



Instructions for assembling welded wire nettings PILONET®

A. STANDARD INSTALLATION

15 to 23 cm in diameter holes for posts and supports 2,5 to 3 m apart will be prepared along the intended future fence line. Holes must reach a non-freezing depth, at least 80 cm. Standard posts Pilclip®, used with the corresponding length of welding wire netting Pilonet®, installed into the holes at the correct height, are fixed into concrete which is not excessively thin. End and corner posts, as is the case for every maximum eighth straight post, must be supported with Ideal® supports of the corresponding length.

Tension posts are fixed using supports which must counteract the tension of the netting and are installed:

- at the beginning of the fence
- at each corner of the fence
- at each change in direction of the fence
- after every maximum 25 m of straight fence
- at the end of the fence

Supports are used to secure the vertical position of posts after posts have been installed and the welded wire netting has been stretched. Supports are always installed to counteract the direction in which the welded wire netting tension is oriented. For this reason, they are fixed with concrete and screwed to the post always at 1/2 of the height of the post above the ground (measured from the top end of the post) and form an ideal 45 degree angle (see illustration). The length of supports is always about the same as the post length. Supports are always installed:

- on the initial fence post (1 piece)
- on each fence corner post (2 pieces)
- on each fence post where the fence line changes direction (2 pieces)
- on each post after every maximum 25 m providing the line of the fence is straight (2 pieces)
- on the final fence post (1 piece)

After fixing the posts and supports into concrete, the concrete shall be left to properly dry before installing the welded wire netting onto the posts. The optimal period is about one week, however, it strongly depends on the current weather situation.

Assembly procedure:

Before installing welded wire netting Pilonet® on posts, the rolls in which the nettings are packed are unrolled from the initial, support post in the direction of the fence line and the beginning of the netting is clamped to the post using Pilclip® stainless steel braces. If the length of the fence is greater than the length of the welded wire netting (usual roll has 25 m), welded wire nettings are then mutually joined in between posts using Casanet braces, by always overlapping one eyelet. Nettings can also be mutually joined at the posts, however, in this case the consumption of netting is greater and the netting to post join, without an "eyelet overlap" is not as firm - eyelets become deformed. A tension comb (small or large) is placed on the end of the prepared (unrolled) netting which is not already fixed to the support post, and use a reel or beam, anchored to a solid object (e.g. on a still truck) to sufficiently stretch the system. The stretched netting is gradually fixed to all posts at the required heights using Pilclip® stainless steel braces with special pliers. The excess end of the netting after the last post is cut off. The netting can be locally stretched using pliers to crimp the horizontal wires (increase the waviness).

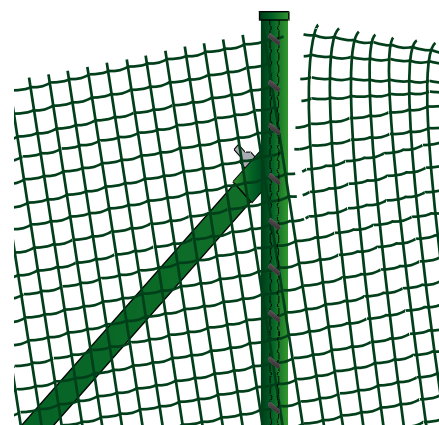
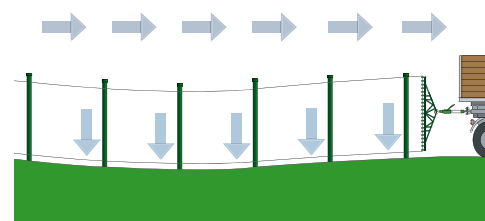
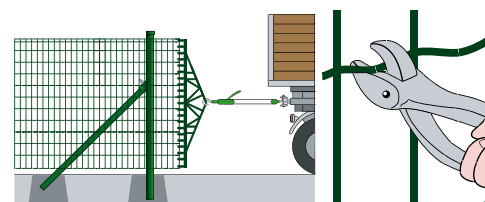
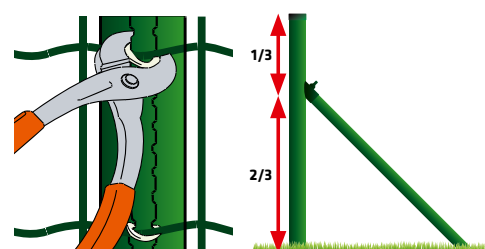
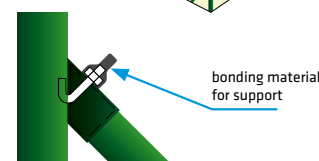
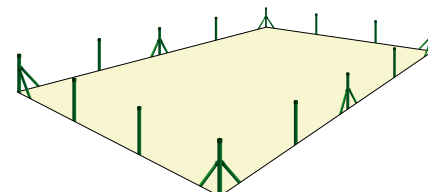
B. INSTALLING THE NETTING ON AN UNEVEN GROUND

Smaller ground waves

Pilonet® nettings are solid, but at the same time they can be flexible at greater lengths, enabling their adaptation to ground waves and posts in the vertical direction. The installation on uneven grounds is identical to the installation on a flat ground, including the stretching process using a reel to fix the net onto the posts at the proper height using vertical tension. If necessary, the netting can be stretched locally by using pliers to crimp the wires.

