

U-LOX

Installation manual

0. Content

1. Components of the fencing system

1. The posts & collets
2. The panels

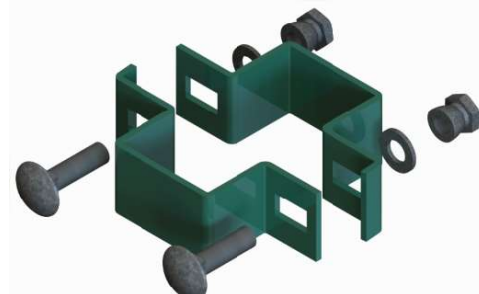
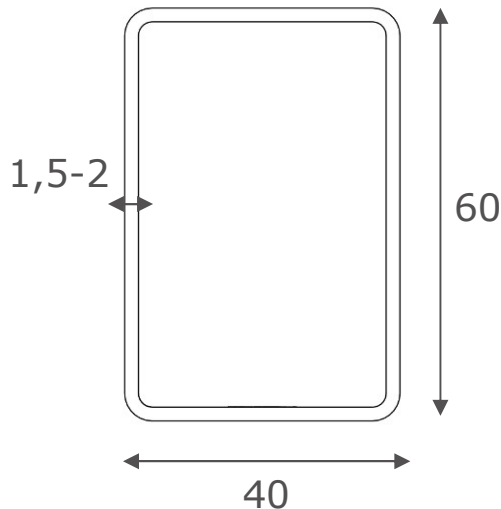
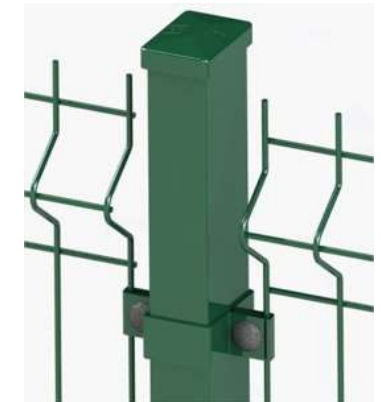
2. Installation of U-LOX

1. Foundations
2. Install posts
3. Install panels
4. Special cases

1. Components of the fencing system

1.1 The posts & collets

- The section of the U-LOX post is 60x40x1,5mm or 60x40x2mm, depending on the height of the fence
- The posts have not foreseen holes.
- Panels can be installed on post with U-collets from stainless steel wire, or on metal clamps
- Posts is covered with a post cap with Betafence logo
- Posts can be installed in concrete, or on floor plates (screwed to the posts with self drilling screw)



1. Components of the fencing system

1.2 The panels

- U-LOX posts can be installed with all Nylofor family panels. This is the standard range of posts & panels:

| Height of the fence | Post profile (mm) | Length of the posts concrete (mm) | QTY metal clamps | QTY U-Collets |
|---------------------|-------------------|-----------------------------------|------------------|---------------|
| 1030 | 60x40x1,5 | 1500 | 2 | 2 |
| 1230 | 60x40x1,5 | 1700 | 2 / 3* | 3 |
| 1430/1530 | 60x40x1,5 | 2000 | 2 / 3* | 3 |
| 1630/1730 | 60x40x1,5 | 2200 | 3 / 4* | 3 |
| 1830/1930 | 60x40x1,5 | 2400 | 3 / 4* | 4 |
| 2030 | 60x40x1,5 | 2600 | 4 | 4 |
| 2230 | 60x40x1,5 | 2800 | 4 | 4 |
| 2430 | 60x40x2 | 3000 | 4 | 4 |

* for panels: 3D Light, 3D Promo, 3D Basic

2. Installation of U-LOX

2.1 Foundations

- To obtain the best result, it is recommended to level the ground over the whole length of the fence
- Align the fence line
- For correct positioning, maintain the centre-centre distance of **2510mm** when U-Collets will be used and **2570mm** for metal clamps
- To determine the dimensions of the foundations it is recommended to consult a specialized engineer to evaluate wind load and solar conditions and any other factors requiring specialist opinion (concrete quality directive B30)
- In case of instant installation the post needs to be supported as long as necessary

$$\text{C-C} = 2510 \pm 10\text{mm}^* / 2570 \pm 3\text{mm}^{**}$$



* for assembly with U-Collets

** for assembly with metal clamps



2. Installation of U-LOX

2.2 Install posts

- Installation principle: when installing U-LOX, first all the posts can be placed and then the panels can be attached

ALIGNING THE POSTS

- Place a pin before the first post of the fence and another behind the last post. Connect those pins with two guide ropes
- The lower guide rope should be between 20 and 40 cm above the ground. Now align all inserts with the upper guide rope. The bottom of the panel should be around 50mm above ground level.

