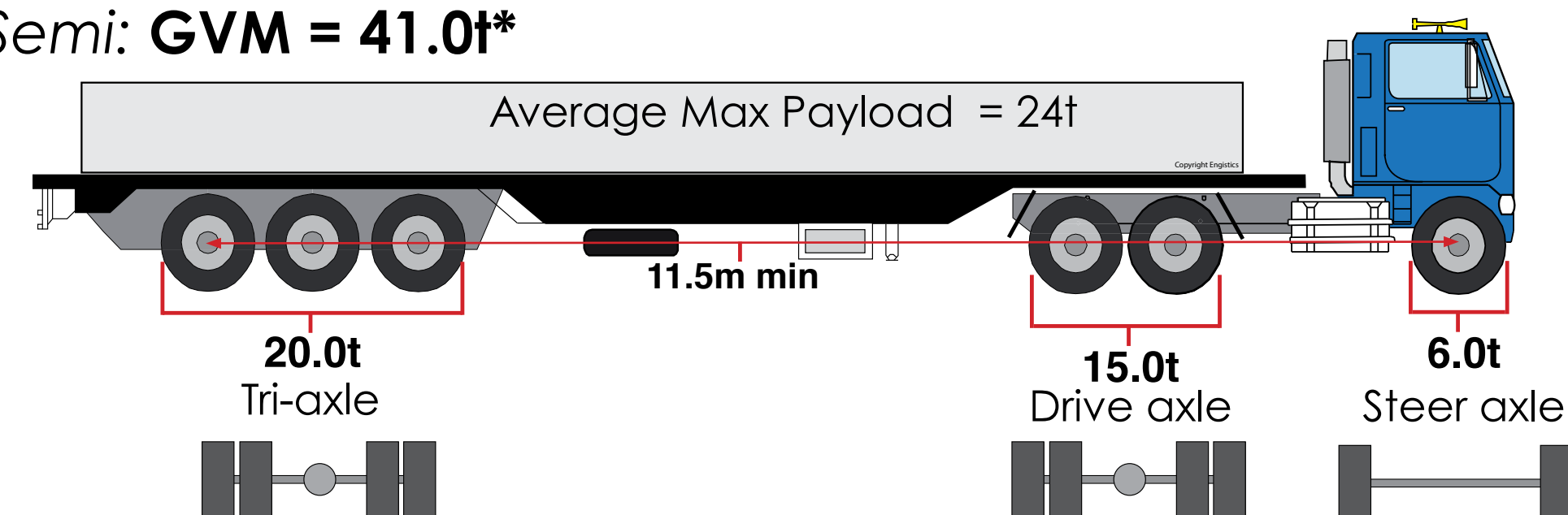


Mass Requirements:

Semi's & B-Doubles:

