For guidance on managing construction health risks go to
www.hse.gov.uk/construction

Using The Prop Pal Plus Needle System

Maintenance

The Prop Pal needle should be inspected before and after each use. Inspections should ensure fastenings are tight and all parts are present. While cosmetic damage is acceptable, do not use the equipment if any structural damage is found.

Additionally, once erected, the needle, props and prop supports should be checked each day to ensure they are safe and secure.

Thread support should be cleaned and lightly lubricated after use

1800

Safety Guidance

v:032024

PROP PAL PLUS NEEDLE SYSTEM PP1800

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

- Read instruction manual before use

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

- The following items of personal protective equipment (PPE) are the minimum that should be worn whenever you use this needle system;

Safety Helmet, Safety Boots, and Industrial Grade Gloves.

- Additional PPE may be required as determined by risk assessment.

- Do not exceed 1050kg per needle

-Three person operation (2x to lift needle, 1x to locate jacking sleeve plate)

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.

'These needle systems must not be used by minors, or by anyone under the influence of drugs or alcohol. Needle systems are designed for installation / use by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using them.

v:032024

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Before Starting Work...

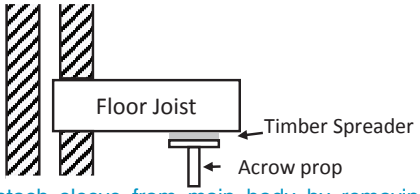
Before use:

- Plan the use of the Prop Pal needle supports so that they can always be used safely.
- The use of Prop Pal needle supports for the temporary support of overhead structures should only be undertaken by persons who have the necessary knowledge and experience to do the job safely. Consult with the architect or other responsible person regarding the weight of the overhead structure to be supported. 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.

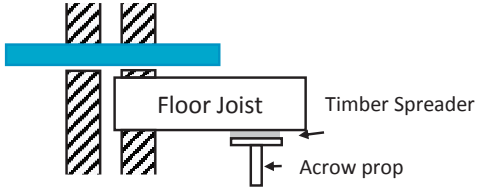
Operation:

For joists perpendicular to the wall:

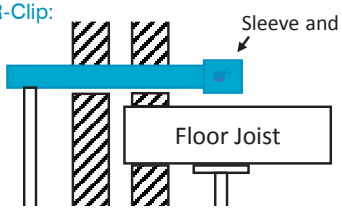
- Support the joist with a prop using best practice:



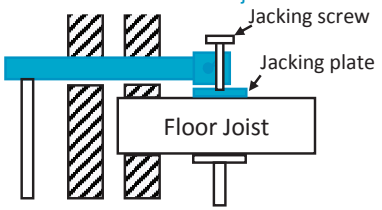
- Detach sleeve from main body by removing R-Clip and remove retaining rod
- Create holes in walls and insert needle from the outside:



- Support the outside end of the needle using a prop, using best industry practice and a 2-person lift.
- The third person to position sleeve on floor adjacent to aperture in wall to receive main body and secure with locating pin & clip
- To secure to the joist: insert sleeve over end of needle. Secure in place with locking pin and R-Clip:

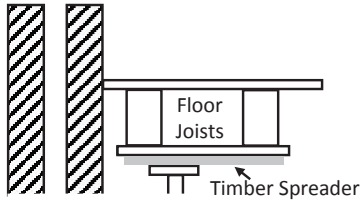


- Attach the jacking screw plate, wind into position and secure to the joist:

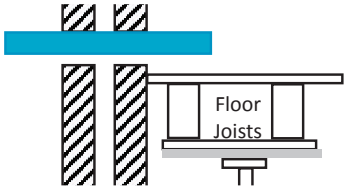


For joists parallel to the wall:

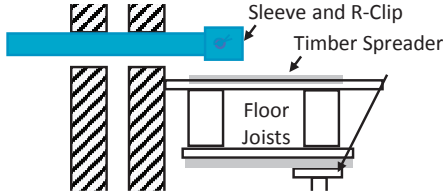
- Support the joist with a prop using best practice:



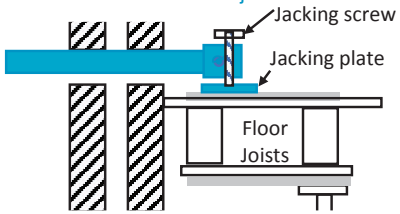
- Create holes in walls and insert needle so end is in line with the joist and its prop:



- Support the outside end of the needle using a prop using best industry practice.
- To secure to the joist: insert sleeve over end of needle. Secure in place with locking pin and R-Clip:

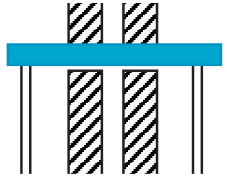


- Attach the jacking screw plate, wind into position and secure to the joist:



Or, support via two props

- Props should be supported in line with best practice:



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.

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