts

Screws or tips for fixing spreader to wooden posts.

Description	Reference	Packaging
Twisted tip galvanized 4 x 50 mm	24050-044	500
Self-tapping screw 6.3 x 35 mm zinc-plated	63035-050	100
Hammer drive screw 5 x 50 mm	5050-022	100



Spreader on wooden post.
Scan to view the video.

Spreader fasteners for metal post

Fastening with a bolt, when the post is pierced or with a self-drilling screw when the post is non-pierced.

Description	Reference	Packaging
Bolt M6 x 15 Zinc plated	6015-044	100
Self-drilling screw P4 - 4.8 x 16* Zinc plated	48016-051	100



Spreader on angled post.
Scan to view the video.

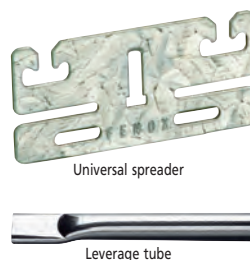
Universal mixed spreader

Used in the same way as standard spreader. Designed solely for L shape perforated metal posts from size 30 to 40.

Spreader made of galvanized steel.

Unsuitable for mechanical grape harvesting.

Description	Reference	Packaging
Universal mixed spreader 75 mm length - 1.5 mm thickness	7515-044	50
Leverage tube	7500-044	10



Universal spreader.
Scan to view the video.

Additional accessories

Spreaders



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4 in 1
end post spreader



Page 31

Wooden and alu clip



Page 39

Spreader in wire

Spreader in wire for angled posts

Spreader in Ø 2.7 mm galvanized steel wire. To support moveable wires on angled post or "T" shape post with hole. Suitable for synthetic or technical wires.

Description	Reference	Packaging
Asymmetrical spreader for 30 to 40 mm angled post	19001-044	50
Symmetrical spreader for T post from 30 to 40 mm	19006-044	50

For other posts, on request.



Asymmetrical spreader for angled post



Symmetrical spreader for "T" post



Symmetrical spreader in position on T post.

Spreader in wire for profiled posts

Spreader in Ø 2.7 mm galvanized steel wire. To support moveable wires on profiled post with hooks or notches. Suitable for synthetic or technical wires.

Description	Reference	Packaging
Spreader for L30 post with hooks	19030-044	50
Spreader for profiled posts with notched	—	50

For other posts, on request.



Spreader for L30 post with hooks



Spreader on L30 post hooks.

Spreader in wire for wooden posts

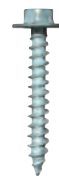
Spreader in Ø 2.7 mm galvanized spring steel wire. To support moveable wires on wooden post with screw. Suitable for synthetic or technical wires.

Description	Reference	Packaging
Spring wire spreader L150mm*	19150-044	50
Galvanized wood screw Ø 7.5 x 50 mm	17550-021	100

*Other widths on request.



Spring wire spreader L150mm



Galvanized wood screw 7.5 x 50 mm



Spring wire spreader on wooden post.

Spreader in wire for metal posts

Spreader in Ø 2.7 mm galvanized spring steel wire. To support moveable wires on metal post with screw. Suitable for synthetic or technical wires.

Description	Reference	Packaging
Spring wire spreader L150mm*	19150-044	50
Self-drilling screw P5 6.3 x 25 TK12**	263025-091	100

*Other widths on request,

**Drilling capacity from 1.5 to 5 mm.



Spring wire spreader L150mm



Self drilling screw P5 6.3 x 25 mm



Spring wire spreader on metal post.

Spreaders in wire are unsuitable for mechanical grape harvesting.

Spreader tips and installation tools



Spreader tips for wooden posts

Made of high resistance and galvanized steel.

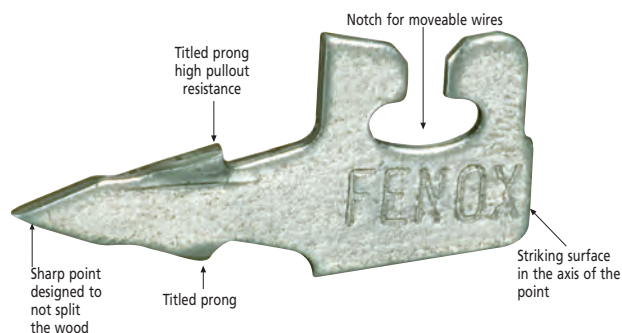
The spreader tip is used to hold the moveable wires on either side of wooden posts.

The prongs ensure outstanding resistance to pulling away. Prevent the wood from splitting.

Description	Reference	Packaging
Spreader tips	4010-044	500



Spreader tips on wooden posts.
Scan to view the video.



Trellising
accessories

Tools for spreader tips

Hammer for manual installation or nailer tool specially design to be installed on an SDS + hammer drill for easy and comfortable installation.

Description	Reference	Packaging
Simple hammer	1251-047	1
Nailer tool* spreader tips with SDS + end for hammer drill	3519-044	1

*Suitable for non-hard wooden posts.



Nailer tool spreader tips



Installation of spreader tips with nailer tool.

Additional accessories

Spreaders



Page 32

Wooden and alu clip



Page 39

Staple



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TSAR™ universal spreader

TSAR™ Universal spreader

The TSAR™-Fenox universal spreader is an accessory designed to make the wine-grower's life easier, offering a considerable advantage for the spread of the vine as it develops

First function: the TSAR avoid leaving moveable wires on the ground during winter.

Wires are kept in the loops of the spreader in open position enabling initial growing at spring season.

Second function: on reaching maturity, simply close the TSAR™ -Fenox spreader using the loop at one of the ends.

The curve of the spreader, at the closure points, has been designed to prevent the loops from sliding on the moveable wires.

Attachments:

- On wooden post: with a staple.
- On pierced metal post: with a bolt.
- On non-pierced metal post: with a self-drilling screw

*Trademark registered and patented by the Société de Construction De Champagne.

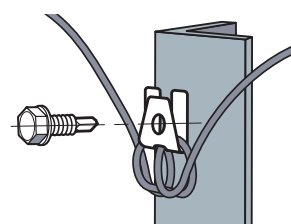
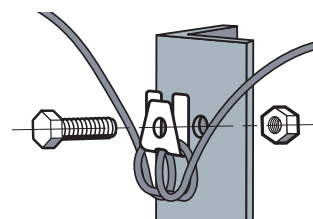
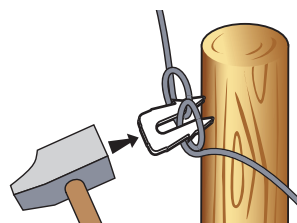


TSAR Universal spreader on wooden post (closed position).



TSAR Universal spreader on metal post (open position).

Description	Width opening	Reference	Packaging
TSAR Universal spreader alone	450 mm	500-042	100
TSAR Universal spreader for wooden posts (with staple)	450 mm	505-042	100
TSAR Universal spreader for pierced metal (with bolt)	450 mm	506-042	100
TSAR Universal spreader for non-pierced metal (with self-drilling screw) (max thickness post: 5 mm)	450 mm	507-042	100



AITOR moveable spreader



AITOR patented moveable spreader

1/ ADJUSTABLE

Adjust the position of the Aitor spreader optimally at any time according to the vegetation development.

2/ WITHOUT MECHANICAL FIXING

Self-tightening inside the profiled posts, no screws or nails...
No additional parts are necessary.

3/ OPTIMISED LIFT

The spreader in the open position allows vegetation to pass above the wire which are kept off the ground.

4/ PROTECTED BY THE POST ABOVE THE WIRES

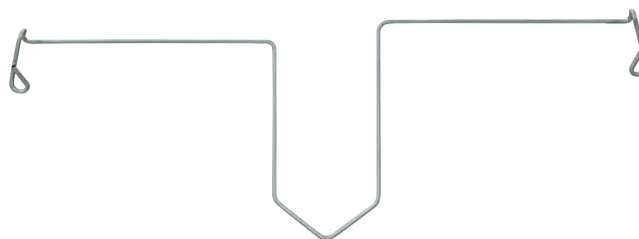
In the closed position the spreader is protected from the beaters of the harvesting machines, only the loops for moveable wires are outside.

5/ INDEPENDENT ARMS

The spreader can be closed one side at a time, each arm is independent.

6/ SUSTAINABLE

Made of high elastic limit steel, the spring wire is protected against corrosion (galvanized).



Trellising
accessories

Description	Width opening	Reference	Packaging
AITOR adjustable spreader width 50 mm for posts with notches	350 mm	600-042	100
AITOR adjustable spreader width 61 mm for posts with notches	350 mm	601-042	100
AITOR adjustable spreader for L30 post with hooks	350 mm	650-042	100
AITOR adjustable spreader for P5X post with hooks	400 mm	656-042	100

Other posts, on request.



AITOR adjustable spreader (open position).



AITOR adjustable spreader (closed position).



Scan to view the video.

Additional accessories

Ties



Pages 26 to 28

Chains



Page 30

Wooden and alu clip



Page 39

Post extensions

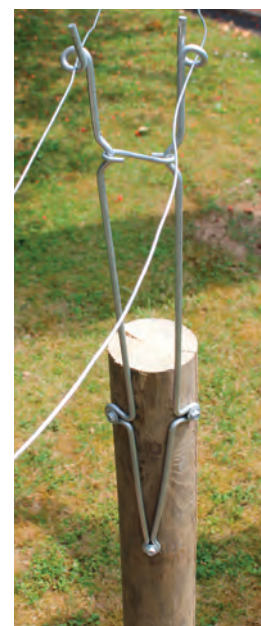
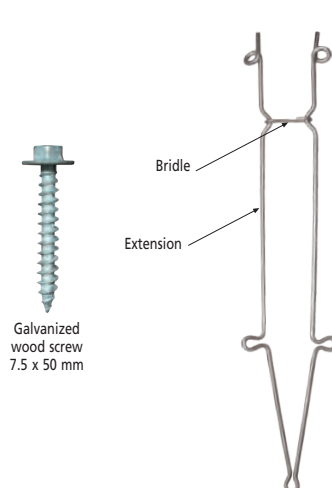
Extension for wooden post

Galvanized steel extension Ø 7 mm, for wooden post. Has a retaining bridle to prevent the extension from spreading under the tension of the vegetation.

Fixing on a wooden post using 3 screws.

Description	Power extension	Reference	Packaging
Extension for wooden post	300 mm	300-042	50
Galvanized wood screw 7.5 x 50 mm	–	17550-021	100

Extensions and bridles delivered separately.



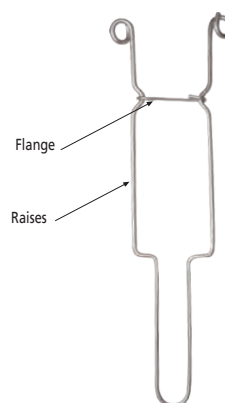
Extension on wooden post.

Extension for profiled post

Galvanized steel extension Ø 7 mm, for profiled post, with hooks or notches. Has a retaining bridle to prevent the extension from spreading under the tension of the vegetation. No additional fastening is required.

Description	Power extension	Reference	Packaging
Extension for profile post width 50mm*	300 mm	305-042	50

**Other dimensions, on request.*



Extension on profiled post.

Additional accessories

Ties



Pages 26 to 28

Chains



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Wooden and alu clip



Page 39

Moveable wires clips

Biodegradable wooden clips

To tighten the moveable wires which support the vegetation.

Suitable for moveable wires up to Ø 2.6 mm for standard clip and Ø 3.8 mm max for the large one and allows a spacing of these moveable wires of approximately 9.5 mm for the standard clip and 26 mm for the large one.

Biodegradable wood clips made from hard pressed wooden fibers **without the addition of glue or synthetic binder**. Classified HB in accordance with European standard EN 316, EN 622/1 and EN 13986.

They comply with the environmental code and with the 2005-20-CE directive of March 9, 2005 relating to environmental requirements.

The woods used allow direct contact with foodstuffs (Decree of November 15, 1945, and allow compliance with EC regulation n° 1935/2004, materials and objects intended to come into contact with foodstuffs, Annex 1.

The wooden clips are completely biodegradable.

The material used does not contain heavy metals and does not oxidize the moveable wires.

Compatible with organic farming.

Certificate on request.

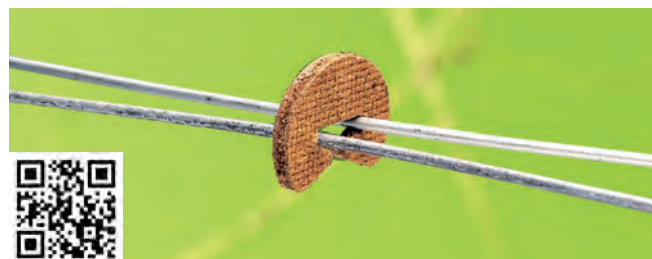
Description	Reference	Packaging	Qty per pallet
Standard wooden clip 25 x 18 mm	2517-044	5 000	500 000
Standard wooden clip 25 x 18 mm	2518-044	10 000	500 000
Standard wooden clip 25 x 18 mm Bulk cardboard	2519-044	125 000	250 000
Large wooden clip 45 x 23 mm	4523-044	5 000	100 000



Standard wooden clip



Large wooden clip



Standard wooden clip on lifting wires. Scan to view the video.



Bulk cardboard wooden clips on pallet.

Reusable aluminium clips

Made in two different shapes (round or square), these aluminium clips are reusable each season.

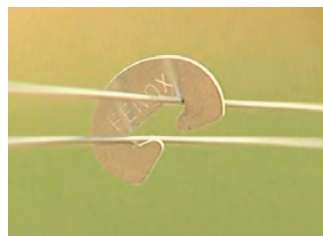
Description	Reference	Packaging
Round aluminium clip	2520-044	500
Square aluminium clip	2014-044	500



Round aluminium clip



Square aluminium clip



Round aluminium clip on moveable wires.



Square aluminium clip on moveable wires.



Scan to view the video.

Additional accessories

Spreader



Page 32

Spreader tip



Page 35

Staple



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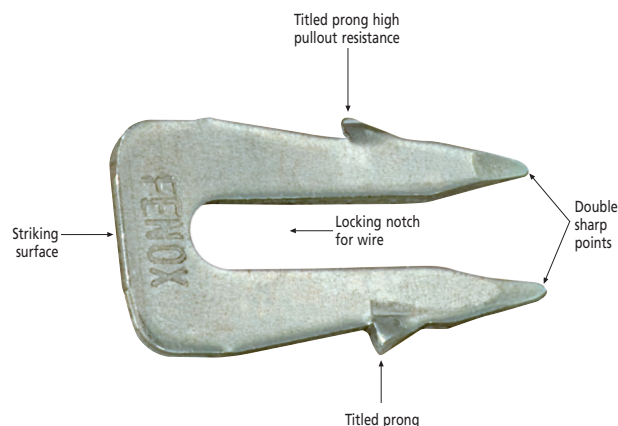
Staple for wooden posts



Staple for wooden post

Made of high resistance and galvanized steel.
The staple has a flat striking surface for easy driving.
It allows the wires to be locked in a fixed position.
It has prongs facing outwards, making it extremely hard to pull out.
The staple can be folded back against the post to lock the wire.
It can be combined with every conventional wire diameters and barbed wires too.

Description	Reference	Packaging
Galvanized Fenox staple	3518-044	500
Galvanized Fenox staple	3517-044	100
Hot-dip galvanized Fenox staple	3540-044	500



Staple installed and folded. Scan to view the video.



Tools for staples

Hammer for manual installation or nailer tool specially design to be installed on an SDS+ hammer drill for easy and comfortable installation.

Description	Reference	Packaging
Simple Hammer	1251-047	1
Nailer tool* staples with SDS+ end for hammer drill	3520-044	1

*Suitable for non-hard wooden posts.



