



Development Review and Coordination

ENGINEERING ADVISORY NOTE

EAN 06

Queuing at Carpark Entrances

Background:

AS 2890.1 Parking Facilities Part 1 Off-street car parking Clause 3.4 requires that queue lengths be considered at the entrance to a carpark whether it be at grade, structured or a basement for residential or commercial facilities. The queuing area to be provided between the vehicle control point [refer clause 1.3.11 for definition] and the property boundary is required to be sufficient for entry of vehicles which will not adversely affect traffic, cycle or pedestrian movement in the road frontage (incl. the verge).

Advice:

TCCS require that all developments meet either the:

1. requirements of AS 2890.1 Parking Facilities Part 1 Off-street car parking Clause 3.4 QUEUING AREAS and Table 3.3, or
2. demonstration of the queuing requirement from first principles including the provision of technical details and performance specifications of proposed control point equipment.

If the first method is adopted, "the capacity of the car park is to be taken as the number of car spaces which are served by each control point lane" and that where there are multiple lanes or access locations to a car park that the number of car spaces is to be proportioned appropriately.

If the second method is adopted, the developer or its consultant shall provide the following as a minimum:

- The type of boom gate/roller door to be installed at the control point
- Complete manufacturer's specification for the gate/roller door to be installed including all operational performance parameters including speed of operation / hourly throughput
- The queuing length required to be provided (in metres) from first principles (including all assumptions such as peak arrival rates)
- The general arrangement of the entrance with dimensions and the location of the boom gate/roller door at the control point

The development will also be audited prior to the issue of a Certificate of Operational Acceptance of the proposed car park access driveway to ensure the gate/roller door installation complies with the details provided and endorsed at the Development Application and the design review stage of the development.

Irrespective of the above calculation the following minimum requirements for queuing between the block boundary and the control point must be met:

- Less than 100 cars in the parking area (served by the control point) 12 metres
- More than 100 cars in the parking area (served by the control point) 18 metres

In designing the entrance to the carpark the balance of AS 2890.1 Parking Facilities Part 1 Off-street car parking is to be complied with, particularly Table 3.1, Table 3.2, Clause 3.3(b), Clause 3.3(c) and the restriction of parking manoeuvres in the queuing area.

The design of carparks for queuing is to be in accordance with the requirements of AS2890.1 and has always been a requirement for developments however has not always been complied with. AS2890.1 and this Advisory Note will be included in future Development Application NODs as a requirement for compliance to be verified at the Development Application, Design Review and Operational Acceptance stages of approval of access to the development.

All carparks currently under design are required to demonstrate compliance with the above.

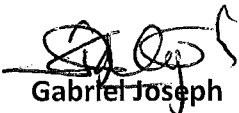
If the client/developer defers the installation of parking controls until after the building is complete this does not diminish the need for compliance with the requirements of AS2890.1 and this Advisory Note and the consultant should advise the client/developer of the physical requirements for meeting the Australian Standard AS2890.1 at a later date should controls be installed.

NOTE: TCCS would like to stress that the queuing length in full must be contained within the property boundary as per the Standard in all cases.

Administrative Arrangement

This EAN is to be used as advice pending update of TCCS standards. It is to add to, and is not to override, any applicable Australian Standard. It takes effect from date of endorsement by the Directors.

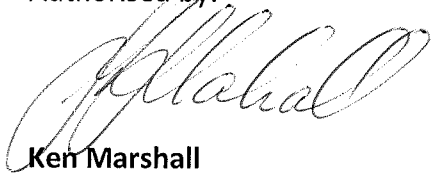
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