

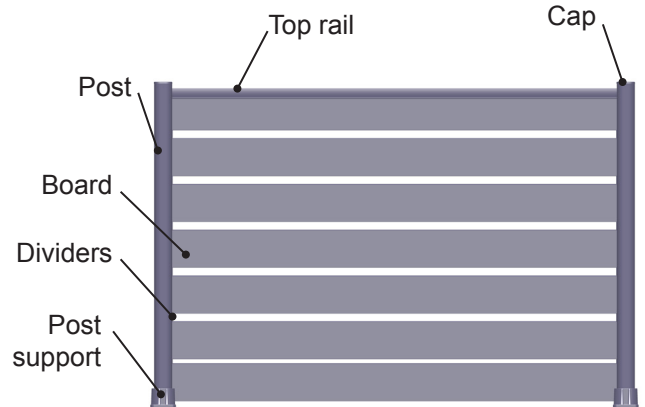
PLEASE READ CAREFULLY BEFORE STARTING ANY INSTALLATION OF SILVADEC® ALUMINIUM FENCING

Before starting installation on site, we strongly recommend that you read this document in full, so as to understand any potential installation issues.

Do not install fencing in an environment likely to permanently scratch fence boards, posts, post finishing profiles, post supports or caps. These are made of scratch-sensitive aluminium alloy. Fence boards are not structural elements. Silvadec® aluminium fencing is intended for vertical use and is not designed to support a load or to act as an anchoring point.

Our guarantee only covers Silvadec® components that are assembled together (for example, our guarantee will not cover posts used with exotic wood boards).

We decline all liability and void our guarantee in case of failure to comply with the instructions below. It is **IMPERATIVE** that corner posts are braced to ensure increased resistance to wind.



**ASSEMBLY AND CALCULATING THE NUMBER OF FENCE COMPONENTS REQUIRED
(WITH OR WITHOUT CONCRETE FOOTING)**

**INSTALLATION ON SINGLE SHELL POST SUPPORTS (SMOOTH FINISH ACCESSORIES ONLY)
MAY ONLY BE USED FOR POST HEIGHTS UP TO 1260 mm.**

**INSTALLATION ON DOUBLE SHELL POST SUPPORTS (SANDED FINISH ACCESSORIES ONLY)
MAY BE USED FOR FENCE POSTS TO A MAXIMUM HEIGHT OF 1845 mm.**

N.B.: before cutting any posts to height, remember that posts must always be taller than the stacked boards. It is **VITAL** to retain a gap of **AT LEAST 15 mm** between the cap and top rail. **WHEN CUTTING POSTS ADD A MARGIN OF AT LEAST 15 mm** TO THE TOTAL STACKED HEIGHT OF THE BOARDS AND OTHER ACCESSORIES.

**INSTALLATION WITH
POST SUPPORTS**

Number of boards	Desired fence height	Minimum corresponding post height
8	1200 mm	1260 mm
12	1800 mm	1845 mm

POST WITH CONCRETE FOOTING

Number of boards	Desired fence height	Corresponding post height
12	1800 mm	2315 mm

Post height above ground: **1815 mm**
500 mm

TECHNICAL FEATURES

Board dimensions: 148 x 21.3 mm (+/- 0.5 mm)
Standard length: 1797 mm (+/- 2 mm)
Board weight: 2.4 kg (+/- 5%)

A) INSTALLING FENCING WITH POST SUPPORTS

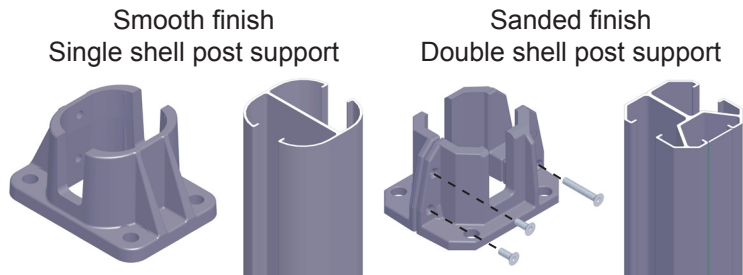
The Silvadec® fencing range offers aluminium accessories in two different finishes, sanded or smooth. **Each finish corresponds to a post profile and post support type.**

We recommend that you fix post supports to a **uniform, flat and stable concrete slab with a minimum width of 20 cm**. Check the flatness of the installation surface. We **STRONGLY** advise against fixing post supports to hollow footings (hollow blockwork for example).

TOOLS AND MATERIALS FOR INSTALLATION

- Drill
- Spirit level
- String
- Tape measure
- M10 stainless anchor bolts (ideally products designed for railing installation) 4 per post support
- Pencil (optional)
- Mallet (optional)
- Set of Allen keys

TWO FINISHES - TWO TYPES OF POST SUPPORT AND POST

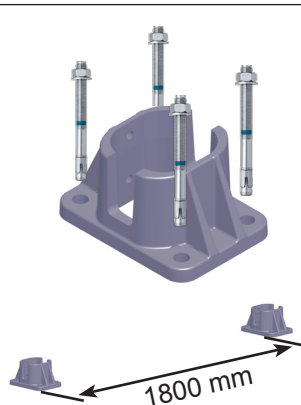


A-1) FENCING INSTALLATION WITH SINGLE SHELL POST SUPPORTS

INSTALLING A FENCE WITH SINGLE SHELL POST SUPPORTS LIMITS POST HEIGHT TO 1260 mm, I.E. A STACK OF 8 ALUMINIUM BOARDS.

