

The provision of a safe working environment is the responsibility of the owner of the project, principal contractor, customer, and all parties involved in the project.

The purpose of this document is to provide guidelines in relation to ensuring a safe environment through good practices, and by mitigating hazards that have been identified and assessed as a potential risk to premixed concrete truck drivers, the public and all involved in delivery of premix concrete to site.

Issues to assist in creating a safe working environment include:-

What is required of the customer

Safe Site Access

- safe and legal entry to site
- a spotter (traffic controller) to assist in conditions involving reversing in darkness, low clearance, obstacles, tight access or high vehicle and/or pedestrian traffic
- traffic control where necessary on public roads by competent personnel
- safe route to the unloading point (including adequate signage)
- stable ground surface (freshly filled ground can present a problem for heavy trucks)
- delivery point is clear of any building rubbish or materials
- safe exit from site
- ensuring a safe area is selected to pull off the road and that no road rules are breached if road side delivery is required

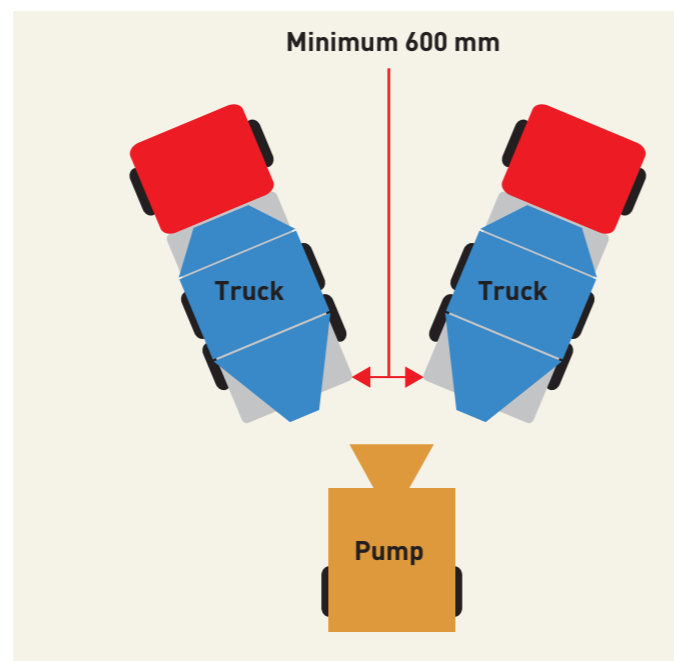
Concrete Pumps and Kibbles

- pump be set up on site so concrete trucks do not breach road rules when reversing to the hopper
- all safety features are fitted and used on concrete pumps as per state codes of practice. These include but not limited to:
 - secure hopper grate
 - emergency stop devices within easy reach of driver

- safety chains on slurry cap
- safety pins in couplings
- earth straps are carried for fitting when near power lines (in accordance with AS2550.15-1994)
- displayed boom pump certification
- log books with current entries
- all safety features fitted on kibbles
- certified crane operator and dogman

For 2 trucks on a pump

- a spotter (traffic controller) is required to assist trucks reversing
- safe location of the spotter and any truck driver to prevent them from being caught between the reversing truck and the pump hopper and the reversing truck and the stationary truck
- minimum clearance of 600mm between the sides of the 2 trucks as shown below for safe access



- only 1 truck at a time is permitted at the pump if any of the above cannot be achieved
- refer to premixed concrete supplier for policy on blowback

Additions to load (colour, silica fume, etc)

- bagged or liquid products being added to the load only if an adequate stand is provided
- bagged products are sealed and dissolvable
- driver is the only person permitted to add water to the load

Electricity

- observing the following clearances* from live overhead powerlines/conductors
 - up to 132,000 volts - 3 metres
 - between 132,000 volts and 330,000 volts - 6 metres
 - over 330,000 volts - 8 metres

*Clearances applicable NSW only.

Contact relevant authorities for clearances in other states.

Environment

- provision of safe and contained areas for concrete agitator wash down
- delivery times arranged to not cause undue noise nuisance to site neighbours
- roadside delivery points having appropriate environmental controls to prevent concrete washing into drains and waterways
- sites having appropriate controls to prevent trucks taking mud onto roads

General

- no additional chutes added to trucks (only those supplied on truck ie no 5th chute)
- customers and contractors are not permitted to operate or access any part of the truck
- use of a spotter when moving a truck with extended chutes (locked)
- clear marking of excavations/holes
- provision of safe areas for testing and overnight storage of test specimens
- provision by the customer of a list of any hazardous substances on site which drivers/staff may come in contact with
- be advised (with sufficient notice) any changes to site access and delivery areas
- clear instructions on any other requirements on the site

What is required of the driver

- follow all site Occupational Health Safety (OHS) requirements including Personal Protective Equipment (PPE)
 - minimum standard PPE for discharging concrete into a pump is safety glasses and hearing protection
- report any uncontrolled hazards to the customer or contractor
- ensure vehicle reverse warning system is operational
- when being directed on site by a spotter do not continue if person cannot be clearly seen
- **NO SEE – NO MOVE**
- if in doubt about the safety of proceeding seek assistance from a responsible person either on site or at the plant
- ensure wheels are free of material when exiting

Product Safety Information

- customers need to ensure that all personnel who handle product are aware of the product Material Safety Data Sheet (MSDS) obtainable from premixed concrete supplier
- Direct contact with wet concrete mix will irritate eyes and skin and can cause dermatitis and severe chemical (caustic) burns. Do not kneel or rest any part of body on wet concrete or on materials made wet from concrete
- **First Aid: Flush eyes with plenty of water for at least 15 minutes**

Skin: Remove soaked clothing and wash affected body area with soap and water

- when handling wet concrete wear protective clothing and gloves and change if they become wet
- wear eye protection (AS 1337)
- When cutting, drilling, sawing, chasing, sanding, grinding or breaking hardened concrete, silica dust may be released. Breathing silica dust over time may lead to lung disease. Breathing dust in the short term may cause a cough and sore throat. Dust may irritate eyes. Wear clean protective clothing. Wear a P1 dust mask (AS 1715/1716) and eye protection (AS 1337).
- to stop dust build up, regularly wet and sweep or dry vacuum and put dust in a covered container (wear protective gear)

Follow local authority guidelines for disposal of waste. See MSDS.

Safe Site Delivery Checklist

Item	Requirement
Traffic	safe access and exit on and off site
Traffic	clear access for pedestrians and workers
Traffic	when delivering from roadside, traffic control cones and signs supplied by customer
Traffic/ Reversing	spotter (traffic controller) to assist in conditions involving reversing in darkness, low clearance, obstacles, tight access or high vehicle and/or pedestrian traffic, where there is 2 truck feed on pump
Pump	pump has secure safety grate, safety chains on slurry cap, safety pins in couplings and is parked safely
Truck Driver	a PPE is worn
Truck Driver	only driver operates truck and mechanisms
Truck Driver	stay clear of truck whilst another is reversing
On site	delivery area clear of rubbish (eg slip/trip hazards, sharp objects)
On site	chutes locked if moving around site
On site	adequate lighting for night work
Overhead	at least a 3m distance from power lines for mixer truck and concrete pump boom
Overhead	earth strap in place when working near power lines
Landfill	stable ground for delivery
Landfill	site topography allows easy access (not too steep or narrow)
Holes and Trenches	holes, trenches and pits clearly marked
Environment	wash-out area available

This list is used as a guide only. Many more hazards may exist on site. **Be aware. Be alert.**



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