FirstFence®
HIRE & SALES

Timber Knee Rail Fencing

Specification Sheet

SPC-KNEE-002A



Call our Expert Sales Team for more information.

First Fence Ltd | Kiln Way, Woodville, South Derbyshire, DE11 8EA
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Timber Knee Rail Fencing, Unobtrusive Boundary Solutions

Our Timber Knee Rail Fencing provides a low-level barrier for car parks, pathways, public spaces, and landscaped areas, maintaining clear sightlines while guiding pedestrian and vehicle movement. Made from pressure-treated timber to resist rot, decay, and weathering, it offers a durable, cost-effective solution with a natural appearance. Traditional birdsmouth joints and nails secure the rails, with optional galvanised steel post straps available in Bishop's Hat, V-style, or Shoe-style designs for added strength and longevity.

Easy to install and customise, the system includes 1.8m and 3.6m rails in 75mm x 75mm or 100mm x 100mm sections, with matching 100mm x 100mm posts available in 0.9m and 1.2m heights.

Key Features

- Durable Treated Timber
  (Provides long-lasting resistance against rot, decay and harsh weather)
- Birdsmouth Joint Construction
  (A traditional notched joint where the rail sits securely into the post)
- Unobtrusive Demarcation
  (Designed to sit at knee height, effectively defining boundaries)
- Customisable Components
  (1.8m or 3.6m rails and 0.9m or 1.2m post heights)
- Low Maintenance
  (Requires minimal ongoing upkeep, periodic inspection & stain touch-ups)

Suitable For

- Farms & Agricultural Land
- Equestrian Centres & Paddocks
- Rural Property Boundaries
- Country Estates
- Residential Gardens



Not sure what products you need? Use our handy calculator!

CLICK HERE

Images for illustration purposes only

Technical Specifications

PRODUCT	HEIGHT/LENGTH	WIDTH	MATERIAL	DIG IN DEPTH
Knee Rail Fencing Top Rail	1.8m	75mm x 75mm	Timber (Tanalised UC4)	
Knee Rail Fencing Top Rail	3.6m	75mm x 75mm	Timber (Tanalised UC4)	
Knee Rail Fencing Top Rail	1.8m	100mm x 100mm	Timber (Tanalised UC4)	
Knee Rail Fencing Top Rail	3.6m	100mm x 100mm	Timber (Tanalised UC4)	
0.9m High Birdsmouth Post	900mm (Total) 450mm (Installed)	100mm x 100mm	Timber (Tanalised UC4)	450mm
1.2m High Birdsmouth Post	1200mm (Total) 600mm (Installed)	100mm x 100mm	Timber (Tanalised UC4)	600mm

TIMBER SPECIES
Norway Spruce (Picea Abies) or Sitka Spruce, felled predominantly in N. Wales

FINISH
Rough sawn with a textured surface and an open grain

TREATMENT
Tanalised green UC4 for in-ground use

SOURCE
Supplied by a reputable UK timber mill (FSC certificate available upon request)

