

SANGOI GROUP

The SANGOI GROUP was created in 1973 and today, thanks to its continuous technical and professional growth, proposes itself with an articulated range of products and services in the steel technology market.

The core business is the service-centre activity, specialized in the production of sheets and strips from steel coils. The production plants are run by SANGOI SpA located in Udine and SIDECO Srl in Milan. SABREST in Brescia engineers and manufactures steel components and the division dedicated to the roll-forming and production of facilities for the viticultural sector is held by SANGOI GREEN Srl.

In a surface of 22,000 sqm and with a skilled 80-person-staff, the Group guarantees the best quality standards. ISO 9001:2008 certification highlights the competitive level acquired and the scrupulous and efficient growth strategies adopted. The precious knowledge gained through more than forty years of activity makes SANGOI GROUP an entrepreneurial reality full of strength and vigour.



SANGOI GREEN Srl

The best support starts with experience

SANGOI GREEN is an Italian company specialized in providing products and advice services for the equipment in the vine-training field. The offered range of products consists of a wide assortment of technologically advanced steel posts, tensioning wires and accessories for vineyards.

SANGOI GREEN is established in the framework of experience in the steel sector acquired by SANGOI GROUP through over forty years. Its head office and warehouse are in Friuli Venezia-Giulia Region, while the production plants are located in Brescia, the centre of the major wine-producing areas.

The company is engaged in satisfying the requests coming from the updated and intensive vine-training techniques and the mechanization harvesting, typical of modern forefront installations where guaranteeing stability, ductility, and functionality is of fundamental importance.

As a means to assure rapid and punctual worldwide deliveries, SANGOI GREEN's logistic centre, located in the Province of Udine, has at its disposal the whole range of steel posts, stainless steel wires, zinc-aluminium wires and the kits of accessories necessary for realizing turn-key installations.



SANGOI GREEN is a dynamic company which constantly dedicates itself to the research of innovative solutions and designs for its products. It is equipped with laboratories for quality checks, which systematically carry out mechanical tests on the resistance of both products and raw materials.

SANGOI GREEN POSTS

SANGOI GREEN produces steel posts for vineyards realized with different sections and coatings - a line of products fitting for modern techniques of vine-training in highly-mechanized vineyards.

Hot-dipped galvanized, pre-galvanized and corten, the coatings and the top quality of the steel used confer resistance to corrosion and to mechanical stress on the vineyard posts, in such a way to guarantee a lifespan of the installation as long as the life-cycle of the vineyard.



GEOPAL50

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Evolution in Viticulture

Row post with internal slots

Geopal 50 is an innovative ribbed pole specially designed for medium- and low-height vineyards

Thanks to its geometrical accuracy Geopal 50 boasts excellent resistance even on a limited development and is suitable for all types of ground.

H-punched slots are the best solution for holding tension wires also in sloping areas.

Geopal 50 can be customized with slot sequences alternating or in parallel.

This profile has been designed to safeguard harvesting machine when operating.

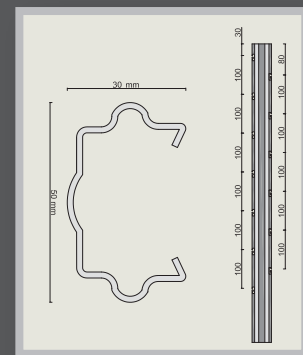
Excellent quality-resistance-price ratio.

Perfect ground settling.

Excellent elasticity and torsion.

Vinesrow stability.

Ease of installation and ongoing maintenance.



Material	Code	Section/mm	Thickness/mm	Slot shapes	Slot qty.	Distance between slot
PRE-GALVANIZED	V50PRZ	50x30	1.3-1.5	"H"	10/12	10 cm

MATERIAL (Steel)				CHEMICAL COMPOSITION				MECHANICAL CHARACTERISTICS		
ARTICLE TYPE	QUALITY GRADE	STEEL REF. STANDARD	COAT. REF. STANDARD	%C Max	%Si Max	%Mn Max	%Cu Max	Yeld Strength (Mpa)	Tensile Strength (Mpa)	Elongation A _{80%} Min
Batch Hot-dip galvanized *	S235JR	EN 10025-2	EN 1461	0.19	--	1.50	--	235 min	360-510	19
Pre-Galvanized **	DX51D+Z275	EN 10346	EN 10346	0.18	0.50	1.20	--	140 min	270-500	22
Weathering Steel	S300J0W	--	--	0.07	0.25	--	0.40	300 min	400 min	19