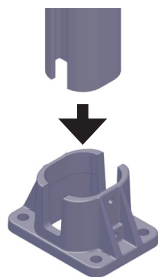
REMEMBER TO INCLUDE A GAP OF AT LEAST 15 mm AT THE TOP OF THE POST (between the cap and the top board).

A11. POSITION the 1st post support. **MARK** the anchor points. **REMOVE** the post support. **DRILL** the holes as per industry standards. **RE-POSITION** the post support (wedge if necessary to ensure proper support). **INSERT** and tighten the 4 anchor bolts. **FIX** the second post support in the same way, adhering **WITHOUT FAIL** to the 1800 mm distance between supports. Do not use anchor bolts of less than 8 mm in diameter. *Silvadec is in no way liable for the choice of hardware used for the installation.*

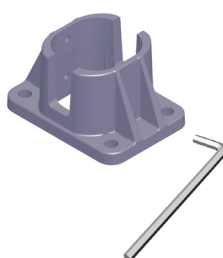


Take care to correctly orient the post supports during installation.

A12. INSERT the 2 posts into the post supports. **Check** that the posts are vertical using a spirit level.



A13. SCREW the pressure screws onto the posts using a No.4 Allen key until the assembly no longer moves (hand tightening).



A-2) FENCING INSTALLATION WITH DOUBLE SHELL POST SUPPORTS

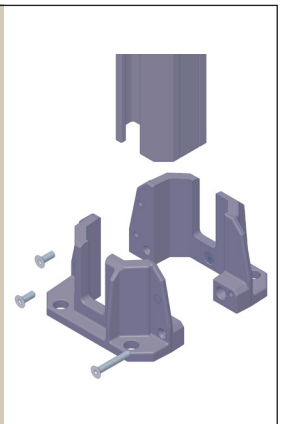
INSTALLING A FENCE USING DOUBLE SHELL POST SUPPORTS LIMITS POST HEIGHT TO 1845 mm, I.E. A STACK OF 12 ALUMINIUM BOARDS.

IN THIS CASE, CUT THE POSTS (initially supplied at a length of 2315 mm) TO A SUITABLE LENGTH NOT EXCEEDING 1845 mm, BASED ON THE STACKING CONFIGURATION CHOSEN (number of boards, divider heights, design kit, etc.). **REMEMBER TO INCLUDE A GAP OF AT LEAST 15 mm AT THE TOP OF THE POST (between the cap and the last board).**

N.B.: FOR SAFETY REASONS, IF INSTALLING AN ELEVATED FENCE ON A LOW WALL, THE "WALL+FENCE" HEIGHT MUST NOT EXCEED 2.20 m.

A21. POSITION the post in the post support, leaving a sufficient gap for the post to slide easily into the cavity provided. **TAKE CARE WITH THE ORIENTATION OF THE POST IN THE POST SUPPORT:** the two openings in the post must be opposite the open parts of the post support. The removable strip in the post (see paragraph "INSTALLING FENCE CORNERS - 3 IN 1 POST" on page 7) must be opposite the 3rd open part of the post support.

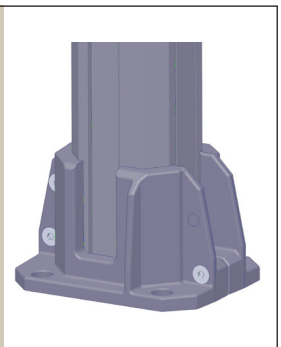
TIGHTEN the two halves of the post support against the sides of the post by tightening the 3 installation screws.



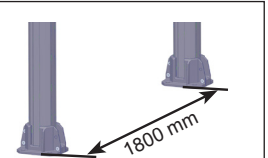
A22. POSITION the post support + post assembly on the concrete slab. **MARK** the anchor points.

REMOVE the post support. **DRILL** the holes as per industry standards. **RE-POSITION** the post support + post assembly (wedge if necessary to ensure proper support).

Insert and tighten the 4 anchor bolts. Do not use anchor bolts with a diameter of less than 8 mm or exceeding 12 mm.



A23. REPEAT the process for the second post + post support assembly. **IT IS ESSENTIAL TO ADHERE** to the distance of 1800 mm between posts, even for a corner installation.



B) INSTALLING FENCING WITH CONCRETE FOOTINGS

FOR THE INSTALLATION OF THE POSTS INTO CONCRETE FOOTINGS, WE RECOMMEND THAT 2 PEOPLE WORK TOGETHER. Great care is needed for the installation of the posts in concrete footings.



TOOLS AND MATERIALS FOR INSTALLATION

- Auger
- String (optional)

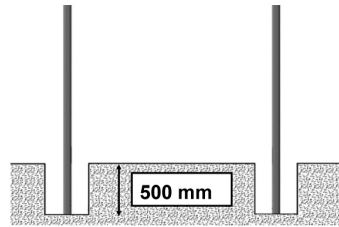
- Spirit level
- Garden fork (optional)

- Tape measure
- Mallet (optional)

B1. DIG the footings for the posts: holes must be at least 300 mm in diameter and 500 mm deep (in compacted and even ground).

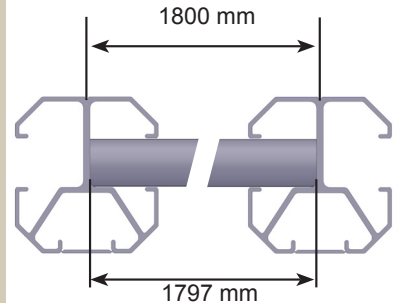
The installer may need to dig bigger holes, depending on the type of terrain.

The installer has sole responsibility for evaluating the size of hole required.