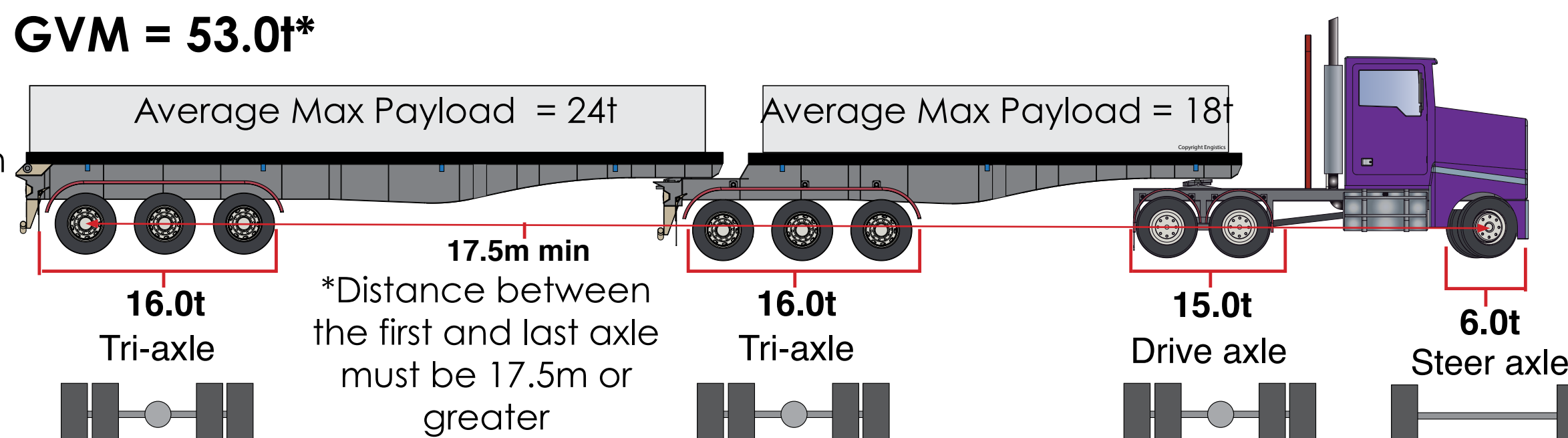
6 Axle Semi: **GVM = 41.0t***



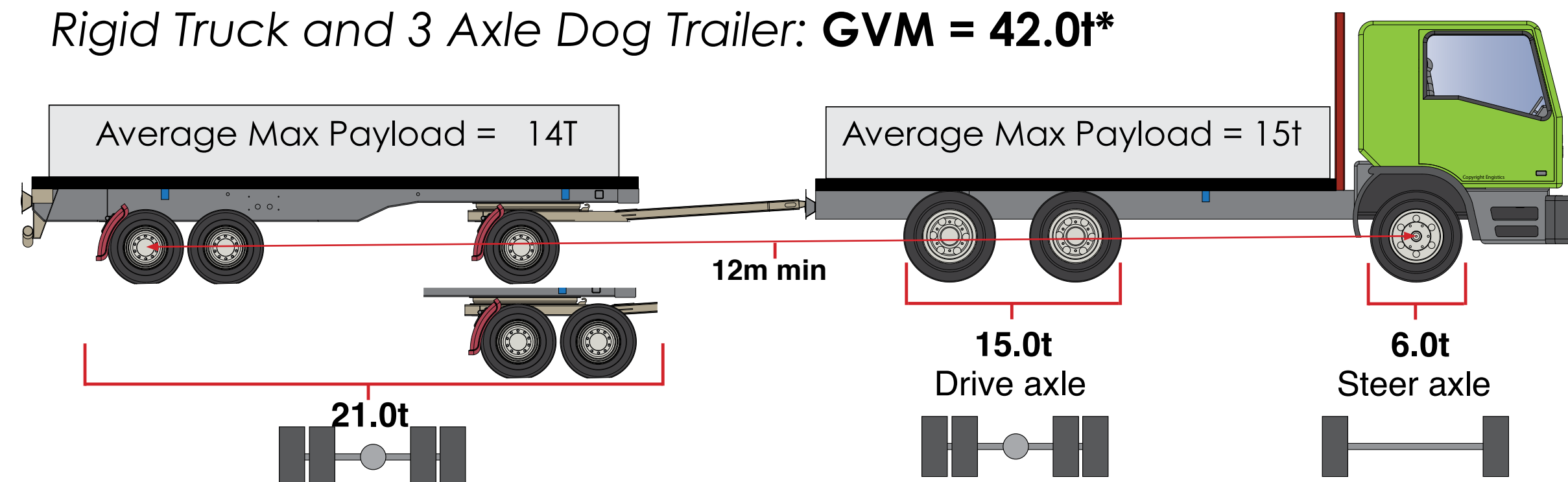
*Distance between the first and last axle must be 11.5m or greater

9 Axle B-Double: **GVM = 53.0t***

- ✓ Ensure even weight distribution where possible
- ✓ Centre heaviest item over Tri-axes where possible