* galvanized after forming ** formed from continuously Hot-dip galvanized steel strip





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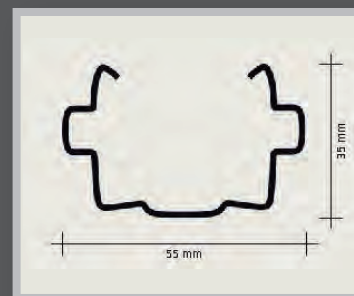
GEOPAL55

Row post with internal slots

The GEOPAL55 post is the optimal solution for installations of vineyards engineered to carry out mechanized operations and to simplify the utilization of mobile wires. The slots are perfectly aligned with the profile of the post. The H-shape of the slots is the solution that guarantees the firmness of the wires, while the V-shaped slots are designed to facilitate and speed up the wire-lifting process. The accuracy of the post's design makes it highly structured and resistant to high stresses coming from both intensive mechanization and adverse climate conditions.



Material	Code	Section/mm	Thickness/mm	Slot shapes	Slot qty.	Distance between slot
PRE-GALVANIZED	V55PRZ	55x35	1.5-1.8-2.0	"H" - "V"	12/14	10 cm
HOT-DIPPED GALVANIZED	V55ZNC	55x35	1.65-1.8-2.0	"H" - "V"	12/14	10 cm
WEATHERING STEEL	V55COR	55x35	1.8-2.0	"H" - "V"	12/14	10 cm
PAINTED	V55VERN	55x35	1.5-1.8-2.0	"H" - "V"	12/14	10 cm



MATERIAL (Steel)				CHEMICAL COMPOSITION				MECHANICAL CHARACTERISTICS		
ARTICLE TYPE	QUALITY GRADE	STEEL REF. STANDARD	COAT. REF. STANDARD	%C Max	%Si Max	%Mn Max	%Cu Max	Yield Strength (Mpa)	Tensile Strength (Mpa)	Elongation A _{50%} Min
Batch Hot-dip galvanized *	S235JR	EN 10025-2	EN 1461	0.19	--	1.50	--	235 min	360-510	19
Pre-Galvanized **	DX51D+Z275	EN 10346	EN 10346	0.18	0.50	1.20	--	140 min	270-500	22
Weathering Steel	S300J0W	--	--	0.07	0.25	--	0.40	300 min	400 min	19

* galvanized after forming ** formed from continuously Hot-dip galvanized steel strip



The image features a close-up of a metal trellis system for a vineyard. The trellis consists of several vertical metal poles and horizontal wires. A vine with green and reddish leaves is visible in the background, partially obscured by the metal structure. The overall color palette is dominated by green and grey.

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GEOPAL65

Row post with internal slots

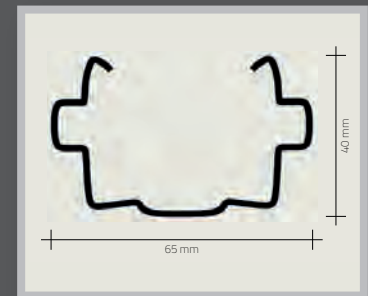
The GEOPAL65 post is designed for vine-training systems with intensive production, elevated loads of grapes and vigorous vegetation.

The structure of the GEOPAL65 post meets the requests coming from the cultivation techniques of vineyards subjected to high levels of mechanization as well as to cultivating practices with wire liftings.

The slots are punched in line to the post profile. The H-shaped slot ensures the stability even in sloping terrain. The V-shaped slot facilitates the lifting of the movable wires.