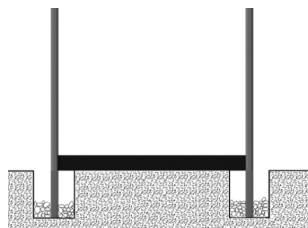
B2. PRE-POSITION the posts in the holes.

The distance between posts must be 1800 mm. Space the posts at 1797 mm +/- 3 mm, measuring between the two centre ribs of the posts, as shown on the diagram alongside.

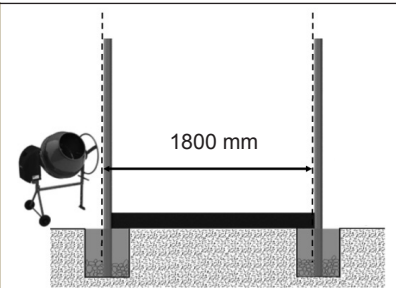


B3. WEDGE the base of the posts with stones if necessary.

CAREFULLY ADJUST the verticality and height of the posts relative to the ground.



B4. EMBED the posts in the holes with concrete while continuing to check post height and plumb (with a level), and the distance between posts. When the concrete has set, **re-check the 1800 mm measurement.**



C) INSTALLING ALUMINIUM FENCE BOARDS AND THE TOP RAIL

C-1) ALUMINIUM FENCE BOARD

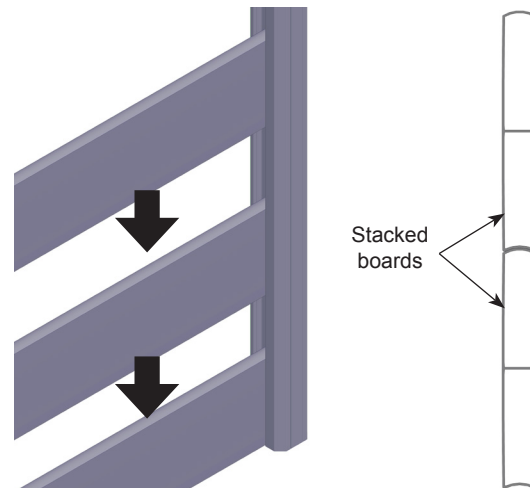
INSERT the boards into the posts from the top.

SLIDE the boards downwards along the grooves in the posts.

STACK the boards on top of each other.

Do not glue, weld or screw boards and halfway support profiles to each other or onto the posts.

The aluminium boards must descend fully into position in the posts.



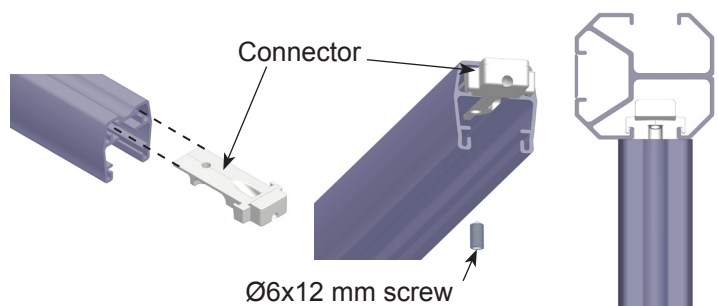
C-2) TOP RAIL

For an elegant finish to your SILVADEC® fence, a top rail can be installed above the top board. An optional connector connects the rail to the post.

INSERT the connectors at each end of the rail, in the socket provided.

Each connector is fixed onto the rail with the headless screw provided (M6x12mm).

SLIDE the connector (connected to the rail) onto the post until the rail rests on the top board.



D) ALUMINIUM BOARD CONFIGURATIONS

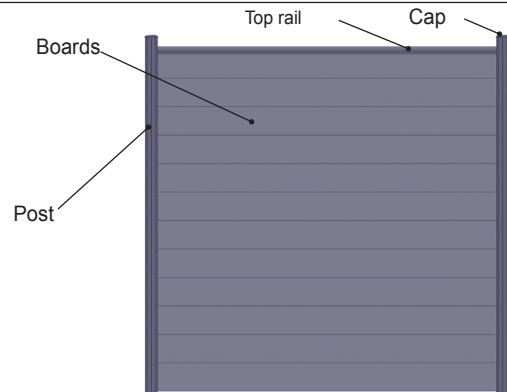
Aluminium fence boards are an alternative to composite wood boards and can be used to create:

- an all aluminium fence
- a fence with gaps between the boards
- a fence mixing aluminium and composite wood boards (with or without gaps)

D-1) THE ALL-ALUMINIUM FENCE

Unlike the wood composite fence, an all-aluminium fence does not need halfway support profiles between the boards, nor a base rail beneath the boards.

So it is just a matter of inserting and stacking the boards in the posts.

