



# How to measure for your ladder



### What is the rail height?

The rail height describes the height at which the rail is mounted. **This measurement is taken vertically, straight up from the floor to the centre of where you want to mount your ladder rail.** This is the most important measurement you need to determine which ladder is right for you.

### What is the ladder length?

The ladder length describes the length of the side of the ladder. Often when we refer to 'Standard Ladders' these are described using the ladder length. For example, an 8ft ladder, refers to the length of the side of the ladder. Whereas the rail height for an 8ft ladder is 2311mm.

### Clearances

The ladder will protrude above the rail when the ladder is in the climbing position. If you have upper cabinet doors that you want to open above the top of the ladder then you will want to make sure you have allowed enough clearance (8cm).

## Standard Ladders

The standard ladder range offers ladders that are in stock and ready to send out but these have standard heights that you will need to adhere to. Please use the below chart to determine if you can use a standard ladder based on the required rail height.

Standard Stocked Ladder (refers to the side length)	Rail height	Available in
7ft	2007mm (79 inch)	Red Oak & Walnut
8ft	2311mm (91 inch)	Red Oak & Walnut
9ft	2616mm (103 inch)	Red Oak & Walnut
10ft	2921mm (115 inch)	Red Oak & Walnut

\* On a standard ladder the rail height requirement allows for a tolerance of +/- 25mm above and below the rail. For example, if your rail height is 2300mm, an 8ft ladder will work for your rail height because this sits within the 25mm tolerance.

## Made to measure Ladders

If you have a set rail height that won't work with any of the standard ladders you can order a 'made to measure' ladder. This means that we will manufacture a ladder to your specific height requirement. You simply need to let us know the 'rail height'.

Made to measure size bracket	Rail height	Available in
3ft – 5ft	Between 787mm – 1397mm	European Oak & Walnut
5ft – 8ft	Between 1398mm – 2311mm	European Oak & Walnut
9ft – 11ft	Between 2312mm – 3226mm	European Oak & Walnut
12ft-14ft	Between 3227mm – 4140mm	European Oak only

\* The lead-time for made to measure ladders approximately 6-8 weeks.



## How does the ladder arrive?

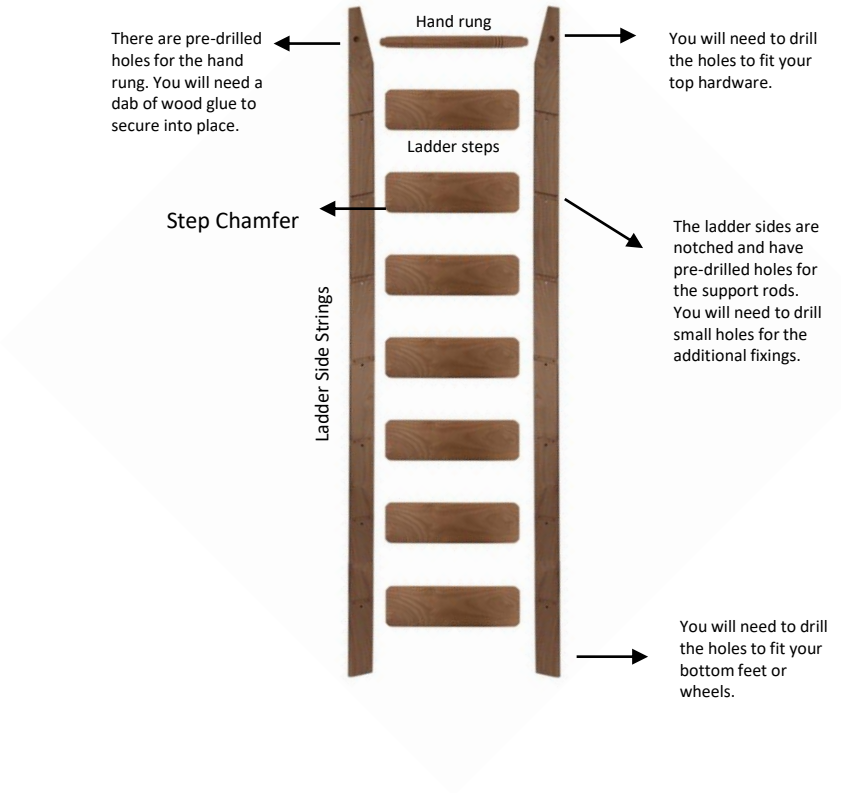
Your ladder will arrive unassembled and unfinished ready for you to paint or stain to your desired colour or finish. The delivery will include the side strings of the ladder which will be predrilled and notched along with a set of steps and a turned hand rung for the top of the ladder.

