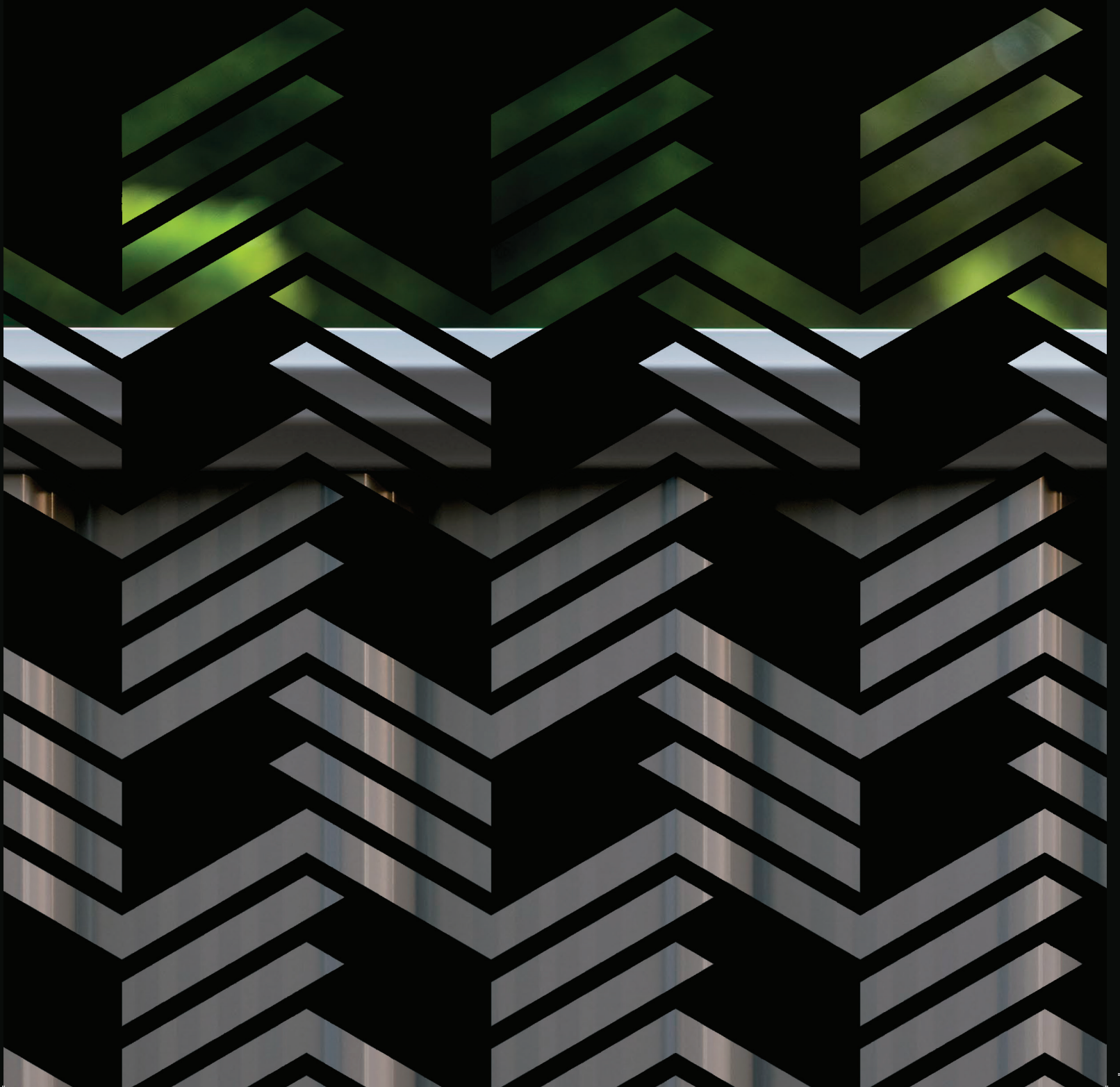




ColourFence

Installation instructions



Read this before you start

Are you a homeowner looking to install your own ColourFence steel fence or an installer looking to find information to help you install a ColourFence steel fence? This ColourFence steel Fencing Installation guide has been designed to provide you with the basic steps in installing your fence. As every site is different, we also recommend speaking with your ColourFence steel supplier or calling Urban Group on 0800 80 3326 for installation information specific to your site.

