

Steel Road Plates

Hazard and Risk Assessments

Before using this equipment, the job you are doing must be assessed for foreseeable hazards and risks and appropriate measures to eliminate, control or reduce those risks must be taken before you commence work.

Suggested PPE (Personal Protective Equipment):



Protective Gloves

Protective Footwear

Hard Hat

Eye Wear

Note: PPE must be suited to the risks and person(s) using the equipment.

Safety Instructions:

- Operating Instructions** – Before using this equipment ensure you have read the 'Operating Instructions' and taken note of the 'Hazards and Risks' detailed on this instruction sheet and taken all necessary steps to prevent injury.
- Personal Protective Equipment** – Use appropriate personal protective equipment for the job.
- Installation Advice** – The safe use and application of these this equipment must be in accordance with AS3610, the Occupational Health and Safety Act, approved Codes of Practice and any other regulatory requirements. Consultation with a competent person or qualified engineer is advised.

HAZARD: Risk of Structural Collapse and Crushing

... Steel plates on trenches must have appropriate span for width of plate.

... Consultation with a qualified engineer is advised.

Installation Requirements:

For moving or installing Steel Road Plates, installers must have sufficient training/instruction to properly install and use this equipment.

ENSURE YOU HAVE BEEN PROPERLY INSTRUCTED BY A COMPETENT PERSON BEFORE USING THIS EQUIPMENT.

Purpose for which this equipment is designed:

To provide temporary pedestrian/vehicular access over trench excavations.

Steel Road Plates

A variety of steel plates are available from Shore Hire. All plates are made of steel and can vary in thickness depending on the application they are to be used for.

Steel road plates can be used to gain temporary access for pedestrian and vehicular traffic over trenches, excavations and manholes.

Their use must be planned and authorised by a competent authority to confirm that the plates are suitable for their application.

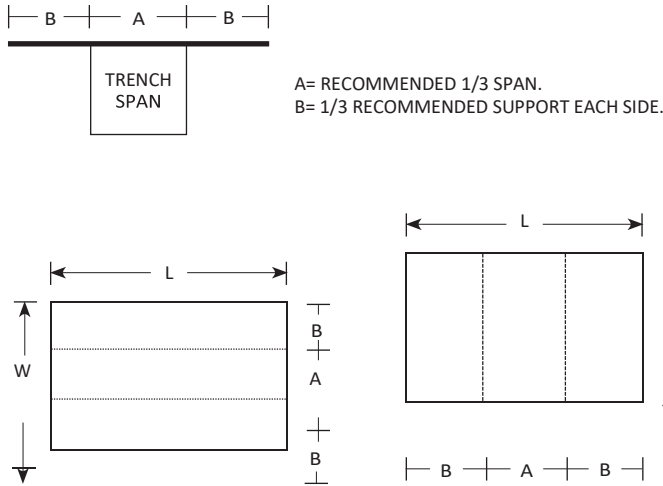
Supporting surface on each side of the trench shall be smooth and hard (concrete, asphalt surfaces or equal).

Shore Hire's steel plates are equipped with a centre lifting device, which promotes efficient and safe steel plate installation and removal. The use of the lifting device negates manual handling or the need to use a crowbar to gain access for lifting.

The width and thickness will depend on the width of the excavation to be spanned and the type of traffic expected to use them.

REGULATORY REQUIREMENTS: Some government regulations require that steel plates have skid resistance surfaces when used on roadways and highways.

- Always make sure lifting equipment is adequate for the task and meets OH&S requirements.
- All steel plates should be secured: They can be sunk into the surface, pinned with bridge deck pins and asphalt-based cold mix used to form a ramp on edges.
- Steel plate installation must not present a hazard to cyclists and motor bikes, the edge of the steel plates must have a ramp formed around the edge of all plates placed on roadways.
- The edge of the road plate adjacent to the excavation should be fenced to prevent falls.
- Always check on the regulation requirements relating to the particular job site that the road plates are to be used on.
- STACKING AND HANDLING:** Suitable firm level storage should be made available on site for stacking.
- Slinging and movement of steel plates should always be carried out by a suitably experienced and competent person.
- Steel plates should be stacked on timber to reduce slipping.
- TRANSPORTATION:** Ensure that steel plates are securely chained to the tray of the transport truck.
- INSTALLATION:** A crane, rubber tyred backhoe or excavator can be used to lift steel plates into position on previously prepared foundation. Ensure units are adequately restrained against any movement. Install asphalt ramp or similar to form a smooth transition from the road onto the steel plates.
- Regularly inspect the trench walls to ensure the traffic is not overloading them. Check that the units are not moving longitudinally or laterally.
- If you need further information, advice, or any other help with this product, please contact your nearest Shore Hire office.



NOTES:

1. Plates are to be uniformly supported and centred over the trench.
2. Trench walls under the plates shall be uniformly supported from top to bottom.
3. Plates should be anchored with deck pins to prevent lateral movement.
4. Supporting surface on each side of the trench shall be smooth and hard (concrete, asphalt surfaces or equal).
5. Steel traffic plates shall be a minimum of one inch thick.
6. Other sizes available.
7. As a guide only, plates used on roads should use 1/3 of its width to cover the span of a trench and 1/3 each side on solid ground/footing.
8. **CONSULT A QUALIFIED ENGINEER IF IN ANY DOUBT.**

STEEL ROAD PLATE SPECIFICATIONS

Size (mm)	25mm	32mm	50mm	Weight
1200 x 1200	●			282kg
2400 x 1200	●			565kg
2400 x 2400	●			1128kg
3000 x 1200	●			706kg
3000 x 1800	●	●		1150/1356kg
3000 x 2400	●	●		1413/1809kg
4000 x 1800	●	●		1413/1809kg
4000 x 2400		●	●	2426/2826kg
6000 x 2400	●			2826kg

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RISK ASSESSMENT (1= HIGH RISK, 5 = LOW RISK)

Risk(Ranking)	Description	Control
1	Installing plates on unstable/shifting ground could cause a collapse of the steel plates.	Always ensure base is concrete, asphalt surface or equal to take traffic load.
1	Overloading steel plates could cause supporting surface to collapse.	Strictly follow engineers advice, do not overload the steel plates. Keep span to 1/3.
2	Overloading steel plates could cause steel plates to bend and buckle.	Adhere to engineering instructions. Endure steel plates installed correctly. Keep span to 1/3.
3	Cuts and grazes may occur from improper handling procedure	Observe safety procedures, always wear correct PPE.
2	Dropping units trapping hands and feet, mishandling.	Follow safety procedures, use PPE. Keep clear when moving.