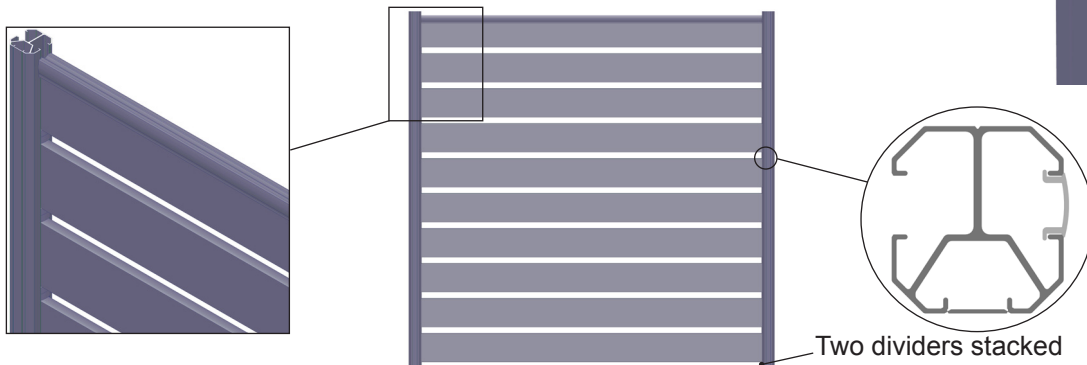
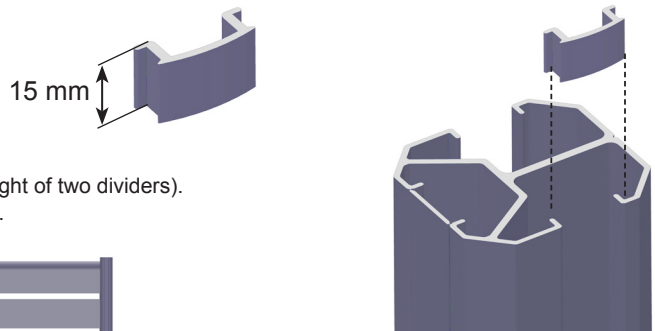


D-2) THE ALL-ALUMINIUM FENCE WITH GAPS

Gaps can be created in the aluminium fence using 15 mm dividers, sold separately.

Simply insert one or more dividers into the slots in the posts, between the aluminium boards.

Configuration example: height 1.8 m - boards with gaps of 30 mm (the height of two dividers). In this configuration the fence panel consists of 10 boards and 40 dividers.



N.B.: With this configuration, to achieve an equivalent height to a fence without gaps (1.8 m with embedded installation), a height adjustment of two stacked dividers - so 30 mm - is required, beneath the first board.

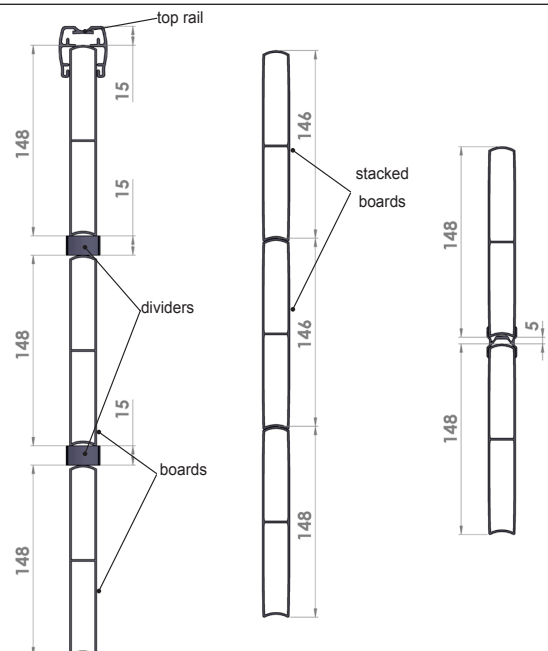
COMBINATION CALCULATIONS:

When calculating the number of boards and dividers needed for a fence with gaps, the stacked height of the boards, dividers and top rail needs to be considered.

- Board height (between dividers): 148 +/- 0.5 mm
- Board height (stacked on another board): 146 +/- 0.5 mm
- Divider height: 15 +/- 0.5 mm
- Top rail height: 15 +/- 0.5 mm

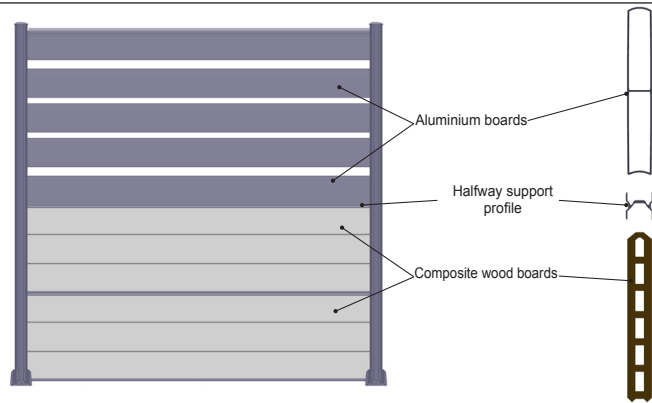
If halfway support profiles are being used in the panel:

- Halfway support profile height: 5 +/- 0.5 mm



D-3) THE COMPOSITE WOOD AND ALUMINIUM FENCE

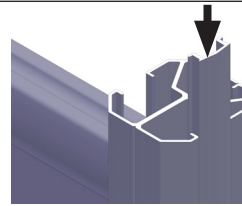
Aluminium boards and composite wood boards can be combined within a panel using halfway support profiles. This is a way to include gaps in a panel containing composite wood boards.



E) FENCE ENDS

Post finishing profiles can be **inserted** into the 2 posts (available in the 2 ranges - sanded and smooth) at each end of the fence.

Cut the post finishing profiles to the correct length, then insert them from the top of the post.

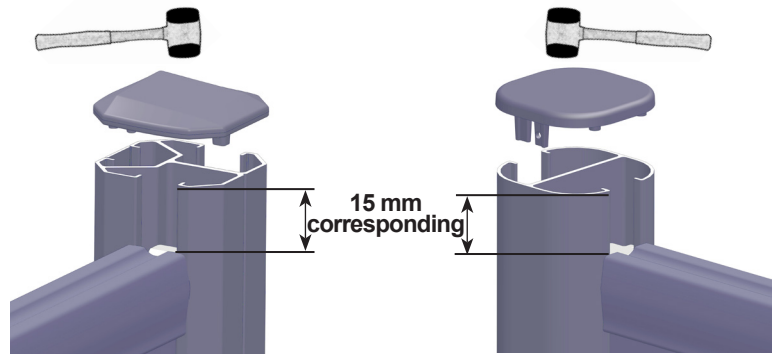


INSTALL the cap on the post.