Material	Code	Section/mm	Thickness/mm	Slot shapes	Slot qty.	Distance between slot
PRE-GALVANIZED	V65PRZ	65x40	1.5-1.8-2.0	"H" - "V"	12/14	10 cm
HOT-DIPPED GALVANIZED	V65ZNC	65x40	1.65-1.8-2.0	"H" - "V"	12/14	10 cm
WEATHERING STEEL	V65COR	65x40	1.8-2.0	"H" - "V"	12/14	10 cm



MATERIAL (Steel)				CHEMICAL COMPOSITION				MECHANICAL CHARACTERISTICS		
ARTICLE TYPE	QUALITY GRADE	STEEL REF. STANDARD	COAT. REF. STANDARD	%C Max	%Si Max	%Mn Max	%Cu Max	Yeld Strength (Mpa)	Tensile Strength (Mpa)	Elongation A _{50%} Min
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Pre-Galvanized **	DX51D+Z275	EN 10346	EN 10346	0.18	0.50	1.20	--	140 min	270-500	22
Weathering Steel	S300J0W	--	--	0.07	0.25	--	0.40	300 min	400 min	19

* galvanized after forming ** formed from continuously Hot-dip galvanized steel strip



The image features a close-up of a metal trellis system for a vineyard, with several vertical and horizontal metal poles. The background is filled with green grape leaves, some showing signs of aging or damage. A bright light source creates a lens flare effect in the upper left. The overall color palette is dominated by greens and greys.

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SANGOI T60

END POST

The end post T60 is designed for both Guyot and Curtain vine-training systems with large grape production.

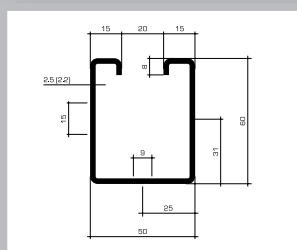
The mechanical properties of the steel used ensure an above average resistance to loads and stresses.

The technical section of the T60 end post and the disposition of the lateral and front holes allow it to be set up with a wide range of tensioning wires, anchors and accessories.

Its linear profile is suitable for agricultural machinery in the manoeuvring phase at the end of the grapevine rows.

Section/mm	Thickness/mm
60x50x60	1,8-2,0-2,2-2,5

Material	Code
PRE-GALVANIZED	T60PRZ
HOT- DIPPED GALVANIZED	T60ZNC
WEATHERING STEEL	T60COR



ARTICLE TYPE	MATERIAL (Steel)			CHEMICAL COMPOSITION				MECHANICAL CHARACTERISTICS		
	QUALITY GRADE	STEEL REF. STANDARD	COAT. REF. STANDARD	%C Max	%Si Max	%Mn Max	%Cu Max	Yeld Strength (Mpa)	Tensile Strength (Mpa)	Elongation A _{50%} Min
Batch Hot-dip galvanized *	S235JR	EN 10025-2	EN 1461	0.19	--	1.50	--	235 min	360-510	19
Pre-Galvanized **	DX51D+Z275	EN 10346	EN 10346	0.18	0.50	1.20	--	140 min	270-500	22
Weathering Steel	S300J0W	--	--	0.07	0.25	--	0.40	300 min	400 min	19

* galvanized after forming ** formed from continuously Hot-dip galvanized steel strip



ANTI-SINKING BASE



The anti-sinking base consists of two brackets fixed to the end post at ground level through a practical screw-fastening bold system. The base prevents the end post from sinking into the ground.

Code	Dimensions
00685	170 x 145 mm



ULISSE KIT

TENSIONER ROLLER AND LOCK FOR HEAD POST



Wire tensioner roller

End post accessory for tensioning all kinds of wires of the vine row, with lock.

Material: Stainless Steel

Code	Holes	Lenght	Diameter
000689	5	81 mm	14 mm

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SANGOI V14

Young vine support

The V14 Tutor in galvanized steel strip, thanks to its ribbed profile assures the perfect verticality and stability of the young plant and easy insertion into the soil.

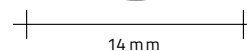
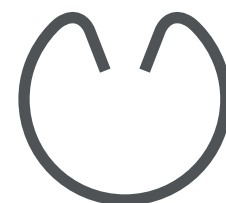
The structural characteristics of the steel used provide high resistance to impacts - a result of the intensity of mechanical machining.

Its lightweight, excellent corrosion resistance and low installation costs are remarkable.

Material: pre-galvanized and pre-varnished.