- ✓ This installation guide does not cover fences taller than 1.8 metres. Please seek advice from your supplier.
- ✓ Describe your site details when ordering materials (see 'Site details' section below).
- ✓ Identify the soil type for your fence site. Refer to the Table in Step 1. This will determine the concrete required for the job.
- ✓ Make sure you know the whereabouts of underground electricity, gas or water mains before you begin digging.
- ✓ Check your local council regulations on boundary fencing.
- ✓ Ensure you read through this guide completely before you begin to ensure you fully understand the installation process.
- ✓ Check the delivered material for the correct number of components and general condition.
- ✓ Not all coloured steel fencing is made from ColourFence steel so make sure you get what you pay for.

IMPORTANT!

It is recommended that the reader pays particular attention to those items identified as IMPORTANT in this brochure to ensure satisfactory long-term performance.

SITE DETAILS

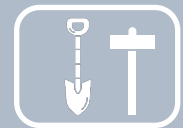
Fencing made from ColourFence steel is the result of decades of performance monitoring under diverse environmental conditions.

This testing occurs at exposure sites across various regions. You can be confident that fencing made from ColourFence steel is engineered for durability in local conditions.

However, there are crucial site details to consider in your fence design. These include:

- Potential wind effects on your fence (determined by your specific wind region, neighboring developments, and vegetation)
- Soil type
- The slope of the site

EQUIPMENT REQUIREMENTS



TOOLS*

- Self-Drilling Screw Gun with Clutch System
- Spirit Level or Magnetic Level
- Rubber Mallet
- String Line and Marker Pegs
- Scissor Shovel and/ or Spade
- Wheelbarrow and Larry Hoe
- Spud Bar
- Earth Leakage Circuit Breaker.

PERSONAL PROTECTIVE EQUIPMENT*

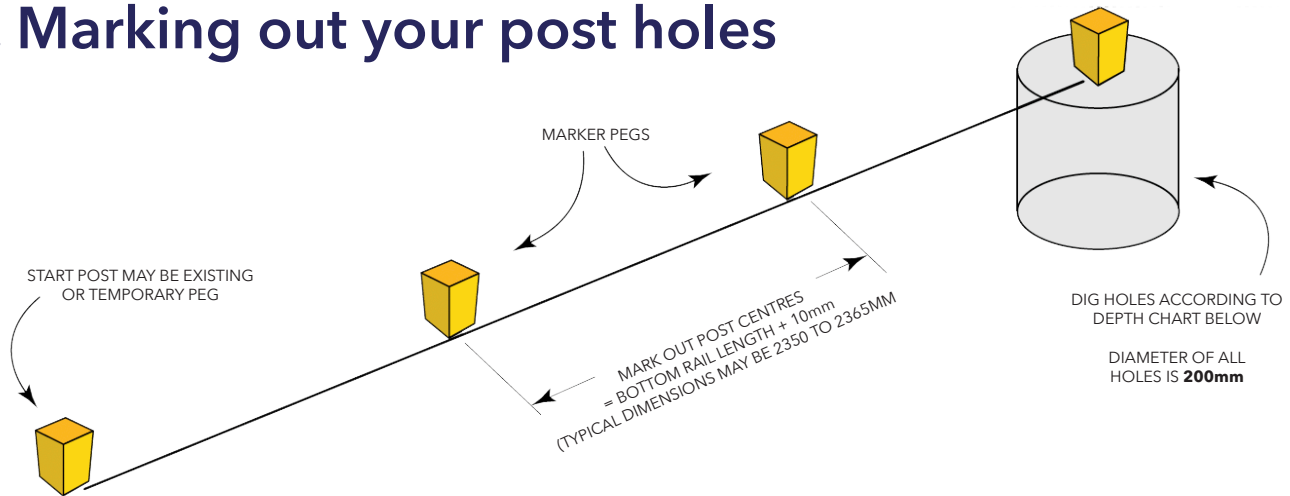
- Safety Glasses
- Protective Gloves
- Hat & Sun Lotion
- Safety Footwear
- Ear Muffs (if cutting required)
- Overalls (if cutting required).