Position by hand. If necessary, use a mallet (or a hammer with a wooden wedge) to finish application (we strongly advise against using any sharp tool which could damage the finish).

The cap can be fixed with a small amount of glue. Use a polyurethane glue suitable for the installation of powder-coated aluminium.

MAKE SURE you put the cover on the right way round. The cover's 2 "feet" must straddle the post's central rib. **It can only be secured by tightening in this position.**



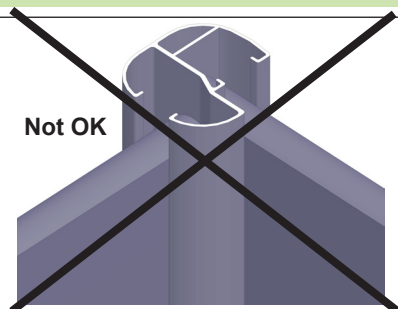
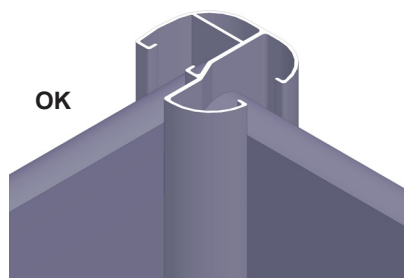
F) INSTALLING FENCE CORNERS

N.B.: SILVADEC® corner posts can only be used for two fences intersecting at 90°. For any angle other than a right-angle, two posts must be positioned together.

F-1) SMOOTH FINISH CORNER POST

CORNER POST ORIENTATION

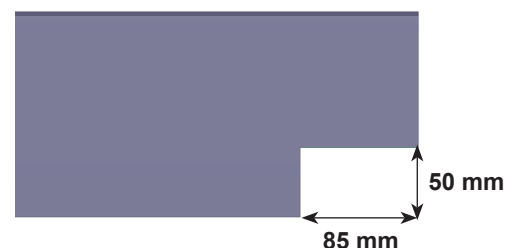
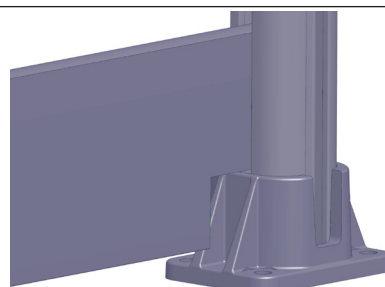
Whether installed on post supports or embedded in concrete, the corner post must be oriented as shown in the diagram alongside. If this configuration is not followed, fitting the cover will be problematic.



N.B.: when installing fences with corner posts, the posts **MUST** be braced to provide additional resistance to wind (above 90km/h).

IMPORTANT TECHNICAL FEATURE

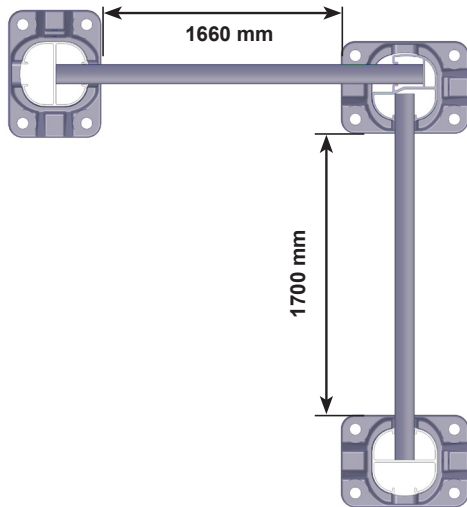
When installing a corner post using a single shell post support, it is **ESSENTIAL** to cut the first fence board as shown in the diagram alongside.



F-11) INSTALLATION WITH POST SUPPORTS

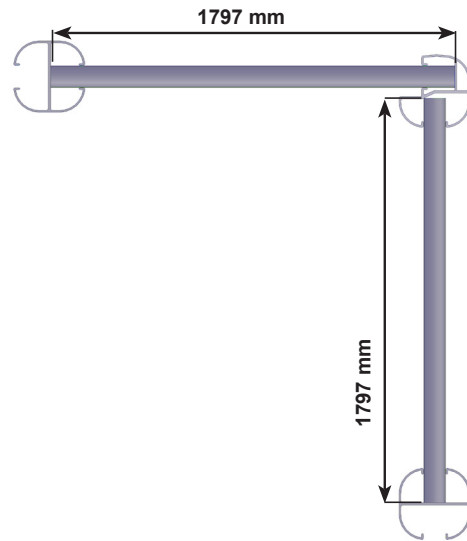
POSITION the post supports for a 90° angle, following the orientation shown below. You **MUST** observe the distances between post supports shown below.

N.B.: refer to the next paragraph if you are using double shell post supports.



F-12) INSTALLATION WITH CONCRETE FOOTINGS

The fence boards butt up against the inner surfaces of the posts. The distance between these surfaces must be 1797 mm.



