

Correct as at 27th June 2026. It may be superseded at any time.

Extract taken from: In-service certification (WoF and CoF) > Tractors > Vehicle exterior

## 2 Vehicle exterior

### 2-1 External projections

#### Reasons for rejection

##### Condition and performance

1. The risk of a component (Note 1) hooking a vehicle, or hooking or grazing a person, has not been minimised.
2. An ornamental object or fitting (Note 2) protrudes in such a way that it is likely to injure a person.
3. A protruding object or fitting that has a functional purpose (Note 2) is fitted in a way that does not reduce the risk of injury to a person.
4. A component, object or fitting is not securely attached to the vehicle.
5. A protruding object or fitting adversely affects the driver's vision or control.

##### Note 2 Definitions

**Ornamental object or fitting** means an object or fitting that does not have a practical purpose, eg bonnet emblems. The external projections requirements relate to the design and maintenance of objects and fittings that protrude from the exterior of the motor vehicle with regard to the safety of other motor vehicles, pedestrians and cyclists.

**Functional object or fitting** means an object or fitting that has a practical purpose, eg counterweights, front-end loader attachments and so on.

#### Summary of legislation

##### Applicable legislation

- [Land Transport Rule: External Projections 2001](#)

##### Permitted equipment

1. A vehicle may be fitted with a protruding ornamental or functional object or fitting.

##### Condition and performance

2. A protruding ornamental object or fitting must not be likely to injure a person.
3. A protruding object or fitting that has a functional purpose must be installed so that the risk of the object or fitting causing injury to a person is minimised.

4. Components of a motor vehicle, including damaged or corroded body panels, must be such that the risk of their hooking a vehicle, or hooking or grazing a person, is minimised.
5. A protruding object or fitting must not adversely affect driver vision or driver control.

## 2-2 Dimensions

The vehicle inspector only need inspect dimensions if there is doubt about the vehicle's compliance.

## Reasons for rejection

### Mandatory equipment

1. A vehicle that exceeds the dimension requirements set out in Table 2-2-1 is not fitted with the appropriate hazard warning equipment set out in Table 2-2-2.
2. A required revolving amber beacon cannot be activated and deactivated.

### Note 1 Definitions

The **rear axis of a vehicle** means:

- if the vehicle is fitted with only one non-steering axle: the centre of that axle
- if the rear axle set includes a steering axle: midway between the extreme non-steering axles of the set.

**Wheelbase** means the distance from the rear axis to the front axis (centre of the foremost axle)

### Note 2

#### Agricultural motor vehicle:

- a) means a motor vehicle that is designed, constructed, or adapted for agricultural purposes, and includes:
  - i) an agricultural trailer, and
  - ii) an agricultural tractor, but
- b) does not include any vehicle that is:
  - i) of a class specified in [section 3-2](#) of the Introduction, and
  - ii) designed or constructed for general road use.

#### Agricultural purpose includes:

- a) land cultivation
- b) growing and harvesting crops (including horticulture and viticulture)
- c) rearing livestock
- d) any land management operation undertaken in connection with the operation or management of a farm.

- Agricultural purpose **does not** include forestry, or any land management operation not referred to in (a) to (d) above.

**Agricultural tractor** means a vehicle that is designed and constructed principally for the purposes of:

- a) towing an agricultural trailer, or
- b) drawing, or powering, an implement ordinarily used for an agricultural purpose.

**Note 3**

Agricultural motor vehicles with excess front overhang (over 4m): Instead of fitting flags or panels, front parts of the vehicle or front attachments may be painted with high-visibility paint.

