

## Recycled Plastic Knee Rail

Note: there are two common installation methods for knee rail:

- 1) End-on-end installation (where each bay starts and stops separately, a common solution for concave and convex angles)
- 2) Continuous run installation (where the horizontal rail runs continuously and each rail end meets inside the strap)

### Installation

#### Step one:

Before you start, double check that you have all the necessary tools and equipment for the job.

- ⊗ Saw
- ⊗ Level
- ⊗ Tape Measure
- ⊗ Hammer
- ⊗ String
- ⊗ Personal Protection Equipment
- ⊗ Timber post and rail products
- ⊗ Post Mix

Gather all these items together, so you have everything in place ready for you to start installation.

#### Step two:

Run a level string line to demarcate the level and route of the knee rail to be installed, then mark the hole locations to be dug based on 1.0m post centres.

Next dig the foundation holes for the birdsmouth posts at the recommended depth of 500mm.

#### Step three:

Using Post Mix, follow the mixing instructions on the bag, ensuring one bag is used per hole.

Set the birdsmouth posts ensuring they remain plumb throughout the initial 30 minute curing process.

#### Step four:

When two birdsmouth posts are in place, place the rail into the V notch diagonally. If any rail overhangs more than the centre of the next set post, cut down the rail to suit.

Fix the top rail to the birdsmouth post with galvanised straps and secure with your choice of fixings (twin flight, parallel thread, coarse pitch screws). Allow 10mm expansion between rails.

## Recycled Plastic Post and Rail

### Installation

#### Step one:

Before you start, double check that you have all the necessary tools and equipment for the job.

- ⊗ Saw
- ⊗ Level
- ⊗ Tape Measure
- ⊗ Hammer
- ⊗ String
- ⊗ Personal Protection Equipment
- ⊗ Timber post and rail products
- ⊗ Post Mix

Gather all these items together, so you have everything in place ready for you to start installation.

#### Step two:

Assess the site, ensure the correct excavation tools are obtained depending on site layout and ground conditions.

#### Step three:

Lay out the fence line with string, ensuring you set your first post at the start of the run to support the string line. Please read step four for installation of the post.

#### Step four:

Dig the foundation holes 500mm deep by 350x450mm wide for each post. The length of the posts are 1.7m for the 1.2m system and 2.0m for the 1.5m system.

Ensure the holes are spaced are 1.0m centres, and installed with one to two bags of post mix per post, following the mixing and curing instructions on the post mix bag. Use a level gauge to ensure the posts are plumb.

#### Step five:

Install the top rail 100mm below the top of the post, and then space out your additional rails equally below. Please note, rails can be installed at any heights to support additional agricultural wire or similar. Allow for 10mm expansion gaps between the rails. Drill elongated holes for the fixings to allow for contraction and expansion.

#### Step Six:

Once the posts are securely in place, attach the rails to posts. For strength, stagger the rail pattern so the joints alternate on the parallel rails. We suggest using M10 x 160mm galvanised bolts for fixing, with 16mm pilot holes.

#### Nice to know: Corners

The most common method of installing a corner is to use the end of the run post as the start of the new angle, by nailing into the adjacent face. Please note, that one or more rails should be cut down in length to start the stagger effect for the next run for additional strength.

## Recycled Plastic Picket Pale

### Installation

#### Step one:

Before you start, double check that you have all the necessary tools and equipment for the job.

- ⊗ Saw
- ⊗ Level
- ⊗ Tape Measure
- ⊗ Hammer
- ⊗ String
- ⊗ Personal Protection Equipment
- ⊗ Timber post and rail products
- ⊗ Post Mix

Gather all these items together, so you have everything in place ready for you to start installation.

#### Step two:

Assess the site, ensure the correct excavation tools are obtained depending on site layout and ground conditions

#### Step three:

Lay out the fence line with string, ensuring you set your first post at the start of the run to support the string line. Please read step four for installation of the post.