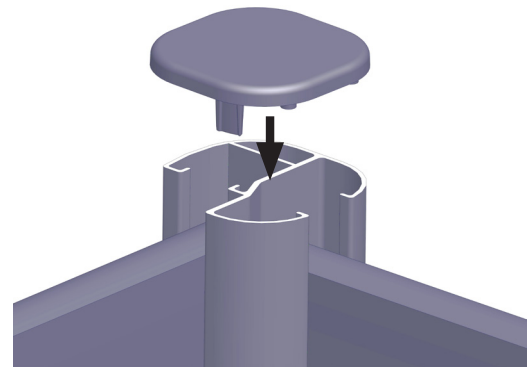
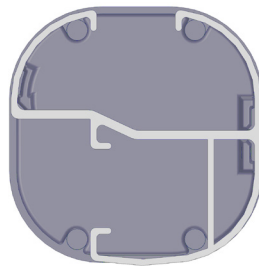
INSTALL the cap on the post.

MAKE SURE you put the cap on the right way round.

The cover's 2 "feet" must straddle the post's central rib.

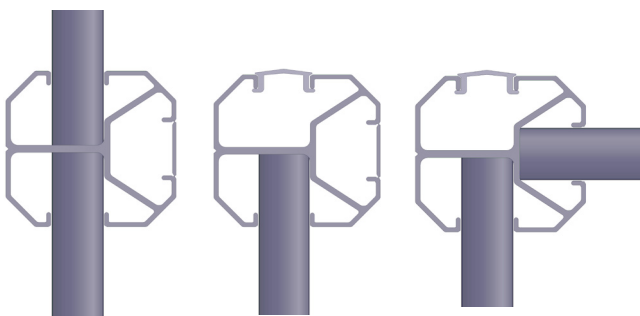
Only one position hides both feet.

If the cap does not fit, the corner post has been installed the wrong way round (see preceding page).



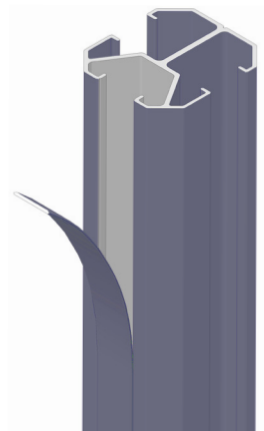
F-2) 3 IN 1 POST- SANDED RANGE

The sanded range post measures 64*70 mm. It has a removable strip, enabling it to be used in the three configurations below:



These strips are cut similarly to "easy-open cans". Use pliers to peel off the first 10 cm of the removable strip that is not required, then peel the rest of the strip by hand (**N.B.: gloves must be worn for this procedure**).

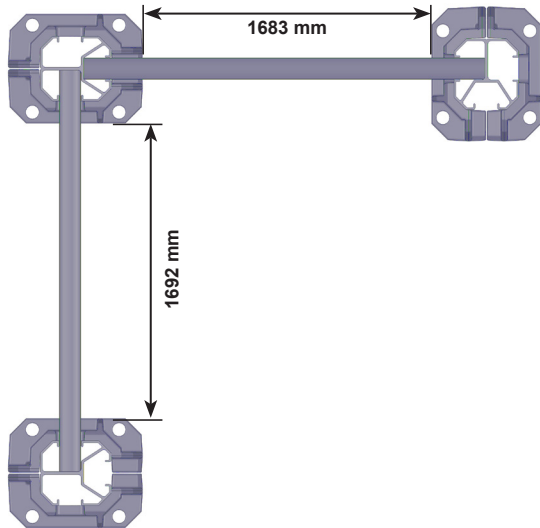
N.B.: corner posts **MUST** be braced to provide additional resistance to the wind (above 90 km/h).



F-21) INSTALLATION WITH POST SUPPORTS

POSITION the post supports for a 90° angle, following the orientation shown below.

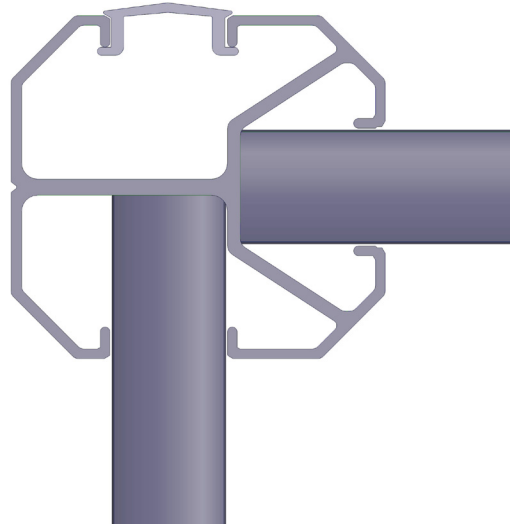
You **MUST** observe the distances between post supports shown below. The fence boards butt up against the central inner surfaces of the posts.



F-22) INSTALLATION WITH CONCRETE FOOTINGS

The fence boards butt up against the central inner surfaces of the posts.

A post with corner configuration (removable strip) is only used when two fences intersect at 90°.