**Table 2-2-1. Dimension requirements (see Figure 2-2-4)**

| Dimension        | Maximum distance   | Comments   |
|------------------|--|--|
| Width            | <p><b>2.55m</b></p> <p><b>1.275m</b> from each side of the longitudinal centreline of the vehicle</p>  | <p>Measurement does not include:</p> <ul style="list-style-type: none"> <li>• collapsible mirrors which extend no more than 240mm from the <b>side or 1.49m when measured from the vehicle's longitudinal centre line</b></li> <li>• direction indicators and side-marker lamps</li> <li>• cab exterior grab rails that extend no more than 1.325m when measured from a vehicle's longitudinal centre-line</li> <li>• the bulge towards the bottom of a tyre.</li> </ul> |
| Overall length   | <p>12.6m (no tow coupling fitted)</p> <p>11.5m (tow coupling fitted)</p>   | <p>Measurement does not include collapsible mirrors.</p>   |
| Height           | <p><b>4.3m</b></p>   |  |
| Forward distance | <p>9.5m (no tow coupling fitted)</p> <p>8.5m (including tow coupling if fitted)</p>  | <ul style="list-style-type: none"> <li>• Forward distance is measured from the rear axis (Note 1) to the front of the vehicle.</li> <li>• Measurement does not include collapsible mirrors.</li> </ul>   |
| Rear overhang    | <p>Vehicle GVM 3500kg or less: 4m</p> <p>Vehicle GVM greater than 3500 kg:</p> <ul style="list-style-type: none"> <li>• with rearmost axle being a non-steering axle: 4m or 70% of wheelbase (whichever is less)</li> <li>• with rearmost axle being a steering axle: 4.25m or 75% of wheelbase (whichever is less)</li> </ul> | <p>Rear overhang is measured from the rear axis (Note 1) to the rear of the vehicle.</p>   |
| Front overhang   | <p>Rigid non-agricultural motor vehicle: 3m</p> <p>Rigid agricultural motor vehicle: 4m</p>  | <p>Front overhang is measured from the front edge of the driver's seat in the rearmost position to the front of the vehicle.</p>   |

| <b>Dimension</b>  | <b>Maximum distance</b>  | <b>Comments</b>   |
|---|--|---|
| Ground clearance for vehicles with GVM greater than 3500kg. | Minimum is the greater of 100mm OR 6% of the distance from the nearest axle to the point where the ground clearance is measured. | Except when the vehicle is loading or unloading. Items excluded from ground clearance measurement are: <ul style="list-style-type: none"><li>• flexible mudflaps</li><li>• wheels and tyres</li><li>• devices designed to discharge static electricity.</li></ul> |

**Table 2-2-2. Hazard warning equipment requirements for vehicles that exceed the dimensions in Table 2-2-1**

| Vehicle category                      | Dimension  | Limits (up to and including)                           | Required hazard warning equipment  |
|---------------------------------------|--|--|--|
| Category 1                            | Width/forward distance<br><br>(see Figure 2-2-3) | 2.55m /11.4m,<br>or<br>3.1m/10.5m, or<br>3.7m/8.5m, or | Flags <sup>1</sup> or panels <sup>2</sup> fitted on each side at the front and rear as close as practicable to the outside edge (for agricultural motor vehicles with excess front overhang, see (Note 3)).  |
|                                       | Length   | 25m, or  |  |
|                                       | Front overhang                                   | 7m, or   |  |
|                                       | Rear overhang                                    | 7m   |  |
| Category 2 (not including category 1) | Width/forward distance<br><br>(see Figure 2-2-3) | 2.55m /13.3m,<br>or<br>4.5m/8.5m, or                   | <ul style="list-style-type: none"> <li>• Panels<sup>2</sup> fitted on each side at the front and rear as practicable to the outside edge (for agricultural motor vehicles with excess front overhang, see (Note 3))</li> <li>• OVERSIZE sign<sup>3</sup> fitted at the front and rear if more than 3.1m wide</li> <li>• Amber beacon fitted to the cab roof if more than 3.7m wide.</li> </ul> |
|                                       | Length   | 35m, or  |  |
|                                       | Front overhang                                   | 10m, or  |  |
|                                       | Rear overhang                                    | 10m  |  |
| Category 3 (not including category 2) | Width/forward distance<br><br>(see Figure 2-2-3) | 2.55m /20m<br><br>5m/20m<br><br>5m/8.5m                | <ul style="list-style-type: none"> <li>• Panels<sup>2</sup> fitted on each side at the front and rear as practicable to the outside edge (for agricultural vehicles motor with excess front overhang, see (Note 3))</li> <li>• OVERSIZE sign<sup>3</sup> fitted at the front and rear</li> <li>• Amber beacon fitted to the cab roof if more than 3.7m wide.</li> </ul>                        |
|                                       | Front overhang                                   | 10m, or  |  |
|                                       | Rear overhang                                    | 10m  |  |