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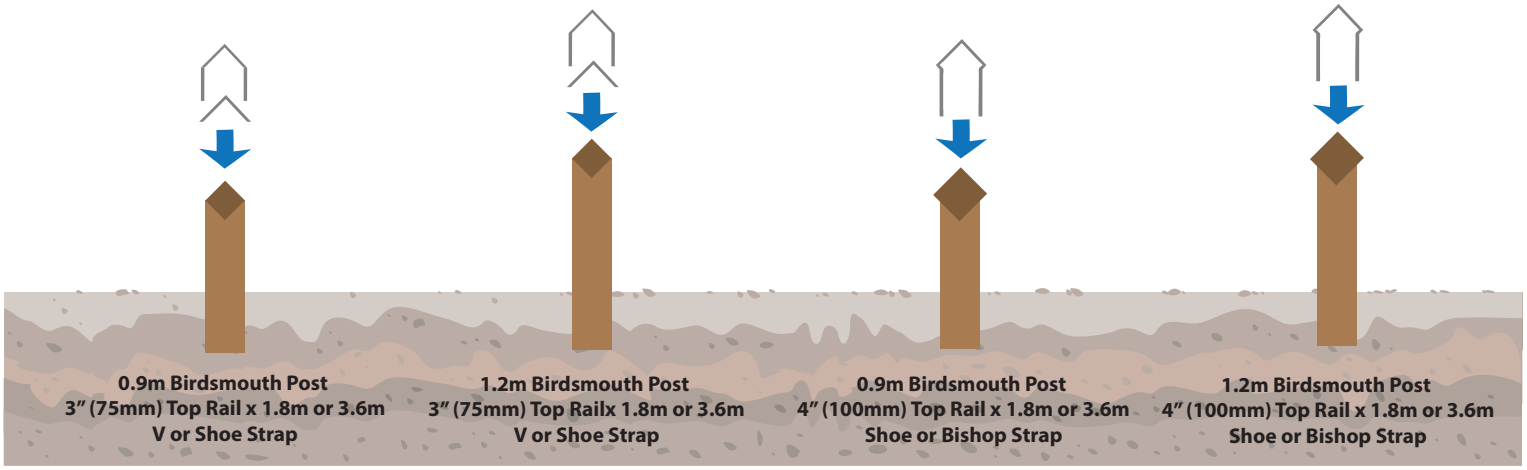
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Knee Rail Fencing is a low security method of boundary demarcation and is comprised of Birds-Mouth posts, top rails and galvanised straps. Once you have determined the full length of the fencing run, follow the steps below:

Step One - Choose your post height - 0.9m or 1.2m
Step Two - Choose your top rail width - 3" (75mm) or 4 "(100mm)
Step Three - Choose your straps - If you choose the 3" top rail you can use the V or Shoe Straps. If you choose the 4" top rail you will need to use the Bishop's Hat Straps, this is because the larger width rail will create an overhang on the post.





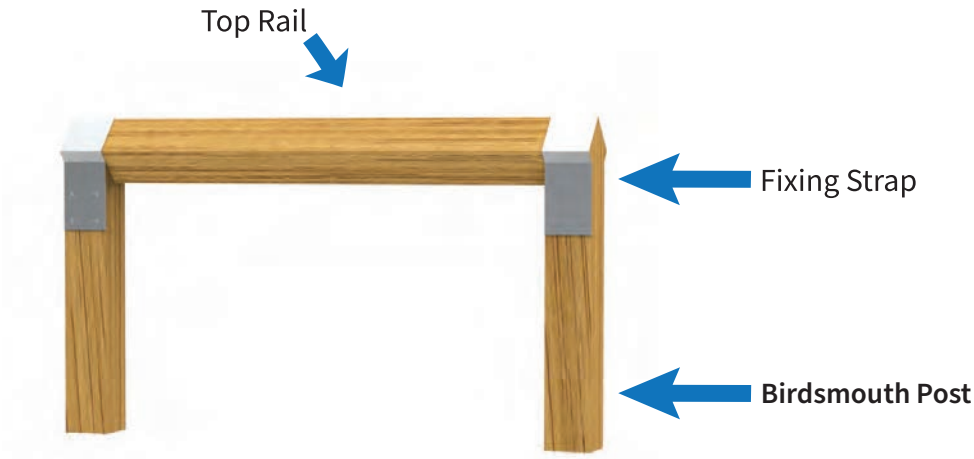
V Shaped Strap



Shoe Strap



Bishop's Hat Strap



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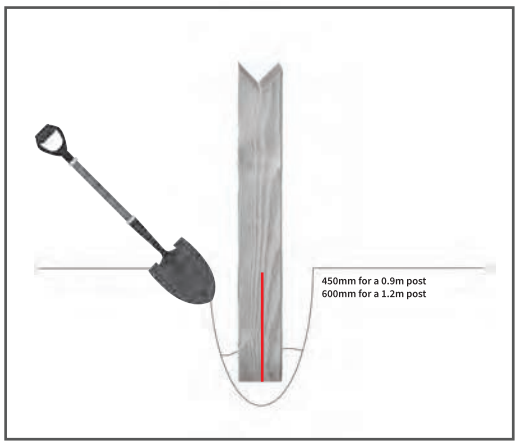
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Knee Rail Fencing

