



B BETA FENCE

Securifor & Bekasecure

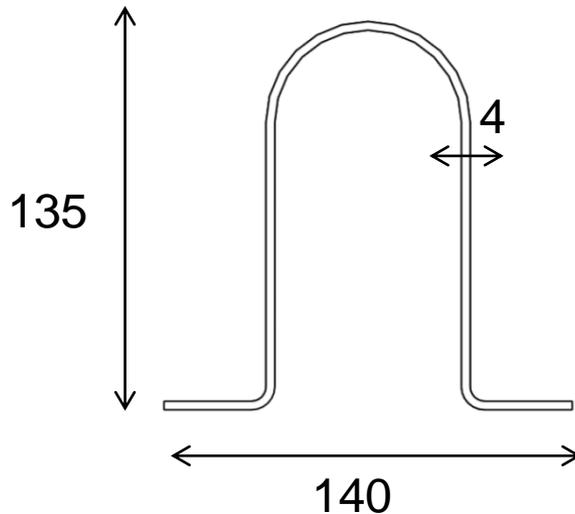
Installation Manual

1. The components of the fencing system

1.1 The posts:

Posts have a front width of 140 mm and a rounded rear (“omega” profile). The section is completed with a front cover plate.

Depending upon the section & post height, posts are manufactured with or without base plates.



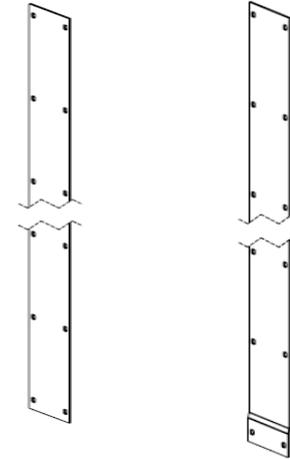
1. The components of the fencing system

1.2. The coverplates:

1.2.1 Coverplates for intermediate and end-posts:



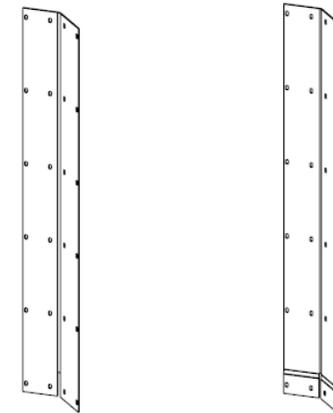
- profiled for overlapping
- flat single coverplates



1.2.2 Coverplates for corners :



- profiled for overlapping
- flat single corner-coverplates



1. The components of the fencing system

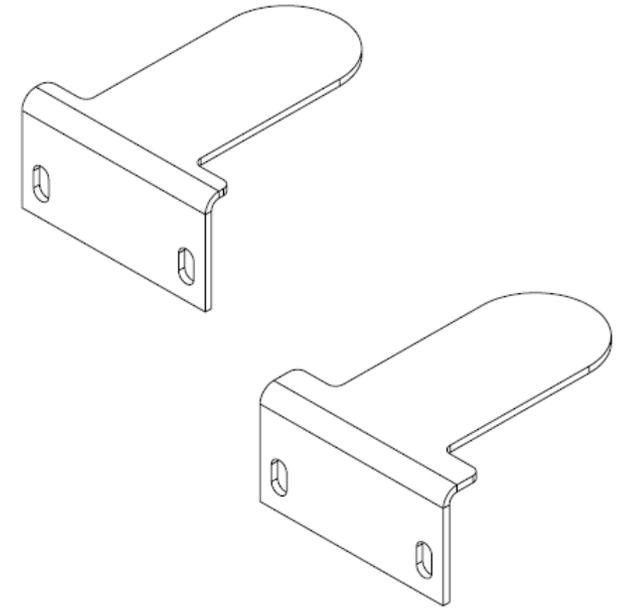
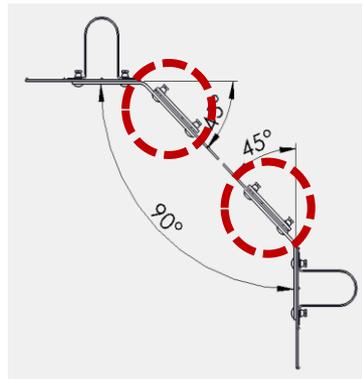
1.3 The bolts:

