



Be aware. Be alert.



**CEMENT CONCRETE
& AGGREGATES AUSTRALIA**

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

This document provides guidelines in relation to ensuring a safe environment through good practice, in addition to mitigating hazards that have been identified and assessed as potential risks to premixed concrete truck drivers, the public and everyone involved in delivering premixed concrete on site.

Requirements for customers and concrete truck drivers to assist in creating a safe working environment are listed below.

What is required of the customer

The following must be provided for site access

- A safe and legal entry to the site
- A spotter (traffic controller) to assist in conditions involving reversing in darkness, low clearance, obstacles, tight access or vehicle and/or pedestrian traffic
- Traffic control on roads (where necessary) by competent personnel
- A safe route to the unloading point (including adequate signage)
- A stable ground surface (uncompacted fill can present a problem for heavy trucks)
- A delivery point that is clear of any building rubbish or materials
- If roadside delivery is required ensure that
 - a safe area to discharge is provided
 - the driver does not need to breach road rules while accessing, parking or discharging from the concrete truck
- A safe exit from the site is provided

When using concrete pumps and kibbles it is important that

- All safety features are fitted and are in working order on the concrete pump as required by state safety regulations. These include but are not limited to
 - A secure hopper grate
 - Emergency stop devices within easy reach of the driver
 - Safety chains on the slurry cap
 - Safety pins in all couplings

- Earth straps when near power lines (in accordance with AS 2550)
- Boom pump certification on display
- Log books available for inspection
- All safety features are fitted to kibbles
- A certified crane operator and dogman (if required) is employed
- **The premixed concrete supplier is consulted regarding their policy on blowback, (refer to CCAA's *Industry Safety Flag – Blowback*)**

Additions to load (colour, silica fume, etc)

- Allow only the driver to add water or other products to the load
- Add no other products without the written approval of the premixed concrete supplier
- Allow the addition of bagged or liquid products to the load only if an adequate stand is provided
- Bagged products must be sealed and the bags dissolvable

Electricity

- Strictly observe the following clearances* from powerlines
 - 3 m - up to 132,000 volts
 - 6 m - from 132,000 to 333,000 volts
 - 8 m - over 330,000 volts and where the voltage is not identified

***Clearances applicable in NSW only. Contact the relevant authorities for clearances in other States**

Environment

- Provide safe and contained areas for concrete truck wash-down
- Arrange delivery times to minimise undue noise or nuisance to site neighbours
- Roadside delivery points must have appropriate environmental controls to prevent concrete washing into drains and waterways
- Sites must have appropriate controls to prevent trucks taking mud onto roads

General

- No additional chutes are to be added to trucks (only those supplied on a truck ie no 5th chute). **Refer to CCAA's Safety Flag - Use of the 5th (non standard) chute for details**
- Customers and contractors should not be permitted to operate or access any part of the truck
- A spotter **must be used** when moving a truck with extended chutes – and the chutes must be locked
- Excavations and/or holes must be clearly marked
- A safe area for testing and overnight storage of test specimens must be provided
- The customer **must provide** a list of any hazardous substances on site that drivers/staff may come into contact with
- Drivers must be given sufficient notice of any changes to site access and delivery areas
- Drivers must be given clear instructions on any other site-specific requirements

What is required of the concrete truck driver

- Follow all site Occupational Health Safety (OHS) requirements including Personal Protective Equipment (PPE)
- **Mandatory additional PPE** for discharging into a pump are safety glasses and hearing protection
- Report any uncontrolled hazards to the customer or contractor and **company supervisor**
- Ensure that the truck reverse warning system is operational
- When being directed on site do not continue if the spotter cannot be clearly seen
NO SEE – NO MOVE
- Seek assistance from a responsible person either on site or at the plant if there are any safety concerns
- Ensure that wheels are free of material when exiting the construction site

Product Safety Information

- Customers must ensure that all personnel who handle product are aware of the product Material Safety Data Sheet (MSDS) obtainable from the premixed concrete supplier
- Direct contact with wet concrete will irritate eyes and skin and can cause dermatitis and severe chemical (caustic) burns. Do not kneel or rest any part of the body on wet concrete.

First aid: Flush eyes with plenty of water for at least 15 minutes

Remove contaminated clothing and wash affected body area with soap and water

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

Refer to CCAA's *Working Safely with Wet Concrete* and *Working Safely with Dry Concrete Materials* data sheets for further information. Follow local authority guidelines for disposal of waste. See MSDS.