Nailer tool staples



Additional accessories

Spreader



Page 32

Wooden and alu clip



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Spreader tip



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Crimping sleeve



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Tensioner



Page 42

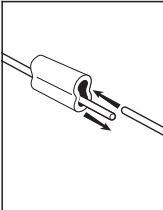
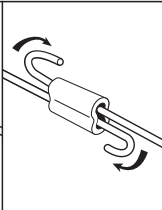
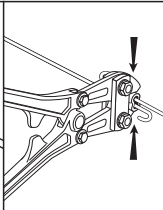
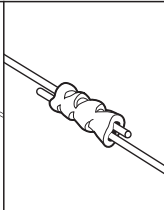
Crimping sleeve

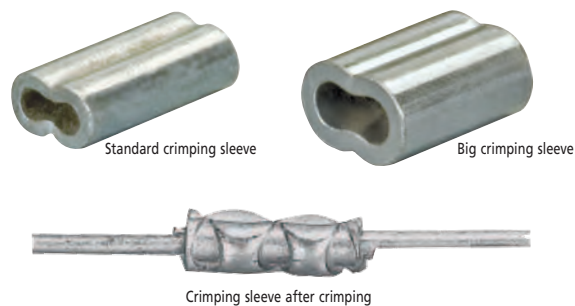
Crimping sleeve

The Fenox crimping sleeve is the most economical and resistant way to repair and connect 2 vine wires together by crimping them. After crimping, the resulting repair is very strong. Can be used for splicing. 2 models available depending on the wire diameter.

Description	For wire	Reference	Packaging
Crimping sleeve standard	Ø 1.6 to 2,5 mm	100-042	100
Crimping sleeve big model	Ø 2.8 to 3,5 mm	101-042	100

USE:

			
Insert the wires in the sleeve.	Turn each wire end back.	Crimp 3 times using the multifunction pliers.	Cut both ends with the multifunction pliers.

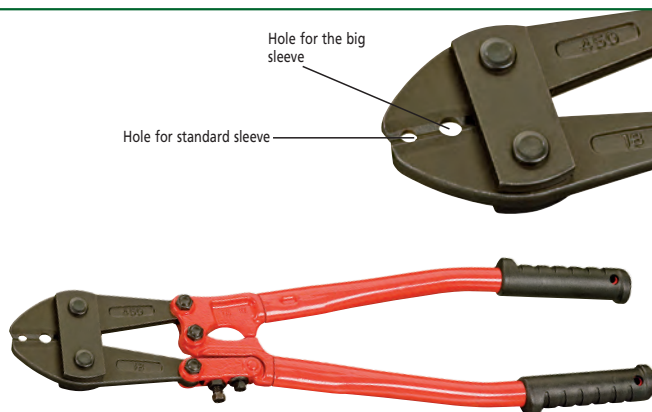


Crimping sleeve during crimping. Scan to view the video.

Multifunction pliers

Multifunction pliers are essential for crimping the Fenox sleeve. Particularly powerful for cutting metal wires after crimping. 2 models available, one with 2 holes for crimping the 2 types of sleeves and a smaller one for standard sleeves only.

Description	For sleeve	Reference	Packaging
Multifunction pliers Long. 470 mm	Standard and big model	130-042	1
Multifunction pliers Long. 360 mm	Standard only	131-042	1



Pliers and sleeves in batch

Set including a pliers, ref. 131-042 and 50 standard sleeves, ref. 100-042.

Description	Reference	Packaging
1 pliers and 50 standard sleeves	102-042	1



Galvanized standard tensioners

Made of high-strength galvanized steel, the Fenox tensioner is design for tensioning wires without cutting them or damaging them.

They offer impressive tensioning

For precutting jobs place the tensioners near a post.

Colored tensioners see page 72.

Description	For	Reference	Packaging
Tensioner N° 1	Wire up to 2.7 mm	10-042	100
Tensioner N° 2	Wire up to 3.5 mm	20-042	100
Installation kit (handle + rod)	–	9-042 +14-042	1



Stainless steel tensioners

Stainless steel A2: total resistance against corrosion (high elasticity).

Description	For	Reference	Packaging
Tensioner N° 1	Wire up to 2.7 mm	15-042	100
Tensioner N° 2	Wire up to 3.5 mm	25-042	100
Installation kit (handle + rod)	–	9-042 +14-042	1



Galvanized tensioner N° 3 for barbed wire and fruit tree wires

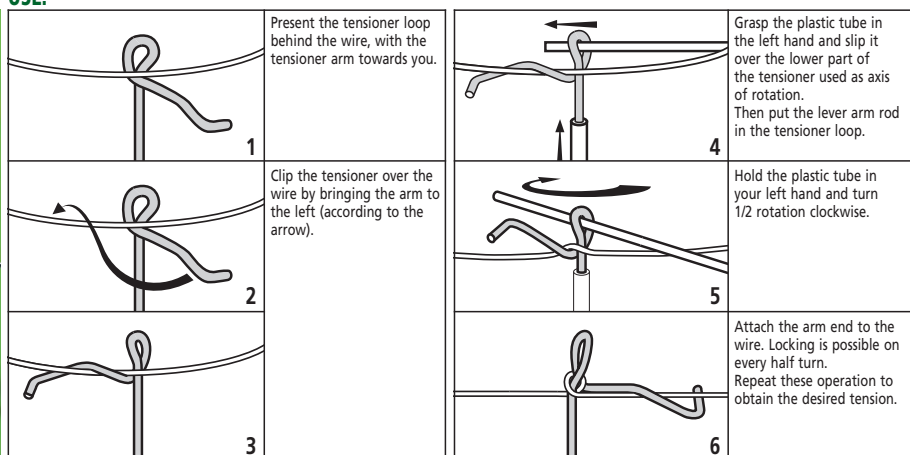
Description	For	Reference	Packaging
Tensioner N° 3	Wire up to 5 mm	30-042	25
Installation kit (handle + rod)	–	9-042 +31-042	1



USE:



Tensioner on wire. Scan to view the video



Irrigation pipe holders

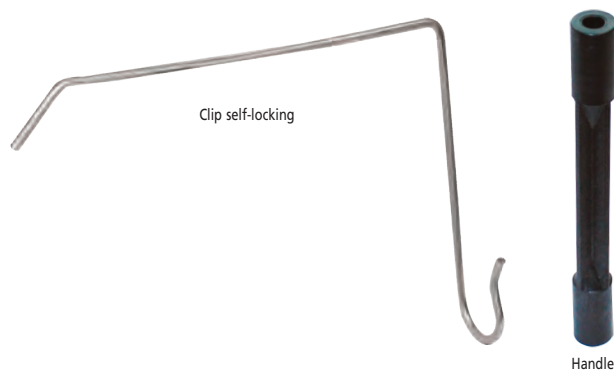
Irrigation pipe clip self-locking on wire

The clip made of galvanized spring steel wire Ø 2.7 mm, wraps around the wire and allows to suspend the irrigation pipe (Ø 16 to Ø 20 mm). Once put in place using the handle, the clip cannot slide along the tensioned support wire.

Description	Reference	Packaging
Self-locking clip (height 100 mm)	40000-044	100
Reusable handle	9-042	1



Self-locking clip holding the irrigation pipe. Scan to view the video.



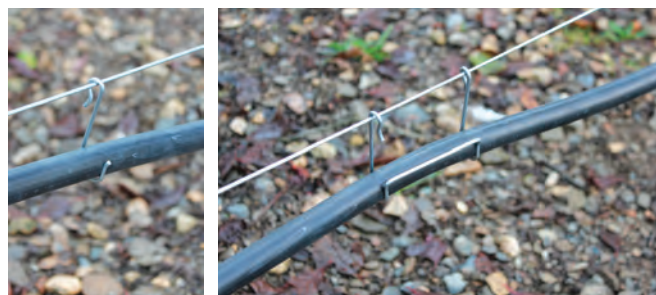
Trellising
accessories

Irrigation pipe clips

Clips made of galvanized steel wire Ø 2.7 mm, to clip on the support wire. Allows to suspend the irrigation pipe (Ø 16 to Ø 20 mm). Two versions: single clip or twin clip. The twin clip allows to have a horizontal pipe, and therefore to centre the drop well in relation to the vine stock (the drop does not slide along the pipe to the lowest point).

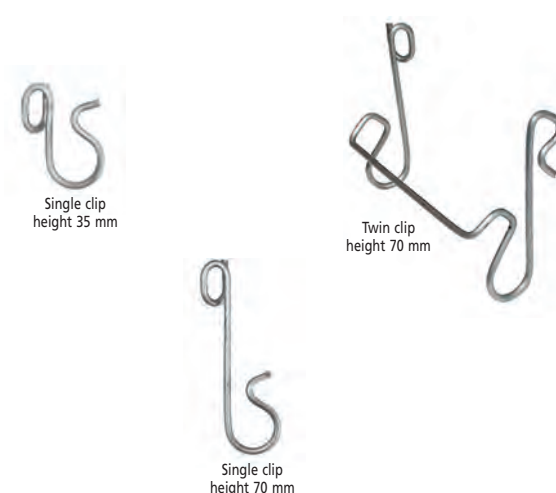
Description	Reference	Packaging
Single clip (height 35 mm)	41035-044	100
Single clip (height 70 mm)	41070-044	100
Twin clip (height 70 mm)	41071-044	100

Other sizes and shapes, on request.



Single clip (height 70 mm).

Twin clip (height 70 mm).



Additional accessories



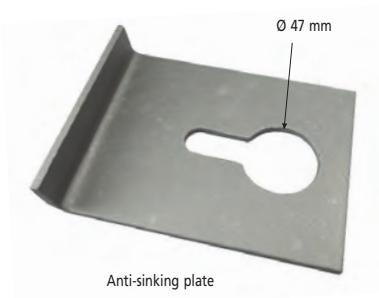
Posts accessories

Anti-sinking plate for metal posts

Plate to prevent end posts from sinking into soft ground.
Plate and axle made of galvanized steel.
The axle passing through the metal post.
Requires a Ø 9 mm hole.

Description	Dimensions	Reference	Packaging
Anti-sinking plate in galvanized steel	176 x 130 x 30 x 5	1713-044	1
Galvanized steel axle	Ø 8.9 x 100	–	10

Compatible with posts that can fit into the plate opening, Ø 47 mm, such as L30 post, "L" angled post from 30 to 40 and "T" post from 30 to 45 mm.



Galvanized steel axle.



Anti-sinking plate with "T" post.



Anti-sinking plate with L30 post.

Lateral reinforcement cross for posts

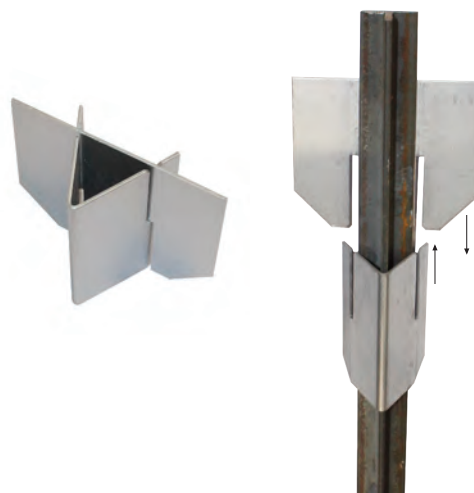
Allows to increase the lateral resistance of the post in loose grounds.
The cross is made up of 2 parts which are assembled together on the post, with their slots fitting into each other.

Description	Reference	Packaging
Reinforcement cross H100 mm for T post of 35 mm	–	50

Other possible dimension of angled post: on request contact us.



"T" post with reinforcement cross.



Cross for T post



Posts accessories

Universal wire guide

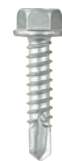
Galvanized steel.

Used to lock a wire, on a metal or wooden posts.

Description	Reference	Packaging
Universal wire guide	3-042	100
Self-drilling screw TH P5 Ø 5.5 x 25 mm TK12 for metal support 1.5 to 5 mm thick	55025-091	100
Self-drilling screw TH P1 Ø 4.8 x 38 mm TK12 for wooden posts	48038-069	100



Universal wire guide



Self-drilling screw
P5 Ø 5.5 x 25 mm



Self-drilling screw
P1 Ø 4.8 x 38 mm



Universal wire guide on angled post.



Universal wire guide on wooden post.

Moveable wires guide for wooden post

Allows the installation of two moveable wires at the top of a wooden post.

Description	Reference	Packaging
Moveable wires guide width 170 mm*	170-044	50
Staple	3517-044	100

*Other widths on request.



Moveable wires guide on wooden post.



Additional accessories

Spreader



Page 32

Crimping sleeve



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Tensioner



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Accessories

Attaching S

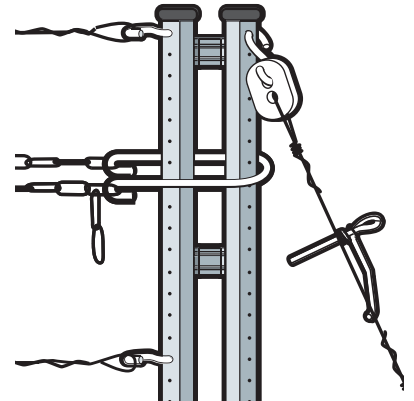
"S" -shaped piece for hanging a wire on a stake or any other pre-drilled accessory.
Available in galvanized or stainless steel.

Description	Reference	Packaging
Stainless steel "S" Ø 5.2 mm	4003-042	100
Galvanized steel "S" Ø 5.2 mm	4103-042	100

Other size, on request.



Attaching S



Additional accessories

Chains



Page 30

Crimping sleeve



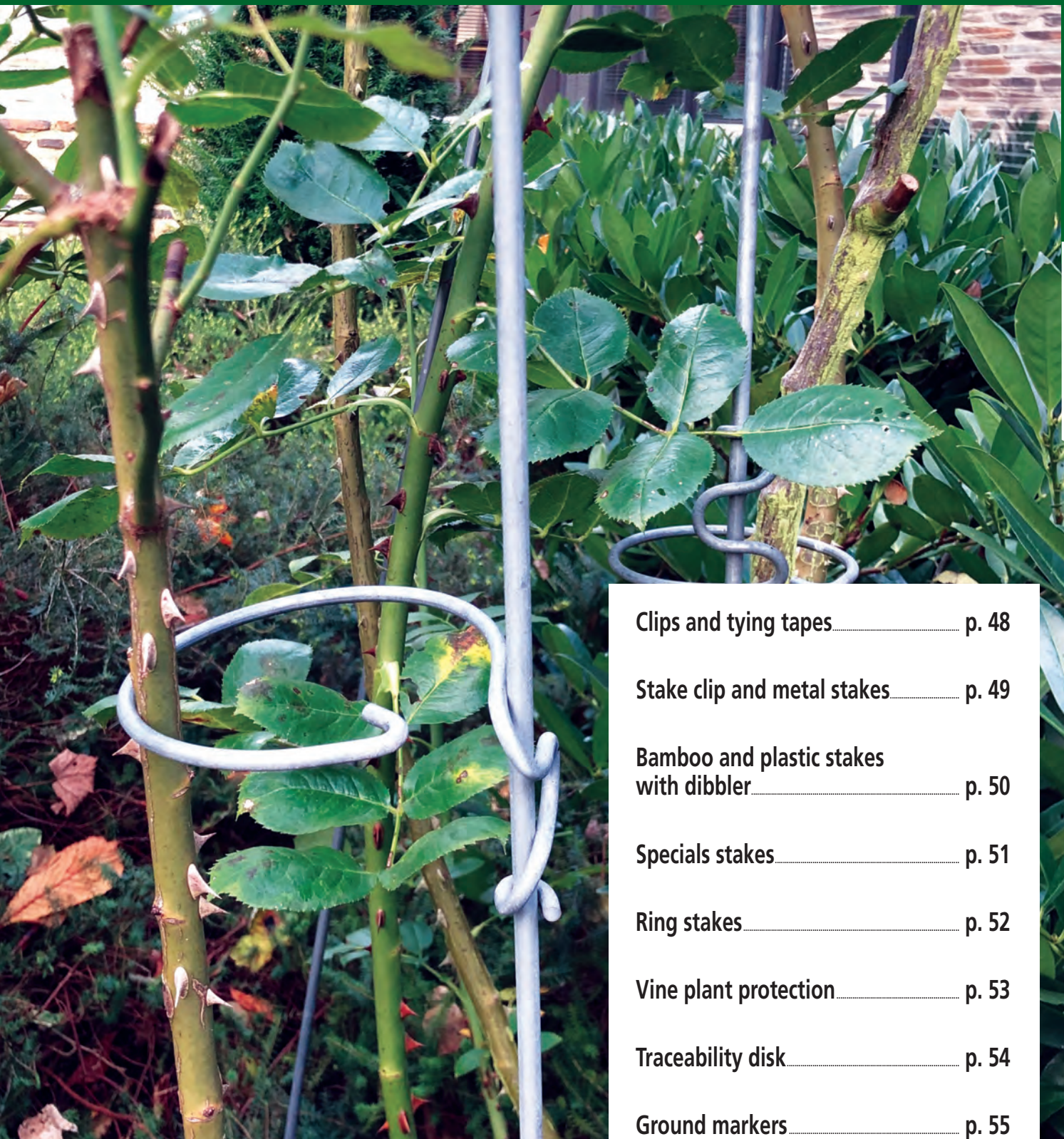
Page 41

Tensioner



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Stake / protection / identification



Stake / protection /
identification

Clips and tying tapes..... p. 48

Stake clip and metal stakes..... p. 49

Bamboo and plastic stakes
with dibbler..... p. 50

Specials stakes..... p. 51

Ring stakes..... p. 52

Vine plant protection..... p. 53

Traceability disk..... p. 54

Ground markers..... p. 55

Checkerboard
and reflective targets..... p. 56

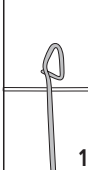
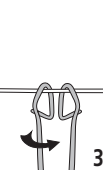
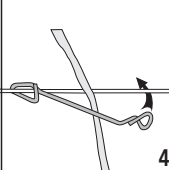
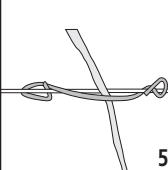
Clips and tying tapes

Fenox reusable clip for branches

Made of 18/10 stainless steel, the FENOX reusable clip accommodates every vine branch size, up to 25 mm in diameter. It is elastic so as not to harm the branches it retains. Its installation requires no tools. The clip stays on the wire once the branch is untied.