Round head squareneck bolts M8x30 DIN 603 in stainless steel

- Round head squareneck bolts M8x35 DIN 603 in stainless steel

- Round head squareneck bolts M8x40 DIN 603 in stainless steel(*)

complete with washer M8 DIN 125-1 A and shear nuts M8



** If double overlap in corner situations*

1. The components of the fencing system

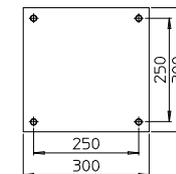
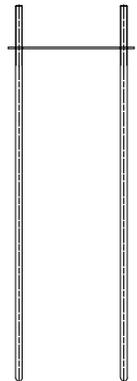
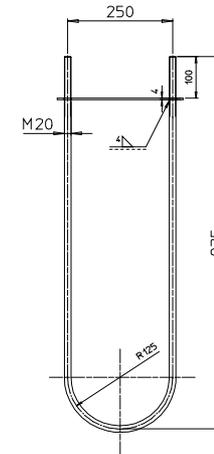
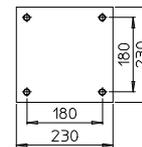
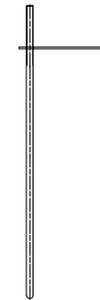
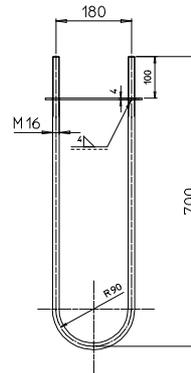
1.4 The Securifor panels:



1.5 The anchor systems:

1.5.1 Prefab ground anchorsets

The ground anchorsets supplied by Betafence have the main advantage that posts can be levelled horizontally as well as vertically to guarantee a perfect installation.



1. The components of the fencing system

1.5.2 Chemical anchorbolts with two part glue(*)



1.5.3 Mechanical ground anchorsets (*) (not shown)

1.6 Gauge (*):

For correct installation of the posts/fence



(*) not supplied by Betafence

2. Installation of the Bekasecure posts

2.1 Preparation of the site for use with chemical anchorbolts

To obtain best results, it is recommended to clear (remove trees, branches, rocks, stones ...) and level the site of the fence line over its full length and over a width of 5 m.



Levelling & dimensions



First layer



Support/prop up



Detail of the oblique part



Overall view of foundation



After levelling area around

2. Installation of the Bekasecure posts



Determine correctly the fence line taking into account p 2.2.1, 2.2.2 and/or plan



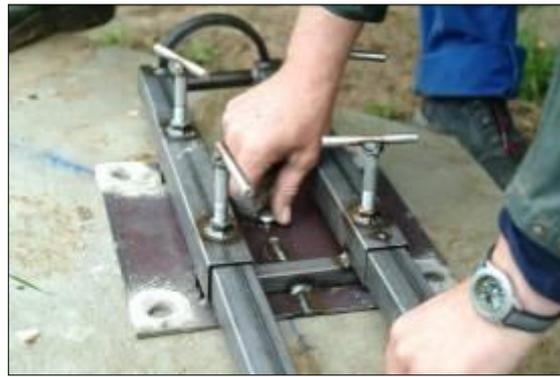
Outline the fence line



Indicate precisely centre/centre of corner and end posts



Predrill the centre hole



Position the gauge by means of putting a bolt or pen in the centre hole



Predrill holes for the base plate

2. Installation of the Bekasecure posts



Drill to the size of the predrilled holes



Blow the dust out of the hole



Fill up for $\frac{3}{4}$ with 2 part glue of follow the instructions of the supplier



Press the treaded rods by turning round!! Pre-adjust the bar with a nut at the exact height



Let it cure (duration: see information of the supplier of the 2part glue)