| Vehicle category                          | Dimension                                    | Limits (up to and including) | Required hazard warning equipment   |
|---|--|------------------------------|---|
| Category 4A<br>(not including category 3) | Width/forward distance<br>(see Figure 2-2-3) | 11m/20m<br><br>11m/8.5m      | <ul style="list-style-type: none"> <li>• Panels<sup>2</sup> fitted on each side at the front and rear as practicable to the outside edge (for agricultural motor vehicles with excess front overhang, see (Note 3))</li> <li>• OVERSIZE sign<sup>3</sup> fitted at the front and rear</li> <li>• Amber beacon fitted to the cab roof if more than 3.7m wide.</li> </ul> |
|   | Front overhang                               | 10m, or                      |   |
|   | Rear overhang                                | 10m                          |   |
| Category 4B                               | Exceeding any limit in Category 4A           |                              | <ol style="list-style-type: none"> <li>1. Panels<sup>2</sup> fitted on each side at the front and rear as close as practical to the outside edge</li> <li>2. OVERSIZE sign<sup>3</sup> fitted at the front and rear</li> <li>3. Revolving amber beacon fitted so that it is visible to approaching traffic if the vehicle is more than 3.7m wide</li> </ol>             |

\* Additional operational requirements may apply, eg if operated at night.

<sup>1</sup> Flags:

- must be fluorescent yellow
- must be at least 400mm long x 300mm wide.

<sup>2</sup> Hazard warning panels:

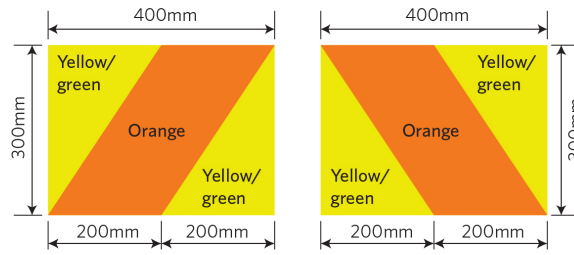
- must be reflective yellow green with a reflective orange diagonal stripe
- comply with AS/NZS 1906.1:2007
- be frangible for those portions which extend beyond the vehicle's limits (frangible means breakable or readily deformable)
- must be of at least the minimum dimensions and the colours specified in Figure 2-2-1
- instead of displaying a hazard warning panel an agricultural tractor with a width exceeding 2.55m but less than 3.1m may instead be fitted with and use an amber beacon when operated on the road.

<sup>3</sup> OVERSIZE sign:

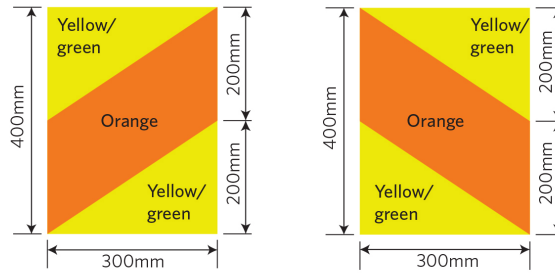
- must be black lettering on yellow-green background
- must be at least 300mm x 1100mm in size
- be frangible if any part of the sign extends beyond the body or load of the vehicle, whichever it is attached to (frangible means breakable or readily deformable)
- may be in two parts: OVER and SIZE.