Code

V14



External Diameter: 14 mm
Height: from 1000mm to 1800mm





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SANGOI STAINLESS STEEL WIRES

STAR INOX AISI 304

SMART INOX AISI 201/202



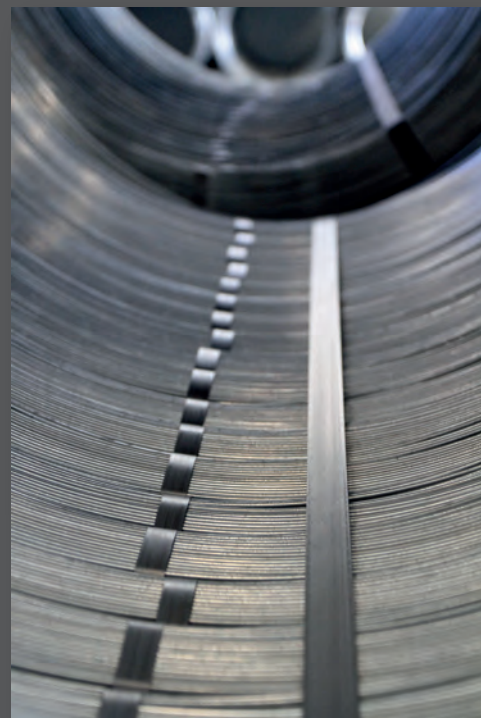
The Sangoi stainless steel wires are characterized, both by the particular mechanical properties typical of steels, and by an elevated resistance to corrosion. This characteristic is due to the presence of some elements, inter alia that of nickel.

The term 'stainless' is perfectly suited for these materials and derives from their ability to passivate themselves, without rusting, in atmospheric environments and in contact with chemical substances. Sangoi stainless steels wires guarantee peak performances thanks to the minimum elongation (which is proven to be lower than 2%), and this consequently causes less maintenance of the implants and a minor cost of manual labor.

The competence and experience Sangoi Group has developed in the steel industry sector has allowed to select high-quality and -reliability wires, recommended for employment in latest viticulture.

Spool	Coil
300 kg	15-25-50 kg

Dia	Tension Strength (N/sqmm)	Development (m/kg)	Elongation max.
1.40	1300 -1600	82	<2%
1.60	1300 -1600	61	<2%
1.80	1300 -1600	50	<2%
2.00	1300 -1600	42	<2%
2.40	1300 -1600	28	<2%
2.80	1300 -1600	20	<2%
3.00	1300 -1600	17.5	<2%



SANGOI INOX	Quality	% Nickel
Star Inox	AISI 304	8 - 8.5
Smart Inox	AISI 201/202	3,5- 4






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ZINC-ALUMINIUM WIRES

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AGROFIL Zinc-Aluminum Wires

Sangoi Green offers a wide range of high-quality galvanized wires for vineyard equipment.

The choice of the wires has fundamental importance in the equipment of every type of vineyard system. The wire must not only support the plant, but also guarantee excellent performances and allow for easy maintenance operations.

The wire's core is perfectly centred inside the zinc coating. The galvanization process is carried out following updated quality standards, in order to assure duration in time even in the presence of corrosive external agents, or strains derived by the employment of highly mechanized machinery.

The main features of the Sangoi AGROFIL wire are resistance to the tensioning stresses, a higher breaking load and malleability.



AGROFIL 5			
Dia. mm	Zinc Coating g/m2	Tensile Strength N/mm2	Elongation %
1.60	200	1100/1300	4%
1.80	220	1100/1300	4%
2.00	230	1100/1300	4%
2.20	240	1100/1300	4%
2.40	250	1100/1300	4%
2.70	260	1100/1300	4%
3.00	265	1100/1300	4%
3.50	275	1100/1300	4%
4.00	285	1100/1300	4%
4.50	290	1100/1300	4%
5.00	300	1100/1300	4%

UNI -EN 10244-2

AGROFIL 10			
Dia. mm	Zinc Coating g/m2	Tensile Strength N/mm2	Elongation %
1.60	200	800/900	10%
1.80	220	800/900	10%
2.00	230	800/900	10%
2.20	240	800/900	10%
2.40	250	800/900	10%
2.70	260	800/900	10%
3.00	265	800/900	10%
3.50	275	800/900	10%
4.00	285	800/900	10%
4.50	290	800/900	10%
5.00	300	800/900	10%

UNI -EN 10244-2

AGROFIL 10-low			
Dia. mm	Zinc Coating g/m2	Tensile Strength N/mm2	Elongation %
1.80	150	800/900	10%
2.00	150	800/900	10%
2.20	150	800/900	10%
2.40	150	800/900	10%
2.70	150	800/900	10%
3.00	150	800/900	10%





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WIRE-STAKE LOCK

The wire-stake lock is practical and easy to install, and is resistant to stresses caused by agricultural machines. It is reusable and fits all kinds of young plant supports.