2. Installation of the Bekasecure posts



Ensure the threaded bolts are thoroughly cleaned



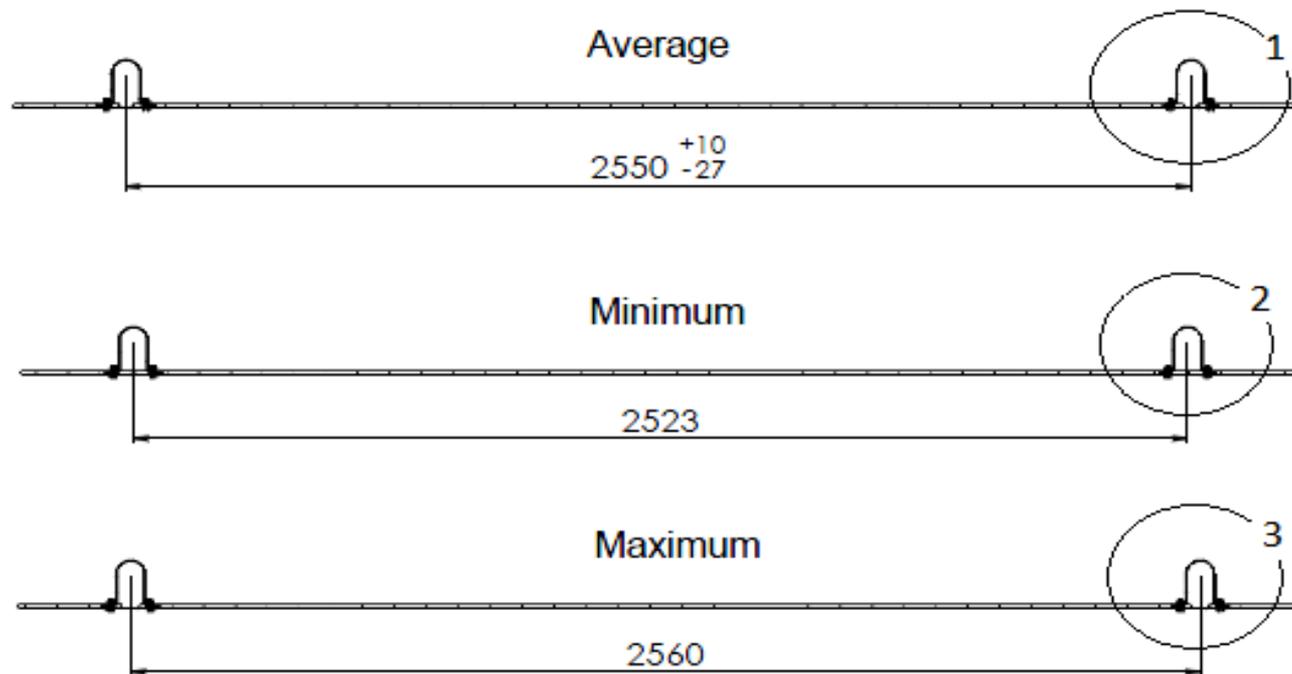
System nut/contra-nut for leveling the posts

- Where mechanical groundanchors or prefab groundanchors of Betafence are used, the installation method has to be adapted to the method as described above.
- In case the posts are installed directly into concrete without base plate. Long posts need to be supported during curing of the concrete for as long as necessary.