You will need to assemble the ladder and if you are not handy with a drill we recommend using a trusted carpenter.

### Preparation

Once you have received your ladder, we recommend lightly sanding the ladder prior to applying your chosen finish. Sanding will take off any small snags on the wood giving the best finish, whether that is painting, staining or lacquering your ladder.

### Tools required





# Ladder Installation Guide

## Tools Required:

- Pencil
- Spirit level
- Drill and 1/4inch bit
- Screw driver
- Wood Glue
- 2 x 5mm Allen keys
- 220 grit sand paper

## Notes:

- *If you want to open cabinet doors over the top of your ladder, you will need to leave a 80mm clearance above the centre of the rail. Leave at least 180mm of clearance above the rail centre of the rail for the top guide hardware to operate properly, and allow the ladder to be stowed away vertically.*
- *Do not mount rail brackets directly onto a drywall surface. Always mount the brackets to solid wood, predrilling the holes in the wood is advisable to avoid splitting the wood.*



## Step 1 - Rail Installation

### Measure up:

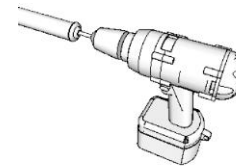
- Establish the height of where the centre of the rail is to be installed and mark the location where the bottom of the mounting bracket will be located (depending on which type of bracket is used, the distance between the centre of the rail and the bottom of the bracket will vary. (Check dimensional specs). Use a spirit level to determine your bracket locations are level.

### Prepare:

- If you need to trim down your rails to size, do so now.
- On ends of your rails, tap the end of the rail with the tap supplied, to create a thread in order to screw end caps into. (Do not screw end caps in place yet).

### Assemble & Install:

- Use the joining kit to connect rails together. (if applicable). Insert roll pin halfway into one of the rails. Slide the steel bar halfway into the rail. Secure the joining kit to rail on both sides by tightening the set screws.
- Slide all of the brackets to be used into the rail with at least one positioned every 914mm along the length of the rail.
- Pre-drill holes in wood you are fixing to if needed. Screw brackets into place.
- Install end cap with screw provided using 4mm Allen key.



Tap the rail to create a thread so you can screw in the rail end caps.



Rail Joining Kit



Brackets slide into a groove within the rail.



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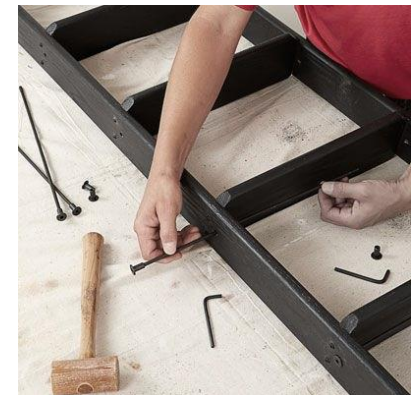
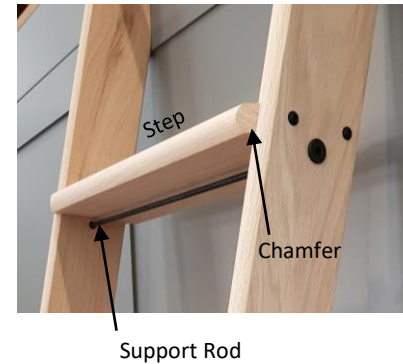
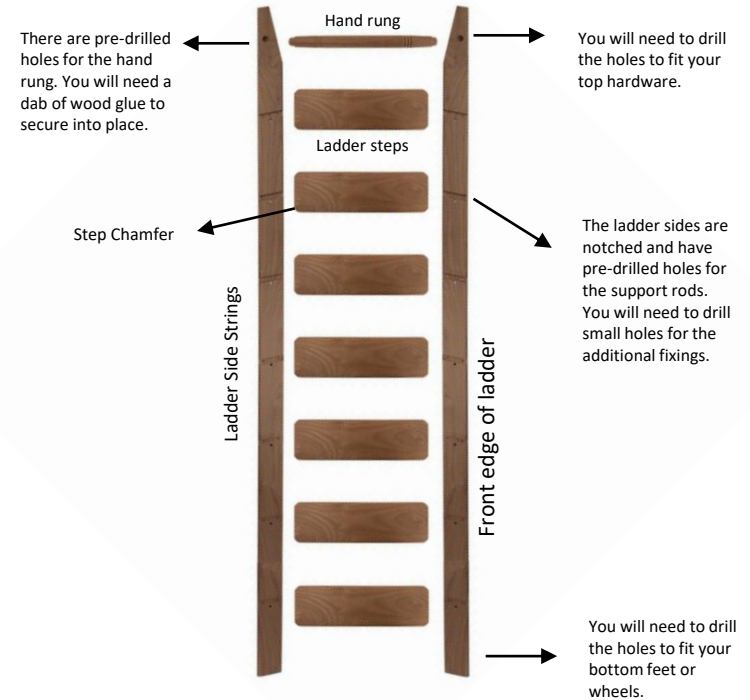
## Step 2 - Ladder Assembly (If applicable)

