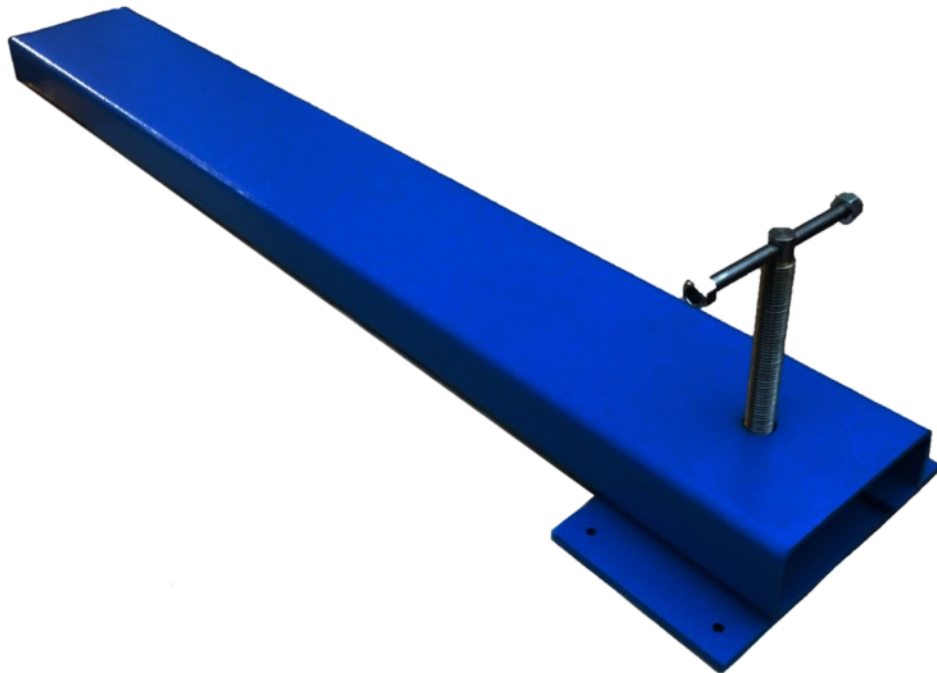




Prop Pal Needle System
Mk3 PP1200
Safety and Instruction Manual



www.proppal.co.uk
Tel: 0161 456 0758
Product patented

Rev 0, 9/7/21

Safety



-Read instruction manual before use



-Seek expert advice on the loads, number of needles required and their spacing



-Hard hat must be worn



-Gloves must be worn



-Do not exceed 1050kg per needle



-Two person operation

Product Features

- 1050kg safe working load
- Needle cross-section of 215x60mm is smaller than a brick, allowing easy insertion
- Length of 1200mm, allows good access for installing steel beam
- Manufactured from durable S275 steel
- Jacking screw plate can be attached to allow needle to be fixed to floor boards, providing greater security for supporting walls above floor chamber
- Needle allows props to be locked in place at one or both ends
- UK manufactured

Intended Applications

The Prop Pal needle is intended for applications where wide spans of wall require support, while steel beams are being inserted and hidden in the ceiling void. The system can be configured for ceiling joists running either parallel or perpendicular to the wall.

Instructions for Use

Before use:

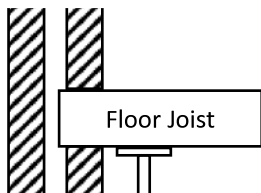
- Seek advice from a structural engineer about how many Prop Pal needles are required and their spacing. Do not space more than 900mm apart.
- Ensure the wall is free from cracks or other damage which could affect its stability when supported.

- Identify whether the ceiling joists are parallel or perpendicular to the wall.
- Ensure the ground supporting the props is suitable. This includes being level, stable and able to bear the load.
- Ensure the ground surrounding the props is made secure against degradation by water during the life of the falsework.
- Note the position of services (particularly underground services in the region of the props).
- Ensure props to be used are jacking and of a suitable safe working load.
- All supports and supporting ground must be checked by qualified personnel before use. Prop Pal accepts no responsibility for the incorrect installation or use of this product.
- Inspect the Prop Pal Needle for defects, ensuring all fastenings are tight
- Risk assess and plan the insertion of the needles, demolition of wall and insertion of beam. Ensure those on site are familiar with the plan.

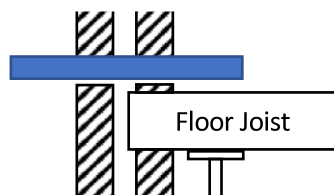
Operation:

For joists perpendicular to the wall:

- Support the joist with a prop using best practice:

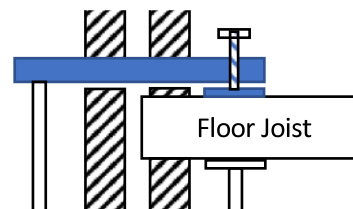


- Create holes in walls and insert needle in line with the joist:



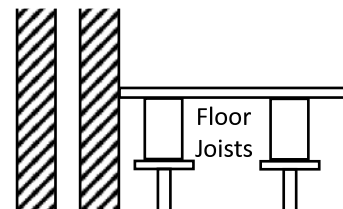
- Support the outside end of the needle using a prop using best industry practice.

- Secure inside end of the needle to the floor boards using the jacking screw plate OR support using a prop:

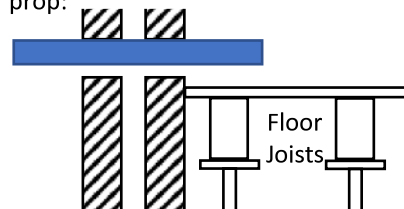


For Joists Parallel to the wall:

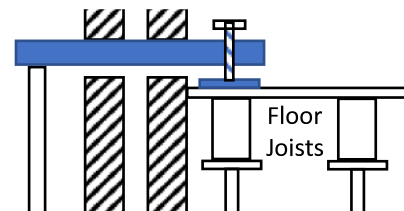
- Support the joist with a prop using best practice:



- Create holes in walls and insert needle so end is in line with the joist and its prop:



- Support the outside end of the needle using a prop using best industry practice.
- Secure inside end of the needle to the floor boards using the jacking screw plate OR support using a prop:



Traditional Assembly method:

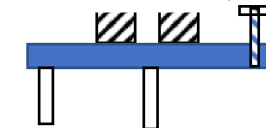
Sometimes it may be advantageous to use the Prop Pal Needle in the traditional way, i.e. by supporting using 2x builders props. To do this:

- Position the jacking screw plate so that the short side is parallel with the length of the needle
- Wind the screw fully in so that the plate is tight against the needle
- Screw the two prop retention brackets onto the jacking screw plate using the provided fastenings.
- Props may now be positioned and retained within the brackets



Or:

- Remove the jacking screw plate, leaving the threaded support as a stop
- Slide a prop in and along the length of the needle until in correct position



For all assembly methods:

- Ensure the props are vertical and resting on a suitable surface before extending to take up the slack.
- Ensure that the props can not come into collision with equipment, particularly mobile equipment on site.
- Remove the wall and insert the beam in line with best practice.
- Once the beam is in place, and the masonry has been made good, the props can be removed and the needles retracted.

Maintenance

The Prop Pal needle should be inspected before each use. Ensure fastenings are tight. While cosmetic damage is acceptable, do not use the equipment if any structural damage is found. In addition, in line with the Lifting Operations and Lifting Equipment Regulations (1998), Prop Pal needles should be inspected every 12 months by a competent person. Please contact Prop Pal on 0161 456 0758 to arrange this service.