Description	Reference	Packaging
Stainless steel reusable clip	30165-044	250

USE:

				
Place the triangular loop over the wire.	Insert the wire in the triangular loop.	Turn the Fenox clip through a half-turn.	Lock the branch between the clip and the wire. Move the round loop of the clip underneath the wire, positioning it behind it.	The failsafe Fenox clip holds the branch securely.



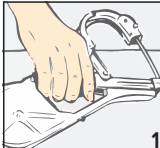
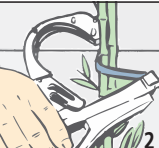
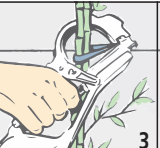
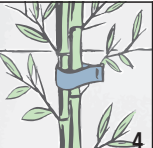
Fenox reusable clip on branch. Scan to view the video.

Rubangel smart binding tool

The Rubangel binding tool allows to link a plant to a stake or other support without injuring it, or to link several plants together. Tape follows the plant development by stretching. Easy and quick to use, the Rubangel binding tool, with its 75 mm opening, adapts to all types of plants: fruits, vegetables, ornamental plants.

Description	Long. roller	Reference	Packaging
Tying pliers	–	60000-042	5
Staples	–	60010-042	5040
White tape	22 m	60001-042	20
Blue tape	25 m	60002-042	20
Green tape	25 m	60003-042	20
Dark green tape	25 m	60004-042	20
Beige tape (biodegradable)	20 m	60005-042	20
Blades	–	600110-042	3

USE:

			
Take the tool in hand. Tighten up until the 2 metal parts are touching together, then release: the tape is ready for use.	Place the tape against the element to link.	Push the tape over the items and surround it. Then tighten pliers to staple forward and tighten.	The tape is cut by the tool. The tape retain items with some rigidity.



Rubangel binding tool.

Stake clip and metal stakes

Stake clip

Used to hold firmly the stake on a horizontal wire.
Made of galvanized steel wire.

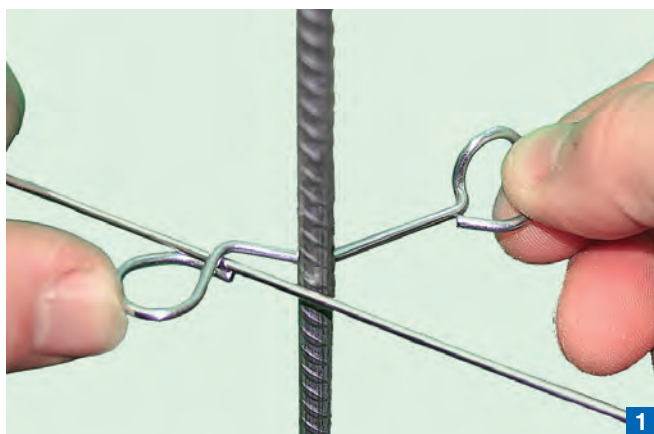
Description	For stake	Reference	Packaging
Stake clip N° 1	Ø 5 to 10 mm	32-042	500
Stake clip N° 2	Ø 10 to 15 mm	33-042	500
Handle for stake clip	N° 1 and N° 2	34-042	1



Stake clip



Handle



Slide the wire through the flat loop of the clip and place the stake in the bend of the clip.



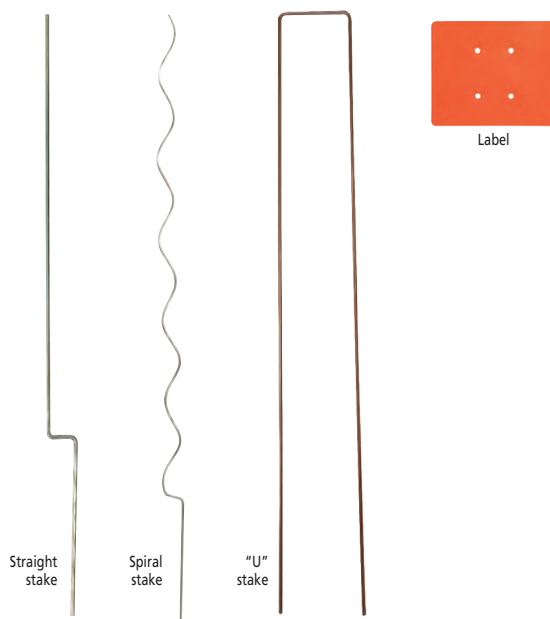
Place the hook of the handle in the folded loop of the clip and pass the loop under the wire.
Scan to view the video.

Metal stakes

Straight or spiral galvanized steel stake with bayonet to facilitate installation (with the foot) and obtain the same height between them, or stake in U shape in raw steel.

Description	Size	Reference	Packaging
Galvanized straight stake Ø 5.2 mm	500 x 200 mm	10000-044	50
	1000 x 200 mm	10001-044	50
	1500 x 250 mm	10004-044	50
Galvanized spiral stake Ø 5.2 mm	500 x 250 mm	10002-044	50
	800 x 250 mm	10003-044	50
U-shaped stake, raw steel Ø 5.2 mm	800 x 100 mm	800100-044	50
Yellow plastic label*	110 x 89 mm	10870-047	50
Orange plastic label*	110 x 89 mm	10871-047	50

*We can customize the labels (text, logo, etc.)



Straight stake

Spiral stake

"U" stake

Label

Bamboo and plastic stakes with dibbler

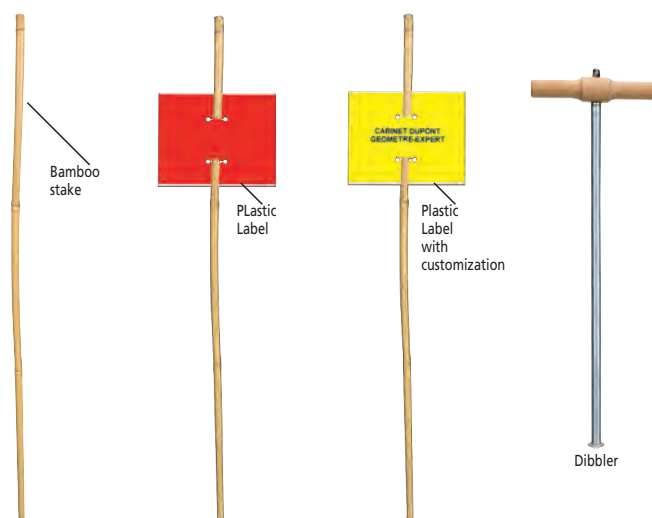


Bamboo stakes and dibbler

Stakes in extra hard natural bamboo. Frost resistant.

Description	Size	Reference	Packaging
900 mm bamboo stake	~ 8/10 mm	10854-047	50
1200 mm bamboo stake	~10/12 mm	10855-047	50
1500 mm bamboo stake	~10/12 mm	10856-047	50
Dibbler for 900 mm bamboo stake	–	10860-047	1
Dibbler for bamboo stake ≥ 1200 mm	–	10861-047	1
Yellow plastic label*	110 x 89 mm	10870-047	50
Orange plastic label*	110 x 89 mm	10871-047	50

*We can customize the labels (text, logo, etc.).



Plastic stakes and dibbler

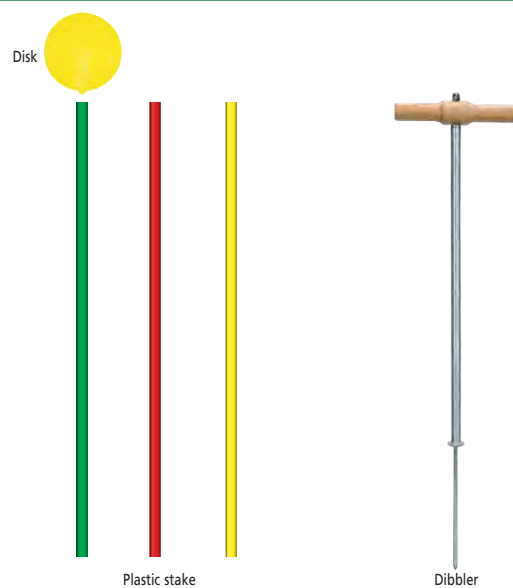
Time saving and regular positioning of stakes with the dibbler.

The stakes, once installed, will be at the same height.

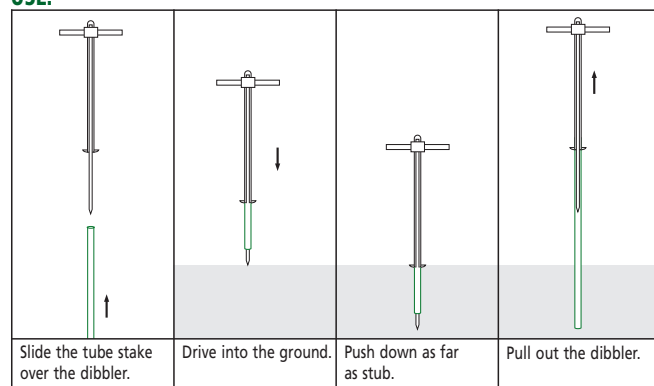
Stakes in plastic tube of different colors.

Description	Size	Reference	Packaging
Green stake tube	850 mm	10850-044	100
Red stake tube	850 mm	10851-044	100
Yellow stake tube	850 mm	10852-044	100
Dibbler	–	11850-044	1
Green disk	Ø 120 mm	1126-047	100
Red disk	Ø 120 mm	1121-047	100
Yellow disk	Ø 120 mm	1120-047	100

Other colors available, on request.



USE:



Green stake. Scan to view the video.

Specials stakes

"1" shape stake with self-locking horizontal return

The "1" shape stake, made of galvanized steel wire Ø 5.2 mm, has a horizontal return to wind the support wire around. Thereby the stake can't slide along the support wire.

Description	Height	Reference	Packaging
"1" shape stake	700 mm	10700-044	–
Reusable handle	–	9-042	1



"1" shape stake into the ground and on the wire.
Scan to view the video.

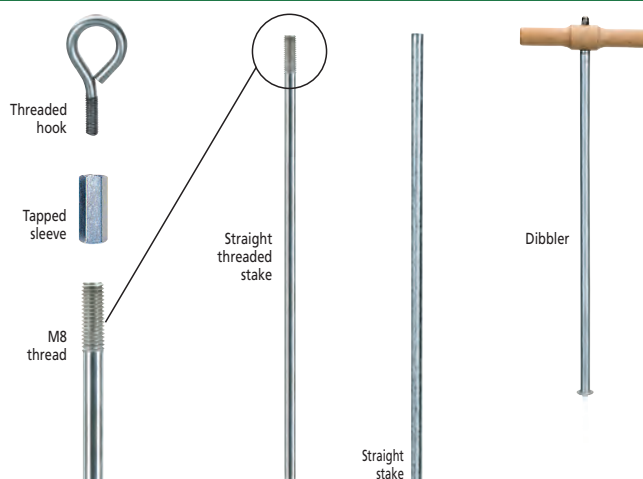


Stake / protection /
identification

Special metal stakes and dibbler

Straight galvanized steel rod, with an M8 threaded end, allowing the installation of various accessories.

Description	Height	Reference	Packaging
Straight threaded stake	300 mm	300-001	50
	600 mm	600-001	50
	900 mm	900-001	50
	1200 mm	1200-001	50
Straight stake Ø 7 mm, galvanized	on request	–	50
Straight stake Ø 8.9 mm, raw steel	on request	–	50
Dibbler for 900 mm stake	–	10860-047	1
Dibbler for stake ≥ 1200 mm	–	10861-047	1



Additional accessories

Tapped sleeve



Page 59

Stake clip



Page 49

Ring stakes

Ring stakes for plant holding

Used for retaining plants without damage.

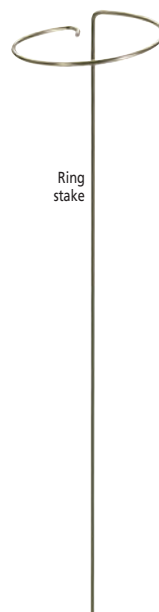
Description	Dimension loop x long.	Reference	Packaging
Ring stake Ø 6 mm galvanized monobloc	80 x 600 mm	10005-044	50
Ring stake Ø 3 mm stainless steel monobloc	50 x 600 mm	10006-044	50
Ring stake Ø 3 mm stainless steel monobloc	100 x 600 mm	10007-044	50
Half ring stake for large plant	600 x 300 mm	10100-044	10
Half ring stake for large plant	800 x 300 mm	10101-044	10



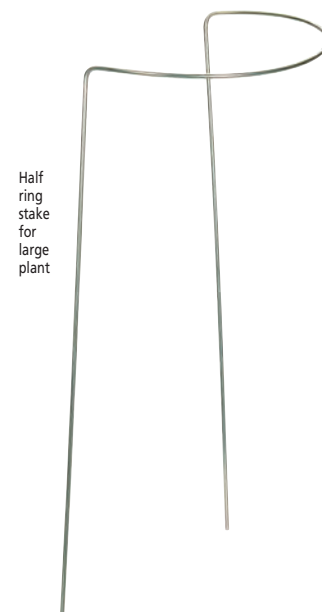
Ring stake.



Half ring stake for large plant.



Ring stake



Half ring stake for large plant

Adjustable ring stake

Ring with patented clipping system, allowing easy installation at any height.

Possible to install several rings on the same support rod stake.

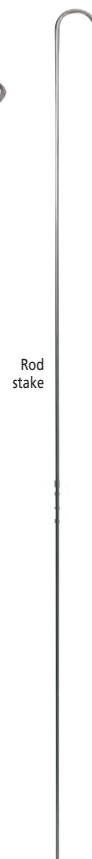
Description	Material	Size	Reference	Packaging
Rod stake Ø 7 mm	Galva. steel	1 450 mm	10450-044	50
Adjustable ring	Galva. steel	Ø 110 mm	110-044	50



Adjustable ring stake. Scan to view the video.