Safe Site Delivery Checklist

Item	Requirement	Yes/No/NA
On Site	Safe access and exit is provided	
On Site	Site topography allows easy access [not too steep or narrow]	
On Site	Stable ground for trucks is provided	
On Site	Delivery area is clear of rubbish, building materials and slip/trip hazards	
On Site	Holes, trenches and pits are clearly marked	
On Site	Adequate lighting for night work is provided	
Traffic Control	An exclusion zone is provided if discharging from the roadside	
Traffic Control	Clear access for pedestrians and workers is provided	
Traffic Control	A spotter is available to assist in difficult conditions	
Traffic Control	A spotter is available to assist reversing trucks for a two truck feed	
Traffic Control	No-one (including pump operator) is permitted to stand between a reversing truck and pump or nearby stationary objects	
Pump	Earth straps are fitted when working near power lines	
Power Lines	A minimum safe clearance to power lines is maintained (contact the relevant authorities for clearances)	
Truck Driver	Required PPE is worn	
Truck Driver	Truck and barrel controls to be operated only by the truck driver	
Truck Driver	Chutes to be locked if driving around site	
Environment	Controls are in place to prevent concrete washing into drains and waterways	
Environment	Wash-out area is available	

This checklist is to be used as a guide only. For more detailed information refer to this brochure, CCAA's *Concrete Pump Safety* brochure and applicable safety regulations. **Be aware. Be alert.**

References

1. CCAA Data Sheet - *Working Safely with Dry Concrete Materials*
2. CCAA Data Sheet - *Working Safely with Wet Concrete*
3. CCAA *Concrete Pump Safety*
4. CCAA *Industry Safety Flag - Use of the 5th (non standard) chute*
5. CCAA *Industry Safety Flag - Two Trucks on a Pump*
6. CCAA *Industry Safety Flag - Blowback*
7. The Concrete Pumping Association of NSW *Pump Safety Manual*
8. State Safety Authorities Codes of Practice for Concrete Pumps

Be aware. Be alert.



**CEMENT CONCRETE
& AGGREGATES AUSTRALIA**

CCAA OFFICES

SYDNEY OFFICE:

Level 6, 504 Pacific Highway
St Leonards NSW Australia 2065

POSTAL ADDRESS:

Locked Bag 2010
St Leonards NSW 1590

TELEPHONE: (61 2) 9437 9711

FACSIMILE: (61 2) 9437 9470

BRISBANE OFFICE:

Level 14, IBM Building
348 Edward Street
Brisbane QLD 4000

TELEPHONE: (61 7) 3831 3288

FACSIMILE: (61 7) 3839 6005

MELBOURNE OFFICE:

2nd Floor, 1 Hobson Street
South Yarra VIC 3141

TELEPHONE: (61 3) 9825 0200

FACSIMILE: (61 3) 9825 0222

PERTH OFFICE:

45 Ventnor Avenue
West Perth WA 6005

TELEPHONE: (61 8) 9389 4452

FACSIMILE: (61 8) 9389 4451

ADELAIDE OFFICE:

Greenhill Executive Suites
213 Greenhill Road
Eastwood SA 5063

POSTAL ADDRESS:

PO Box 229
Fullarton SA 5063

TELEPHONE: (61 8) 8274 3758

FACSIMILE: (61 8) 8373 7210

Extractive Industries and
Premixed Concrete Office:

PO Box 243
Henley Beach SA 5022

TELEPHONE: (61 8) 8243 2505

FACSIMILE: (61 8) 8125 5822

TASMANIAN OFFICE:

PO Box 246
Sheffield TAS 7306

TELEPHONE: (61 3) 6491 1509

FACSIMILE: (61 3) 6491 2529

WEBSITE: www.ccaa.com.au

EMAIL: info@ccaa.com.au

Disclaimer: Cement Concrete & Aggregates Australia (CCAA) has developed this brief guide in the interests of promoting safety awareness. It is not, however, a comprehensive safety publication. Various occupational health and safety laws, regulations and standards (OH&S Laws) may apply to the hazard, procedure or matter identified in this publication. CCAA has not conducted a review of applicable OH&S Laws and following this publication does not ensure your compliance with them. It is your responsibility to be aware of and to comply with all applicable OH&S Laws. This publication is not a substitute for proper professional advice.

CCAA respects your privacy. Your details have been collected to provide information on our activities, publications and services. From time to time your details may be made available to third party organisations who comply with the Privacy Act such as affiliated associations, sponsors of events and other reputable organisations whose services we think you may find of interest. If you do not wish to receive information from CCAA or wish to be taken off the database please write to the Privacy Officer, CCAA, Locked Bag 2010, St Leonards, NSW, 1590.

DESIGN:

H₂O Creative Communication

PRINTING:

The Printing Department

01.03.2009