2. Installation of the Bekasecure posts

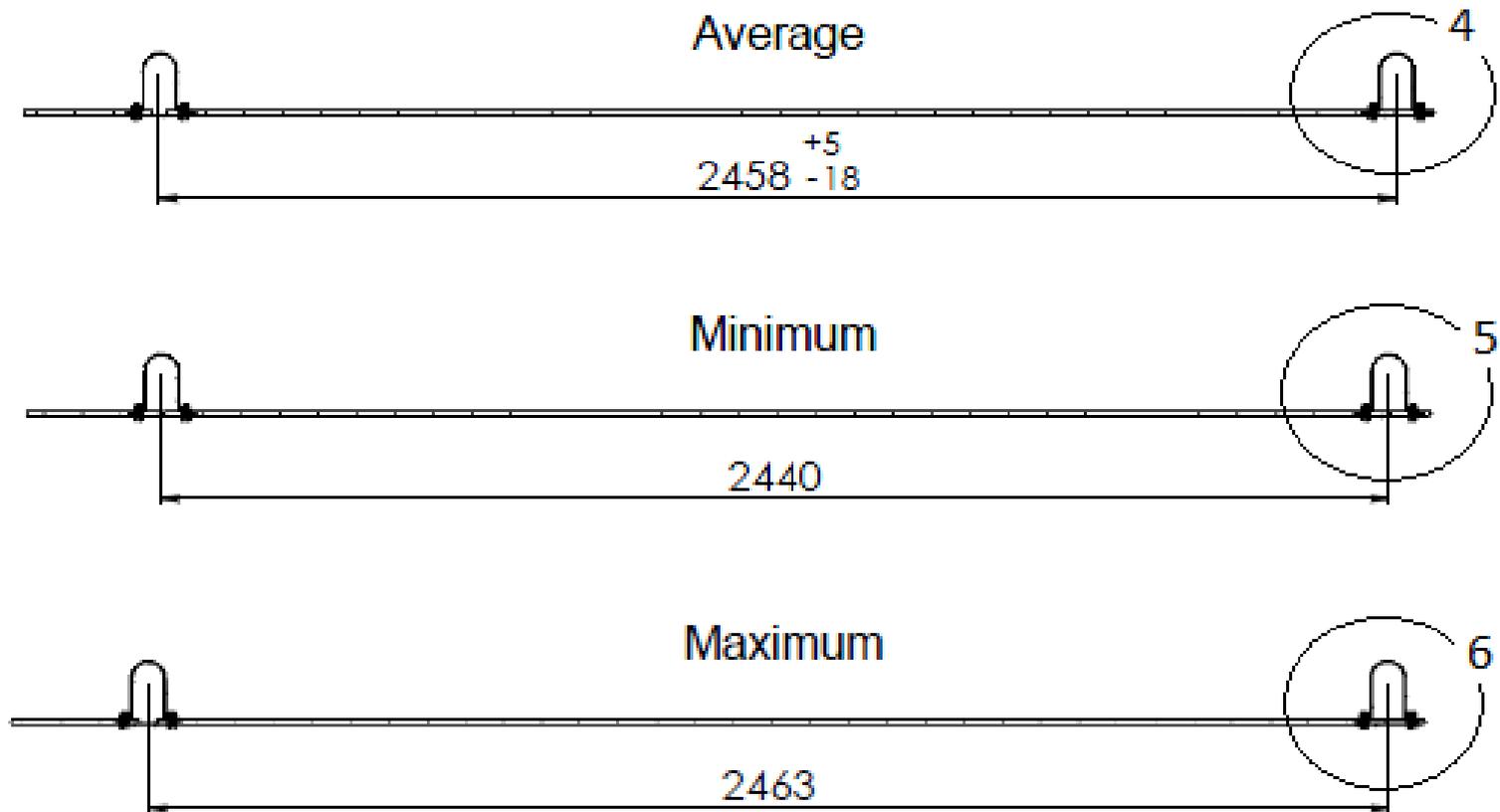
2.2 It is important that the following dimensions are adhered to when setting out the fence line