Adjustable ring



Rod stake



Stake with rings

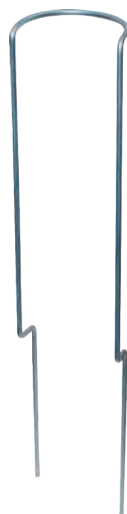


Vine plant protection

Vine plant protection

Metal parts used to protect vine plants against machine feelers.

Description	Height	Reference	Packaging
Round protection galvanized steel wire Ø 5.2 mm	500 mm (of which 300 mm above ground)	800500-044	50
U-shaped stake in raw steel wire Ø 5.2 mm (entourage not included). Possibility of hanging on support wire using the stake clip N° 1 ref. 32-042, see page 49.	800 mm	800100-044	50
Straight rod galvanized steel Ø 5.2 - 6 or 7 mm. Possibility of hanging on support wire using the stake clip N° 2 ref. 33-042, see page 51.	On request		



Traceability disk

Engraved identity disk and management software

Colored aluminum identification disk with a unique number or custom-engraved.

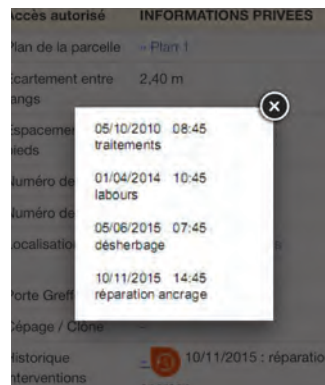
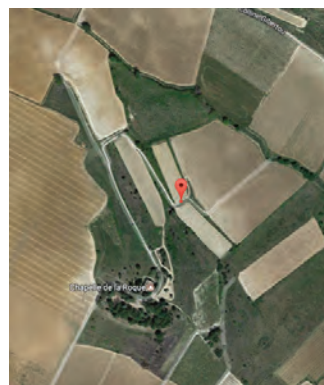
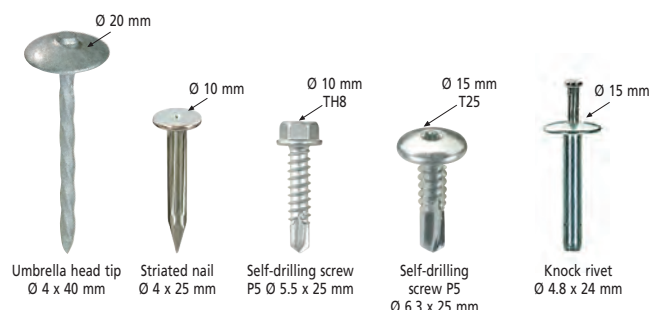
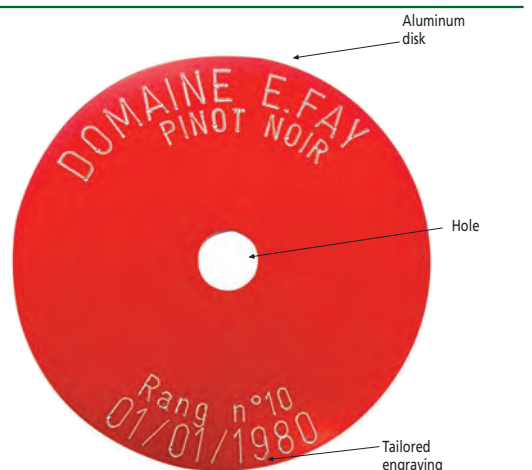
This makes it possible to identify each area or row and thus to follow each operation (pruning, treatments... by whom and when...).

We provide a web application (compatible with smartphone, tablet and computer) specially designed to manage the data associated with the disk.

Disk with diameters of 70, 40 or 25 mm, which can be fixed on all types of supports (metal, wood, concrete, etc.).

Description	Ø hole	Reference	Packaging
Disk Ø 70 mm	10 mm	According to color	50
Disk Ø 40 mm	10 mm	According to color	50
Disk Ø 40 mm	5 mm	According to color	50
Disk Ø 25 mm	5 mm	According to color	50
Tip Ø 4 x 40 mm umbrella head for wood post	for hole Ø 10 or Ø 5 mm	4040-017	100
Striated nail Ø 4 x 25 mm for wood post	for hole Ø 5 mm	4025-047	100
Self-drilling screw P5 TH Ø 5.5 x 25 mm TK12 for metal post not drilled (5 mm max of thickness).	for hole Ø 5 mm	55025-091	100
Self-drilling screw P5 TCB Ø 6.3 x 25 mm Zn for metal post not drilled (5 mm max of thickness).	for hole Ø 10 mm	363025-051	100
Knock rivet 4.8 x 24 mm for concrete post drilled Ø 6 mm	for hole Ø 10 or Ø 5 mm	482400-020	100

Contact us for other fixing solutions.



Application code



Ground markers

Wooden pegs

Square section 35 x 35 mm or 50 x 50 mm. Tapered spike. The top end can be natural or colored.

Dimension	Colors	Reference	Packaging
35 x 35 x 350 mm	Natural	4043-047	50
35 x 35 x 350 mm	Yellow	4041-047	50
35 x 35 x 350 mm	Red	4040-047	50
35 x 35 x 350 mm	White	4042-047	50
50 x 50 x 500 mm	Natural	5053-047	50
50 x 50 x 500 mm	Red	5050-047	50



Metal pin and label

Pin in galvanized steel and painted - length 340 mm, in Ø 5 mm steel wire.

A loop at the top allows to hang a label or pass a twine.

Description	Reference	Packaging
Natural galvanized pin	15350-047	100
Yellow pin	15302-047	100
Green pin	15307-047	100
Red pin	15301-047	100
Blue pin	15304-047	100
White pin	15300-047	100
Label 75 x 105 mm	260-047	100
Label 105 x 150 mm	259-047	100

Available in other colors, on request.



Vineyard marker

Dimensions: square base 140 x 140 mm, height 300 mm.

In Polyroc material (high resistance mixture of polyester resin and silica / calcium carbonate), which is very similar to granite.

Description	Reference	Packaging
H300 vineyard marker	According to color	1
800 mm hammered anchor	800-047	25
Engraved disk	On request	50
Nameplate	On request	50



Aerosol paint

Allows quick and excellent marking, including on grass and soil.

Color	H ₂ O paint	Classic paint	Packaging
Yellow	81001-047	80001-047	12
Green	81004-047	80004-047	12
Red	81003-047	80003-047	12
Blue	81005-047	80005-047	12
White	81009-047	80009-047	12

Other colors available, on request.



H₂O paint



Classic paint



Checkerboard and reflective targets

Checkerboard targets

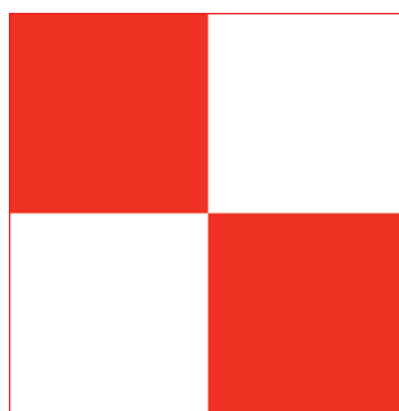
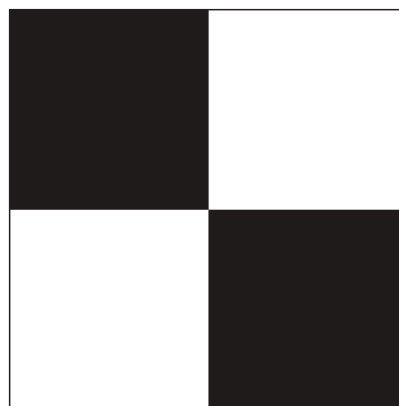
Square photogrammetric target, in semi-rigid cellular polypropylene. Allows the guiding of drones in the vineyards and the photographic reconstruction of the environment.

Description	Dimension	Reference	Packaging
Black and white checkerboard	400 x 400 mm	400400-047	10
Red and white checkerboard	400 x 400 mm	400401-047	10
White neutral plate*	400 x 400 mm	24140-047	50
White neutral plate**	400 x 400 mm	24040-047	50
White neutral plate**	300 x 300 mm	23030-047	50

Fixing solution according to the support, on request.

*has a centering point in the center.

**has a hole in the center Ø 14 mm.



Reflective targets

Adhesive and reflective target.

Available in 3 sizes: 20 x 20, 40 x 40 and 60 x 60 mm.

When the light is low, in autumn and winter, the targets fixed on a few posts allow a better visual appreciation of the row for the machine operator.

Description	Reference	Packaging
Adhesive target 20 x 20 mm	2020-047	40
Adhesive target 40 x 40 mm	2021-047	20
Adhesive target 60 x 60 mm	2022-047	10
Aluminum target support plate* 80 x 80 mm	9300-047	10

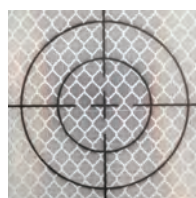
*Fixing on post according to its nature, on request.



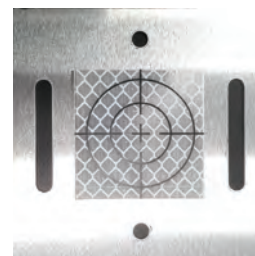
Target
20 x 20 mm



Target
40 x 40 mm



Target
60 x 60 mm



80 x 80 mm
plate

Greenhouses accessories



Greenhouses
accessories

Tubes assembly p. 58

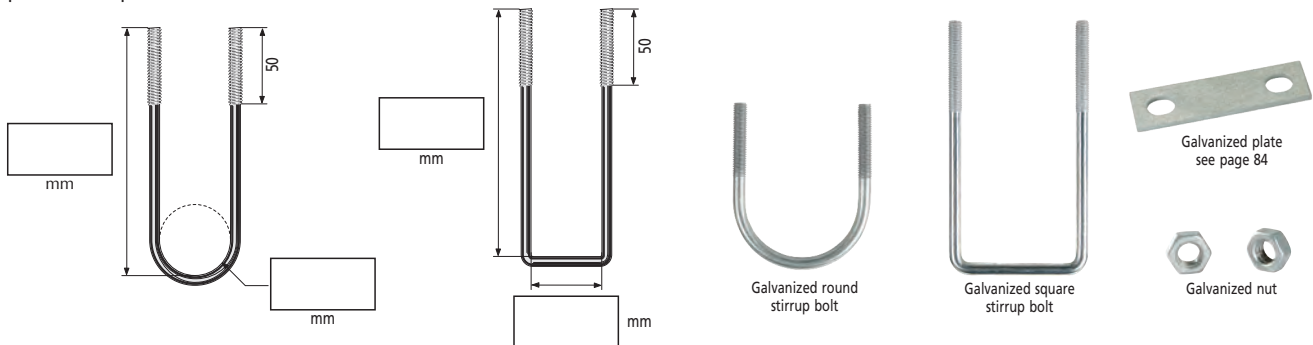
Hanging gutters elements p. 59

Greenhouse accessories p. 60

Tubes assembly

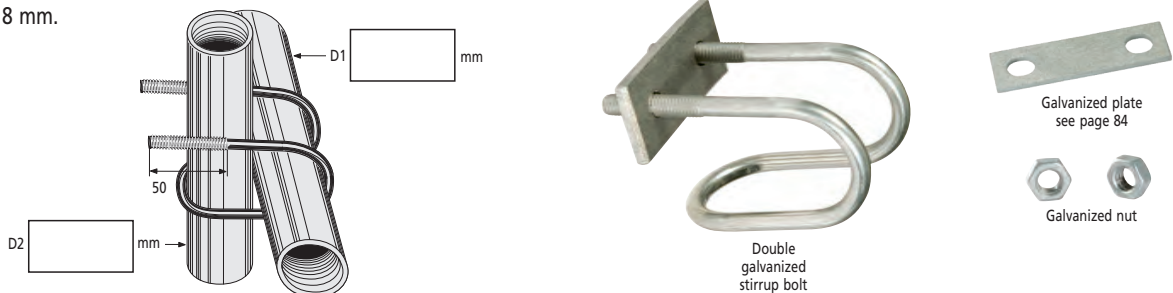
Single tube stirrup bolt

The single tube stirrup bolt allows the fixing of 2 elements for the installation of a structure. Made of Galvanized steel. Supplied with nut. Available in Ø 6, Ø 7 or Ø 8 mm. Stirrup bolt dimensions and plate: on request.



Double tube stirrup bolt

The double tube stirrup bolt allows to fixe two tubes or two wooden posts perpendicularly. Made of galvanized steel. Supplied with nut. Available in Ø 8 mm.



Tube attach on ground

Allows the tube to be kept on the ground. Made of galvanized steel. To be associated with a hammered anchor. To place if possible staggered along the tube.

Description	For tube	Reference	Packaging
"U" shape attach	≤ Ø 32 mm	620001-044	100
Open attach	≤ Ø 32 mm	32-044	100
"U" shape attach in wire*	Ø 42 mm	42-044	100

*Other diameters consult us.



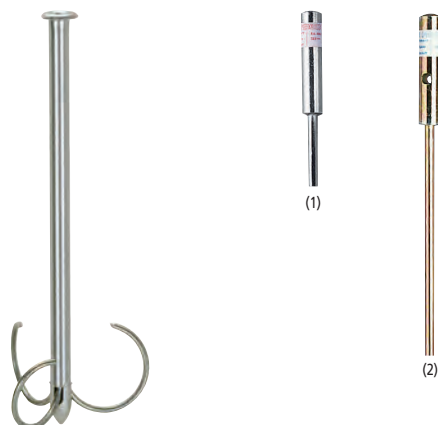
Tube secured with attach in wire and hammered anchor.

Standard hammered anchors

Made of hot-dip galvanized steel (inside and outside) according to NF EN ISO 1461 standard (see page 91).

With a Ø 17 mm body and a Ø 30 mm collar. Easy to install with a simple hammer, the hammered anchor with its 3 anchoring rods that can be deployed in the ground, offers incomparable resistance to pull out. Thanks to a massive rid in high resistant steel who allows an easy placement, the anchor is particularly recommended for hard and stony soils.

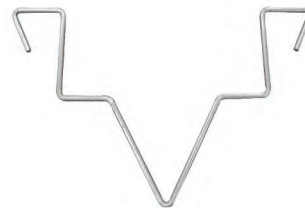
Length	Reference anchor	Reference driving tool ⁽¹⁾	Reference sleeve ⁽²⁾	Packaging
350 mm	350-047	130-047	20350-047	50
500 mm	511-044	80-044	20510-047	50
600 mm	611-044	180-044	20610-047	50



Hanging gutters elements

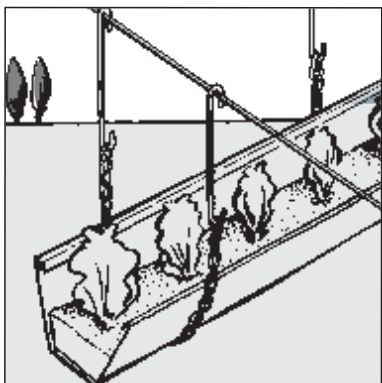
Hanging gutters support

Made of galvanized steel wire Ø 5.2 or 7 mm, allowing the connection suitable for supporting gutters as part of an soilless hydroponics agriculture. Dimensions on request.



Gutter hanger rods

Made of galvanized steel wire Ø 5.2 or 7 mm, allowing the connection between hanging gutters support and the high greenhouse structure. The rods are associated with each other using loops or thread, in order to obtain big lengths. Dimensions on request.



Holding system for gutters.



Loops hanger rod
(loops on the same side)



Perpendicular loops
hanger rod



Threaded
hanger rod

Connection accessories

For threaded gutter hanger rods.

