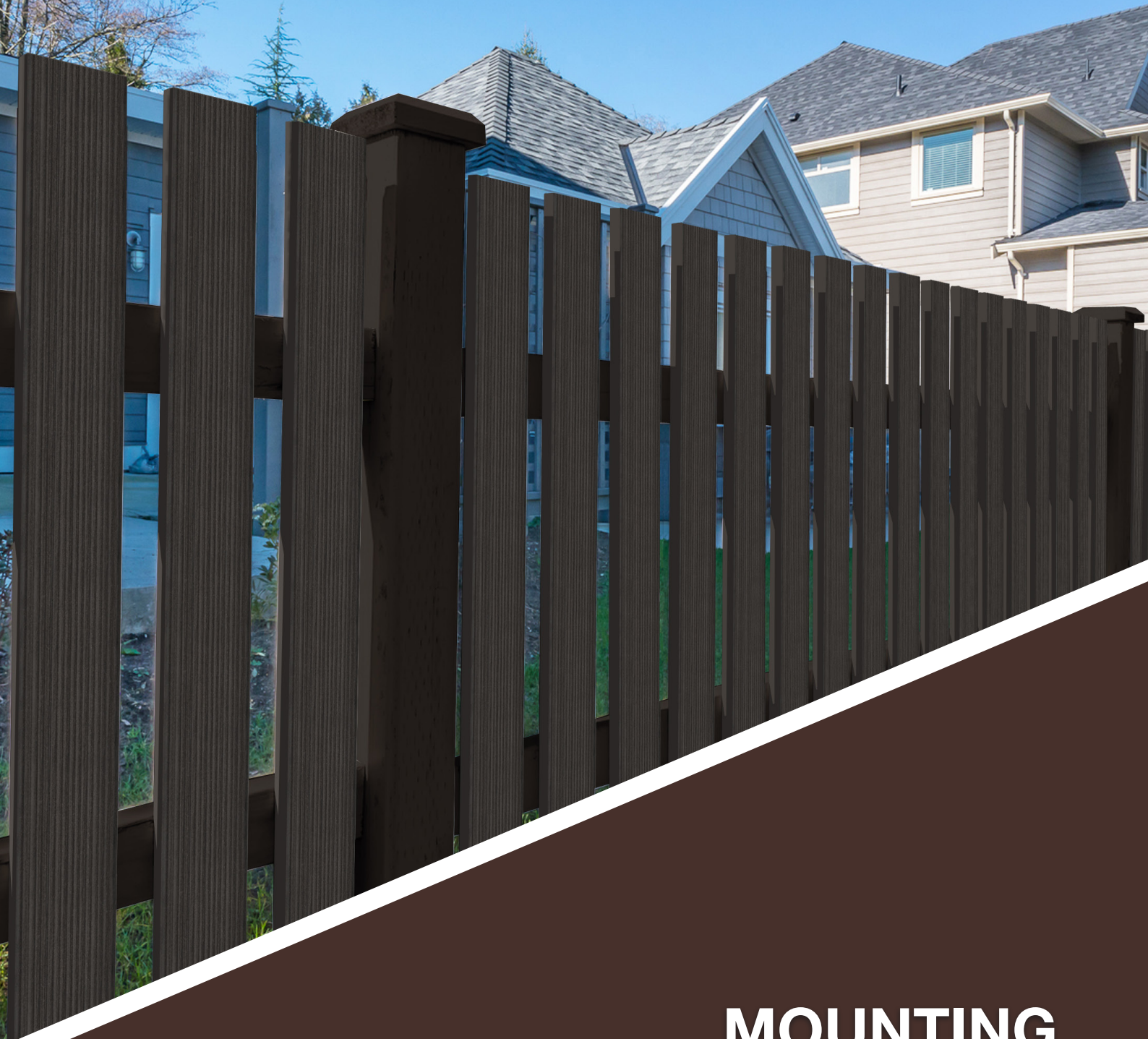




Gamrat WPC

WPC FENCE PROFILE

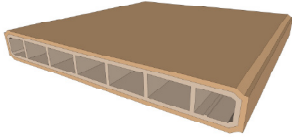
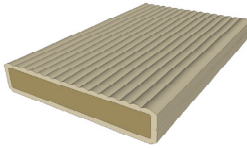
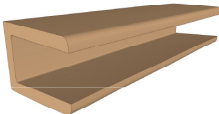





**MOUNTING
RECOMMENDATIONS
FOR FENCE PANELS**

MATERIALS

Fencing profiles Gamrat are high quality materials that includes special selected wood flour and PVC component and other components. Fencing profiles are designed to use as a fencing, and can not be used to other construction purposes, without person who is qualified and certified architect/builder/constructor.