OPTIONAL EQUIPMENT*

- Nibbler (if cutting required)
- Tin Snips (if cutting required)
- Concrete Mixer
- Post Hole Digger.

* Most pieces of equipment are available for hire at tool hire centres.

1. Marking out your post holes



IMPORTANT!
Post lengths required will increase accordingly to cater for these ground conditions.

SOIL TYPE	MINIMUM SOIL DEPTH	APPROXIMATE CONCRETE REQUIRED RECOMMENDED 20MPa Standard Concrete Mix
Rock	400mm	1 bag per hole (20kg bag)
Clay/Firm Earth	600mm	2 bags per hole (20kg bag)
Sand/Loose Fill	900mm	3 bags per hole (20kg bag)

IMPORTANT!
Post hole sizes are suitable for Wind Regions A and B and all Terrain Categories except Cat 1 (very exposed open terrain).

Seek manufacturer's guidance for other wind regions or Cat 1 Terrain.

SLOPING OR UNEVEN SITES

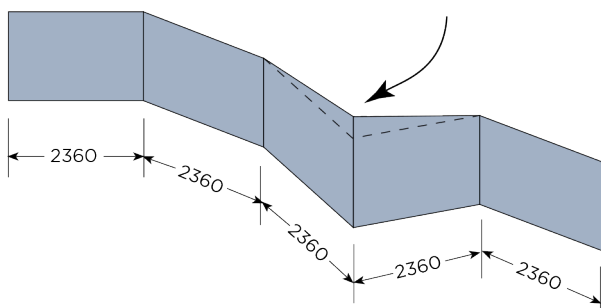
Additional information

It's highly recommended that you invest a small amount of extra effort to rake your fence on sloping or uneven ground rather than stepping the panels. It achieves a better overall appearance as well as providing a stronger fence.

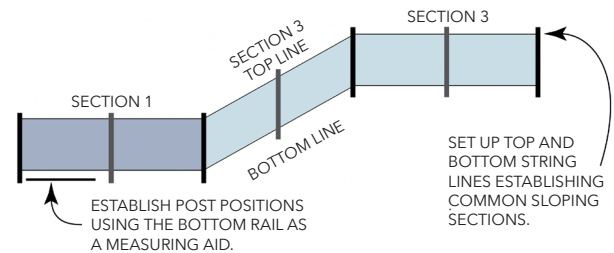
Uneven sites

Vertical slitting of sheets may be required if slope is greater than 1 in 8. This may reduce the three sheet coverage to a point where one of the sheets may require vertical slitting. On ColourFence steel this can be achieved using a straight edge and scoring with a tungsten tipped hand cutter available at most hardware stores, then bending and snapping the sheet.