Description	Dimension	Reference	Packaging
Cylindrical M8 tapped sleeve zinc plated	L. 50 mm	50-016	–
Hexagonal M8 tapped sleeve zinc plated	L. 20 mm	30-016	100
"U" plate galvanized - thickness 2mm	H. 100 mm	1001-102	–
	H. 150 mm	1000-102	–



Hexagonal
tapped
sleeve



Cylindrical
tapped
sleeve

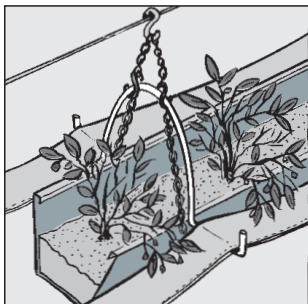


"U" plate

Greenhouse accessories

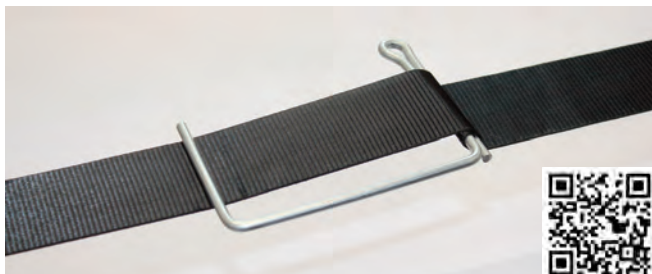
Tape support

The tape support allows hanging tapes on each side to support and collect small fruits.



Tape tensioner

Associated with the tape support, the tape tensioner is design for tensioning tape without cutting or damaging. For tapes of 70 mm width maximum. Galvanized steel Ø 5.2 mm, ref. 70-042.



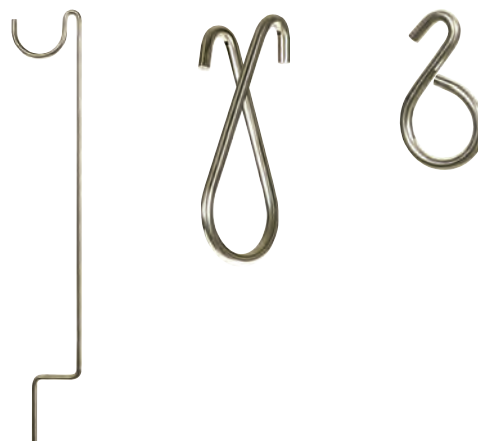
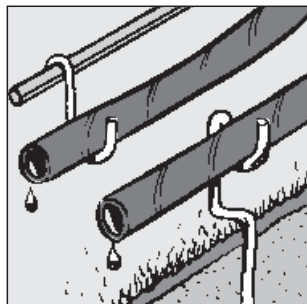
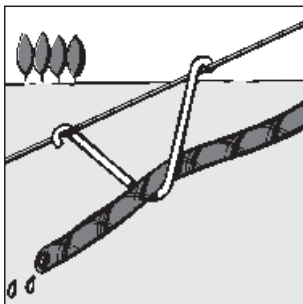
Tape tensioner in situation. Scan to view the video.



Tape tensioner

Irrigation pipe hooks

Attached to the gutter or fixed into the ground, they allow installation at the desired height of a irrigation pipe.

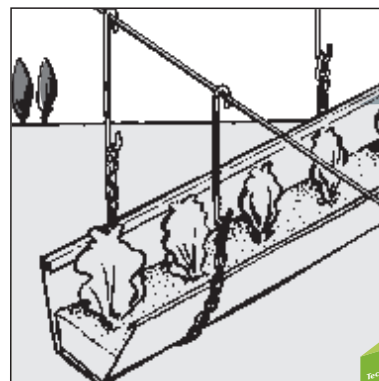


Chains

For hanging the gutters and tape support. Allows height adjustment. The last link is slightly open allowing the joining of the chains together.

Description	Length	Reference	Packaging
Galvanized chains	210 mm	210-044	100
	310 mm	310-044	100
	420 mm	420-044	100

Stainless steel chain see page 30.



Arboriculture accessories



Arboriculture
accessories

Root ball anchoring system..... p. 62

Tree guying..... p. 63

Accessories..... p. 64

Traceability disk..... p. 65

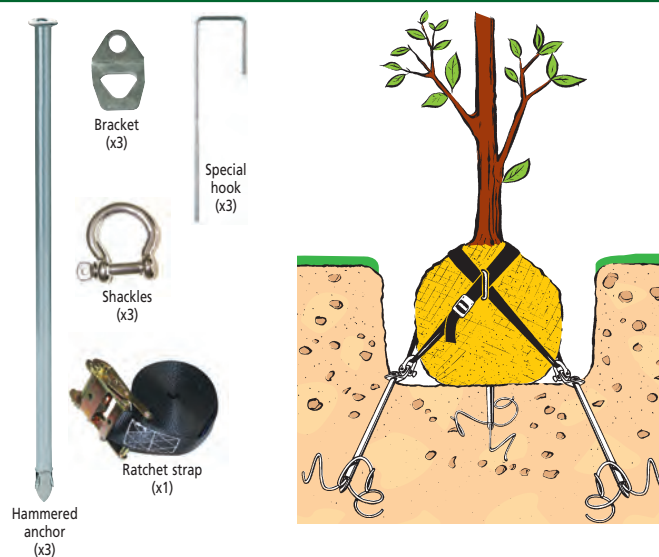
Root ball anchoring system

Root ball anchoring system

The root ball anchoring system stabilizes the tree during its implantation. It also secures the assembly against theft, due to its discretion and resistance. The set are made up of 3 hammered anchors, 3 brackets, 3 warn shackles, 3 special hooks and 1 ratchet strap.

Description	For trees	Reference	Packaging
System N° 1	Small tree size: 2 to 5 m (anchor of 500 mm and 5 m strap)	5050-042	1
System N° 2	Tree size: 5 to 10 m (anchor of 600 mm and 10 m strap)	5051-042	1
System N° 3	Tree size: 10 to 15 m (anchor of 1000 mm and 13 m strap)	5054-042	1

Installation tools: see page 14.



USE:



Installing the root ball.



Installing the hammered anchors (see page 15).



Installing the strap.



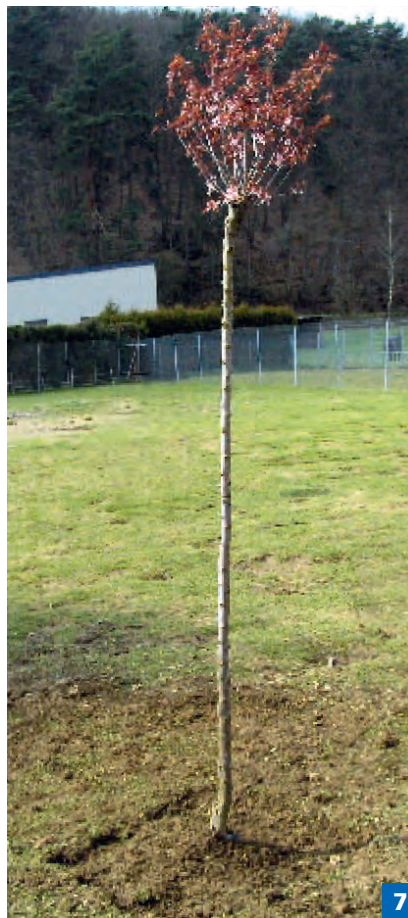
Installing the special hooks.



Tighten the strap.



Root ball before being covered



Root ball covered.

Tree guying

Tree guying with hammered anchor

Allows trees to be secured, without injuring them.

Description	Reference	Packaging
Ratchet strap 5 m	5047-042	1
Ratchet strap 10 m	5048-042	1
Ratchet strap 13 m	5053-042	1
500 mm hammered anchor*	510-044	50
600 mm hammered anchor*	610-044	50
Reinforcement cross	17100-044	50
200 mm standard extension	400290-044	50

*Installation tool: see page 14.



Standard extension



Ratchet strap



Hammered anchor with reinforcement cross (delivered unassembled)

Tree guying with screw-in anchoring disk

Allows trees to be secured, without injuring them.

Description	Reference	Packaging
Ratchet strap 5 m	5047-042	1
Ratchet strap 10 m	5048-042	1
Ratchet strap 13 m	5053-042	1
Reinforcement cross	12100-044	50
Fixgrip anchoring disk	see page 20	100



Ratchet strap



Anchoring disc with reinforcement cross (delivered unassembled)

Accessories

Branches bender

The branches bender allows to arch a branch without damaging it, throughout its growth. It "clips" directly onto the branch. The purpose is to bend the branch to 60 degree angle, to increase fruit buds production.

Different angles and wire diameters are possible to adapt to each tree and their growing environment.

Galvanized steel wire Ø 5.2 mm.

Adapts to branches from Ø 5 to Ø 30 mm.

Different angles α : on request.



Branches bender.

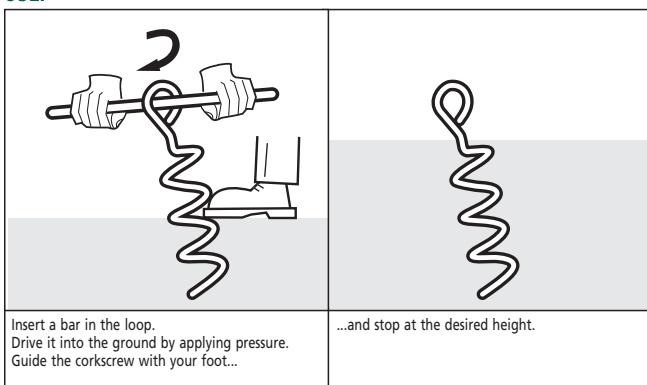
Reusable corkscrew anchors

Corkscrew shaped anchors are well known for their simplicity. Reusable, they are suitable for loose ground (limited tensile resistance).

Dimension Ø x L	Coating	Reference	Packaging
Ø 5.2 x 150 mm	Galva	55150-044	50
Ø 7 x 170 mm	Galva	57170-044	50

Conical corkscrew anchors: see page 21.

USE:



Insert a bar in the loop.
Drive it into the ground by applying pressure.
Guide the corkscrew with your foot...

...and stop at the desired height.



Corkscrew anchor during driving.
Scan to view the video.

Traceability disk

Engraved identity disk and management software

Colored aluminium identification disk with a unique number or custom-engraved.

This makes it possible to identify each area or row and thus to follow each operation (pruning, treatments... by whom and when...).

We provide a web application (compatible with smartphone, tablet and computer) specially designed to manage the data associated with the disk.

Washers available in Ø 25 and Ø 40 mm with Ø 5 mm hole.

Description	Reference	Packaging
Brown disk Ø 25 mm*	9804-047	50
Brown disk Ø 40 mm*	9607-047	50
Striated nail Ø 4 x 25 mm	4025-047	100

*Other colors available, on request.



Disk Ø 25 mm and hole Ø 5 mm



Disk Ø 40 mm and hole Ø 5 mm



Striated nail Ø 4 x 25 mm



Engraved identity disk on tree.



Home page



Flash code appli

ONFE1			
Groupe	Champ	Contenu	Modification
	Site	Square Klein-Wintermeyer	Modif >>
	Essence	Erable Plane	Modif >>
	Diamètre	50	Modif >>
	Position_GPS	Test	Modif >>
Groupe	Champ privé	Contenu privé	Modification
	Port	SL	Modif >>
	Vg.	Moyenne	Modif >>
	Vt.	2	Modif >>
	Stat	Adulte	Modif >>
	Defauts_Remarques	Racines étrangeuses	Modif >>
	Suivi	3	Modif >>
	Etat_de_santé	Médiocre	Modif >>
	Préconisations	Enlever le bois mort	Modif >>
	Rapport	240116	Modif >>
Archiver			
Autre Code Produit >			

Data

Fencing accessories



Fencing
accessories

Anchors and tools
for fencing wire holder..... p. 68

Bottom fence holding system. p. 69-70

Plates and stirrup bolt..... p. 71

Accessories for fences..... p. 72

Anchors and tools for fencing wire holder

Standard hammered anchors

Made of hot-dip galvanized steel (inside and outside) according to NF EN ISO 1461.

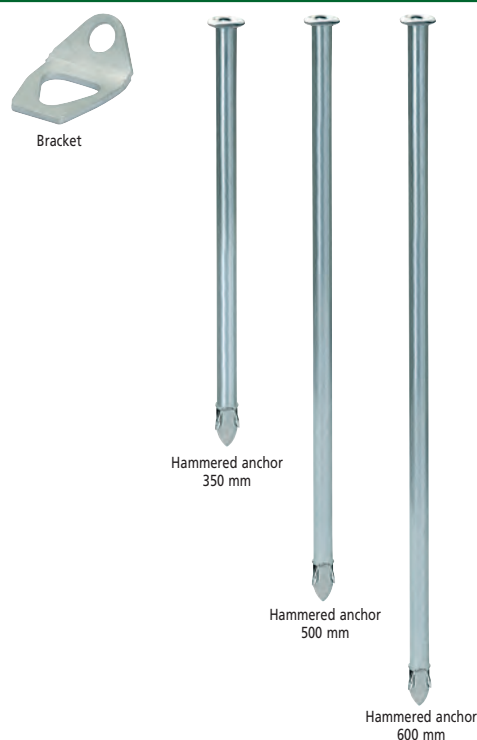
Easy to install using a simple hammer, the hammered anchor with its three anchoring rods deploying in the ground offers unrivalled resistance to pulling out.

Thanks to a massive rib in high resistant steel who allows an easy placement, the anchor is particularly recommended for hard and stony soils.

A galvanized steel Bracket is placed under the anchor collar, allowing the attachment of the multi-wire mesh attachment.

Length	Reference	Packaging
350 mm with bracket	350-044	50
350 mm without bracket	350-047	50
500 mm with bracket	510-044	50
500 mm without bracket	511-044	50
600 mm with bracket	610-044	50
600 mm without bracket	611-044	50

Other lengths available, on request.



Ground plate

Hot-dipped galvanized steel. Essential to prevent the anchor sinking into the ground during driving.

Description	Reference	Packaging
Split plate	1714-044	1



Driving tool

Essential, to drive down the anchor in the ground, prevents to damage the collar of the anchor and the anchor rods from rising.

For hammered anchor	Reference	Packaging
350 mm hammered anchor	130-047	1
500 mm hammered anchor	80-044	1
600 mm hammered anchor	180-044	1



Sleeve

Essential for deploying the anchor rods and locking the anchor solidly in the ground round.

For hammered anchor	Reference	Packaging
350 mm hammered anchor	20350-047	1
500 mm hammered anchor	20510-047	1
600 mm hammered anchor	20610-047	1



Bottom fence holding system



Multiple wire holder

Prevent animals from passing under flexible fences.
Hot-dip galvanized steel. Adapted to each fence mesh.
Use the bracket with hammered anchors.

Mesh	Reference	Packaging
3 x 76.2 + 1 x 101.6	603076-044	50
3 x 76.2 + 1 x 101.6*	613076-044	50
4 x 89	604089-044	50
4 x 76.2	604076-044	50
2 x 152.4	602152-044	50
3 x 101.6*	613010-044	50

*Wide entrances.

USE:

Install the multiple wire holder in the fencing mesh.	Install the bracket in the drawing direction and introduce the hammered anchor through the bracket.	Drive the hammered anchor with the driving tool.	Use the sleeve to locking the hammered anchor by deploying the 3 rods in the ground.



Multiple wire holder with hammered anchor in the ground.
Scan to view the video.

Single wire holder

Made of galvanized steel. Allows the attachment of rigid or single wire. The anchor (without bracket) is introduced through the 2 holes of the single wire holder.

Wire / bar diameter	Reference	Packaging
Size ≤ Ø 10 mm	620000-044	100
Size ≤ Ø 16 mm	620016-044	100

USE:

Install the single wire holder in the bottom fence wire.	and introduce the hammered anchor through the single wire holder.	Drive the hammered anchor with the driving tool.	Use the sleeve to locking the hammered anchor by deploying the 3 rods in the ground.



Single wire holder with hammered anchor in the ground.

Multiple wire holder in concrete

Prevents the lifting of flexible grids.

Made of galvanized steel. Adapted to each fence mesh.

Fixing through the Bracket using a 10 x 60 mm zinc-plated bolt anchor, ref. 610060-082 or nylon plug with zinc-plated TH screw 10 x 80 mm, ref. 410080-082 or also a stainless steel bolt anchor 10 x 90 mm, ref. 810 090-082.