The offer includes the following basic materials:

| NAME | FENCE PANEL (HOLLOW BOARD) HORIZONTAL | FENCE PANEL (FULL BOARD) VERTICAL | CHANNEL SECTION |
|----------------|---|---|---|
| PICTURE |  |  |  |
| DIMENSION (mm) | 19 x 150 x 2000 or lengths on order | 19 x 100 x 1250 or 19 x 100 x 1500 or 19 x 100 x 2000 or lengths on order | 30 x 40 x 2000 or lengths on order |
| COLOUR |  |  |  |

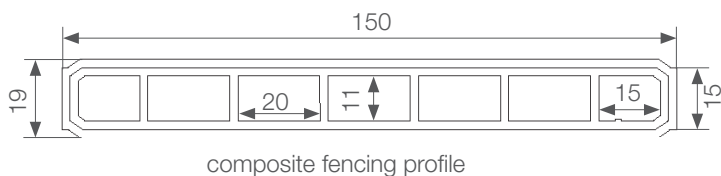
Colouring

In the first period of using fence profiles under the influence of external conditions, they are subject to seasoning. The colour stabilizes after a few months reaching its final saturation.

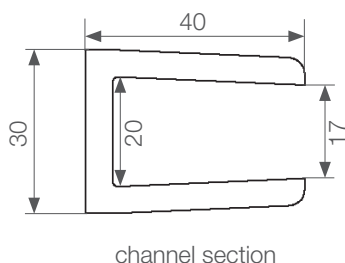
Due to the content of wood fibres, individual fence profiles, especially those from different production batches, may differ in colour. The colours and surface finishes may be different for different deliveries. It does not affect their durability and it is not a defect of the product. Before starting installation works, examine visually fence profiles against their appearance and defects. To achieve a natural effect, fence profiles should be mixed before mounting, bearing in mind the direction of brushing.

FENCE COMPONENTS

Composite fencing profile width 15cm, both sides same structure.

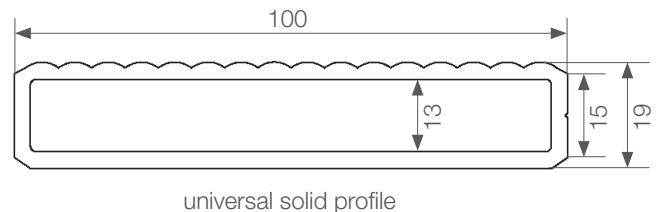


The channel section is an element used for constructing a fence frame (horizontal rails), to which fence planks are installed.



In Gamrat offer we also have universal fence panel of 10cm width, full board. It can be used in fencing as a vertical layout board or in fencing as a horizontal layout board.

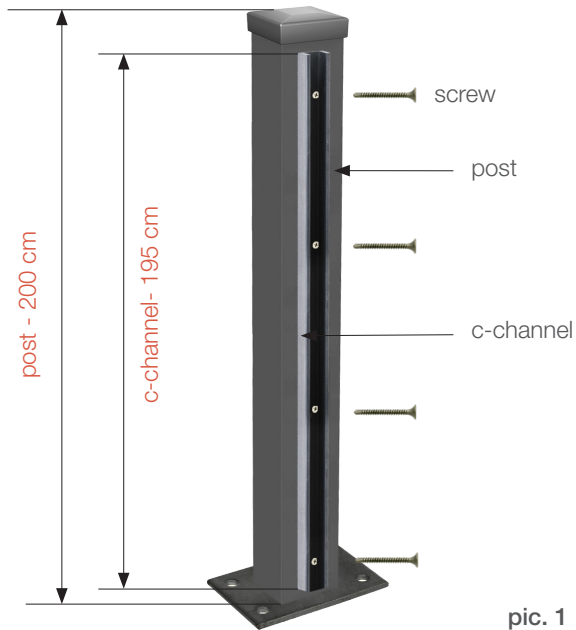
One side of the fencing panel is wavy shaped and other is flat and smooth. Fencing panel can be brushed/sanded



FENCE INSTALLATION – horizontal design

Horizontal fencing can be used with profile 150mm and 100mm. Mounting instructions will be the same for both boards.