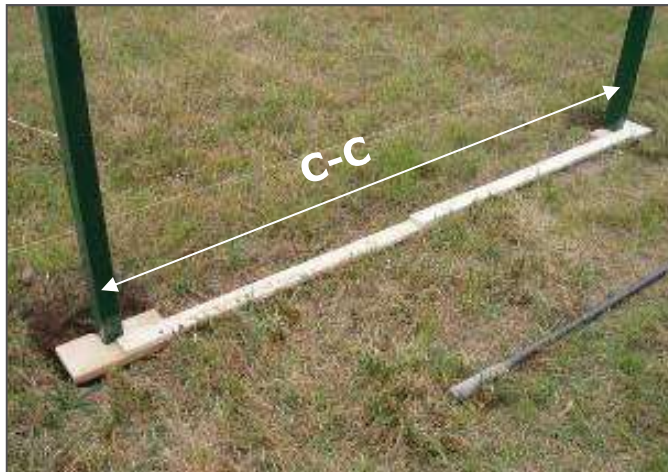


2. Installation of U-LOX

2.2 Install posts

PLACEMENT OF THE POSTS (USE A TEMPLATE)

- A template makes it much easier to place the posts correctly
- The template must be made by the installer and must have 2 recesses into which the posts fit perfectly
- Place the posts, correctly aligned (vertically and horizontally) and with the correct distance between them.
- Install the posts so that the clearance between panel and floor is 50mm
- While the post is installed, make sure no water can stay inside the post. If the ground is impermeable, provide a drain hole on site.

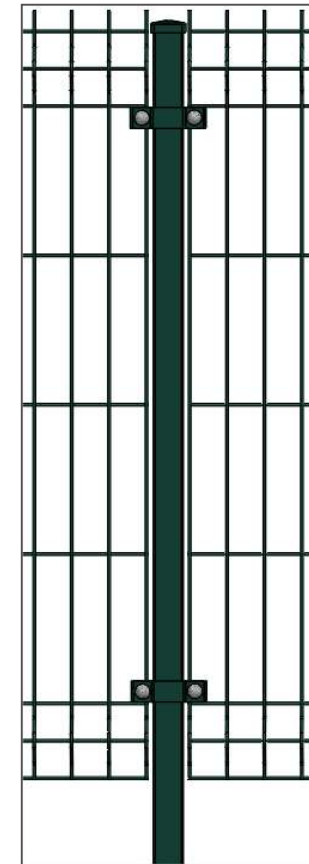
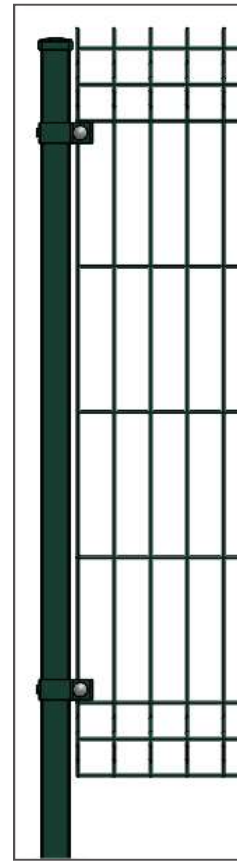
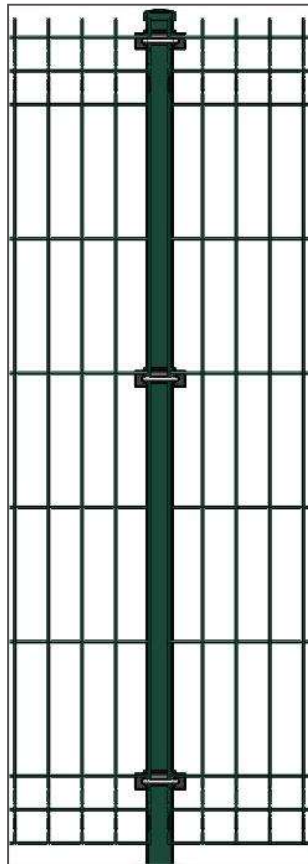


2. Installation of U-LOX

2.3 Installation of the panels

INSTALLING THE PANELS

- Use a U-collets, or metal clamps to fasten the panel, first install a fixator at top and bottom
- When perfectly aligned, install the other fixators