Mesh	Reference	Packaging
3 x 76.2 + 1 x 101.6	603076-044	50
3 x 76.2 + 1 x 101.6*	613076-044	50
4 x 89	604089-044	50
4 x 76.2	604076-044	50
2 x 152.4	602152-044	50
3 x 101.6*	613010-044	50
Bracket	300-044	10

*Wide entrances.

Contact us for other fixing solutions.



Bracket



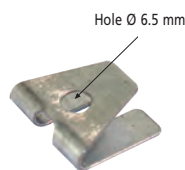
Multiple wire holder in concrete.

Single wire holder in concrete

Made of galvanized steel. Allows to maintain rigid and semi-rigid wire.

Suitable for Ø 4 mm wires.
Fixing using an 8 x 40 mm nylon plug, ref. 28040-082 and an AT TCB stainless steel 4.8 x 38 mm screw, ref. 48139-075 or a 6 x 40 mm screw-in galvanized wood screw, ref. 16040-021.

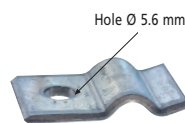
Designation	Reference	Packaging
U-clip	501-042	100
Wire guide	3-042	100



U-clip



U-clip



Wire guide

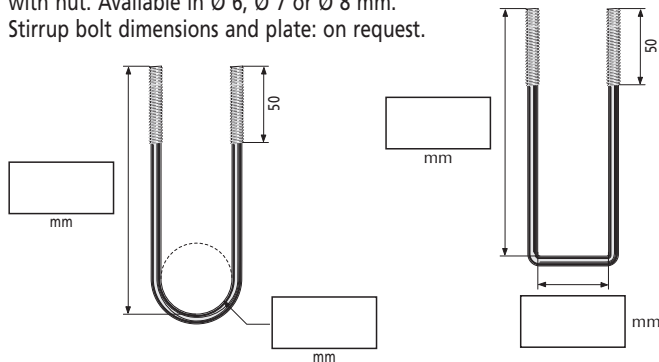


Wire guide.

Plates and stirrup bolt

Single stirrup bolt

The single stirrup bolt allows the fixing of 2 elements for the installation of a structure. Made of galvanized steel. Supplied with nut. Available in Ø 6, Ø 7 or Ø 8 mm. Stirrup bolt dimensions and plate: on request.



Galvanized round stirrup bolt



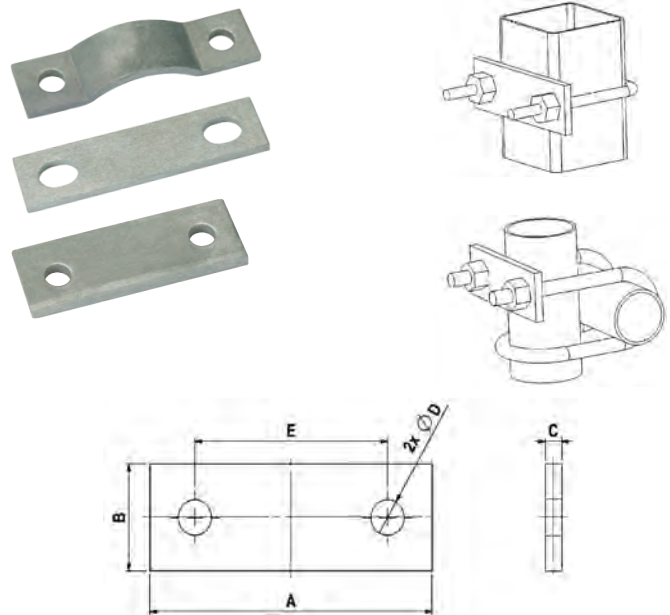
Galvanized square stirrup bolt

Straight and curved plates

Straight or curved plates in hot-dip galvanized steel according to standard NF EN ISO 1461.

Description	Dim. A x B x C	Dim. D / E	Reference	Packaging
Curved plate from Ø 55 to Ø 60 mm	96.5 x 25 x 4	2 x Ø 10 oblongs from 63 to 67	902212-078	-
	95 x 25 x 4	2 x Ø 10 oblongs from 63 to 67	902211-078	-
	85 x 25 x 4	2 x Ø 10 / 58	902210-078	-
Straight plate	65 x 25 x 4	2 x Ø 10 / 38	902209-078	-
	70 x 25 x 4	2 x Ø 9 / 43	902207-078	-
	75 x 25 x 4	2 x Ø 10 / 48	902206-078	-
	100 x 30 x 5	2 x Ø 12 / 68	902205-078	-
	95 x 25 x 4	2 x Ø 10 / 68	902202-078	-
	85 x 30 x 5	2 x Ø 10 / 58	90207-078	-

Other dimensions possible, consult us.



U-shaped plates

3 mm thick hot-dip galvanized steel plates. Allows to maintain wires on all supports (contact us for the fasteners type).

Description	Ø hole	Reference	Packaging
Plate type 1	Ø 9 mm	120-058	25
	Ø 11 mm	8011-058	25
Plate type 2	Ø 10 mm	45-058	50

Possibility to made it in hot dip galvanized to increase the corrosion resistance, or colored it in epoxy treatment. Size: see page 84.



Plate type 1



Plate type 2



Rigide fence fixed by the plate type1 on en angled post.

Accessories for fences

Colored tensioner

For greater protection against corrosion or for aesthetic reasons, the Fenox tensioner can be covered with colored polyester.

Tensioner N° 1 suitable for wires up to Ø 2.7 mm and tensioner N° 2 suitable for wires up to Ø 3.5 mm.

handle ref. 9-042.

Description	Color	Reference	Packaging
Tensioner N° 1	White	12-042	100
Tensioner N° 1	Green	13-042	100
Tensioner N° 2	Orange	21-042	100

Other colors on request.



Tensioner at the same color.

Galvanized tensioner N° 3 for barbed wire and fruit tree wire

Made of high-strength galvanized steel, the Fenox tensioner is design for tensioning wires without cutting them or damaging them.

They offer impressive tensioning.

The N° 3 Tensioner is fit to Barbed wire and smooth wire until 5mm diameter.

Description	For	Reference	Packaging
Tensioner N° 3	Wire up to 5 mm	30-042	25
Installation kit (handle + rod)	–	9-042 +31-042	1



Tensioner on barbed wire.

USE:

	1	Present the tensioner loop behind the wire, with the tensioner arm towards you.
	2	Clip the tensioner over the wire by bringing the arm to the left (according to the arrow).
	3	Attach the arm end to the wire. Locking is possible on every half turn. Repeat these operation to obtain the desired tension.
	4	Grasp the plastic tube in the left hand and slip it over the lower part of the tensioner used as axis of rotation. Then put the lever arm rod in the tensioner loop.
	5	Hold the plastic tube in your left hand and turn 1/2 rotation clockwise.
	6	Attach the arm end to the wire. Locking is possible on every half turn. Repeat these operation to obtain the desired tension.



Scan to view the video.

Bolt anchor for fence foot in concrete

Bolt anchor for securing post bases and accessories in concrete support.

Dimensions	Reference in zinc plated	Reference in stainless steel	Tightening capacity	Packaging
8 x 75 mm	508075-082	808075-082	5 mm	100
10 x 90 mm	510090-082	810090-082	10 mm	100
12 x 110 mm	512110-082	812110-082	18 mm	50

Other bolt anchor available, see page 89.



Bolt anchor for fence foot in concrete.

Plants and garden accessories



Flower pot holder..... p. 74

Geotextile covers fastening..... p. 75

Fixing accessories..... p. 76

Tubes assembly..... p. 77

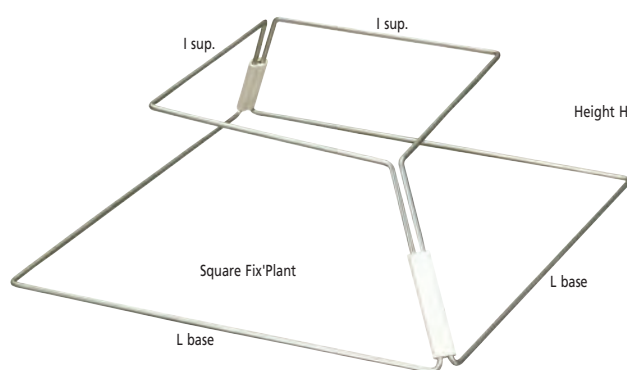
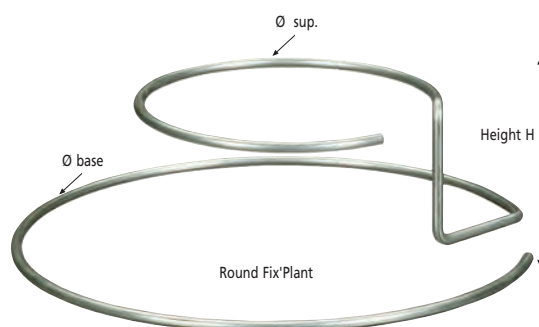
Flower pot holder



Fix'Plant

Made of hot-dip galvanized steel wire, the pot holder, practical and aesthetic, prevents potted plants from falling due to the wind.

Description	Dim./volume	Reference	Packaging
Fix'Plant N° 0 round	H = 90 - Ø sup = 165 Ø base = 260 / 2L	699999-042	50
Fix'Plant N° 1 round	H = 90 - Ø sup = 180 Ø base = 260 / 2-3L	700000-042	50
Fix'Plant N° 2 round	H = 90 - Ø sup = 180 Ø base = 310 / 2-3L	700002-042	50
Fix'Plant N° 3 round	H = 100 - Ø sup = 190 Ø base = 310 / 3-4L	700003-042	50
Fix'Plant N° 4 round	H = 100 - Ø sup = 200 Ø base = 310 / 4-5L	700004-042	50
Fix'Plant N° 6 square	H = 140 - l sup = 240 L base = 420 / 7,5L	700006-042	50
Fix'Plant N° 7 square	H = 165 - l sup = 230 L base = 420 / 7,5L	700007-042	50
Fix'Plant N° 9 square	H = 150 - l sup = 260 L base = 420 / 10L	700009-042	50
Fix'Plant N° 10 square	H = 185 - l sup = 250 L base = 420 / 10L	700010-042	50



Round flower pot holder. Scan to view the video.



Geotextile covers fastening

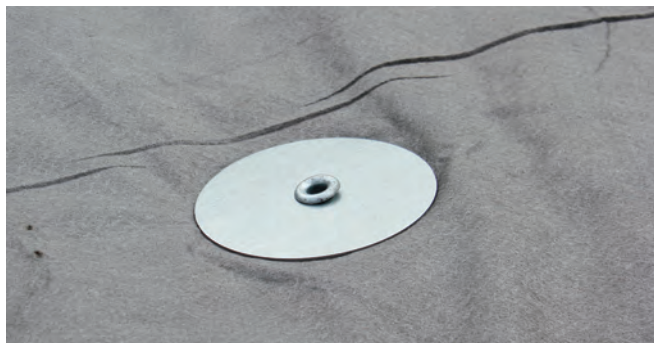
Holding disk

Disk made of galvanized steel, combined with a hammered anchor.

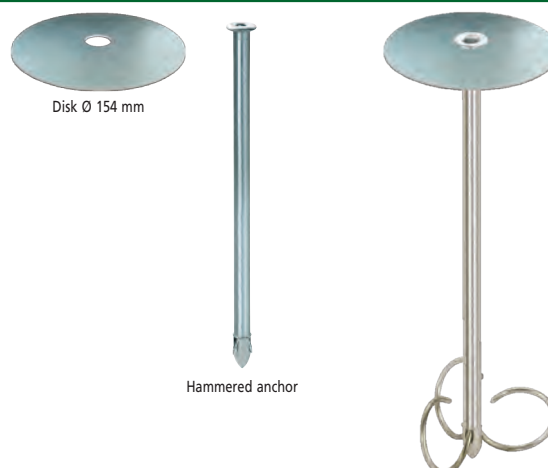
Allows to maintain geotextile covers.

Description	Reference	Packaging
Disk: Ø 154 x 2 mm	154-044	50
Hammered anchor: 350 mm*	350-047	50

*More anchor and tools: see page 14.



Holding disk on geotextile cover.



Holding staple

Made of galvanized steel wire.

In "U" shape, diameter 3 or 5.2 mm.

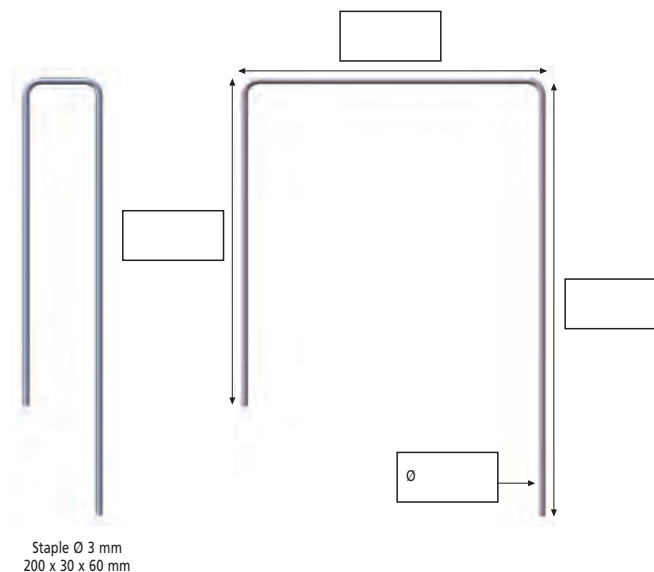
To maintain geotextile covers.

Description	Dimension	Reference	Packaging
Staple Ø 3 mm	200 x 30 x 160 mm*	10200-044	-
Staple Ø 5.2 mm	On request	-	-

*Other sizes and shapes: on request.



Protective felt around a tree fixed by staple.



Fixing accessories

Border anchoring

Requires a pre-drilling of Ø 24 mm in the element.
Is used for fixing borders, wooden edge in landscaping, parking wheel stops.

Anchor	Reference	Packaging
350 mm hammered anchor	350-047	50
500 mm hammered anchor	511-044	50

Tools, see page 14.



Synthetic turf attachments

Allows holding synthetic turf.

Description	Dimension	Reference	Packaging
Galvanized U-shaped staple	200 x 30 x 160*	10200-044	100
Aluminium tip	Ø 5 x 120 mm	15120-017	100
Green washer	Ø 25 mm	10008-047	100

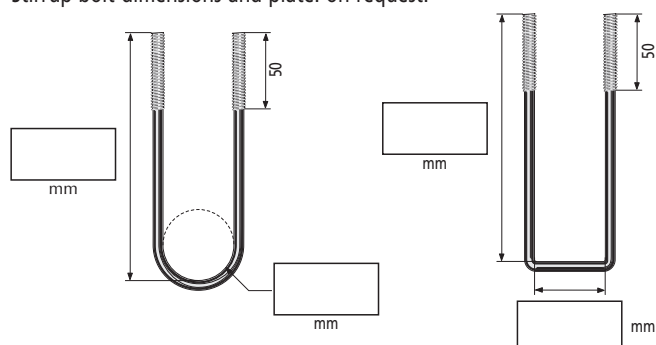
*Other sizes and shapes: on request.



Tubes assembly

Single tube stirrup bolt

The single tube stirrup bolt allows the fixing of 2 elements for the installation of a structure. Made of galvanized steel. Supplied with nut. Available in Ø 6, Ø 7 or Ø 8 mm. Stirrup bolt dimensions and plate: on request.



Galvanized round stirrup bolt



Galvanized square stirrup bolt



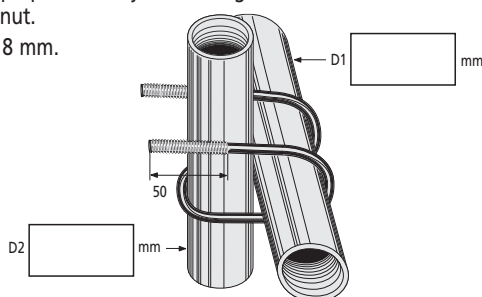
Galvanized plate see page 84



Galvanized nut

Double tube stirrup bolt

The double tube stirrup bolt allows to fix two tubes or two wooden posts perpendicularly. Made of galvanized steel. Supplied with nut. Available in Ø 8 mm.