2.2.1 Positioning of intermediate posts:



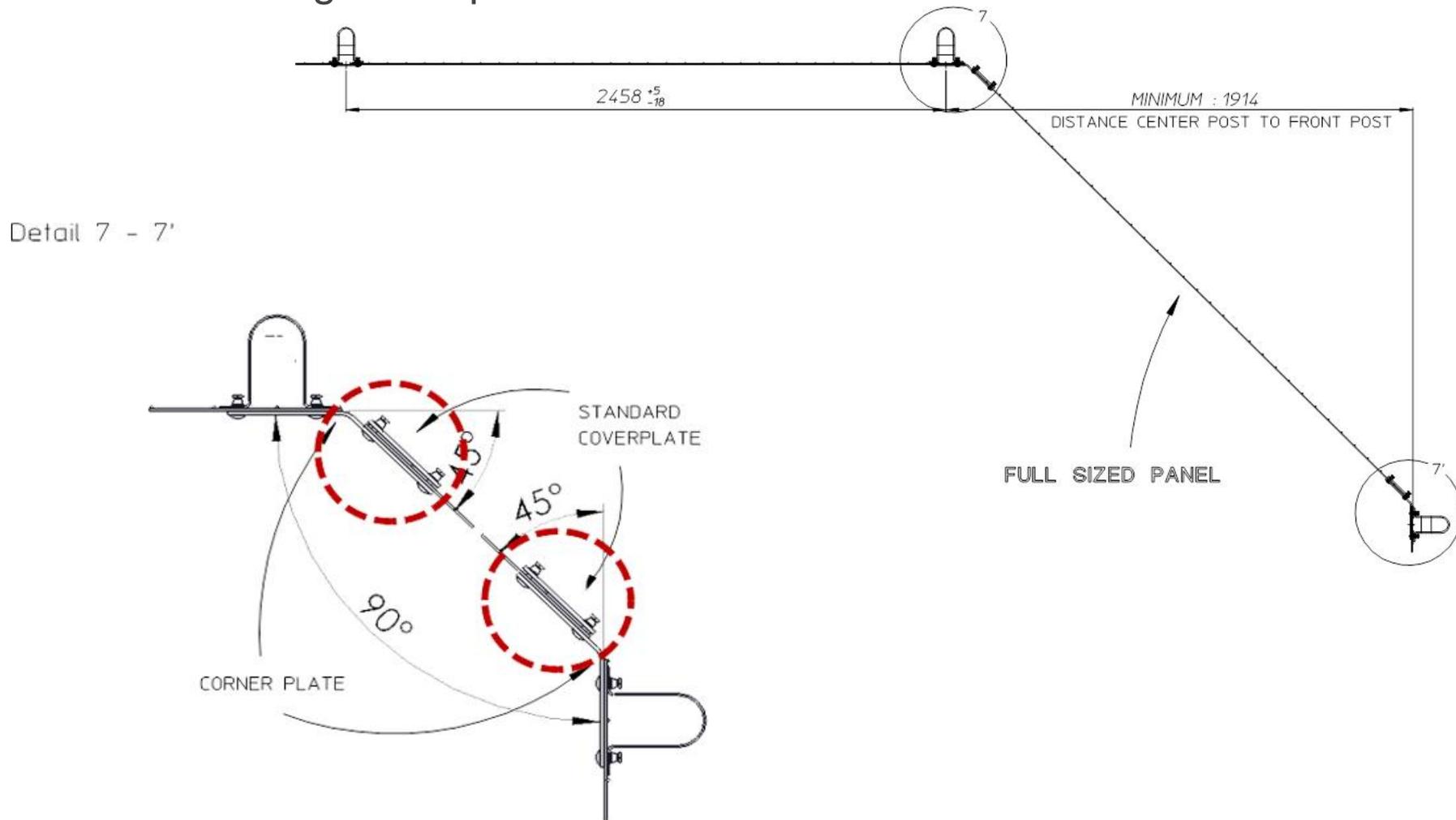
2. Installation of the Bekasecure posts

2.2.2 Positioning of endpost:

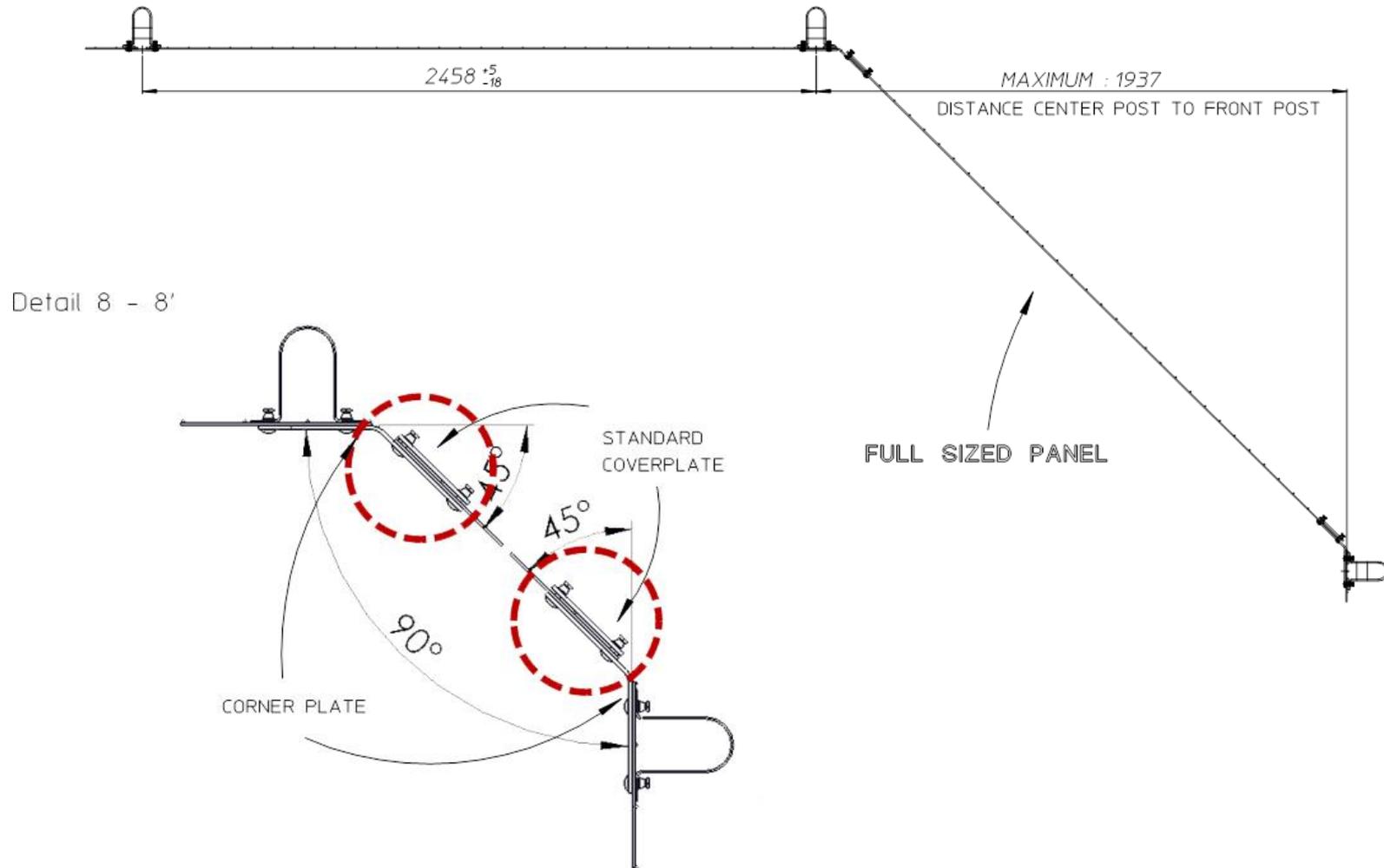


2. Installation of the Bekasecure posts

2.2.2 Positioning of endpost:



2. Installation of the Bekasecure posts



2. Installation of the Bekasecure posts

2.3. Erecting the security fence

2.3.1 Installation Bekasecure post



Lift up the post by means of a crane



Leveling by means of nut & contra-nut



Position the post on the anchor set



-> Repeat action for all posts

2. Installation of the Bekasecure posts

2.3.2 Installation of the Securifor panels

Lift up the panel with adapted tool



Fix temporarily by means of bolts while holding the panel in position with the crane



Position the panel to the first 2 posts

Finally secure with 4 bolts in top incl. cap and cover plate at the first post

2. Installation of the Bekasecure posts



Set up the next panel and fix temporarily to the 2nd and 3th post



Finally secure all parts of the fence on straight line



Finally secure the upper 4 bolts incl. cap & cover plate on middle and end post

2. Installation of the Bekasecure posts

2.3.3 Complete corners



Finally secure the 4 upper bolts at left and right side whilst holding the panel in position with the crane