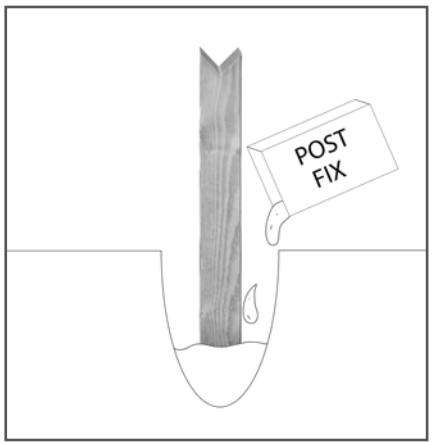
Follow our installation guide to erect your Knee Rail



Step 1

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 1.8m post centres.

Dig the foundation holes for the birdsmouth posts. It is recommended that half the depth of the post is dug into the ground.



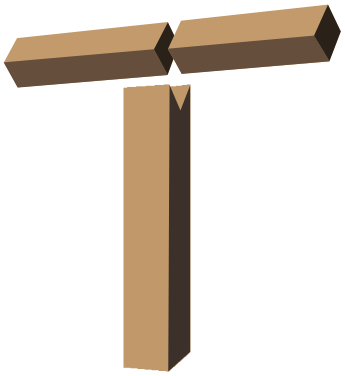
Step 2

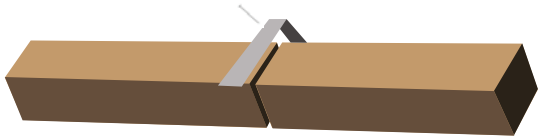
Using Post Mix, follow the mixing instructions on the bag, ensuring 2 bags are used per hole. Set the birdsmouth posts ensuring they remain plumb throughout the initial 30 minute setting process.

Step 2

When two birdsmouth posts are in place, you can lay the top rail onto the V notch, you will need to turn the top rail at an angle to match the V notch.

Fix the top rail to the birdsmouth post with galvanised straps and nails. Allow 10mm expansion between rails.





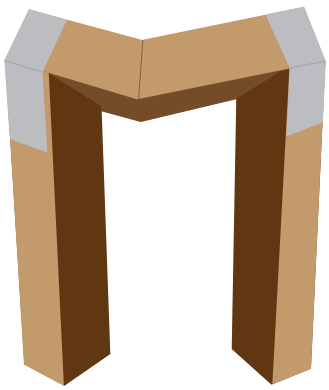
Step 3

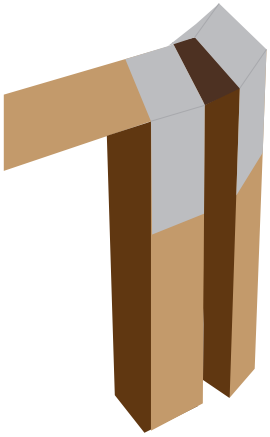
The 75mm top rail will use either the V style or Shoe style fixing strap. The 100mm top rail will need the Bishop's Hat style. The straps have pre-drilled holes for the nails to be hammered through.

The V style will need 8 nails per strap and the Shoe and Bishop's Hat will need 12.

Understanding Corners

Timber knee rail is ideal for creating straight run installations and with precision cutting of the posts and rails it can also be employed for constructing curved runs. Another option involves installing two posts side by side, with their birdsmouth V cuts positioned at suitable angles to provide support for the rails.





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