Double galvanized stirrup bolt



Galvanized plate see page 84



Galvanized nut

Tube attach on ground

Allows the tube to be kept on the ground. Made of galvanized steel. To be associated with a hammered anchor. To place if possible staggered along the tube.

Description	For tube	Reference	Packaging
"U" shape attach	≤ Ø 32 mm	620001-044	100
Open attach	≤ Ø 32 mm	32-044	100
"U" shape attach in wire*	Ø 42 mm	42-044	100

*Other diameters consult us.



"U" shape attach



Open attach



"U" shape attach in wire



Tube secured with attach in wire and hammered anchor.

Standard hammered anchors

Made of hot-dip galvanized steel (inside and outside) according to NF EN ISO 1461 standard (see page 91).

With a Ø 17 mm body and a Ø 30 mm collar. Easy to install with a simple hammer, the hammered anchor with its 3 anchoring rods that can be deployed in the ground, offers incomparable resistance to pull out. Thanks to a massive rid in high resistant steel who allows an easy placement, the anchor is particularly recommended for hard and stony soils.

Length	Reference anchor	Reference driving tool ⁽¹⁾	Reference sleeve ⁽²⁾	Anchors packaging
350 mm	350-047	130-047	20350-047	50
500 mm	511-044	80-044	20510-047	50
600 mm	611-044	180-044	20610-047	50



(1)



(2)

Fixings of furniture in the ground



Wooden posts fixing
to the ground..... p. 80

Wooden furniture securing..... p. 81

Various anchors..... p. 82

Wooden posts fixing to the ground



Post anchor in the ground

For quick fixing of wooden sign posts in the ground.

Anchor system made up of a special hot-dip galvanized hammered anchor and a reinforcement cross, increasing the lateral resistance.

The hammered anchor has an upper part above the ground, allowing the pre-drilled wooden post (Ø 21 x 200 mm) to be fitted on it.

Description	Reference	Packaging
800 mm hammered anchor Ø 21 mm collar collar offset by 200 mm*	—	—
Reinforcement cross H 100 mm for hammered anchor Ø 21 mm	21100-044	50

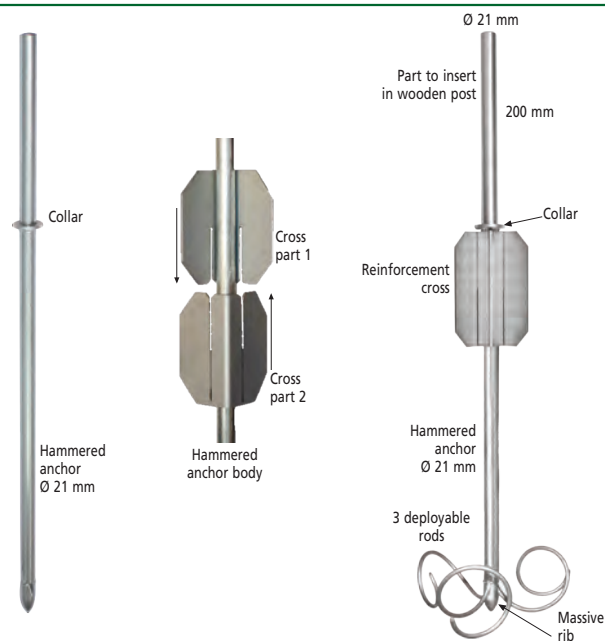
Driving tool ref. 210800-047, sleeve ref. 216002-047,
split plate ref. 2017-044.

Particular care must be taken when installing the anchor and when drilling the post in order to have good verticality.

The fact of anchoring in the ground more or less soft, will never have the same resistance as concrete.

Delivered unassembled.

*Contact us for production time.



Install the cross.



Driving in the hammered anchor.



Deploy rods using the sleeve and the split plate.



Fitting of the wooden post on the hammered anchor.

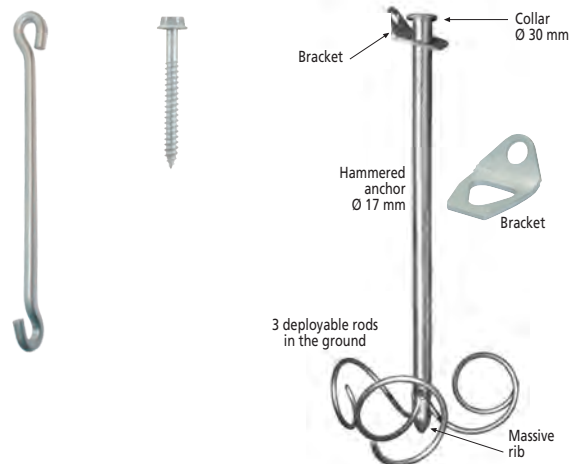


Wooden furniture securing

Furniture securisation in the ground

Maintain wood furniture with 4 stable feet, using hammered anchor and arms fixed by wood screws.

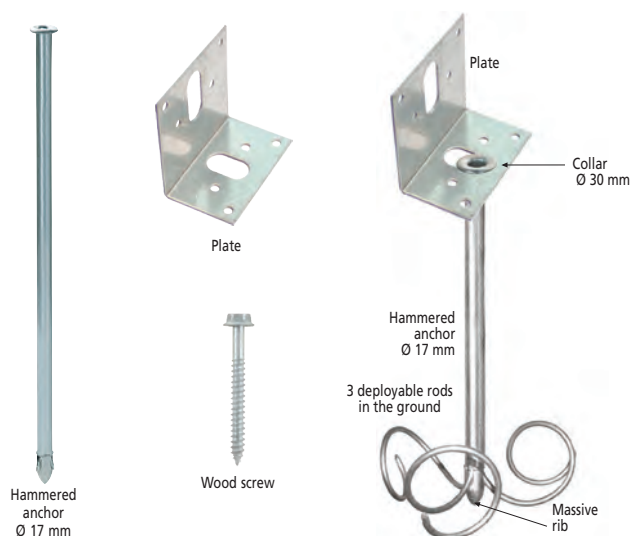
Description	Reference	Packaging
500 mm hammered anchor	510-044	50
Galvanized arm Ø 5.2 mm	–	–
Galvanized wood screw Ø 6 x 40 mm	16040-021	100



Furniture securisation in the ground

Maintain wood furniture with 4 stable feet, using hammered anchor and plate fixed by wood screws.

Description	Reference	Packaging
500 mm hammered anchor	511-044	50
Special plate	10060-044	50
Galvanized wood screw Ø 6 x 40 mm	16040-021	100



Various anchors

Border anchoring

Requires a pre-drilling of Ø 24 mm in the element.
Is used for fixing borders, wooden edge in landscaping,
parking wheel stops.

Anchor	Reference	Packaging
350 mm hammered anchor	350-047	50
500 mm hammered anchor	511-044	50

Tools, see page 14.



2 holes helical anchoring disk

Manufactured in a very high steel, the helical anchoring disk has
hot-dip galvanized protection.

The Ø 120 mm disk fit the galvanized steel rod and having an
M7 thread of 80 mm length.

Anchoring adapted for loose ground.

Description	Reference	Packaging
2-hole anchoring disk	123-044	50
Galvanized rod	–	10
Galvanized nut Ø 7 mm	2607-043	100
Manual tubular driving tool	102050-044	1

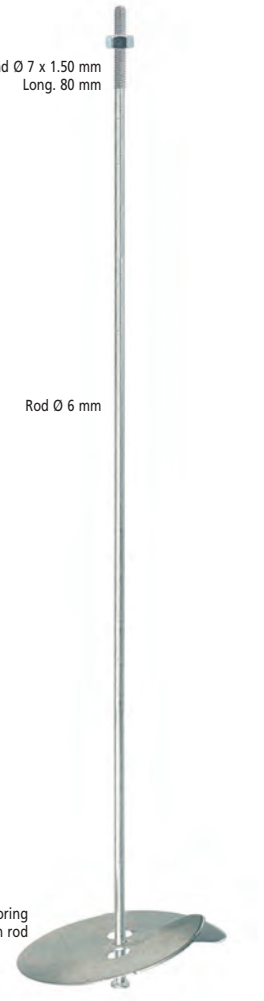


Anchoring disk
Ø 120 mm
2 oblong holes

Thread Ø 7 x 1.50 mm
Long. 80 mm

Rod Ø 6 mm

Anchoring
dish on rod



Various fixings and equipment



Various plates..... p. 84

Stainless steel fasteners
for wood..... p. 85

Various tips for wood..... p. 86

Various screws..... p. 87

Various accessories..... p. 88

Studs anchor p. 89

Equipment..... p. 90

Various plates

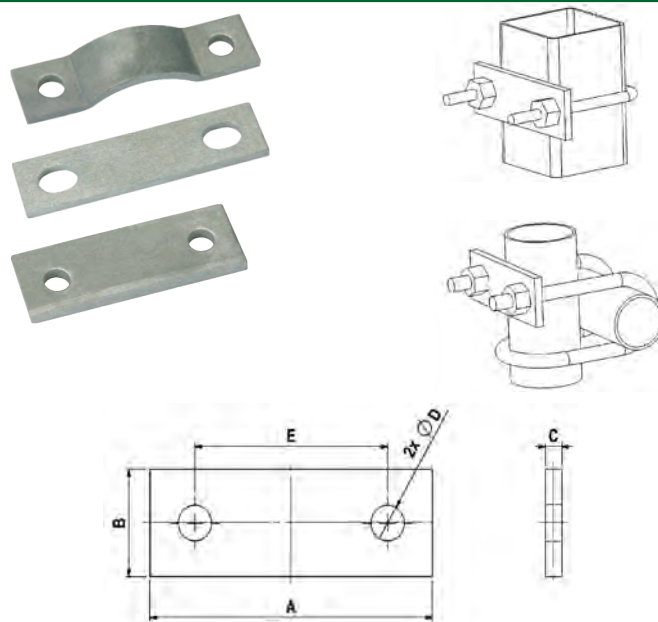
Straight and curved plates

Straight or curved plates in hot-dip galvanized steel according to standard NF EN ISO 1461.

Description	Dimen A x B x C	Dim. D / E	Reference	Packaging
Curved plate from Ø 55 to Ø 60 mm	96.5 x 25 x 4	2 x Ø 10 oblongs from 63 to 67	902212-078	–
	95 x 25 x 4	2 x Ø 10 oblongs from 63 to 67	902211-078	–
	85 x 25 x 4	2 x Ø 10 / 58	902210-078	–
Straight plate	65 x 25 x 4	2 x Ø 10 / 38	902209-078	–
	70 x 25 x 4	2 x Ø 9 / 43	902207-078	–
	75 x 25 x 4	2 x Ø 10 / 48	902206-078	–
	100 x 30 x 5	2 x Ø 12 / 68	902205-078	–
	95 x 25 x 4	2 x Ø 10 / 68	902202-078	–
	85 x 30 x 5	2 x Ø 10 / 58	90207-078	–

Other dimensions possible, consult us.

Stirrup bolt see page 58.



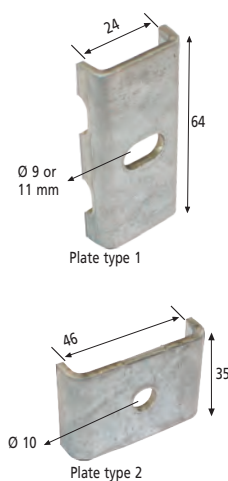
U-shaped plates

3 mm thick hot-dip galvanized steel plates.

Allows to maintain wires on all supports
(contact us for the fasteners type).

Description	Ø hole	Reference	Packaging
Plate type 1	Ø 9 mm	120-058	25
	Ø 11 mm	8011-058	25
Plate type 2	Ø 10 mm	45-058	50

Possibility to made it in hot dip galvanized to increase the corrosion resistance, or colored it in epoxy treatment.



Universal wire guide

Galvanized steel.

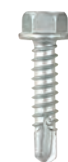
Used to lock a wire, on a metal or wooden posts.

Description	Reference	Packaging
Universal wire guide	3-042	100
Self-drilling screw TH P5 Ø 5.5 x 25 mm TK12 for metal support 1.5 to 5 mm thick	55025-091	100
Self-drilling screw TH P1 Ø 4.8 x 38 mm TK12 for wooden posts	48038-069	100

M6 bolt, reference 6015-044 or selfdrilling screw 4.8 x 16 mm for metal posts selfdrilling screw 4.8 x 38 mm, reference 48038-069 for wooden posts.



Universal wire guide



Self-drilling screw P5
Ø 5.5 x 25 mm



Self-drilling screw P1
Ø 4.8 x 38 mm



Universal wire guide on angled post.



Universal wire guide on wooden post.

Stainless steel fasteners for wood

Stainless steel TCB wood screw

Made of A2 austenitic stainless steel, with special thread for wood.
Screw with domed head Ø 13.5 mm and socket head Torx T30
(tool ref. 5053-039).

Dimension	Reference	Packaging
6 x 45 mm	960045-004	100
6 x 60 mm	960060-004	100
6 x 65 mm	960065-004	100
6 x 75 mm	960075-004	100
6 x 85 mm	960085-004	100
6 x 100 mm	960100-004	100
7.5 x 65 mm	975065-004	100
7.5 x 75 mm	975075-004	100
7.5 x 100 mm	975100-004	100



Screw Ø 6 mm



Screw Ø 7.5 mm



Stainless steel TF wood screw

Made of A2 austenitic stainless steel, with special thread for wood.
Countersunk screw with double cone and socket head Torx.

Dimension	Reference	Torx footprint	Packaging
4 x 30 mm	840030-004	T20	100
4 x 50 mm	840050-004	T20	100
4 x 60 mm	840060-004	T20	100
4 x 70 mm	840070-004	T20	100
4 x 80 mm	840080-004	T20	100
5 x 40 mm	850040-004	T25	100
5 x 100 mm	850100-004	T25	100
6 x 40 mm	860040-004	T25	100
6 x 45 mm	860045-004	T25	100
6 x 50 mm	860050-004	T25	100
6 x 60 mm	860060-004	T25	100
6 x 70 mm	860070-004	T25	100
6 x 80 mm	860080-004	T25	100
6 x 90 mm	860090-004	T25	100
6 x 100 mm	860100-004	T25	100
6 x 120 mm	860120-004	T25	100
6 x 130 mm	860130-004	T25	100
6 x 140 mm	860140-004	T25	100
6 x 160 mm	860160-004	T25	100
8 x 180 mm	860180-004	T40	100
8 x 200 mm	860200-004	T40	100
8 x 220 mm	860220-004	T40	100
8 x 240 mm	860240-004	T40	100
8 x 260 mm	860260-004	T40	100
8 x 280 mm	860280-004	T40	100
8 x 300 mm	860300-004	T40	100

T20 tool ref 5051-039 • T25 tool ref 5052-039 • T40 tool ref 5054-039.

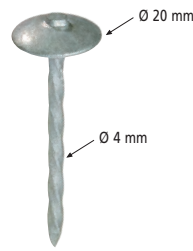


Various tips for wood

Umbrella head twist tip

Dimension	Reference	Weight %	Packaging
4 x 40 mm galvanized	4040-017	7	100
4 x 60 mm galvanized	4060-017	8	100
4 x 60 mm stainless steel	4060-004	8	100
4 x 70 mm galvanized	4070-017	9	100
4 x 80 mm galvanized	4080-017	10	100
4 x 90 mm galvanized	4090-017	11	100
4 x 100 mm galvanized	4100-017	12	100
4 x 120 mm galvanized	4120-017	14	100

Colored tips, on request.



Rolled tip

in zinc plated steel.

Dimension	Reference	Weight %	Packaging
3.2 x 40 mm	23240-017	2.5	500
4 x 50 mm	24050-017	6.0	500
5 x 80 mm	25080-017	12.0	100
5 x 100 mm	25100-017	14.0	100



Round head stainless steel tip

in 18/10 stainless steel (AISI 304).

Head: Ø 4.8 mm for Ø 2.5 mm tip
Ø 5.7 mm for Ø 2.8 mm tip.