Finally secure the coverplates downsides

2. Installation of the Bekasecure posts

Double overlap



Finally secure the coverplates downsides

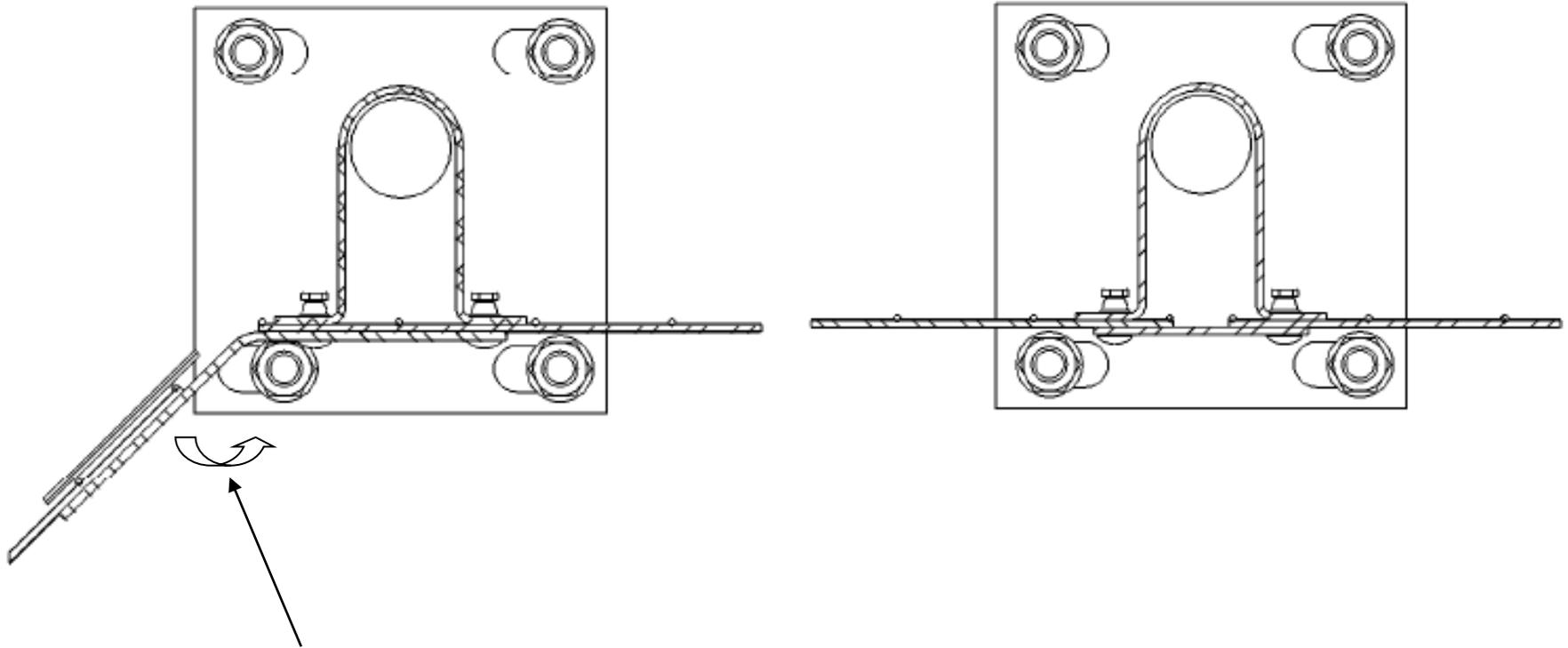


Fix all round head square neck bolts, washers and shear nuts

Note : If there is a corner at the end of the straight line, use the corner cover plates instead of the standard coverplates. These coverplates have also to be secured over the total height of the post before starting to fix the corner panel

If there is a double overlap in the corner, it is recommended to use the round head square neck bolts M8x40.

2. Installation of the Bekasecure posts



Sometimes it is necessary to position the anchor bolt at the other side of the slot in the base plate.

2. Installation of the Bekasecure posts



Result:

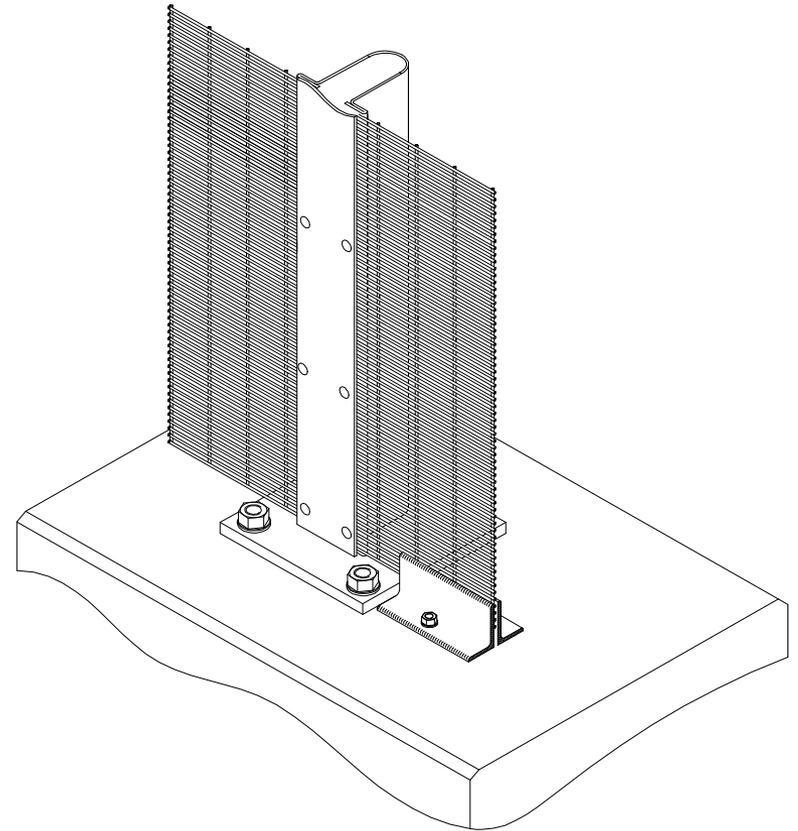
Securifor + Bekasecure =

**The security fence of
Betafence!**



2. Installation of the Bekasecure

To close the gap between concrete foundation and the lower side of the panel, we recommend to use 2 L-profiles, fixed on the concrete by means of mechanical/chemical anchor bolts(*)



