

Correct as at 15th May 2026. It may be superseded at any time.

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

## 1-8 Location and ground clearances

### Reasons for rejection

#### Mandatory equipment

1. An installation to NZS 5422: 1987, Part 1 does not meet all the requirements in the left-hand column of Table 1-8-1.
2. An installation to AS/NZS 1425: 2003 does not meet all the requirements in either:
  - a) the right-hand column of Table 1-8-1, or
  - b) the left-hand column of Table 1-8-1 if the requirements in the right-hand column are not practicable.

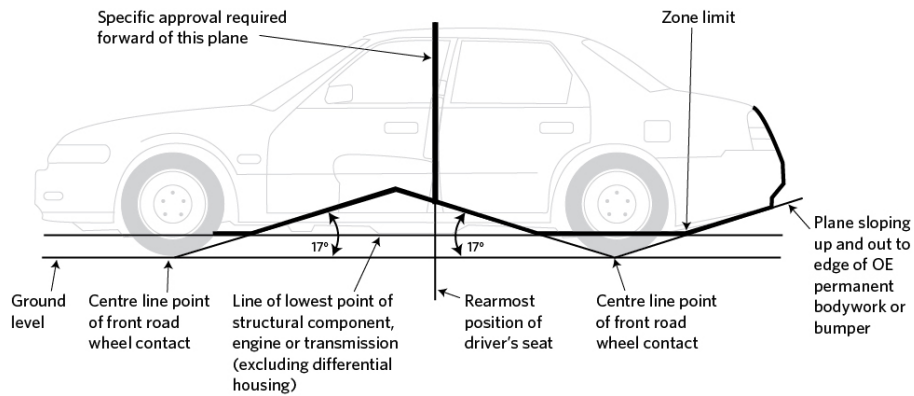
**Table 1-8-1. Location and ground clearance requirements**

| Requirements from NZS 5422: 1987: Part 1   | Requirements from AS/NZS 1425: 2003  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Containers, fittings and pipework must be mounted inside the perimeter of the vehicle.</li> <li>2. Container valves on externally mounted containers must be positioned no less than 200mm from the vehicle extremities.</li> <li>3. A container 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 container located between or behind the axles must be within the zone limit shown in Figure 1-8-1.</li> </ol> | <ol style="list-style-type: none"> <li>1. The whole of a fuel container, compartment and subcompartment must lie within the ground clearance zone limits indicated by Table 1-8-2 and Figure 1-8-2 and Figure 1-8-3.</li> <li>2. A container must not be mounted outside the body contour to the front or sides of the vehicle.</li> <li>3. A container must not be mounted outside the body contour to the rear or top of the vehicle without specific approval.</li> <li>4. A container installed inside a vehicle must not be mounted forward of the rear of the driver's seat in its rearmost position.</li> </ol> |

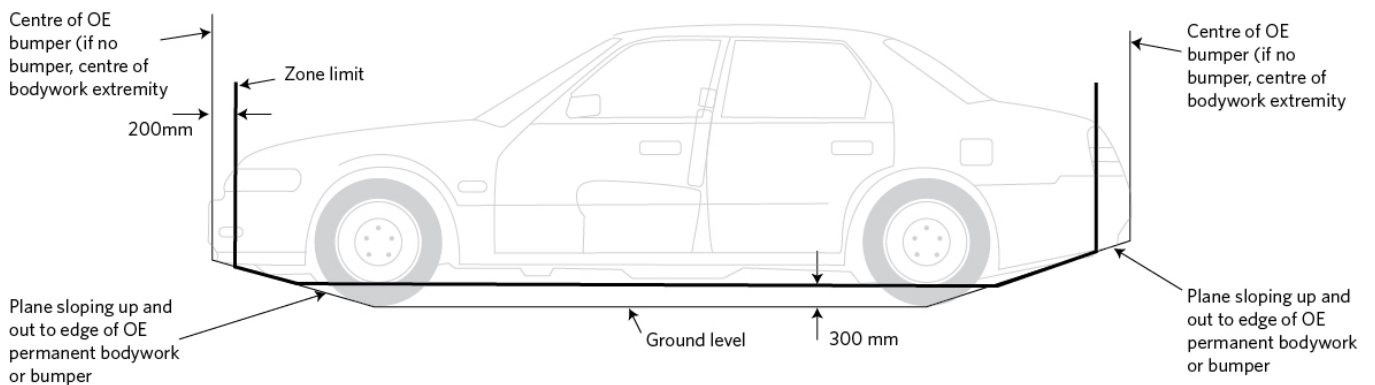
**Table 1-8-2. Ground clearance zone limits (requirements from AS/NZS 1425: 2003)**

