

10 Front End Loader and Forklift Standard

Guiding Principle

- ❖ *Mobile Equipment shall have right of way over all vehicles and pedestrians*

Loader Fed Plant

- ❖ *The FEL working area shall be clearly identified. Access to the area will be restricted and managed for all other vehicles, mobile equipment and pedestrians.*

Other Plants

- ❖ *Where pedestrians and or light vehicles need to approach or work near operating FEL, the site shall develop safe working procedures (Site specific inductions) for approaching or working near FEL.*
- ❖ *Parking: There shall be dedicated parking for FEL & Forklift and these shall be parked in a fundamentally stable position.*

Introduction

Where Front End Loaders and Forklifts operate, there is a risk of collision with pedestrians or other site vehicles.

Controls are required to be developed and implemented to minimise the risk of collisions within the concrete plant. This standard will outline the various controls that shall or should be installed, implemented at concrete plants.

There are mandatory and recommended requirements which sites must either comply with or strongly consider as controls for the reduction of risk in respect to vehicle and pedestrian segregation.


The following Vehicle and Pedestrian Segregation standards should be referenced when developing controls in relation to this standard

- ❑ 05 Vehicle and Pedestrian Interaction
- ❑ 06 Signage
- ❑ 07 Exclusion Zones
- ❑ 09 Vehicle Parking
- ❑ 11 Traffic Management Maps and Plans

General: Front End Loader (FEL) and Forklift

Mandatory




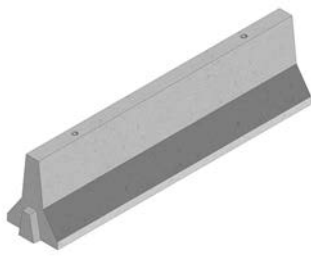
- ☐ All mobile equipment (FEL and Forklift) shall have right of way over all other site vehicles and pedestrians.
- ☐ The site traffic management plan and procedures shall detail the right of way rules on site.
- ☐ Signage shall be installed where required to communicate the right of way rules.
- ☐ Where pedestrians and or light vehicles need to approach or work near operating FEL and Forklift, the site shall develop safe working procedures (Site specific inductions) for approaching or working near FEL and Forklift.

Potential Solutions	
Signage 	Signs such as this clearly communicate the right of way rules on site

Front End Loader (FEL) Fed Plants

Mandatory

- ☐ The front end loader working area shall be clearly identified.
- ☐ There shall be an FEL exclusion zone (Or Restricted Area) identified on site in areas where the FEL operates in the normal course of production; such as stockpile areas for FEL Exclusion Zones must be identified and clearly marked with signage, line marking, or other structures such as gates or barriers.
- ☐ Entry into the FEL exclusion zone shall be controlled
- ☐ Access to this area shall be restricted for entry by all other site vehicles and pedestrians. Controls shall be either permanent barriers or documented procedural controls.

Potential Solutions	
Signage <div> <p>Loader Working Area No Unauthorised Access Without Approval From Loader Operator</p>  </div> <div>  <p>NO ACCESS</p> </div>	<p>Signs such as these can assist to control access into the FEL exclusion zone.</p>
Gates <div>  </div>	Boom gates <p>Boom gates can be used to control entry/exit into out of the FEL exclusion zones</p>
Barriers <div>  </div>	<p>Barriers such as this can be installed to mark the FEL exclusion zone.</p> <p>These barriers can be used for pedestrian walkways where the walkway is in close proximity to the FEL exclusion zone.</p>



Front End Loader and Forklift Parking

Mandatory

- ❑ When not in use, the ignition key for the forklift shall be removed and stored in a secure place.

Recommended

- ❑ For FEL and Forklift parking areas there should be a stop that would hold the equipment in the event of brake failure (that means that the equipment must be parked in a fundamentally stable position).
- ❑ Where this is not possible consider installing wheel humps or using wheel chocks in parking areas to prevent the FEL and Forklift from rolling away.

Potential Solutions	
Wheel Chocks 	<p>Wheel chocks can be used to prevent FEL and Forklifts from rolling away when parked, where the site does not have a fundamentally stable position.</p>
Parked in a fundamentally stable area 	<p>FEL parked with rear wheel in drain. This will assist to prevent a rollaway in the event of a brake failure.</p>

Forklift Loading Product to Special Product Stand Exclusion Zones

During the loading or unloading of special products to the special product stand there is a requirement to implement an exclusion zone which provides segregation between the forklift, pedestrians, vehicles and mobile plant.

- ❑ The exclusion zone in this situation may consist of temporary moveable barriers
- ❑ The exclusion zone shall be clearly marked on the site traffic management map and there shall be documented safe work procedures in place to safely manage activities in and around the exclusion zones.

Loading or unloading delivery vehicles

Mandatory

- ❑ There shall be designated pedestrian exclusion zones for the sole use of the forklift.
- ❑ There shall be a designated driver safety zone located so that the driver is kept away from the line of fire and can be kept under surveillance by the forklift operator at all times. To enhance compliance with these zones, i.e. that the driver remains in them at all times during loading/unloading, it is recommended that they also allow the driver to clearly observe the loading operation. Again these zones should be demarcated in a manner which is fit for purpose for the nature of the loading environment;
- ❑ Clear and effective systems of communication between the operator and the driver which are fit for purpose for the nature of the loading environment and the equipment/vehicles involved, i.e. a system of hand signals

Recommended

Clear rules need to be in place to govern the operation of the loading or unloading area. The rules should include (but not limited to):

- ❑ All personnel other than the forklift operator must not be within the area during the process of loading / unloading.
- ❑ Personnel must remain in the safety zone or be removed to another area by prior agreement with the forklift operator
- ❑ Personnel must not enter the area without the prior authorization of the forklift operator.
- ❑ Upon approval and prior to entry / exit of personnel to the exclusion zone, product / loads must be situated at a level / spacing/distance that cannot make contact with person/s.

- ❑ Upon approval but prior to entry / exiting of the exclusion zone, the forklift must be stationary.
- ❑ No movement of the forklift and people should occur at the same time within the exclusion zone.

Potential Solutions

Established exclusion Zones for Forklift Loading



Temporary Exclusion Zone

Exclusion zone identified and driver safety zone in place.