

Correct as at 26th April 2026. It may be superseded at any time.

Extract taken from: Alternative fuel system certification > CNG inspection > Location and ground clearances

## 2-7 Location and ground clearances

### Reasons for rejection

#### Mandatory equipment

1. An installation to NZS 5422: 1987, Part 2 does not meet all the requirements in the left-hand column of Table 2-7-1.
2. An installation to AS/NZS 2739: 2003 does not meet all the requirements in either:
  - a) the right-hand column of Table 2-7-1, or
  - b) the left-hand column of Table 2-7-1 of the requirements

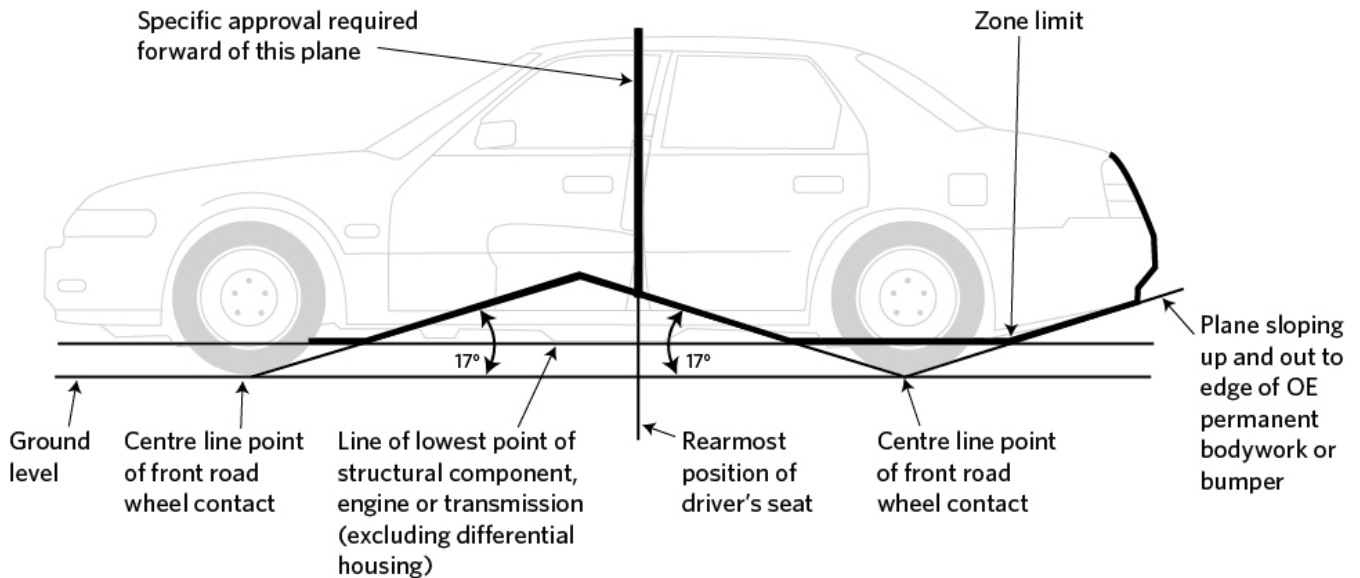
**Table 2-7-1. Location and ground clearance requirements**

Requirements from NZS 5422: 1987: Part 2	Requirements from AS/NZS 2739: 2003
<ol style="list-style-type: none"> <li>1. Cylinders, fittings and pipework must be mounted inside the perimeter of the vehicle.</li> <li>2. Cylinder valves on externally mounted containers must be positioned no less than 200mm from the vehicle extremities.</li> <li>3. A cylinder must not be fitted:               <ol style="list-style-type: none"> <li>a) on the roof or above a passenger compartment</li> <li>b) forward of the rear of the driver's seat in its rearmost position without specific approval</li> <li>c) in a position beneath the vehicle that decreases the effective ground clearance.</li> </ol> </li> <li>4. A cylinder located between or behind the axles must be within the zone limit shown in Figure 2-7-1.</li> </ol>	<ol style="list-style-type: none"> <li>1. A cylinder must lie within the ground clearance zone limits indicated by Table 2-7-2 and Figure 2-7-2 and Figure 2-7-3.</li> <li>2. A cylinder must not be mounted outside the body contour to the front or sides of the vehicle.</li> <li>3. A cylinder must not be mounted outside the body contour to the rear or top of the vehicle without specific approval.</li> <li>4. A cylinder must be located such that its fittings are at least 100mm inside the outer body skin or tray of the vehicle.</li> </ol>