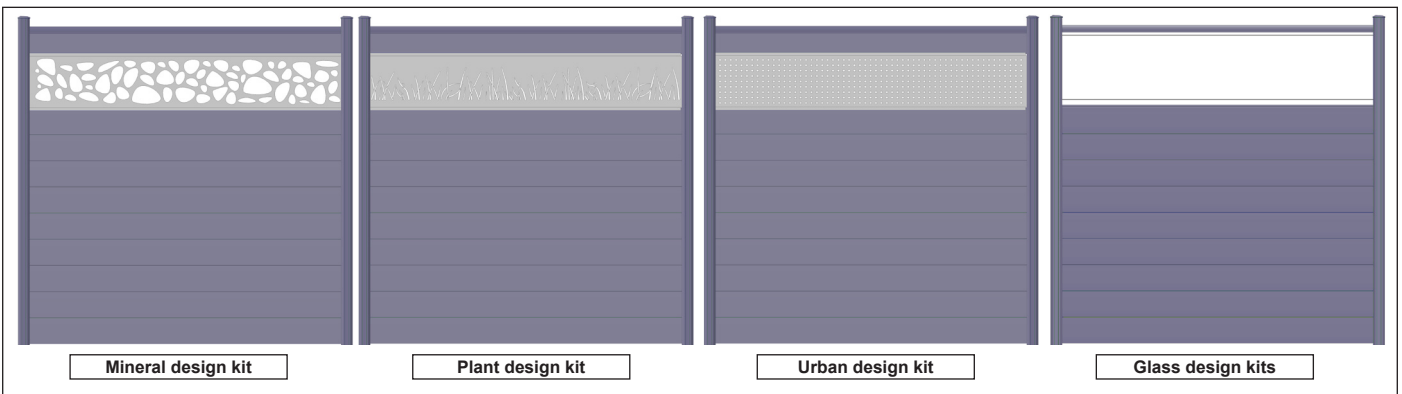


G) ACCESSORIES: DECORATIVE GLASS AND MINERAL, PLANT AND URBAN DESIGN KITS

Decorative insert options involve **REPLACING**:

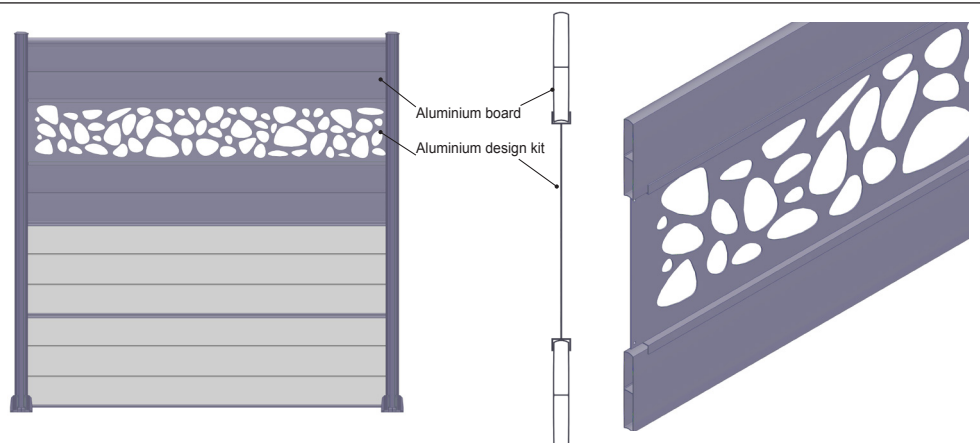
- 2 stacked fence boards with a Mineral, Plant or Urban design kit. These design kits can be located in the fence panel at any height and must be placed between two aluminium fence boards.
- 3 stacked fence boards with a Glass design kit (opal or transparent). These design kits can be located in the fence panel at any height and must be placed between two rails (half way support profiles, top rail).

You are strongly advised to wear gloves when handling these components.



G-1) INSTALLING THE MINERAL, PLANT AND URBAN DESIGN KITS

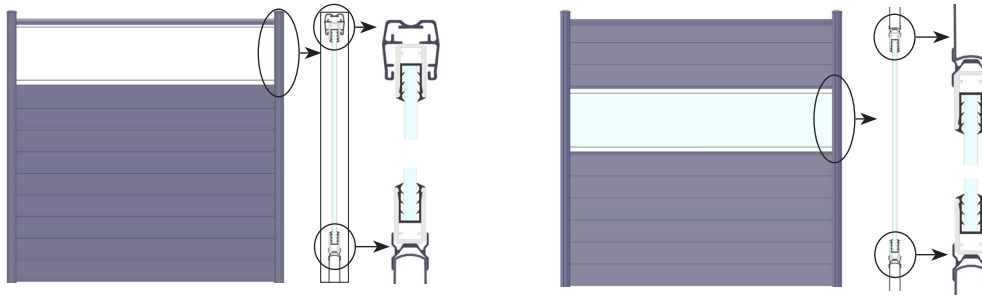
The decorative Mineral, Plant and Urban design kits simply slot onto Silvadec® fence boards and are compatible with both smooth and sanded finish ranges. The design kits can be located at any height in the fence panel, so long as there is at least one board above and below.



G-2) INSTALLING GLASS DESIGN KITS

These decorative design kits can be located at any height in the fence panel, so long as there is a rail above and below (so halfway support profile and top rail or two halfway support profiles). They slot into the halfway support profiles or the top rail and are compatible with both smooth and sanded finish ranges.