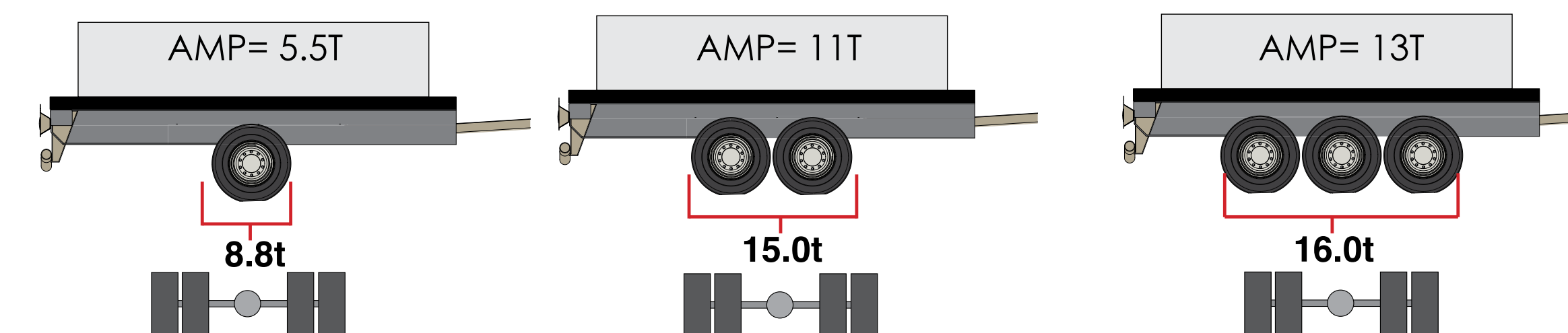
Rigid Truck and 3 Axle Dog Trailer: **GVM = 42.0t***



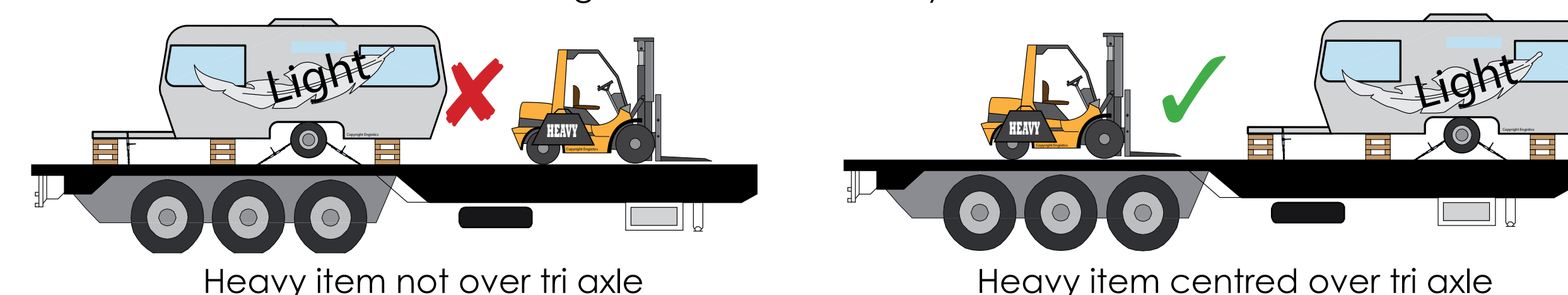
*Distance between the first and last axle must be 12m or greater

*Axle loads are indicative of common dimensions of nominated vehicles, refer to NZ Transport Agency Factsheet 13g for more details around mass limits