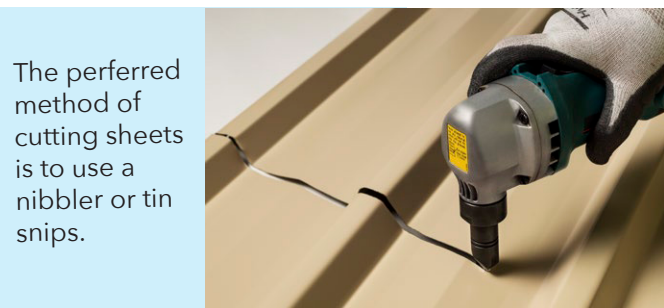
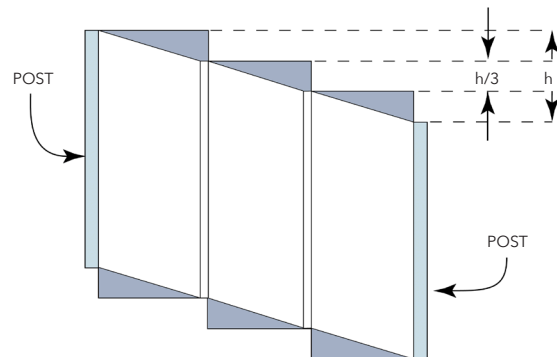
The top rail angles can be adjusted to create a smoother angle if desired. Note that the post height required will increase, so allow for this when fixing the posts in the ground.



A. MARKING OUT SLOPING SITES



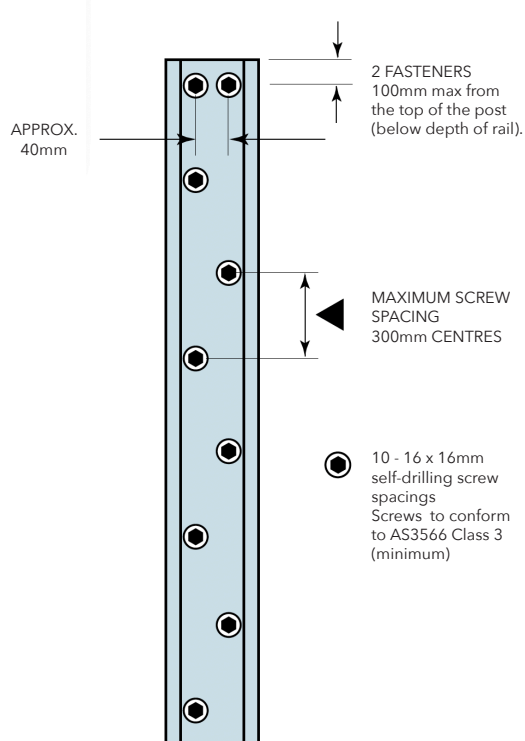
B. CUTTING OF SHEETS FOR A RAKED FENCE



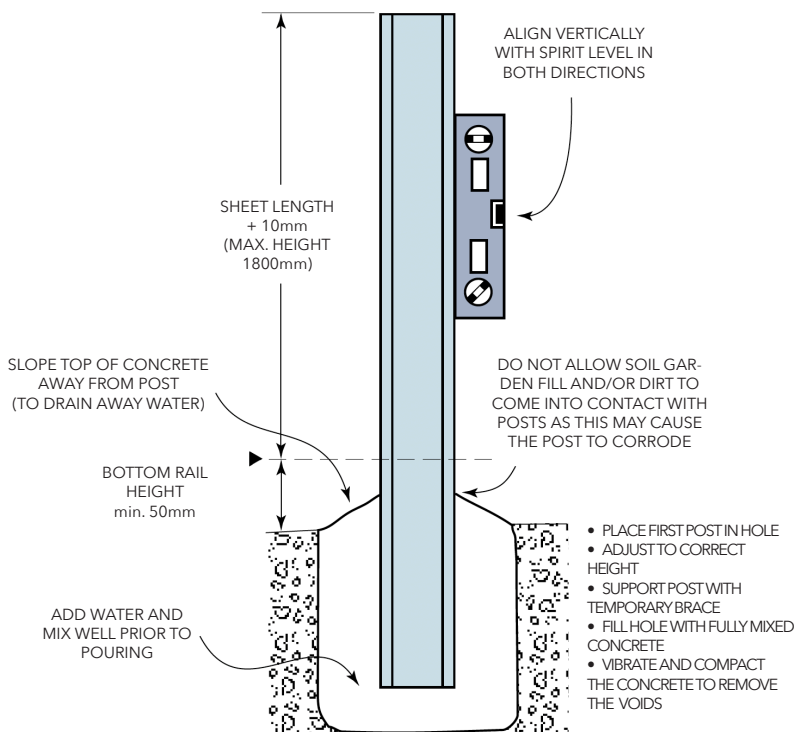
The preferred method of cutting sheets is to use a nibbler or tin snips.