(*) : not supplied by Betafence

2. Installation of the Bekasecure posts

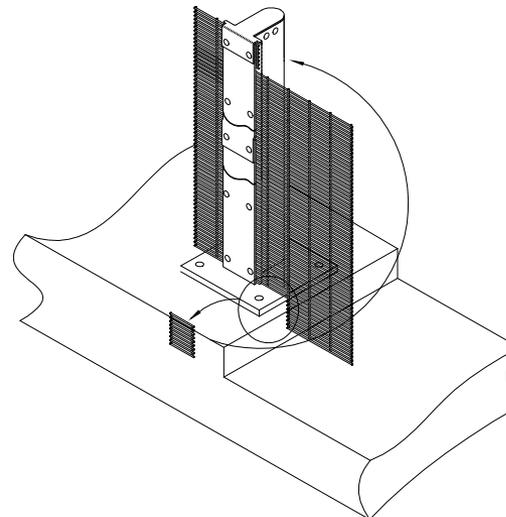
2.3.4 Distance between posts if panel needs to be shortened

If panels have to be shortened, for instance at the end of the fence-line or in the corners, this has to be done by complete meshes, this means by multiples of 76,2 mm. Distance between two posts has to be reduced accordingly.

2.3.5 In case of a slope

We recommend to check the different levels and decide on the best position and stepping (and the number of steps) to be made. A step in height always has to be a multiple of 12,7 mm. A step of 330,2 mm in height is the maximum recommended.

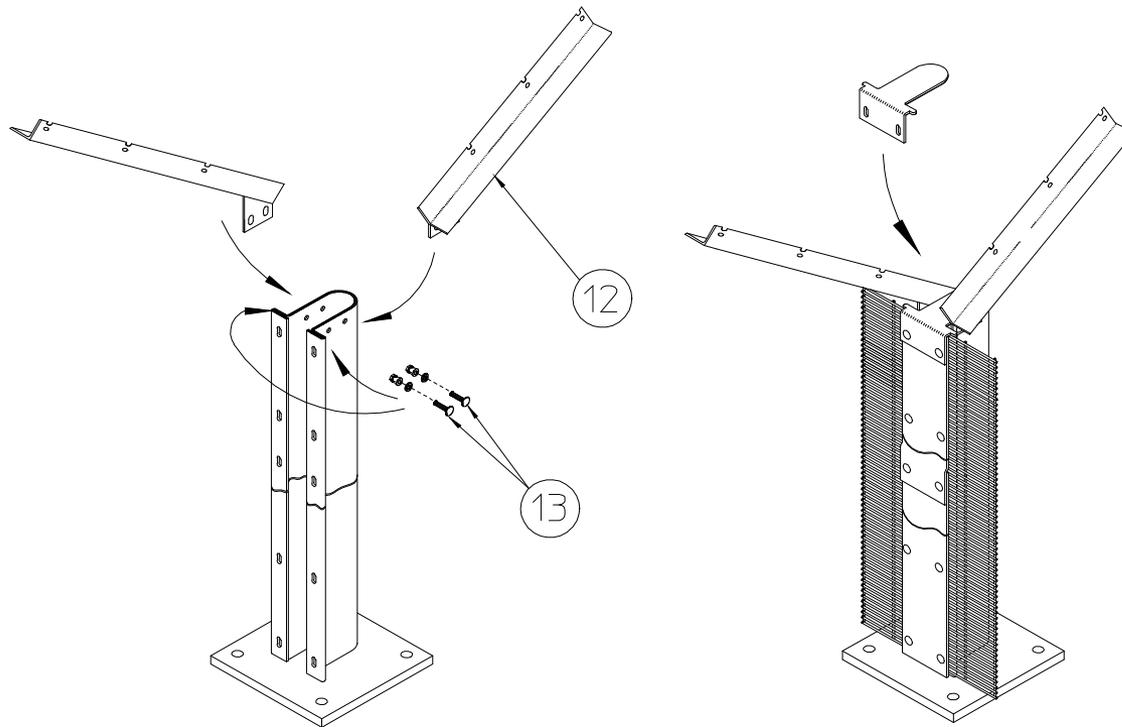
To obtain a smooth surface on the cover plate and the cap on top of the Bekasecure post, we recommend to use a small piece of mesh cut from the base as shown. (see drawing)



3. Options

Single or double cranked extension arm(s) can be fixed at the top of the Bekasecure post by means of M8x30 bolts with washers and shear nuts (two sets per side).

Each Bekasecure post has two predrilled holes on both sides at the top.



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