Heavy Vehicles

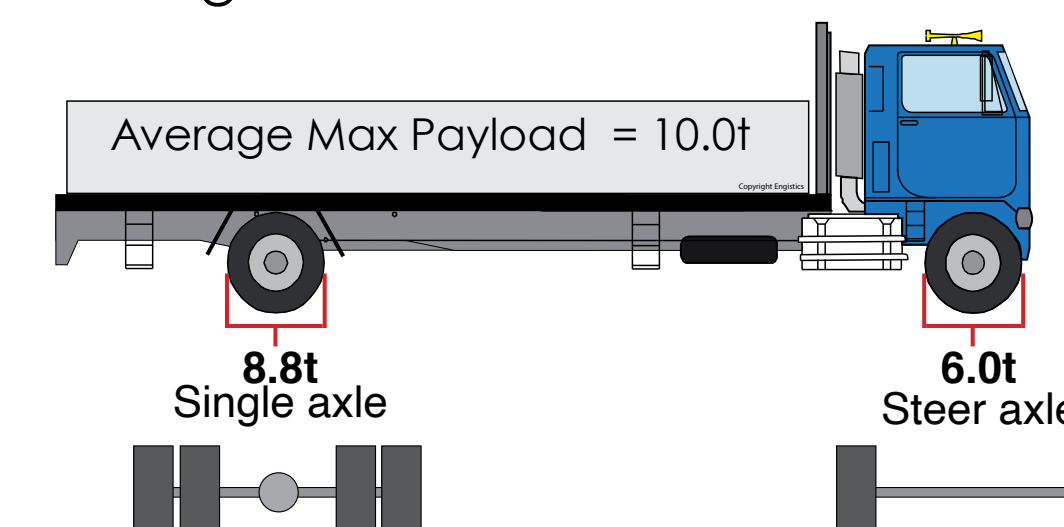


⚠ Large Items are not always the heaviest

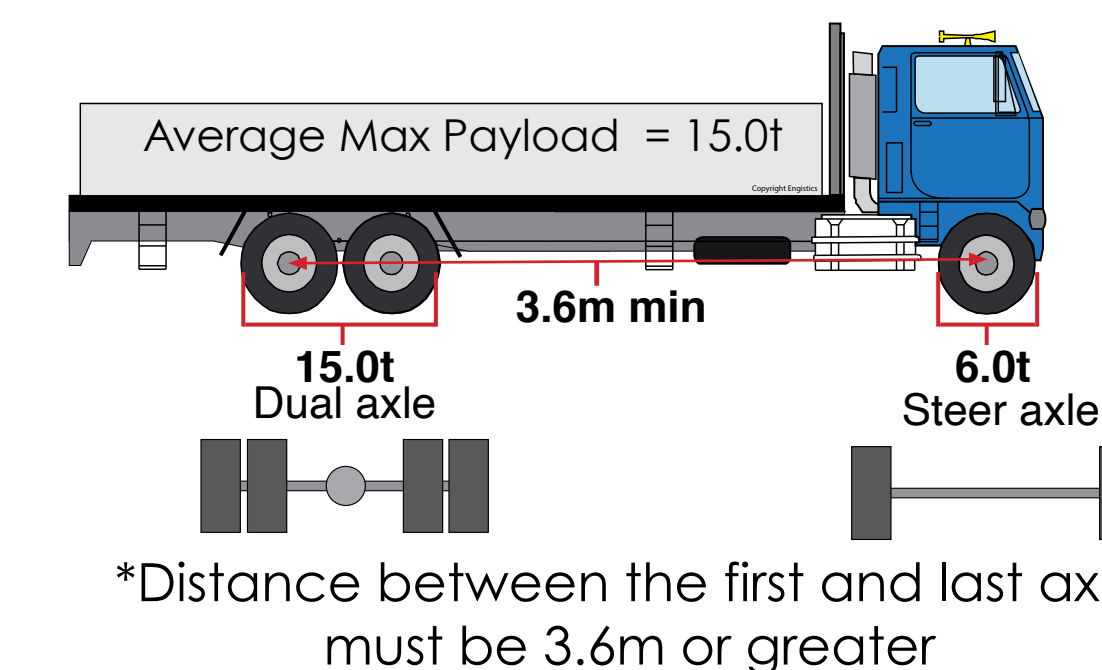


Rigids:

Single Axle: **GVM = 14.8t**



Dual Axle: **GVM = 21.0t***

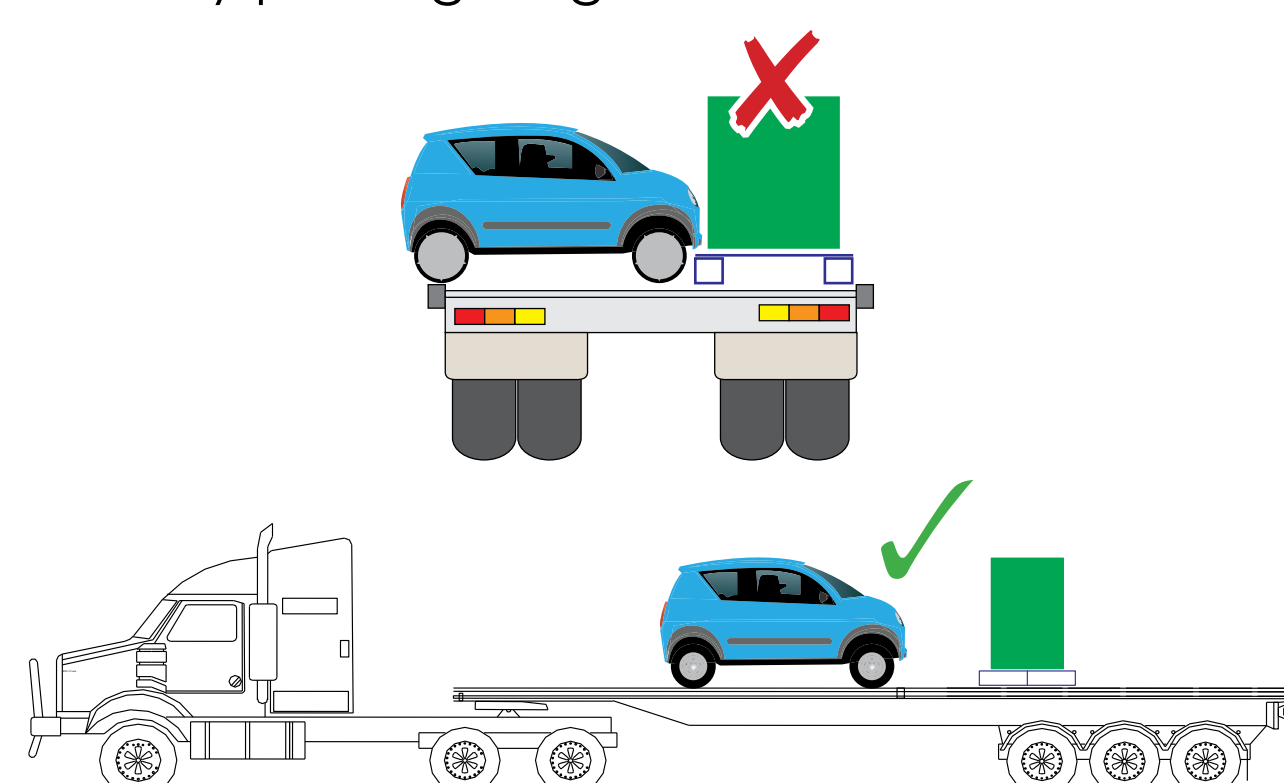


*Distance between the first and last axle must be 3.6m or greater

Dimensional Requirements:

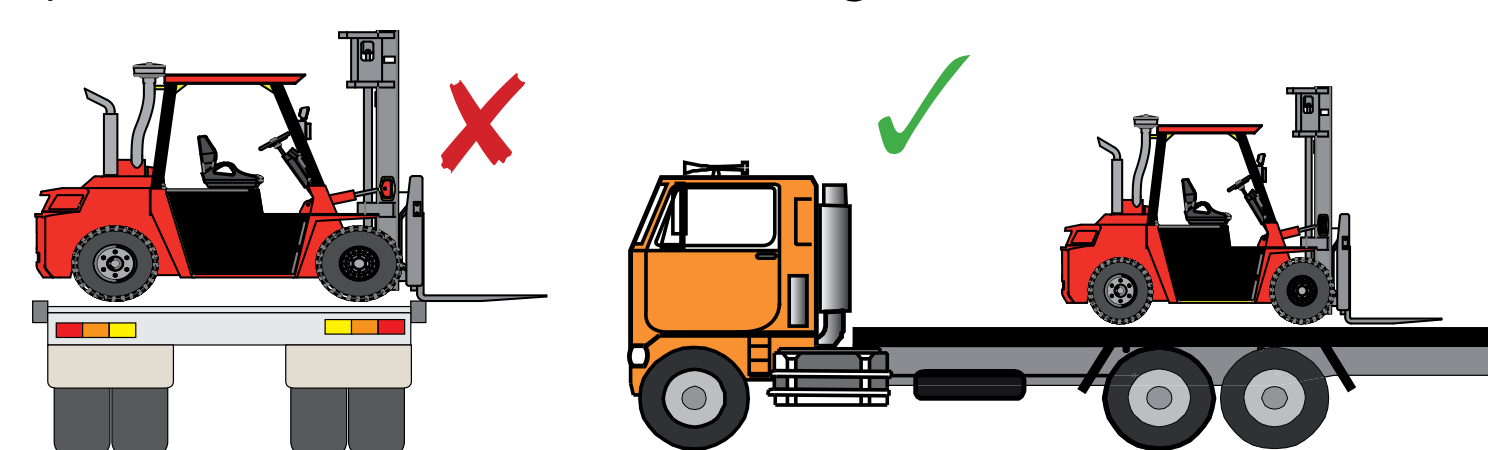
Multiple indivisible loads

Car and pallet loaded side by side exceed trailers width dimensions. By placing lengthwise, avoids this scenario.



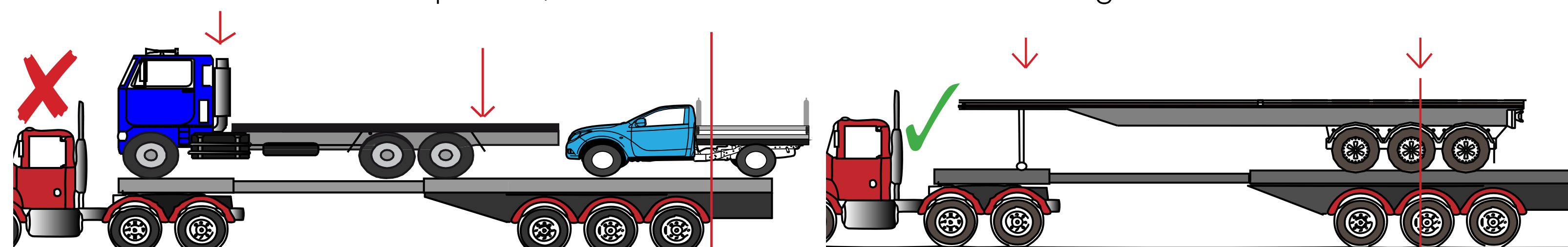
Excess Dimension Width

Large forklift placed sideways on trailer, causing tyres to "stick out", exceeding width dimensions.



Extendible trailer requirements

When using an extendible trailer, it is important to distribute the load as much as possible over the axles, not the beam of the trailer. If this is not possible, remember to de-rate the trailer following the manufacturer's instructions.