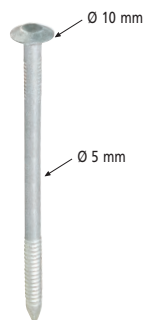
Dimension	Reference	Weight %	Packaging
2,5 x 30 mm	2530-004	1.5	500
2,5 x 40 mm	2540-004	1.7	500
2,8 x 50 mm	2850-004	2.2	100
2,8 x 60 mm	2860-004	3.0	100
2,8 x 70 mm	2870-004	3.3	100
2,8 x 80 mm	2880-004	3.6	100



Round head aluminium tip

made of aluminium alloy.

Dimension	Reference	Weight %	Packaging
5 x 60 mm	15060-017	2.5	100
5 x 80 mm	15080-017	3.0	100
5 x 90 mm	15090-017	4.0	100
5 x 100 mm	15100-017	5.0	100
5 x 120 mm	15120-017	6.0	100



Various screws

Galvanized wood screw

Galvanized wood screw, to be screwed or hit, with hexagonal head (H10 for Ø 6 mm wood screws and H13 for Ø 8 mm wood screws).

Dimension	Reference to screw	Reference to hit	Packaging
6 x 40 mm	6040-021	–	100
6 x 60 mm	6060-021	–	100
6 x 65 mm	6065-021	66065-019	100
6 x 80 mm	6080-021	66080-019	100
6 x 90 mm	–	66090-019	100
6 x 100 mm	60100-021	–	100
8 x 60 mm	8060-021	8060-019	100
8 x 80 mm	8080-021	8080-019	100
8 x 100 mm	80100-021	80100-019	100
8 x 120 mm	80120-021	180120-019	100
8 x 140 mm	80140-021	180140-019	100

Other lengths available, consult us.



Wood screw to screw



Hammer drive wood screw



Self-drilling screws

Zinc-plated self-drilling screws with hexagonal head.

P1 for fixing in wood. P5 for metal support 1.5 to 5 mm thick and P13 for metal support 5 to 13 mm thick.

Screw P1		P5 screw		P13 screw	
Sun.	Reference	Sun.	Reference	Sun.	Reference
6.3 x 19 mm	63019-069	6.3 x 22 mm	63022-051	5.5 x 35 mm	55035-068
6.3 x 38 mm	63038-069	6.3 x 25 mm	63025-051	5.5 x 50 mm	55050-068
6.3 x 55 mm	63055-069	6.3 x 35 mm	63035-051	5.5 x 67 mm	55067-068
6.3 x 65 mm	63065-069	6.3 x 45 mm	63045-051	5.5 x 80 mm	55076-068
6.3 x 75 mm	63075-069	6.3 x 55 mm	63055-051	5.5 x 100 mm	55100-068
6.3 x 100 mm	63100-069	6.3 x 65 mm	63065-051	5.5 x 115 mm	55115-068
6.3 x 130 mm	63130-069	6.3 x 75 mm	63075-051	5.5 x 125 mm	55125-068
6.3 x 150 mm	63150-069	6.3 x 85 mm	63085-051	5.5 x 140 mm	55140-068
6.3 x 170 mm	63170-069	6.3 x 100 mm	63100-051	5.5 x 170 mm	55170-068
6.3 x 200 mm	63200-069	6.3 x 120 mm	63120-051	5.5 x 190 mm	55190-068
6.3 x 230 mm	63230-069	6.3 x 130 mm	63130-051	5.5 x 210 mm	55210-068
		6.3 x 160 mm	63160-051		
		6.3 x 180 mm	63180-051		
		6.3 x 200 mm	63200-051		
		6.3 x 220 mm	63220-051		
		6.3 x 250 mm	63250-051		
		6.3 x 270 mm	63270-051		

Packaging per 100 pieces.



Metal socket

L45 clip-on socket with 1/4" shank for screwdriver.

Hexagon	Reference	Packaging
H 8	4498-039	1
H 10	4499-039	1
H 13	4500-039	1

Other lengths available, on request.



Various accessories

Zinc plated HH screw and nut

Hexagon head screw and nut, in zinc-plated steel, for bolting elements.

Description	Hexagonal dim.	Reference	Packaging
Screw TH Zn - 6 x 15 mm	10	6015-008	100
Screw TH Zn - 6 x 25 mm	10	6025-008	100
Screw TH Zn - 8 x 30 mm	13	8030-008	100
Screw TH Zn - 8 x 60 mm	13	8060-008	100
M6 nut	10	6-016	100
M8 nut	13	8-016	100

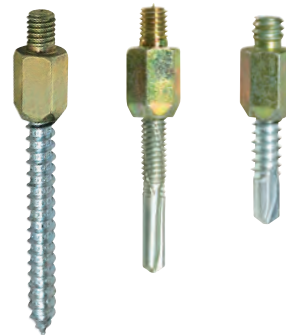
Available in stainless steel, on request.



Threaded piton

Piton with a hexagonal head (10 mm across flat) with M6 threaded part and a zinc-plated screw of your choice.

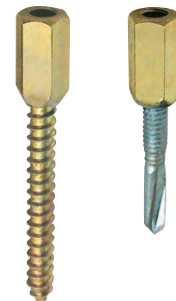
Description	Support	Reference	Packaging
Threaded piton with wood screw - 6.3 x 55 mm	Wood	163055-090	100
Threaded piton with self-drilling screw P5 - 6.3 x 25 mm	Metallic th. 1.5 to 5 mm	63025-090	100
Threaded piton with self-drilling screw P13 - 5.5 x 35 mm	Metallic th. 5 to 13 mm	55035-090	100



Tapped piton

Piton with a hexagonal head (10 mm across flat) with M6 tapped part and a zinc-plated screw of your choice.

Description	Support	Reference	Packaging
Tapped piton with wood screw - 6.3 x 55 mm	Wood	163055-092	100
Tapped piton with self-drilling screw P5 - 6.3 x 25 mm	Metallic th. 1.5 to 5 mm	63025-092	100
Tapped piton with self-drilling screw P13 - 5.5 x 35 mm	Metallic th. 5 to 13 mm	55035-092	100



Threaded rod and nut

Fully threaded rod, one meter long, in zinc plated steel.

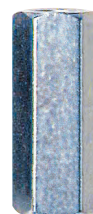
Sun.	Reference rod	Reference nut	Reference washer
M 6	61000-011	6-016	160701-024
M 8	81000-011	8-016	180915-016
M10	101000-011	10-016	221120-016



Connection tapped sleeve

Coupling sleeves for threaded rods, in zinc plated steel.

Description	Reference	Packaging
M6-M6	20-016	100
M8-M8	30-016	100
M6-M8	888888-053	100



Studs anchor

Bolt anchor

Bolt anchor for securing post bases and accessories in compact concrete support.

Dimensions	Reference zinc plated	Reference stainless steel	Tightening capacity	Packaging
8 x 75 mm	508075-082	808075-082	5	100
8 x 90 mm	508090-082	808090-082	20	100
10 x 90 mm	510090-082	810090-082	10	100
10 x 120 mm	510120-082	810120-082	40	50
12 x 110 mm	512110-082	812110-082	18	50
12 x 140 mm	512140-082	812140-082	48	50

Other dimensions available, on request.



Metal sleeve anchor

Metal sleeve anchor with anti-rotation washer. Fastening in compact concrete.

Head	Dim.	Material	Reference	Packaging
Hexagonal H13	10 x 60	Galvanized steel	610060-082	100
Countersunk	12 x 70	A2 stainless steel	991270-082	100
Countersunk	12 x 110	A2 stainless steel	991210-082	100



Nylon plugs with zinc-plated screw

Polyamide PA6 anchor plugs and steel screws.

The corrosion protection consists of a metallic coating (electrolytic zinc plating), for use in a protected environment.

Head	Dimensions	Reference	Packaging
Hexa. H10	8 x 80 mm	408080-082	50
Hexa. H10	8 x 100 mm	408100-082	50
Hexa. H13	10 x 80 mm	410080-082	50
Hexa. H13	10 x 100 mm	410100-082	50
Countersunk T30	8 x 80 mm	318080-082	100
Countersunk T30	8 x 100 mm	318100-082	100
Countersunk T30	8 x 120 mm	318120-082	100
Countersunk T30	8 x 140 mm	318140-082	100
Countersunk T40	10 x 80 mm	310080-082	100
Countersunk T40	10 x 100 mm	310100-082	100
Countersunk T40	10 x 120 mm	310120-082	100
Countersunk T40	10 x 140 mm	310140-082	100
Countersunk T40	10 x 160 mm	310160-082	100



Equipment

Orange coat

With reflective stripes.

Size	Reference
S	900004-047
M	900000-047
L	900001-047
XL	900002-047
XXL	900003-047

Coat subject to change. Please ask for details.

Packing: 1 pc.



Backpack

Backpack with reinforcements allowing the transport of hammered anchors, hammer...

Description	Dimensions	Reference
Backpack	450 x 330 x 160 mm	901000-047
Reinforcement plate	300 x 160 x 20 mm	901001-047

Packing: 1 pc.



Canvas reinforcements with weft.



Working belt

Practical, the working belt allows to browse the vineyard with the few essential tools on-hand, while keeping your hands free. And to receive various accessories, the Fenox belt is equipped with two large pockets.

Description	Reference
Belt	3000-097
Belt + 500 standard wooden clips	1-042
Belt + 50 spreader tips	2-042



Fenox cap

Comfortable cap, green with Fenox logo.
Unique size.

Description	Reference
Cap	44-097



Hot dip galvanizing protection against corrosion

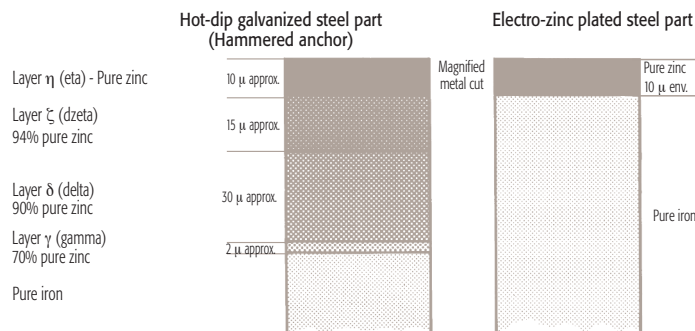
standard:
NF EN ISO 1461

Definition according to NF EN ISO 1461 Standard:

"Formation of a zinc-iron coating by immersing steel or cast iron parts in molten zinc bath".

Hot-dip galvanizing of ferrous alloys is a coating operation by dipping in molten zinc bath or molten zinc alloy at a temperature close to 460° C. It concerns finished parts for "hot dip galvanizing", steel sheets (plates...) and coated wires (rods and hooks), for "continuous hot-dip galvanizing".

The word "galvanization" is often used incorrectly, the galvanic effect being able to be applied to other applications of zinc (sherardization, electrolytic zinc plating, etc.). The ambiguity about the word "galvanization" has led to many problems of interpretation, and the French standard NFA 91-010 prohibits the use of the word "galvanized" when it comes to electro-zinc-plated parts (the term "Hot-dip galvanizing" is reserved exclusively for covering by "immersion in molten zinc bath").



Hot-dip galvanizing is a traditional anti-corrosion coating (surface treatment) process.

Indeed, one of the main advantages of zinc is its high electronegativity compared to that of steel: it thus serves for the electrochemical protection of steel against corrosion.

Electrochemical protection by galvanization

Corrosion is the result of electrochemical reactions due to the formation of local cells. You need 4 elements to form them:

- an electrolyte (water, soil...),
- two electrodes with different potentials,
- an electrical connection.

The electrode with the most electronegative potential is called **anode**. It is this which undergoes the phenomena of oxidation (loss of electrons) and therefore corrosion.

The electrode with the least electronegative potential is the **cathode**, where reduction phenomena (gain of electrons) and therefore protection occur.

In the case of a galvanized steel part, the steel - zinc materials form an electrochemical cell where steel is the cathode and zinc the anode. (Potential of iron = - 0.44V and potential of zinc = - 0.76V).

The steel will be protected by the zinc which will dissolve in a slow cathodic reaction. Zinc attack (loss of electrons, or Zn oxidation $Zn \rightarrow Zn^{2+} + 2e^-$) will occur with the formation of oxides, hydroxides, hydrocarbonate, etc., salts of a protective nature leading to local healing of the deterioration of the steel which is not covered (figure 1).

To this electrochemical protection is obviously added the physico-chemical protection (or barrier protection) conferred by a layer on a surface (such as paint, metal, etc.).

A single coat of paint does not provide electrochemical protection: if the coating surface is not continuous (or if it is damaged), there will be rust formation, therefore lifting - degradation of the coating by the rust (FeO_3) (figure 2).

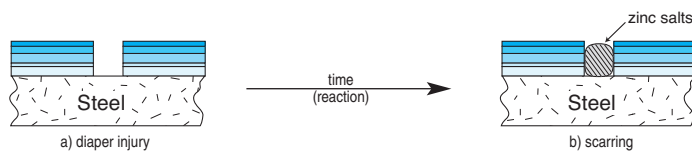


Fig. 1: Protection by galvanization - Healing phenomenon

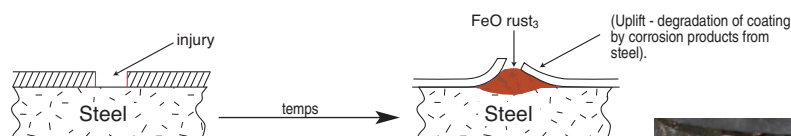


Fig. 2: Simple barrier protection without galvanization (example painting)

Influence of treatment thickness

The duration of corrosion protection provided by galvanizing (either light gray or dark gray) is approximately proportional to the thickness of the coating.

Generally, we speak to determine the thickness in terms of gram / m² (mass deposited).



Faynot Charter

For FAYNOT, customers are sacred!

FAYNOT serves several thousand customers, in order to sustain its activities. Customers are always respected, regardless of their personalities. "Small" customers are served like "big" customers, that is to say with the same professionalism, the same quality... FAYNOT does not just sell; a very important part of his work is devoted to advice on the use of products and to finding solutions for his customers.

Perpetuate

FAYNOT is also a diversified company, in order to sustain its activities. This diversification is based on three main families:

Building (Fixings and roofing), Topography (survey markers and topographical accessories), plant fixation (viticulture, arboriculture, greenhouses, plants...).

These three activities are grouped under three registered trademarks:



FAYNOT: for building items (fasteners for roofing and cladding, roofing, etc.).



FENO: for topography items (FENO survey markers, topography, marking, staking accessories).



FENOX: for viticulture articles, plant accessories, arboriculture, parts for greenhouses...

Invest

FAYNOT invests a lot each year, in a controlled manner. In today's economic context, it is essential to invest, in order to satisfy its customers and improve working conditions (ergonomics of new machines, automation, noise reduction, operator safety, waste management, elimination of dangerous products...).

Industrial and intellectual property

In the life of FAYNOT, many products have been patented. Today's sustainable development also involves the filing of new patents.

Participation in institutions

FAYNOT is a member of AFFIX (Association des Fabricants of Mechanical Fixings) and the FIM (Federation of Mechanical Industries). These participations are very important for establishing the technical benchmarks of tomorrow (Standards, DTUs of CSTB or AFNOR).

Security

Safety and hygiene are very important themes for FAYNOT. The company is vigilant on these subjects on a daily basis. Supervisory staff and management are involved in risk prevention actions (training, etc.).

Environment and Sustainable Development

The "Quality Manual" includes management's commitment to preserve the environment. The production plants are clean and cause almost no release into the air or water. FAYNOT has completely rehabilitated at its expense a former industrial surface treatment site which was polluted (former Galvasemoy site in Thilay). Today this site is home to new plastics processing activities.

Actions to reduce energy consumption:

The surface area of the various buildings as well as the years of their construction is an important issue in reducing greenhouse gases by improving thermal performance. Several phases of renovation work (thermal insulation) have been undertaken over the past ten years. The improvement in thermal performance has made it possible to reduce the consumption of heating gas by around 25% in the oldest and most energy-intensive buildings.



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