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SAFE WORKING LOAD

- Support props are usually available in six different lengths (size 0 to 5).
- The following is the safe loading of props when used with strongboys. The maximum span supported by each strongboy and prop must not exceed 900mm. Consult an architect or other responsible person.

Prop Size	Closed Length (meters)	Extended Length (metres)	SWL in kilograms
0	1.04	1.83	340
1	1.75	3.12 (to a max. height of 3m)	340
2	1.98	3.35 (to a max. height of 3m)	340
3	2.59	3.96 (to a max. height of 3m)	340
4	3.20	4.88 Unsuitable for use with strongboys	
5	3.65	6.10 Unsuitable for use with strongboys	

3. The above guide assumes that the props are within 1.5 degrees of vertical (This is about 25mm in 1 metre or 1 inch in 1 yard): and that they are not braced.

USING THE STRONGBOY

- Wear your protective equipment including safety boots and helmet.
- Check the strongboys and props each tie before you start work.
- Do not remove or adjust any strongboy or prop until you are certain that it is safe to do so.
- Do not string or tie any electrical or lighting cables to the strongboys and props.
- If strongboys and props are left in position unattended, make the area safe against children and other unauthorised persons.
- The strongboys and props must be inspected by a competent person at least once a week.
- Always return the equipment to the hire company in a clean condition.
- If your equipment is faulty, do not attempt to repair it. Contact the hire company.

Please keep this leaflet safely as it may be required for future reference



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Strongboy used with Support Props

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. This leaflet is not a substitute for a properly executed risk assessment. This strongboy is for use with 'old type' support props (BS 4074:1982) still widely used in the industry. The strongboy will not fit, and should not be used with (BS EN1065:1999) 'new type' support props. (BS 4074:2000 is the current standard for trench props, not support props).

It is important to read this entire leaflet BEFORE using the Strongboy

- Plan the use of the Strongboy so that it can always be used safely.
- The strongboy is used in conjunction with a support prop where support of brickwork cannot be positioned directly beneath the structure – for example when creating new opening in brickwork.
- The use of a strongboy and support prop for the temporary support of overhead brickwork structures should only be undertaken by persons who have the necessary knowledge and experience to do the job safely.
- Consult with an architect or other responsible person regarding the weight of the overhead structure to be supported.
- The strongboy and support prop are designed to give support to overhead structures while the existing support is renovated or replaced.
- The action of the strongboy and support prop can cause injury or damage if not used in a careful and controlled way.
- You should wear the following items of personal protective equipment: Safety boots (EN345 or BS1870/4972); safety helmet – EN397 or BS5240; gloves; impact resistant goggles: EN166 – B or BS2092 grade 1; dust mask – a minimum of EN149:2001 ffp2 protection.
- The strongboy and support props must not be used by minors, or by anyone under the influence of drugs or alcohol.
- The strongboy and support props are designed for operation by able bodied adults. Anyone with either temporary or permanent disability must seek expert advice before using them.



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- The mortar joint until the triangular support web of the strongboy meets the brickwork.
- Locate the baseplate of your prop into position directly below the strongboy, and then adjust the prop so it is vertical.
- If you are using a soleplate, your prop should be resting on it.
- Carefully slide the inner tube up to the strongboy locating the top plate into the square recess of the strongboy.
- Locate the pin, above the screw collar, and through the slot in the outer tube, into the most suitable hole in the inner tube. You may need to screw the collar down to accommodate this.
- Screw the collar up against the pin to secure the prop. Check the prop is vertical. You must hold the prop until it is vertical. Before you start work, make sure you understand how to use the strongboy and props safely and how much support your overhead structure needs.
- Calculate and plan the positioning of each strongboy and prop – mark the position for each one.
- Each 900mm or part of 900mm span will require a strongboy and prop.
- Two persons are required to put a strongboy and prop in position safely.
- All operators must wear their safety equipment.
- Hammer the strongboy into the mortar course with the handle on the top, at the suitable structural concrete.
- The timber soleplate should be at least 225mm (9 inches) wide by 38mm (1.5 inches) thick. It should be long enough to project at least 300mm (12 inches) either side of the support prop's baseplate.
- Ensure the brickwork above the strongboy is capable of carrying the load and is stable.
- Ensure the brickwork above the soleplate is capable of carrying the load and is stable.
- Check your strongboy and support props; check that the inner and outer tubes are straight and that they telescope easily. Check that the locking pin is still secure on its chain. Check that the strongboy plate is straight and all welds are intact. Do not use anything found damaged – contact the hire company.
- Take professional advice to determine the load to be supported. Do not exceed the safe working load (SWL) of 340kg for each strongboy and prop. Loads in excess of this will require two or more strongboys and support props. The maximum spacing between each strongboy and support prop must not exceed 900mm.
- The maximum working height of the strongboy must not exceed 3m.
- Your prop must be vertical in order to bear its load safely.
- Props must never be used more than 1.5 degrees off vertical. This is about 25mm in 1 metre (1 inch in 1 yard).
- Ensure that the floor, where the baseplate will locate, is strong enough to support the load that will be transferred to it by each prop.
- Each prop should stand on a timber soleplate unless the baseplate is on protective equipment.
- Anybody who is working near to you will also need to wear appropriate personal protective equipment.
- Strong golves will help protect your hands. (EN149:2001 ffp2 if grinding or chipping – You will need a dust mask – Wear impact resistant goggles: (EN166 – B or BS2092 grade 1).
- Safety helmet to EN397 or BS5240.
- Wear safety boots (EN345 or BS1870/4972) with good grip and ankle support.
- Particular jobs or environments may require a higher level of protection.
- You must wear safety boots (EN345 or BS1870/4972) with good grip and ankle support.
- The following items of personal protective equipment (ppe) are the minimum that should be worn whenever you use a strongboy and support prop. Particular jobs or environments may require a higher level of protection.
- Anybody who is working near to you will also need to wear appropriate personal protective equipment.



Before Starting Work...

Useful Reference Points • www.hae.org.uk/businessguard

STRONGBOY AND SUPPORT PROPS

- Only essential people should work in the area when the strongboy and props are in use.
- Make sure that your work area is clear and safe and that no-one is near to you or could distract you.
- Warn others to keep away. Put barriers around your work area. Ensure warnings are positioned on both sides of the structure to be supported.
- Make sure the floor area where you put the baseplate of your prop is sturdy enough to support the weight that will be placed upon it.
- Check the work area for services (gas, water and heating pipes, electric and telephone wiring etc.). Ensure they will not be damaged, or present any danger whilst any of the work is being carried out.

OPERATORS

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