| Vehicle mass <sup>1</sup> | Chassis ground clearance at rear of vehicle | Figure that shows ground clearance zone limits |
|---------------------------|---|--|
| Less than 4500kg          | 600mm or less                               | Figure 1-8-2                                   |
| Less than 4500kg          | More than 600mm                             | Figure 1-8-3                                   |
| 4500kg or more            | 600mm or less                               | Figure 1-8-2                                   |
| 4500kg or more            | More than 600mm                             | Figure 1-8-3                                   |

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



**Figure 1-8-1. Zone limit for container location (requirements from NZS 5422: 1987, Part 1)**



**Figure 1-8-2. Ground clearance zone limits for a small vehicle (requirements from AS/NZS 1425: 2003)**

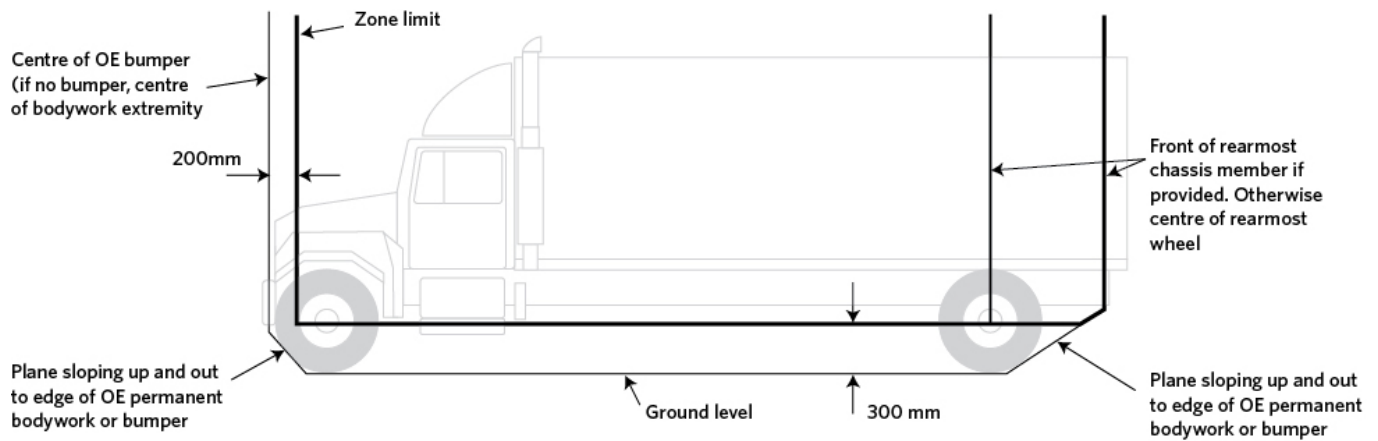


Figure 1-8-3. Ground clearance zone limits for a large vehicle (requirements from AS/NZS 1425: 2003)

## Summary of legislation

### Applicable legislation

- [Land Transport Rule: Vehicle Standards Compliance 2002](#)
- [Land Transport Rule: Vehicle Equipment 2004](#)
- NZS 5422: 1987, Part 1, section 2.3
- AS/NZS1425: 2003, section 6.9.2(o)
- AS/NZS1425: 2003, section 3.19.

### Mandatory equipment

1. An installation to NZS 5422: 1987, Part 1 must meet the requirements in the left-hand column of Table 1-8-1.
2. An installation to AS/NZS 1425: 2003 must meet the requirements in the right-hand column or, if this is not practicable, the requirements in the left-hand column of Table 1-8-1.