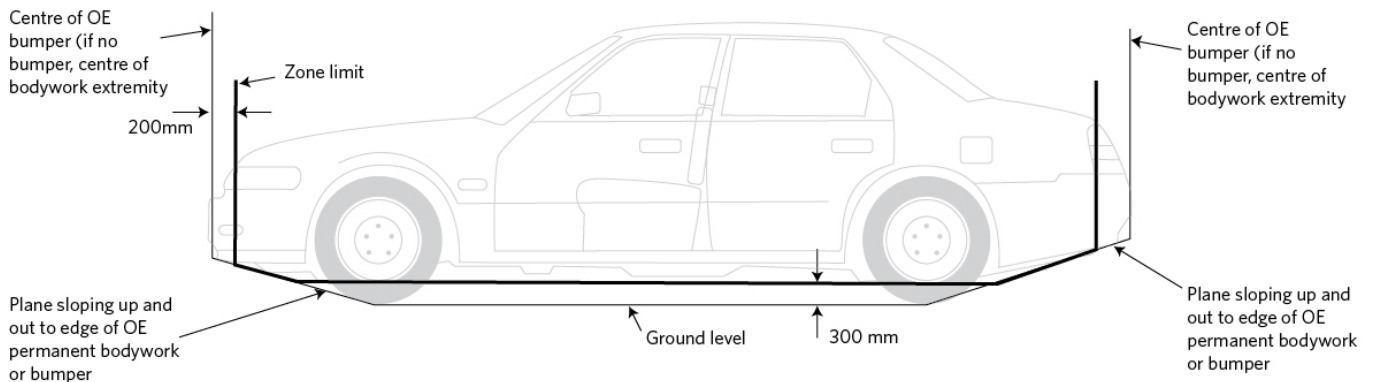
**Table 2-7-2. Ground clearance zone limits (requirements from AS/NZS 2739: 2003)**

Vehicle mass <sup>1</sup>	Chassis ground clearance at rear of vehicle	Figure that shows ground clearance zone limits
Less than 3500kg	610mm or less	Figure 2-7-2
Less than 3500kg	More than 610mm	Figure 2-7-3
3500kg or more	610mm or less	Figure 2-7-2
3500kg or more	More than 610mm	Figure 2-7-3

<sup>1</sup> Unladen mass with fuel, coolant and oil containers full.



**Figure 2-7-1. Zone limit for container location (requirements from NZS 5422: 1987, Part 2)**



**Figure 2-7-2. Ground clearance zone limits for a small vehicle (requirements from AS/NZS 2739: 2003)**

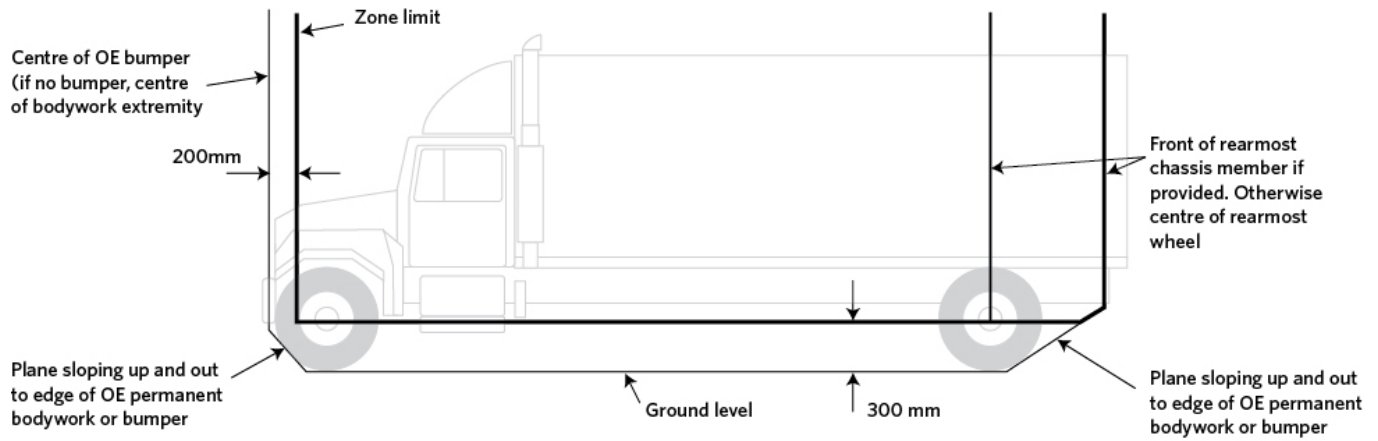


Figure 2-7-3. Ground clearance zone limits for a large vehicle (requirements from AS/NZS 2739: 2003)

## Summary of legislation

### Applicable legislation

- [Land Transport Rule: Vehicle Standards Compliance 2002](#)
- [Land Transport Rule: Vehicle Equipment 2004](#)
- AS/NZS 2739: 2003, section 6.9 and 3.16
- NZS 5422: 1987, Part 2, section 2.3.

### Mandatory equipment

1. Installations to NZS 5422: 1987, Part 2 must meet the requirements in the left-hand column of Table 2-7-1.
2. Installations to AS/NZS 2739: 2003 must meet the requirements in the right-hand column of Table 2-7-1, or if this is not practicable, the requirements in the left-hand column.