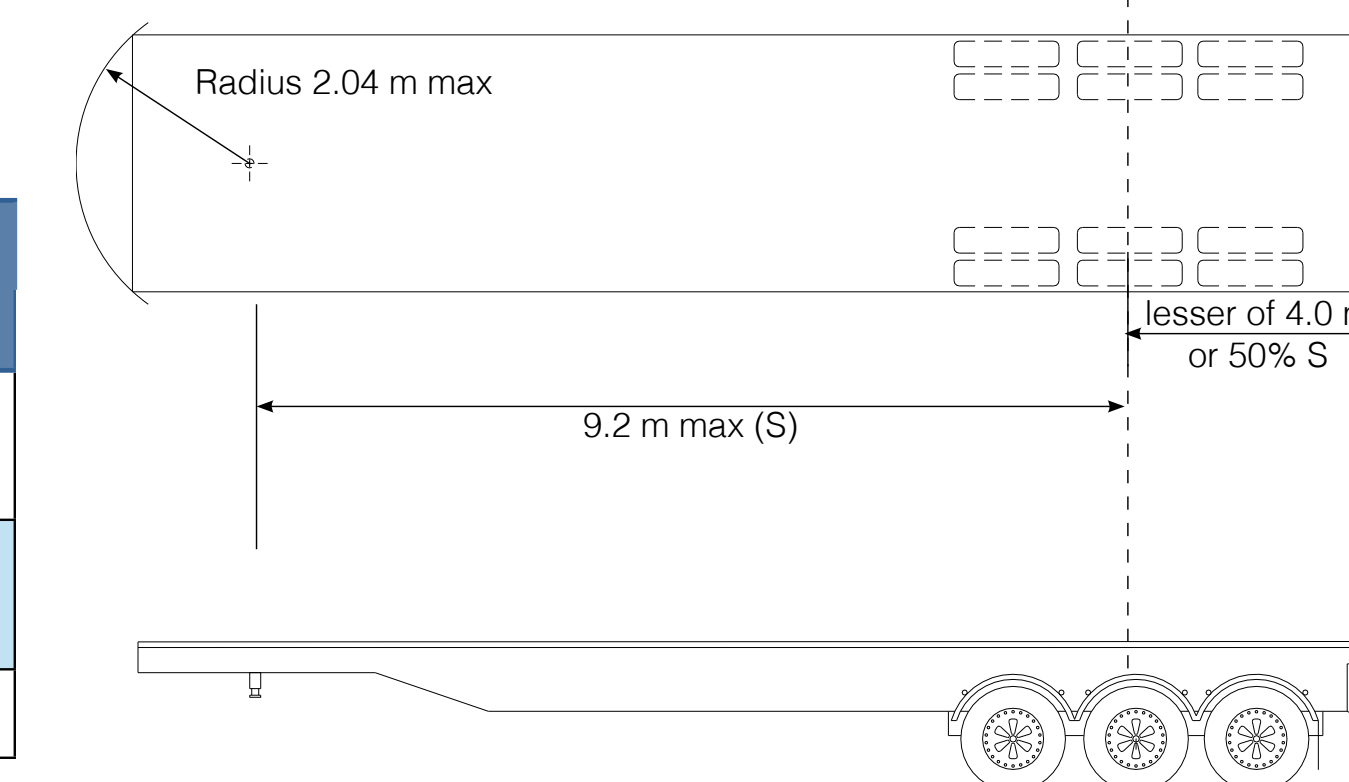
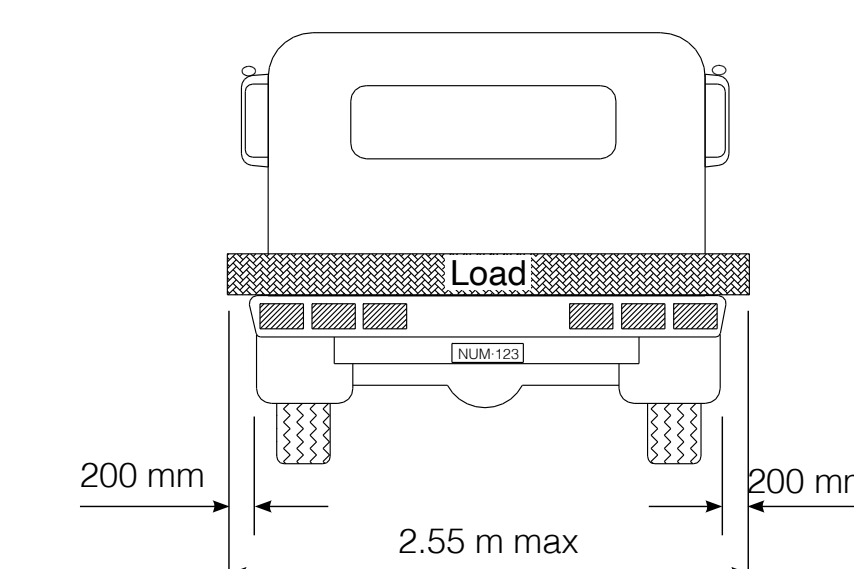