Before installing the Gamrat fence profiles, prepare so-called fence base, which consists of stone, steel or aluminium posts anchored in a concrete foundation. Attach the Gamrat composite channel section profiles with a minimum of four equally spaced self tapping screws to the posts along their entire height. The channel sections form a rigid frame for fence boards. The channel section with a standard length of 200 cm is cut to the right length of the post and additionally reduced by 5 cm (**example pic. 1**). Screws need to be drilled every 45 cm. C-channel needs to be mounted by screws on minimum 3 places on front edge of channel (if can't have 45 cm spacing rule)

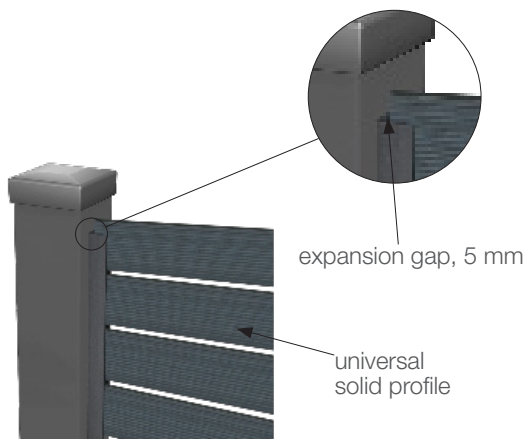


pic. 1

Notes:

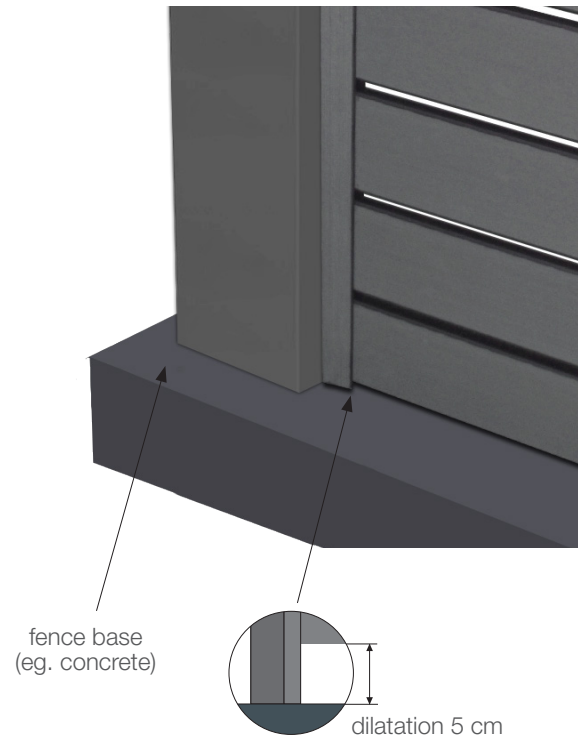
- the screws should be screwed in using a screw gun set to a low tightening torque
- boards and channel sections must not be hit with a hammer
- provide straightness of the side of the fence

Slide the ready-made universal profile from the top between the channel sections fastened to the posts, remembering **to keep the 5 mm expansion gap** on both sides of the board.

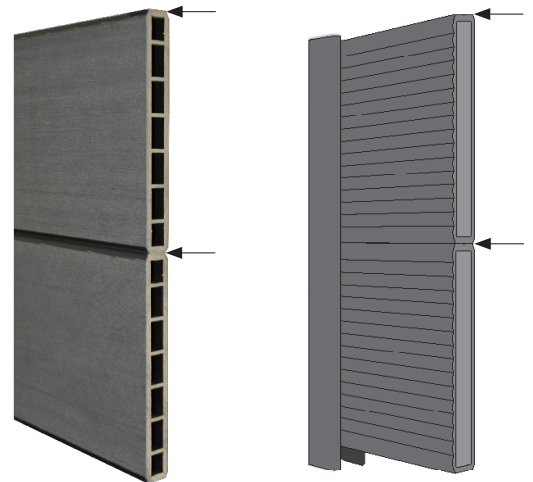


The first board is placed on levelled ground (wall, screed) while keeping the expansion gap of 2 - 5 cm depending on the method of making the fence base.

The first board is placed on levelled ground (wall, screed) while keeping the expansion gap of 2 - 5 cm depending on the method of making the fence base.



Boards should always be mounted in the same direction, i.e. they must be inserted so that the printed side is always on the same side of the board (placed on the side of the board).