2. Securing posts

A. FASTENING POSTS TOGETHER



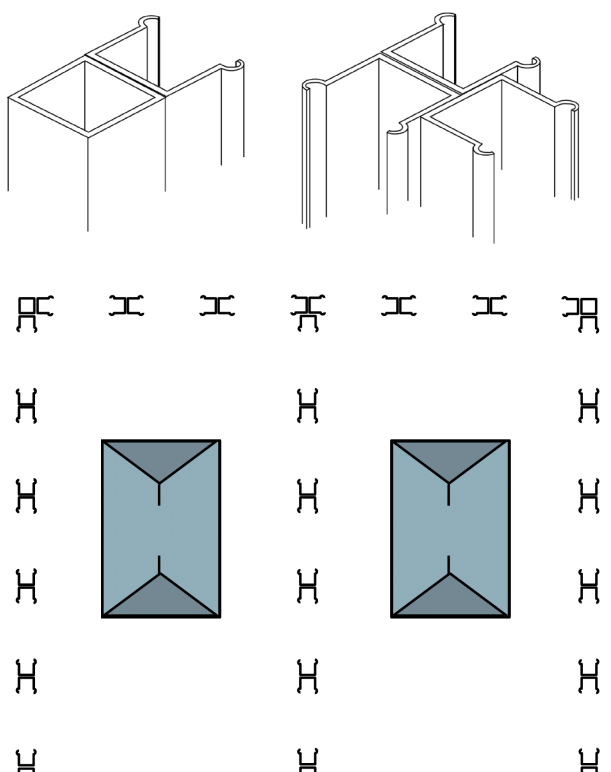
B. FIXING POST IN GROUND



END POSTS, CORNER POSTS AND JUNCTIONS

- = Square Hollow Section (SHS)
- = Fence Post

Dimensions of the SHS and fence posts will vary according to the fence supplier. Contact your distributor for details.

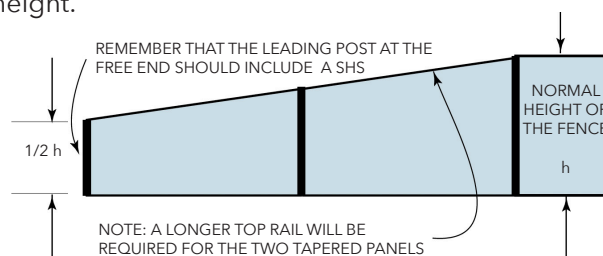


TAPERING THE FRONT OF YOUR FENCE

It is highly recommended that you taper the last two panels of your fence at an unsupported end, particularly where your fence extends beyond the front of your house.

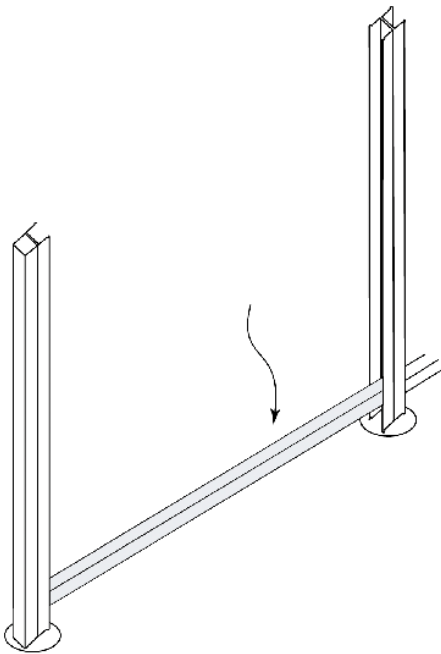
Cut sheets as per the instructions in the 'sloping or uneven sites' section.