**Figure 2-2-1. Hazard panel details**

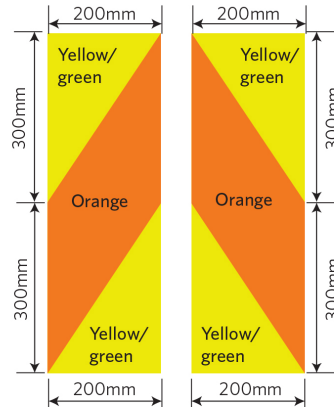
Display these panels



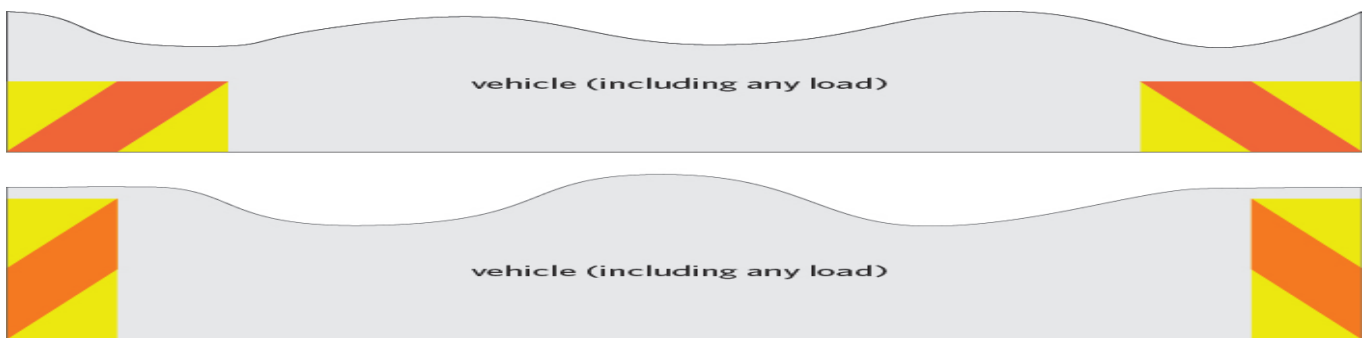
or these panels



or these panels

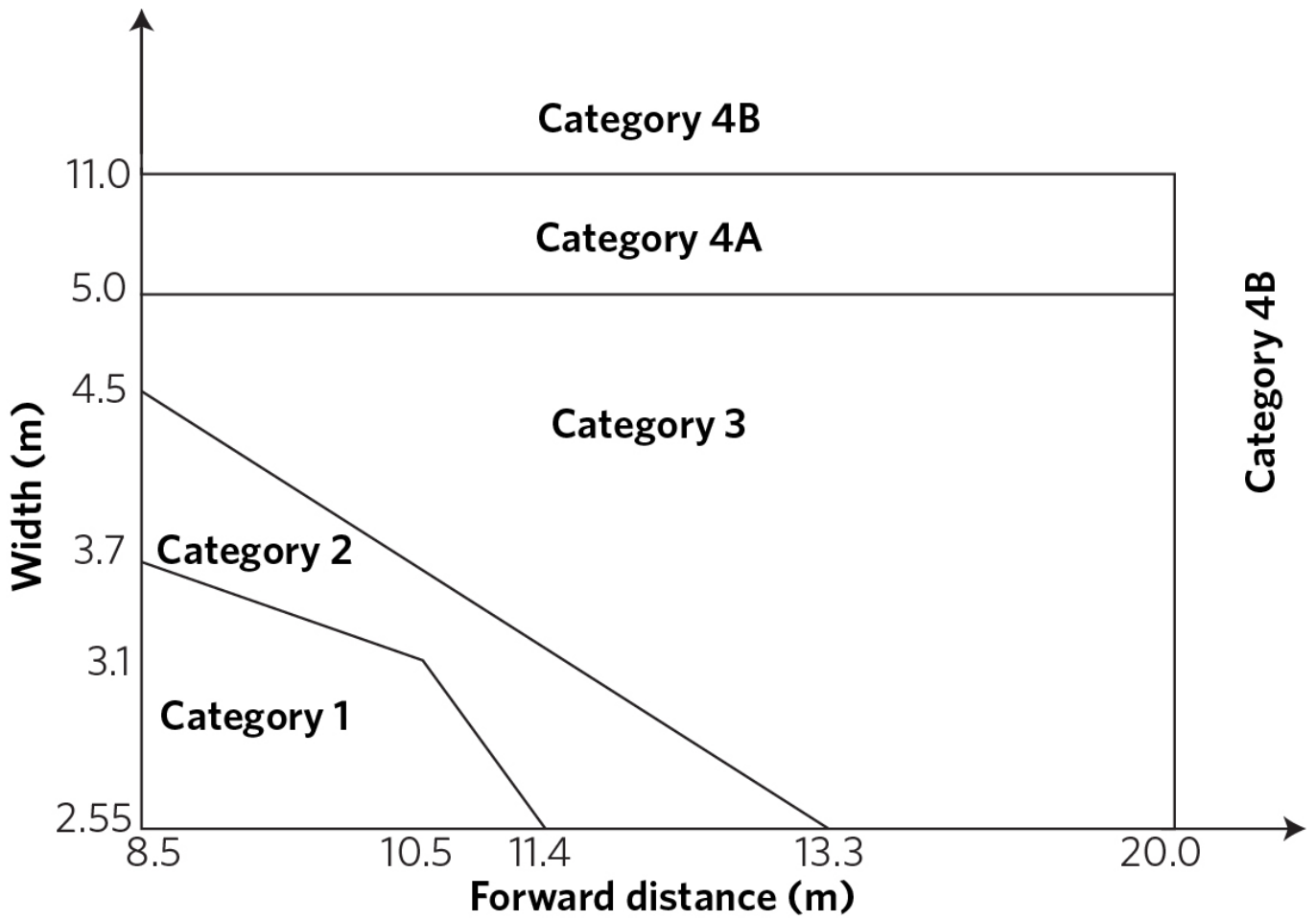


**Figure 2-2-2. Hazard panel location and orientation**



**Figure 2-2-3. Vehicle categories and width/forward distance thresholds**

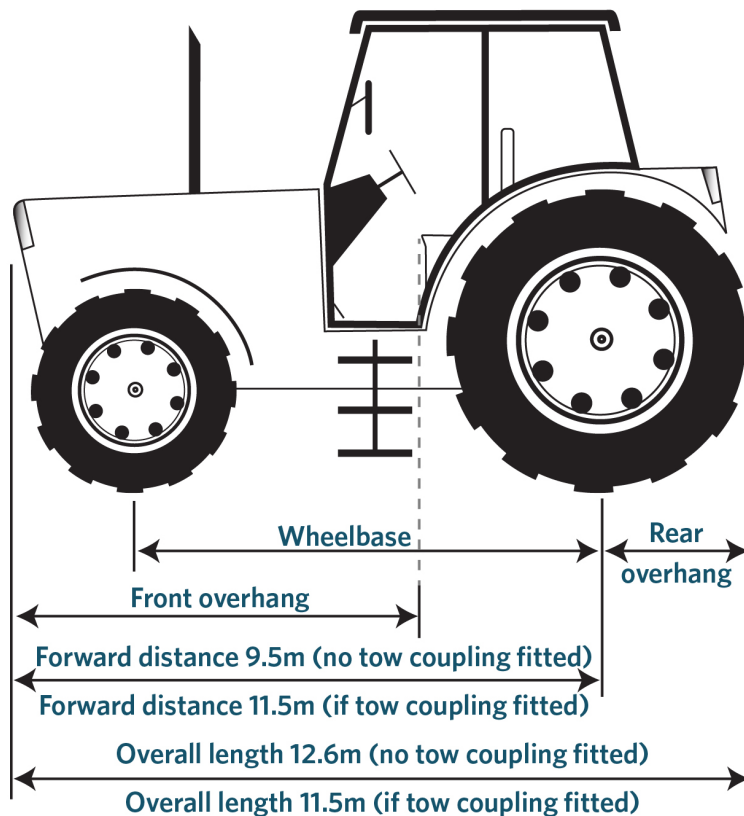
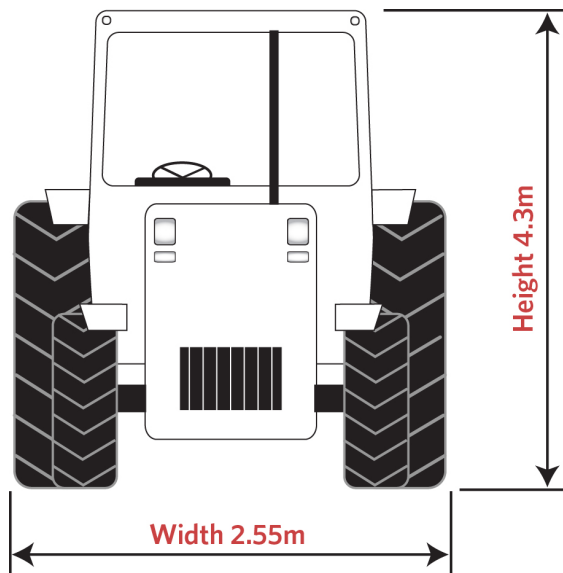
Use this figure to determine vehicle category in Table 2-2-2.



For the purposes of this figure, vehicles with a width less than 2.55m are deemed to have a width of 2.55m and vehicles with a forward distance of less than 8.5m are deemed to have a forward distance of 8.5m.

**Figure 2-2-4. Dimension requirements**

(Note: Dimensions in red updated in VDAM 2016)



#### Front overhang:

- Non-agricultural motor vehicle: 3.0m
- Agricultural motor vehicle: 4.0m

#### Rear overhang:

- For a heavy rigid vehicle with rearmost axle non-steering - the lesser of 4m or 70% of wheelbase
- For a heavy rigid vehicle with rearmost axle steering - the lesser of 4.25m or 70% of wheelbase

## Summary of legislation

### Applicable legislation

- [Land Transport Rule: Vehicle Dimensions and Mass 2016](#)

### Mandatory equipment

1. A vehicle that exceeds the dimensions in Table 2-2-1 must be fitted with the equipment set out in Table 2-2-2.

Page amended **1 June 2019** (see [amendment details](#)).