Larger ground waves and steps

If larger unevenness does not allow the use of technology to adapt the fence to ground waves, the method used is to cut off and join the netting on posts using height steps between neighboring nettings. The netting installation is identical to the installation on flat surfaces with the exception being the netting line is significantly shorter. The length of one segment is usually up to 6 m and the height step reaches 20 cm.

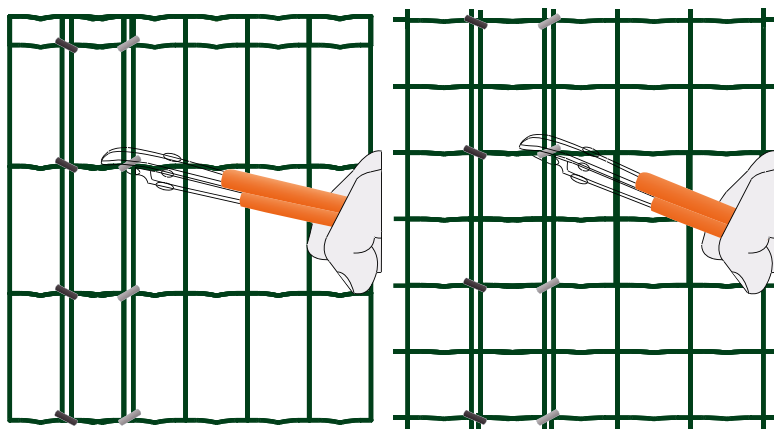




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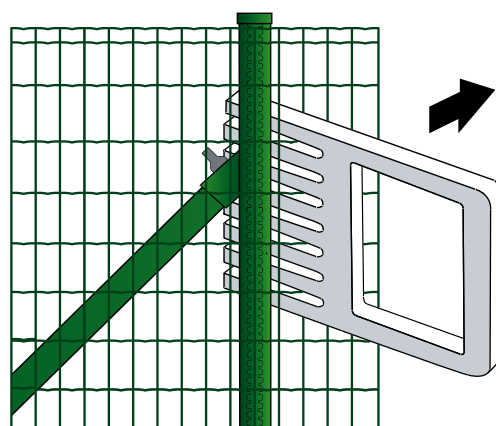
C. JOINING THE ENDS OF TWO NETTINGS

To firmly join the ends of two nettings, cover the two pairs of vertical wires of both nettings (horizontal overlap of one eyelet) and join them mutually with stainless steel or galvanized clamps (according to the type of netting) crosswise over the link as shown in the picture.



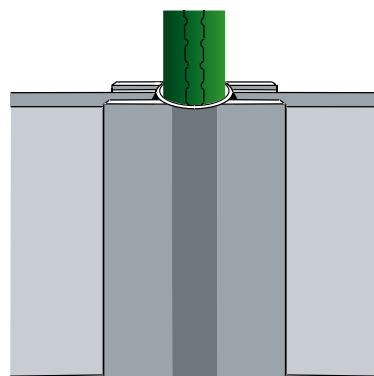
D. STRETCHING LIGHT NETTINGS USING A PLASTIC COMB

Light welded wire nettings Pilonet® are nettings having a maximum wire diameter of 2,5 mm. Light nettings be stretched even without a cable stretcher, or other mechanization, by using a plastic tension comb by running the manual plastic comb through the eyelets of the netting segment, the length of which surpasses the end hinge cup, and applying pressure to the comb will stretch the netting through the post. In this stretched state, the netting will be standardly fixed to posts using stainless steel braces.



E. FENCES WITH CONCRETE DIGGING BOARDS

When installing fencing with concrete digging boards under the welded wire netting, straight or end holders for digging boards are used for installing boards between posts. The holders are fixed to the posts using self-cutting screws. Concrete digging boards are loosely inserted into the digging board holders. The standard welded wire netting installation process continues once the digging boards have been installed. The installation system is the same, just longer posts shall be used. The length of the posts shall increase by the length of the board, and supports shall be installed into the ground beyond the direction of the fencing line, about 10 cm in the direction towards the property. Supports are never adjusted to the top of concrete digging boards!



F. FENCING WITH ANTI-TRESPASS ELEMENTS ABOVE THE FENCING

Barb wires or razor blade strips can be installed above the welded wire netting in two ways:

a) placing bavolets on top of posts and installing 3 rows of barb wire or razor blade strips

Bavolets are usually one-armed 50cm post attachments, forming an 45 degree angle with the post, which increase the height of the fence by 30 cm. Bavolets are also suitable for the installation of razor blade spirals.

b) installing 1-5 rows of barb wire or razor blade strips, directly onto the posts above the welded wire netting using stainless steel braces and pliers

For this method of increasing the security level of the fence, the barb wire or razor blade strips are installed directly on the posts above the welded wire netting, usually 10-15 cm apart. With this option, it is necessary to count on proportionately longer posts depending on the number of rows of security elements.