The minimal extra effort in tapering the unsupported end will provide a better looking fence than a stepped fence and is much stronger than leaving it at full height.

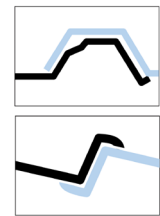
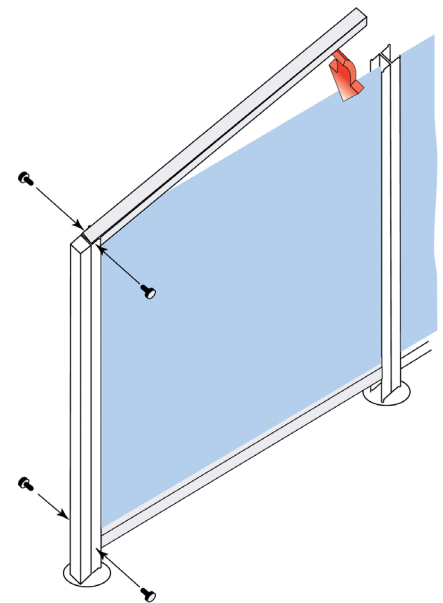


FENCE HEIGHT	TAPERED END HEIGHT	TOP RAIL LENGTH IF TAPERED PER TWO PANELS
1500mm	750mm	2385mm
1800mm	900mm	2400mm

3. Installing infill sheets



- Place top rail into post and fix with self drilling screws on both sides of posts. Ensure that the self-drilling screws are not fully tightened, as they need to be removed when inserting sheets. Ensure the position of the top rail is protruding 2mm above the top of the posts to reduce the risk of injury.
- Continue this procedure until fence length is achieved.
- Allow the concrete to cure overnight. Note: Longer curing period may be required in very cold and/or wet weather.
- Unscrew top rail and remove.
- Fit infill sheets into bottom rail ensuring correct lap as per diagrams (right).
- Place top rail on infill sheets working from locating the profile in the rail. A gentle tap with a rubber mallet may help. one end to the other,
- Secure the top rail with self-drilling screws on both sides.
- Hose down when finished to remove any swarf such as drill filings or remnants from the nibbling process.
- Check installation.



EXAMPLE OF CORRECT LAP
DETAIL FOR INFILL SHEET
PROFILES

- Insert bottom rail between posts to determine exact location of next post.
- Adjust bottom rail to correct height - it is important to maintain a minimum gap of 50mm between bottom of rail and ground.
- Screw fix the rails at this stage.



MAINTENANCE AND WARRANTY OF YOUR FENCE

To keep your fence looking its best, simply wash down periodically with water when cleaning the car or watering the garden. A soft broom should be sufficient to remove any cobwebs. Pay particular attention to the area under the top rail, which is sheltered from natural washing by rain.

DO NOT build up soil, garden fill and/ or dirt against the bottom rails and posts of your fence as this will retain water and lead to corrosion.

DO NOT use your fence as a retaining wall, as it is not designed for this purpose.

Avoid spraying the fence with garden sprays or fertilisers as these can damage the surface. If this occurs wash the fence down with water.

Adequate drainage is needed to ensure that water does not pond in the bottom rail and to assist in the removal of debris. This is

often achieved by pre-punched holes in the bottom rail, or by designing the posts such that there is a clearance between the ends of the bottom rail and the posts.

DO NOT use touch up paint. Minor scratches should be left alone or the infill sheet replaced. Touch up paint will weather differently than COLORBOND® steel.

Fencing is backed by a warranty of up to 10 years from BlueScope1. Warranty is subject to application and eligibility criteria which includes but is not limited to:

- Installation > 1km from Marine or Industrial (source of Industrial particulate fallout) environment. To find out more visit article 17
- Choosing the right grade of COLORBOND® steel at steel.com.au/articles
- Fence is installed to manufacturer's guidelines
- Fence is maintained regularly. For maintenance of COLORBOND® steel see Technical Bulletin 4





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