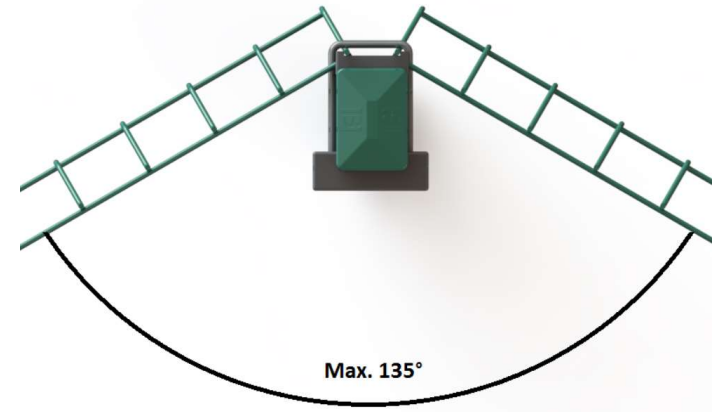
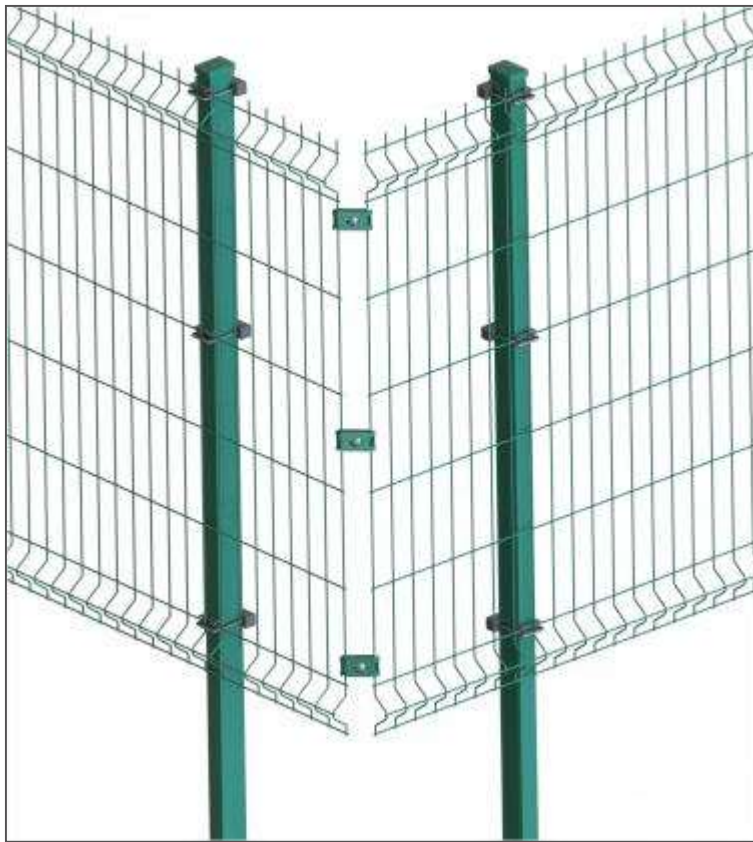


2. Installation of U-LOX

2.4 Special cases

CORNERS AND ANGLE SOLUTIONS – U-COLLET

- For corners, use two posts that are placed around 200mm outside the corner. Connect the panels with corner clamps. The corner clamps are fixed with Mushroom Head Square Neck bolts (DIN603) M8x25, in stainless steel



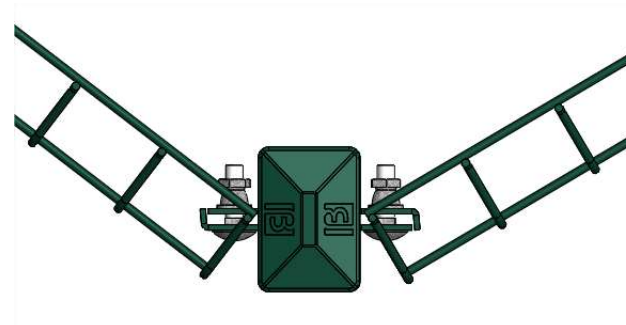
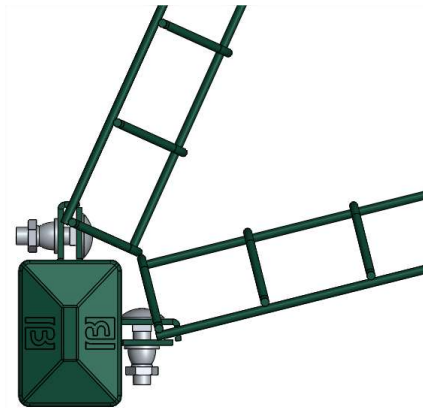
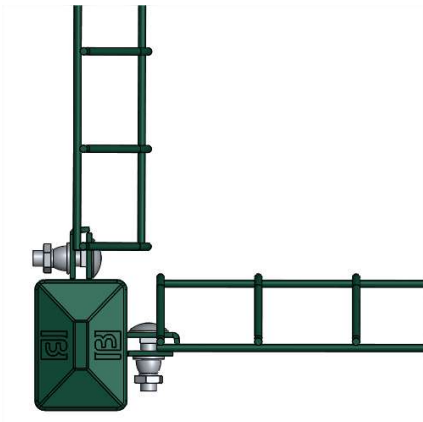
- For angles max 135 ° is possible to installing panels on standard U-Collet

2. Installation of U-LOX

2.4 Special cases

CORNERS AND ANGLE SOLUTIONS –METAL CLAMPS

- To achieve different angles any additional accessories is needed. All corners and angles could be realized on standard metal clamps.



2. Installation of U-LOX

2.4 Special cases

INSTALLING SLOPES

- Install the first panel
- Take a second panel and install it to the front of the post with the required height difference
- Fix both panels to the post with the fixators



IB BETAFENCE