FENCE INSTALLATION – HORIZONTAL DESIGN

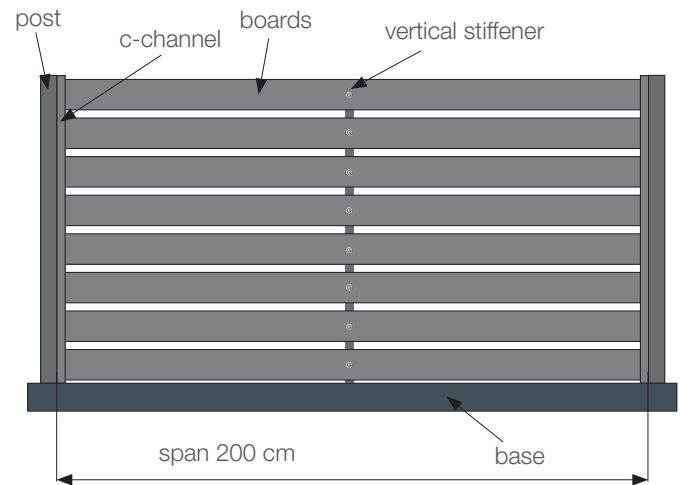
Standard board length is 200 cm, it can be cut to required length. In regards to profiles of 170 cm of length or longer there is a need to vertical stiffening of the construction mounted to the boards and mounted on fence base with bolt M5 or M6 (with rounded head). Size of the drilled hole in fence profile need to be one size bigger then bolt size due to material work of the profile in weather conditions.

Boards can be mounted as fencing span with full (e.g. pic 1) or with gaps (e.g. pic 2). When mounting fencing span with gaps we can use cut for required length pieces of fencing panels as distance separator. There is no need to mount the distance separator to channel section. When we decide to mount the distance piece block we need to leave 1-2 mm space/dilatation between piece and channel surface. We not allow to block or mount last panel in the fence span. To allow correct material work (expenditure) we need to mind dilatation, 1 mm for each board in fence span (for 10 boards, 1 mm x 10 = 1 cm). This is very important when building full fence span/without gaps.

Attention:

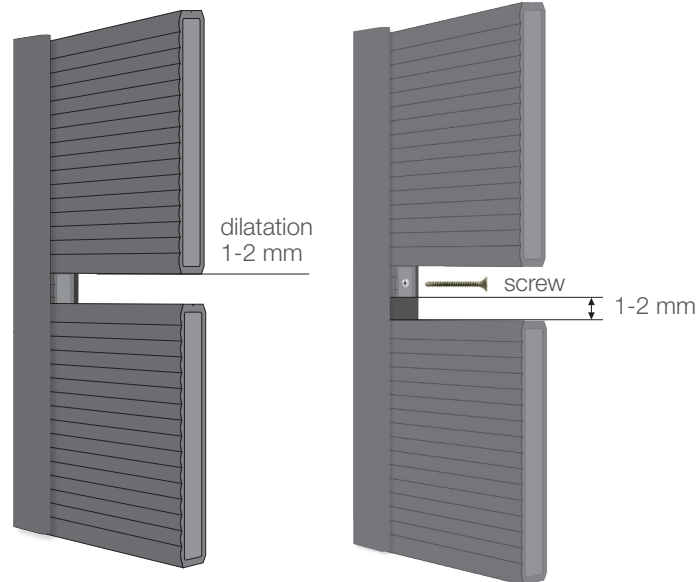
We don't mount boards to channell sections (drilling or gluing). Fencing profiles need to have ability to work(move,expand) to eliminate potential tensions that can accure in fence span due to changing weather conditions

pic. 2 (view on the front of the fence)