### Prepare:

- Lightly sand the ladder with 220 grit sand paper and apply your chosen finish (stain, paint, clear coat sealer) Make sure to cover the notches in the sides of the ladder and the end of steps, to ensure a clean the surface remains clean of the finish.

### Assembly:

- Stand one of the ladder side strings on its edge, notches facing away from you.
- Insert one of the steps into the notch, make sure the chamfer detail on the step is at the front of the ladder. If not flush, flip and/or rotate the step until it lines up properly with the side rail.
- Apply a thin film of wood glue to the end of the step and also in the notch and place the step into the notch.
- Using the hex head screws supplied in the support rod fixings bag, secure the step to the side rail through the predrilled holes on the side rails. Assemble the remaining steps in the same manner.
- Once all the steps are assembled onto one of the side rails, place the side of the ladder flat on its side with the steps pointing up.
- Apply a thin film of glue on the ends of each step and in the second ladder side string notches. Also add glue into the circular hand rung hole and the ends of the hand rung.
- Properly align each step as well as the top turned rail into its corresponding hole, use the supplied hex head screws to fasten the steps into place.
- To install the step support rods, push a nut cap (used with the step support rods) in the predrilled hole on the side rail. Slide the step support rod through the hole on the opposite side rail and partially thread it into the nut cap. Install the other nut cap and using two 5mm Allen wrenches tighten each side simultaneously so that there is equal amounts of thread on each end of the rod into each nut cap.





# Ladder Installation Guide

## Step 3 – Hardware Installation

Installing the hardware at the top of the ladder:

- Align the top hardware (Rollers or Hooks) on the bevelled section of the top of the ladder so that the hand rung is centred between the bolt holes on the side of the hardware. Mark the location of the hardware onto the ladder and measure its location from the top of the ladder. Mark the same location on the second ladder side making sure they match.
- While holding the top hardware in place, mark the location of the fixing holes on the back edge of the ladder. You might need to slide the mechanism up or down in order to find the countersunk fixing holes in the hardware.
- Drill pilot holes and fix the top hardware into place using the screws provided.
- To secure the sideways facing bolts through the top of the hardware and ladder, you will need to drill a hole using a ¼ inch drill bit. Using the holes in the top hardware as a drill guide, drill a ¼" hole half way through the thickness of the ladder side. Drill the same hole on the opposite side of the top roller guide, producing a ¼" through hole in the ladder side rail.
- Follow this same procedure for all 4 through holes and complete the assembly by securing the top roller guide with the supplied bolts and acorn nuts.

Installing the hardware at the bottom of the ladder:

- Slide the U shaped portion of the bottom hardware onto the bottom of the ladder. Make sure that the U shape is flush with the bottom of the ladder. Due to the 12-degree angle of the ladder it means that when you fit the bottom hardware it will sit at an angle to the rest of the ladder sides.
- Mark the location of the "U" bracket on the bottom of the ladder and at the same time mark on the side of the ladder the location of the top mounting on the hardware. Measure the hardware location and mark the same location on the second ladder side making sure they match.
- Pre-drill a hole for the fixing bolts using a ¼" drill, and predrill the ladder side rail for the smaller fixing screws.
- Install the bottom hardware on both sides of the ladder using the included screws and KB bolts and acorn nuts

Bevelled Section

Side strings of ladder

12degree angle

