

# **Customer Notification**

# **Concrete Delivery Requirements**

**MARCH 2017** 





At Boral we regard the safety and welfare of our people as our most important responsibility. We are committed to operating our businesses in a manner which ensures that our employees, contractors, visitors and the communities in which we operate are free from harm.

In seeking to meet our zero harm goal, Boral is committed to ensuring the safe delivery of our products and would like to formally draw your attention to our specific Concrete Delivery requirements set out below:

# traffic management

#### Our requirements - for Our Drivers Customer planning Authorised traffic control is to be in place if: Must be satisfied that they have a safe & legal area for the truck to park (i) the truck has to face oncoming traffic while & discharge the load. discharging. (ii) the driver has to discharge the load on a main road or is in a hazardous position (e.g Bend or over the crest of a hill). In this case, barriers & witches hats are required. Safe & legal access for pedestrians: (i) The customer must ensure that when the footpath is crossed or blocked by the trucks discharging that there is safe & legal access for pedestrians. A spotter available at all times to guide the truck into position for discharge. (i) Customers will need to ensure that the spotter is wearing Hi-Vis clothing, is at a safe distance from the truck and is visible to the driver at all times.



#### Our requirements – for Our Drivers Customer planning Cleaning facilities: Have the right to refuse to Customers to provide a wheel wash, enter any site if they believe pressure washer or other means of cleaning that the truck will illegally drag wheels and a area to clean any contaminates contaminants offsite onto a public from the truck before the truck leaves road upon their departure. the site. Are not to wash onto street Wash down of chutes: where contaminants could enter customer to provide a skip or alternative. storm water drains.









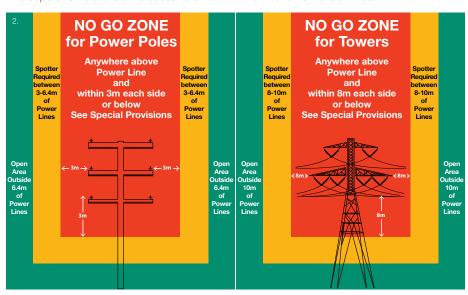
### power lines

Approach distances for work performed by ordinary persons<sup>1</sup>

Phase to phase a.c. voltage (volts)	Approach distance (metres)
Up to and including 33,000 volts*	0.9
33,000 to 132,000	3.0
132,000 to 330,000	6.0
Above 330,000	8.0



- Vehicles driving under power lines
- Trucks discharging while parked under power lines
- Vehicles and personnel passing under power lines that connect a domestic house to power lines. The separation distance increases to a minimum 3m for all other activities.



## cranes, kibbles and booms

#### Our Drivers

Must comply to all PPE requirements and ensure that Kibble is not overfilled.

Are not to wash onto street where contaminants could enter storm water drains.

# Our requirements – for Customer planning

#### Dogman or Spotter -

Our Drivers must not be used as a dogman or spotter.

#### Loading Kibble -

- (i) Customer to ensure truck driver is directed into position for discharging loads.
- (ii) The loading area must be clearly defined and kept free of obstructions and trip hazards.

#### Slewing kibbles -

Slewing of mobile cranes or booms cannot pass over truck - Kibble is to be raised above Agitator height and slewed away from personnel.













#### Source:

1] Work Cover New South Wales - Work Near Overhead Power Lines Code of Practice 2006.

2] www.worksafe.vic.gov.au/\_\_data/assets/pdf\_ file/0014/21704/ngz\_overhead\_power\_lines.pdf

## open trenches & ramps

#### Our requirements – for Customer planning

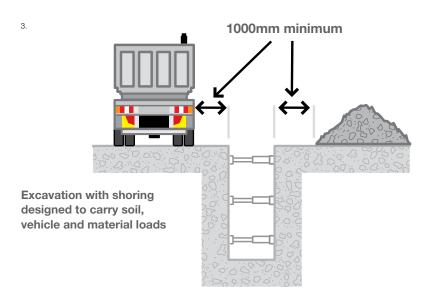
The minimum width for access road should be 3 metres clear of any building materials or debris:

(i) The customer should consider extra width if there are any turns on the access road.

The minimum distance any part of our truck must stay away from an open trench is the depth of the trench plus 1 metre.

This means for example:

- (i) If the trench depth is 500mm deep the truck must stay 1500mm away.
- (i) If the trench depth is 1 metre deep the truck must stay 2 metres away.
- (iii) If the trench depth is 1.5 metres deep the truck must stay 2.5 metres away.