Materials:

A. Stainless Steel

B. Galvanized



Code	Material	Tutor Diameter	Dimensions	Wire
000662	B	D=12/16 mm	73x22 mm	1.6 mm
000667	A	D=6/10 mm	58x17 mm	1.6 mm



VINE SHOOT CLIP

The vine-shoot clips are quick to set up and reusable in every typology of vine-growing system.

They effectively block the shoots to the wires, both vertically and horizontally.

They are suitable for mechanized harvesting.

Material:

Stainless Steel



Code	Length	Wire
000666	100 mm	1.8 mm
000672	120 mm	1.8 mm
000676	100 mm	1.8 mm



000666



000672



000676

SPRING SPACER

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Practical and functional accessory used in mobile wire management.

The wires are inserted into the eyelets at the ends of spacers which have a 40 cm opening. When the foliage is sufficiently developed, the spacers are tightened and lifted about 20 cm from the spring anchor point, so as to contain the vegetation itself in width, pointing it upwards.

Material: Stainless Steel.

Code	Sangoi Post	Length	Wire
000603	ZZ Spring Spacer for GEOPAL 55	220 mm	2.5 mm
000608	ZZ Spring Spacer for GEOPAL 65	220 mm	2.8 mm
000604	ZZ Spring Spacer for GEOPAL 65	220 mm	2.5 mm



00603 – GEOPAL 55



000604 – GEOPAL 65



VINEYARD ANCHORAGES

PROPELLER SHAPED ANCHOR

An anchor is a fundamental tool for fastening the end posts. The propeller-shaped anchor is composed of a helix plate stuck into the soil and a pole fixed to the end post by one or more tensioning wires. This system guarantees excellent stability of all the row vineyard. The propeller-shaped anchor type is the most convenient and practical stability equipment. It is suitable for terrains that are not very rocky. The anchor is fixed by rotating it on itself until the hook is positioned at 10/20cm off the ground.

Material: Hot-dipped galvanized steel



Anchor Model	Pole Diameter	Plate Diameter	Pole Height	Sheet thickness
Mod.12/140H800	12 mm	140 mm	800 mm	2.00 mm
Mod.12/140H1000	12 mm	140 mm	1000 mm	2.50 mm
Mod.14/180H1000	14 mm	180 mm	1000 mm	2.50 mm
Mod.14/180H1200	14 mm	180 mm	1200 mm	2.50/3.00 mm
Mod.18/180H1200	18 mm	180 mm	1200 mm	5.00 mm



PARIDE KIT



5 Holes tensioning roller



Kit of tension roller, braided wire and lock for tensioning the anchor wires.

Material: Stainless Steel

Code	Braided wire
000642	D=4 mm L=4500 mm
000647	D=3 mm L=4500 mm
000638	D=3 mm L=3500 mm

VINEYARD ANCHORAGES

STAY ROD FOR CONCRETE PLATE

The anchorage system with stay rod and a concrete plate is suitable for both rocky and clay soils.

This kind of anchor assures stability to the vine rows. It can be used with every type of head posts and wires.



Material: Hot-dipped galvanized steel

Stay rod model	Pole diameter	Pole length
12/1200 Mod.	12 mm	1200 mm
14/1500 Mod.	14 mm	1500 mm
Iron rod H210	12 mm	250 mm



E.S.P. Anchor

The E.S.P. anchor is made of a steel plate and a smooth rod.

This is the best solution for small-scale vineyard systems.

Material: Hot-dipped galvanized steel

Anchor model	Pole Diameter	Plate Diameter	Pole Height	Sheet thickness
E.S.P.A. Mod.	7 mm	110 mm	600 mm	3.00 mm
E.S.P.B. Mod.	7 mm	110 mm	700 mm	3.00 mm
E.S.P.C. Mod.	8 mm	150 mm	800 mm	3.00 mm
E.S.P.D. Mod.	8 mm	150 mm	1000 mm	3.00 mm