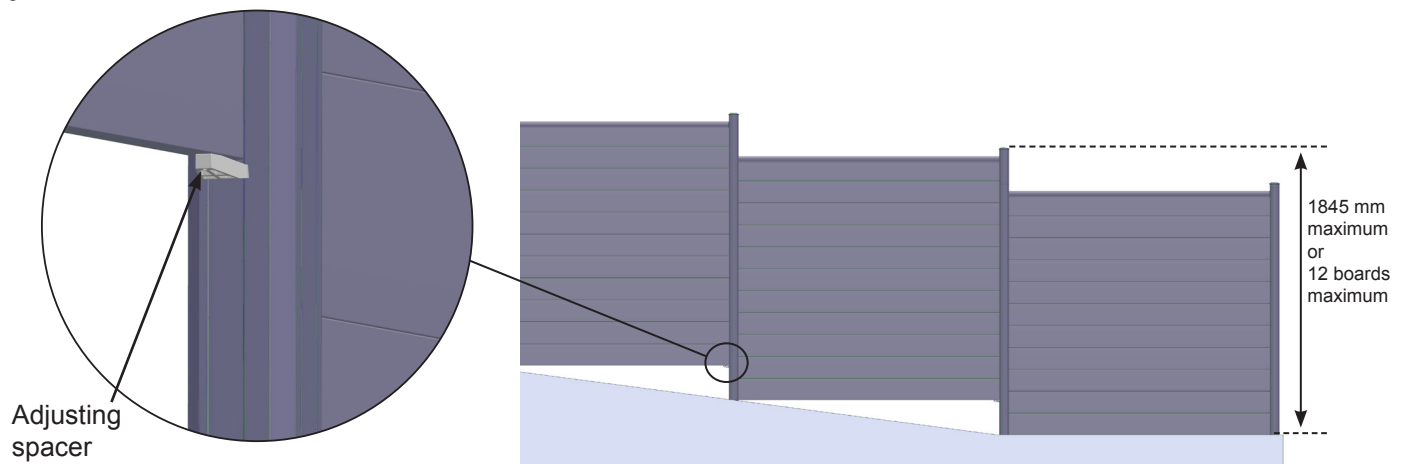
A Glass design kit replaces 3 aluminium Silvadec® fence boards.



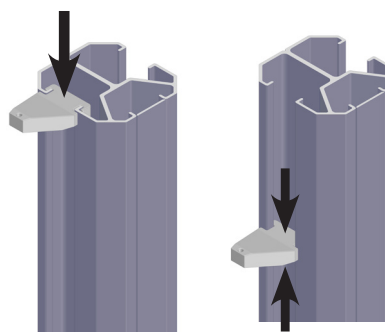
H) ACCESSORY: ADJUSTING SPACER

In order to level the boards, an **adjusting spacer** can be **INSTALLED BELOW** the bottom board of the fence panel.

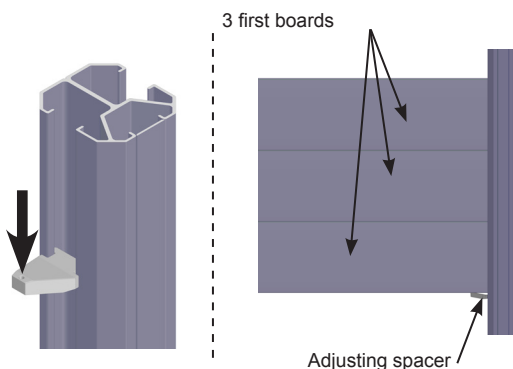
N.B.: Under no circumstances should the spacer be used to support more than 12 fence boards, and it must not be positioned more than 20 cm above ground level.



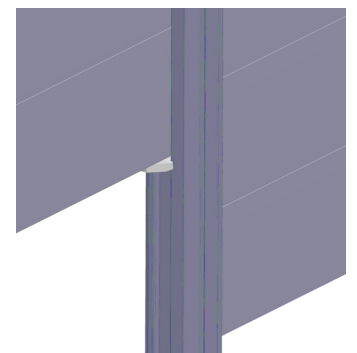
Step 1: INSERT the adjusting spacer into the slot in the post, then slide it down the post to the desired height by pressing on the flat surface inside the post (see diagram alongside). **ADJUST** the height of the spacer by using this same flat surface.



Step 2: To **HOLD** the spacer in position, press lightly on the end outside the post, then **STACK** the first three boards onto the adjusting spacer. **ADJUST** the level as necessary by moving the spacer up or down. **NOW LOCK** the spacer in position by pressing lightly on the board.



Step 3: **STACK** the rest of the boards as described previously in this document, following all instructions.



MAINTENANCE

In addition to the information provided below, please refer to our maintenance sheet delivered with the boards. It is available from our distributors and can be downloaded from our website www.silvadec.com. We can also simply send you one on request. This sheet must be passed on to the end user of the products.

BOARDS, POST SUPPORTS, POSTS, POST FINISHING PROFILES AND CAPS

- These five components are made of aluminium alloy, so do not rust. They can be cleaned with standard cleaning products. After washing, rinse thoroughly with clean, additive-free water. Never use products like petrol, acetone, alcohol, alkaline or acid products, sanding sponges, sandpaper or any abrasive in general.
- **STRONGLY** advise against applying any product containing acid and advise against use of any kind of solvent, which could affect the finish.
- The recommendation is to clean an all-aluminium fence at least twice a year, once in the spring, using soapy water (more effective if hot) and a sponge. N.B.: do use a broom or brush because some types may cause scratches.

DECORATIVE GLASS PLATES AND PERFORATED DESIGN KITS

- Glass plates can be cleaned with a soft cloth and a glass cleaner.
- We will not be held liable for any damage to a product that has not been kept in its original packaging.

STORAGE AND HANDLING

- We advise users to store fence components under cover and out of direct sunlight, in their original packaging.
- We will not be held liable for any damage to a product that has not been kept in its original packaging.
- **Silvadec**[®] fence boards must be stacked on a dry, flat surface, in a well ventilated place, so as not to suffer any distortion.

RECYCLING AND END OF LIFE

Fence components are made of aluminium alloy and can be recycled in the usual way at recycling centres.

Consult your local council on current legislation governing the installation of fencing. Silvadec[®] products are not conventional products. Please notify your insurance company. Sample colours provided are not contractually binding. The products used for powder-coating SILVADEC aluminium fence components are QUALICOAT certified.