#### Step four:

Dig the foundation holes 500mm deep by 350x450mm wide for each post, to suit a 1.7m post for a 1.2m height system.

Ensure the holes are spaced are 1.5m centres, and installed with one to two bags of post mix per post, following the mixing and curing instructions on the post mix bag. Use a level gauge to ensure the posts are plumb.

#### Step five:

Install the top rails staggered from the adjacent rail to the posts, using twin flight, parallel thread, coarse pitch screws, or hi-low screws, (6 per rail), with 16mm pilot holes. Allow for 10mm expansion gaps between the rails. Drill elongated holes for the fixings to allow for contraction and expansion.

#### Step Six:

Equally space your pales (typically 20 per 3.1m section, 18 standard and 2 centre pales, based on 50mm gaps) and secure with fixings as suggested above. Leave a 100mm gap between the ground and bottom of the pales.

#### Nice to know: Corners

The most common method of installing a corner is to use the end of the run post as the start of the new angle, by nailing into the adjacent face. Please note, that one or more rails should be cut down in length to start the stagger effect for the next run for additional strength.

## Recycled Plastic Closed Board Fencing

### Installation

#### Step one:

Before you start, double check that you have all the necessary tools and equipment for the job.

- ⊙ Saw
- ⊙ Level
- ⊙ Tape Measure
- ⊙ Hammer
- ⊙ String
- ⊙ Personal Protection Equipment
- ⊙ Timber post and rail products
- ⊙ Post Mix

Gather all these items together, so you have everything in place ready for you to start installation.

#### Step two:

Assess the site, ensure the correct excavation tools are obtained depending on site layout and ground conditions

#### Step three:

Lay out the fence line with string, ensuring you set your first post at the start of the run to support the string line. Please read step four for installation of the post.

#### Step four:

Dig the foundation holes 500mm deep by 350x450mm wide for each post. A 1.7m post will suit a 1.2m system, the 2.0m will suit a 1.5m height system, and the 2.7m post will suit the 1.8m system.

Ensure the holes are spaced are 1.5m centres, and installed with one to two bags of post mix per post, following the mixing and curing instructions on the post mix bag. Use a level gauge to ensure the posts are plumb.

#### Step five:

Install the top rails staggered from the adjacent rail to the posts, using twin flight, parallel thread, coarse pitch screws, or hi-low screws, with 16mm pilot holes. Allow for 10mm expansion gaps between the rails. Drill elongated holes for the fixings to allow for contraction and expansion.

#### Step Six:

Secure pales side by side against the rails, secured using fixings as above at each intersection.

#### Nice to know: Corners

The most common method of installing a corner is to use the end of the run post as the start of the new angle, by nailing into the adjacent face. Please note, that one or more rails should be cut down in length to start the stagger effect for the next run for additional strength.

## Recycled Plastic Mortised Post and Rail

### Installation

#### Step one:

Before you start, double check that you have all the necessary tools and equipment for the job.

- ⊙ Saw
- ⊙ Level
- ⊙ Tape Measure
- ⊙ Hammer
- ⊙ String
- ⊙ Personal Protection Equipment
- ⊙ Timber post and rail products
- ⊙ Post Mix

Gather all these items together, so you have everything in place ready for you to start installation.

#### Step two:

Assess the site, ensure the correct excavation tools are obtained depending on site layout and ground conditions

#### Step three:

Lay out the fence line with string, ensuring you set your first post at the start of the run to support the string line. Please read step four for installation of the post.

#### Step four:

Dig the foundation holes 500mm deep by 350x450mm wide for each post. The length of the posts are 1.7m for a 1.2m height system and 2.0m for a 1.5m system.

Ensure the holes are spaced are 1.0m centres, and installed with one to two bags of post mix per post, following the mixing and curing instructions on the post mix bag. Use a level gauge to ensure the posts are plumb.

#### Step five:

Once the posts are securely in place, attach the rails to posts through the mortised slots.

#### Nice to know: Corners

The most common method of installing a corner is to end and start a new run with a new post, as the posts are mortised.