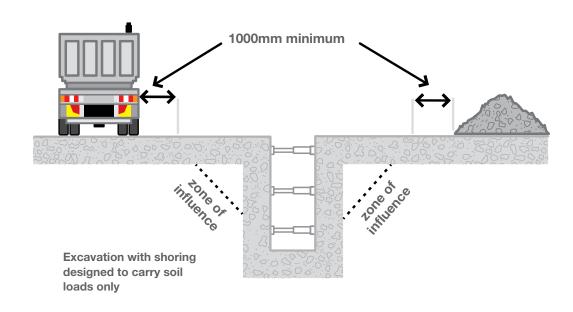












### pumping

#### Our Drivers

Must stand well clear of pump lines and couplings where practicable.

Must wear all required personal

protective equipment:

4. Hi-Visibility vest or shirt

1. Safety Helmet

2. Safety glasses

3. Ear plug/muffs

5. Work gloves6. Steel capped boots

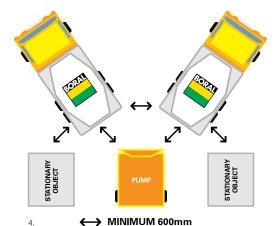
# Our requirements – for Customer planning

#### The concrete pumping area should be:

- (i) reasonably level, solid and free of obstructions, with careful attention paid to positioning of the pumping equipment and any stabilising devices.
- (ii) clear of excavations, trenches or holes in the ground.
- (iii) clear of inadequately compacted or soft ground.
- (iv) clear of cellars, basements, pits or backfilled ground, to allow for the safe discharge of the concrete delivery trucks.

The emergency stop should be visible to the driver and operational crew.

We also require there to be a **600mm** clearance between two trucks simultaneously feeding into pump hopper as demonstrated in the diagram below.



Must never reverse without a spotter in place.

A spotter to assist reversing trucks must be provided by the contractor or pump operator.

We require the provision of a safe location for the spotter, pump operator and truck drivers to prevent them from being caught between the reversing truck and the pump hopper, other trucks or stationary objects.

Must never stand on the pump truck or straddle between the concrete truck and the pump truck.

Our customer must ensure they have a competent person reversing trucks onto the receiving hopper at all times.

The primary chute on concrete trucks should only be moved when the truck is stationary. It is preferable for the truck driver to perform this task. If another worker performs this task then the permission of the driver should be obtained.

The concrete receiving hopper should be at a height that allows a gravity flow of concrete into the hopper.

The pump must be fitted with a secure hopper grate constructed of parallel bars. A grill must be provided to prevent access to dangerous moving parts such as feed or agitator mechanisms and valve gear.









NO ONE SHOULD
EVER BE ALLOWED
OR ABLE TO STAND
BETWEEN A REVERSING
TRUCK AND THE PUMP
OR OTHER NEARBY
STATIONARY OBJECT

#### Source

[4] Cement Concrete & Aggregates Australia 2012, Concrete pumping guide: Western Australia, p. 10, CCAA, Sydney, NSW. http://tinyurl.com/mhetj2l

### pumping cont....

No one should ever be allowed or able to stand between a reversing truck and the pump or other nearby stationary objects.

An emergency stop must be located within easy reach of the concrete truck driver

Safety pins are to be fitted to all couplings an clamps

The boom should not be rotated over trucks or drivers

The delivery hose is to be secured by a safety chain, webbing or cable

Earth straps to be fitted when working near power lines (in accordance with AS 2550)

# blowback – important advice notification

- Blowback into a concrete truck can only occur if;
- 1. a risk based process has been documented, and
- 2. approval has been given by Boral.
- Allowing concrete to be blown back into the agitator barrel is an inherently dangerous
  procedure unless it is carefully controlled. Air pressure can cause anything inside the
  pipeline to act as a high velocity projectile.
- Blowback must occur via a well secured fixed line to prevent "whipping". The steel pipe must extend 600 mm inwards beyond the barrel drip ring.
- Appropriate work platforms must be provided to fit the blowback line
- The pump operator is responsible for fitting the line.
- The driver is to be positioned forward of the pump truck cabin.

### road surfaces & gradients

- Forward road gradients are not to exceed 1 metre high for every 10 metres in length (1:10)
- Cross slopes are not to exceed 1 metre high for every 10 metres in width (1:10)
- The road surface are to be compacted (or able) to sustain;
- 23 tonnes (6 wheeler concrete truck)
- 28 tonnes (8 wheeler concrete truck)
- 32 tonnes (10 wheeler concrete truck)
- Self draining (free from pooled water)
- One way roads are to be 1.5 times the width of the concrete truck with passing bays (a minimum of 16 metre in length and 4 metres wide)
- Two way roads are to be 2.5 times the width of the concrete truck.









Note: Contact your Boral Account Manager in the event you would like to discuss these requirements further.

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