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# Installation instructions for BENITA®

### A. STANDARD INSTALLATION

Prepare holes in considered location of fencing, diameters 15 to 23 cm, for posts and struts, spaced 2,5 to 3 meters away. The holes must reach the non-freezing depth, 80 cm minimum.

Ideal® type posts for BENITA® welded mesh fencing of the corresponding length, properly aligned to height and installed into the holes, while the necessary height is defined by the clamp of tensioning wire (see image), are fixed by the concrete. The end posts and corner posts, as well as each eighth running post, must be braced with Ideal® struts having the corresponding length.

The tensioning posts are fixed by the struts, which must be effecting against the tension of welded mesh and installed as follows:

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

The struts are used to ensure the vertical position of posts, when the welded mesh is attached to the posts. The struts are always installed so that the effect against the tensions of the welded mesh. Therefore they are fixed with concrete in soil, and fastened to post always at 1/3 post height above ground (measured from upper end of post), at an angle of 45 degrees to post (see image). The strut length is approximately the same as post length. The struts are always installed as follows:

- to beginning fence post (1 pcs)
- to each corner fence post (2 pcs)
- to each fence post, where the direction of fence route is changing (2 pcs)
- to each fence post maximum after 25 m in case the straight route of fence (2 pcs)
- to terminal fence post (1 pcs)

After the posts and struts are fixed with concrete, before installation of welded mesh to posts, it is necessary to leave concrete to cure. The optimum curing time is one week approximately, but this is depending on actual weather.

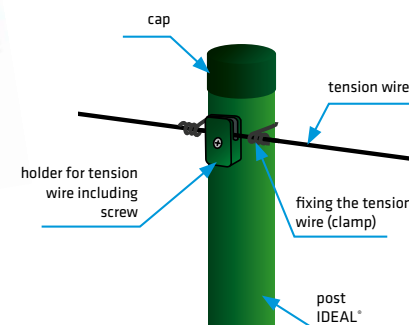
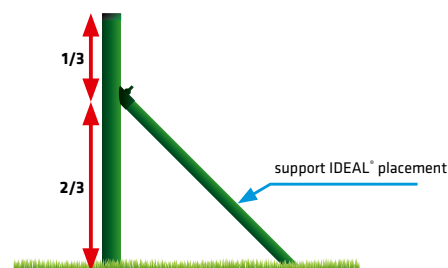
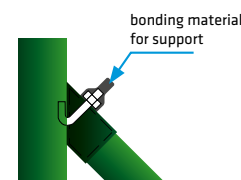
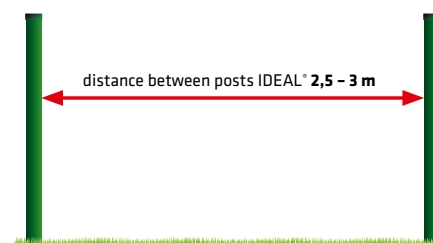
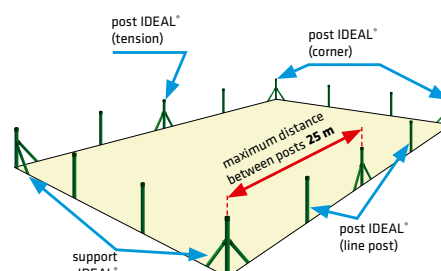
### Installation procedure:

BENITA® welded mesh is supported only by one tensioning wire, in upper part of mesh, to which it is attached. (All horizontal wires serve also as tensioning wires.)

The upper wire is fixed in its height with clamp of tensioning wire.

Before installing the BENITA® welded mesh to posts, the roll, in which the mesh is supplied, must be unwound from beginning post in direction of fence route and the beginning is tied to post with tie wire. If the fence length is higher than length of welded mesh (usually the roll has 25 m length), the welded mesh is connected out of posts using the clamps for fastening of welded meshes (see image), always using the overlap at least one mesh aperture. The meshes can be mutually connected also on posts, in such case the consumption of meshes is higher and strength of mesh connection on post without overlapping of one mesh aperture is lower – mesh eyes are deformed. The prepared (unwound) mesh, with one of its end fastened to braced post, is provide with tensioning comb on the other end (large or small) and using the tackle or star wheel mounted at fixed object (for example braked truck), is tensioned properly. In tensioned condition, the mesh is fixed to all posts in required height, using the tie wire. The excess mesh end behind the terminal post is cut. When necessary, the mesh can be locally tensioned using the creeping (increasing the waviness) of horizontal wires with creeping pliers.

### DISTRIBUTION OF POSTS IDEAL®





# Installation instructions for BENITA®

## B. INSTALLATION OF MESH ON ROUGH TERRAIN

### Small land wave

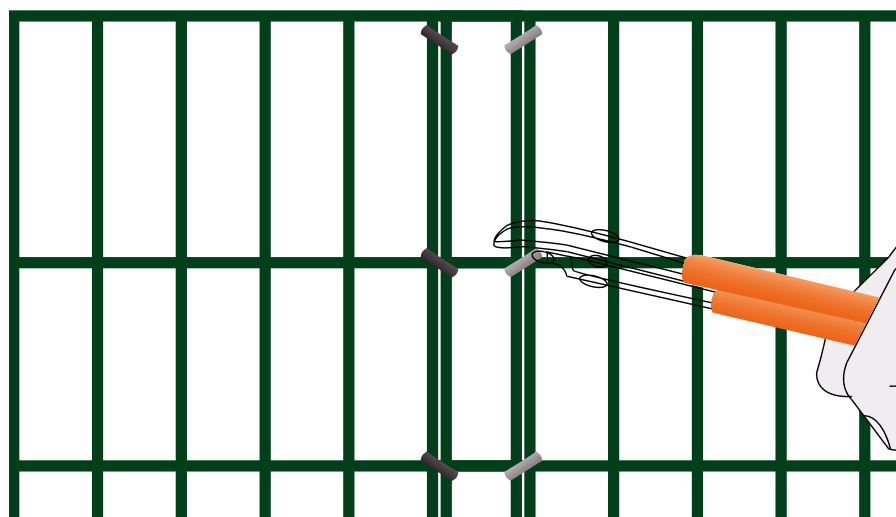
BENITA® meshes are strong, but at the same time flexible in larger lengths, thus enabling their matching to land waves and posts in vertical direction. The installation on rough terrain is the same as installation on leveled terrain, up to the tensioning of mesh using the tackle, when the mesh can be fixed with vertical tension on posts in required height. If necessary, the mesh can be locally tensioned with creping pliers.

### Larger land waves and stairs

If the method of height adjustment of the mesh per land waves cannot be used due to larger waves, the method using the height steps between neighboring meshes is used. The meshes are installed similarly to installed meshes on level sections, but the length of route is substantially shorter. The single section length is usually 6 meters, and height step 20 cm maximum.

## C. CONNECTING THE ENDS OF TWO MESHES

For solid connection of two ends of meshes, you have to overlap two couples of vertical wires of both meshes (horizontal overlap of one aperture) and connect them with stainless steel or zinc plated clamps (according to type of mesh), i.e. crosswise over the connections, as shown in the image.



method of BENITA® welded mesh unwinding