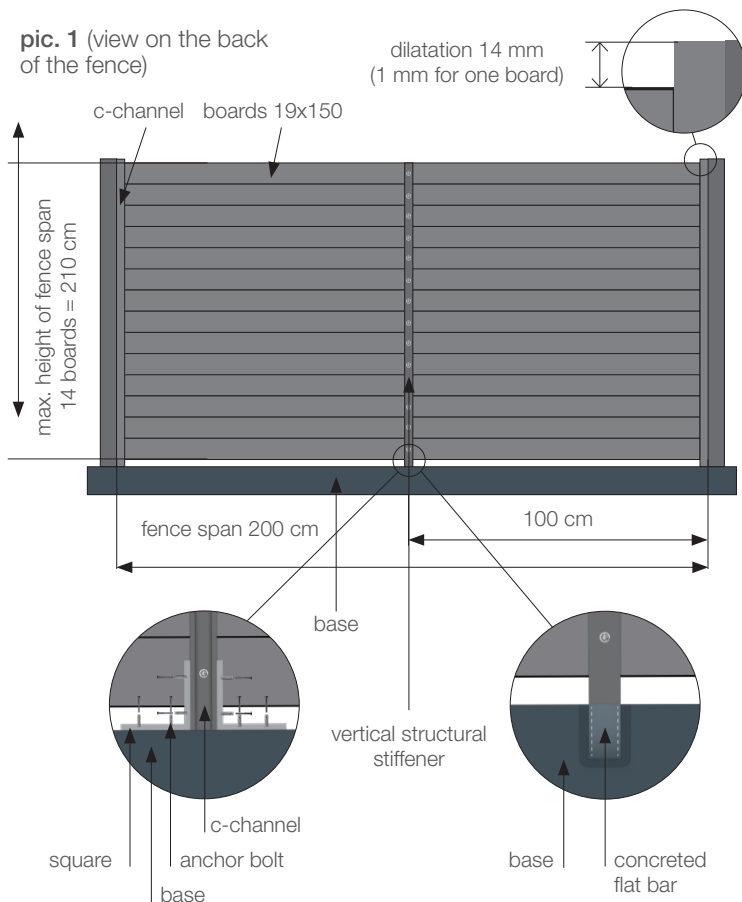
pic. 3

pic. 4



With dilatation up to 2 cm (pic. 3) distance separator should be never mounted permanently. With dilatation over 2 cm (pic. 4) distance separator should be mounted to the c-channel with a minmum 1 cm of free space between distance separator and fencing board below.

pic. 1 (view on the back of the fence)



vertical stiffening element (e.g. C-profile 2-3 cm wide) mounted in the middle of the span using M5 or M6 screws screwed through the board through the board and connected to the foundation with angles. Angles fasten with concrete pegs in the foundation and attach to the side walls of the channel. Angle length min. 10 cm

vertical stiffening element (e.g. a flat bar with a width of 2-3 cm) mounted in the middle of the span with M5 or M6 screws screwed through the board through the board permanently connected with foundation (concreted).

FENCE INSTALLATION – VERTICAL DESIGN

The fencing construction is usually made of metal posts and a span made of two metal horizontal rails. Fence posts can also be made of bricks or covered with stone. Composite profiles are fastened with an M5 or M6 square neck bolts (with a mushroom head), the size of the hole drilled in the profile should be larger than the size of the screw, in order to provide proper working in changing weather conditions.

Note: It is not recommended to install the universal profiles laid on the butt.

Attention:

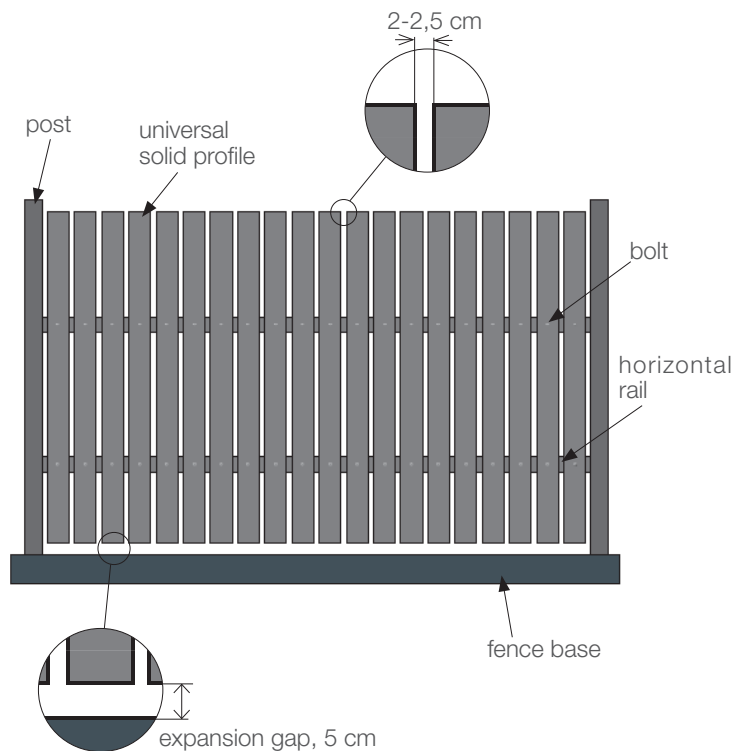
We don't allow to mount panels in tight connections.

Minimum distance between panels to include dilatation 1-2 mm.



M5 or M6 bolt

The distance between the profiles is an individual matter for each investor, but the most common distance is 2-2.5 cm. This ensures rational usage of the boards per 1 meter of fence length, while maintaining optimal separation from "neighbours" or pedestrians on the street.



The height of the profiles is also an individual matter – the standard dimension is 125 cm and 150 cm. It is worth only remembering to take into account the height of the fence base (if applicable) and to make an expansion gap between the fence base and the universal profile (about 5 cm).