Extendable trailer with load applied on beam and not on the rear axles

Extendable trailer with load applied over the axle areas

Dimension limits per vehicle type

| Vehicle Type | Maximum standard dimension limits (including load) | | | |
|---------------------------|--|------------|------------|--|
| | Width (m) | Length (m) | Height (m) | Rear overhang (m) |
| Rigid truck | 2.55 | 12.6 | 4.3 | Lesser of 4m from rear axis or 70% of foremost axle to rear axis |
| Rigid truck & pig trailer | 2.55 | 22.0 | 4.3 | Lesser of 4m or 50% of tow coupling to rear axis |
| Rigid truck & dog trailer | 2.55 | 20.0 | 4.3 | Lesser of 4m or 50% of front axis to rear axis |



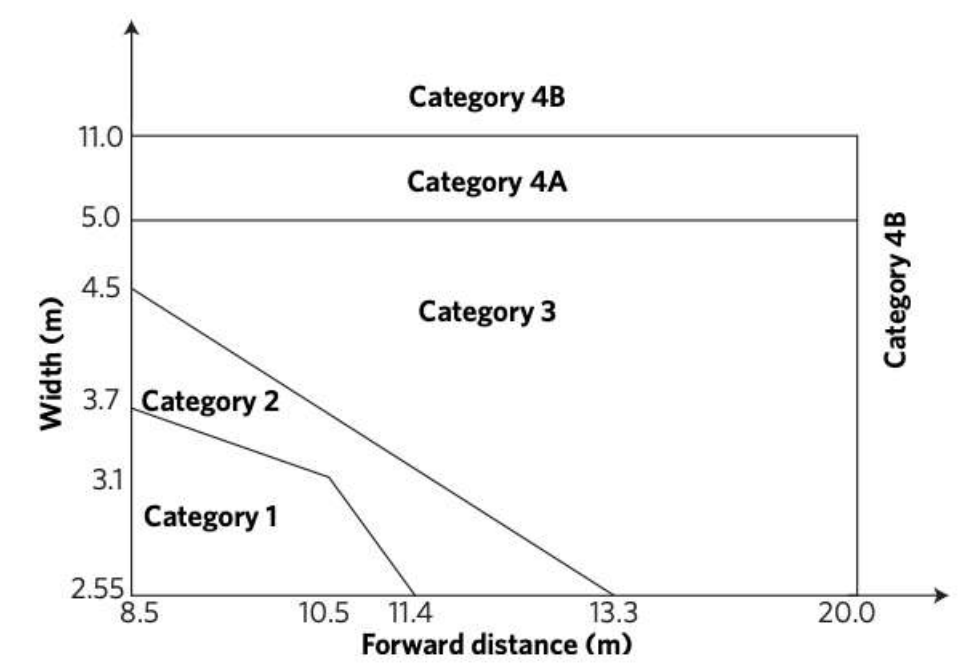
Heavy Vehicles - Overdimension



Requirements for transporting overdimension loads without a permit or pilot

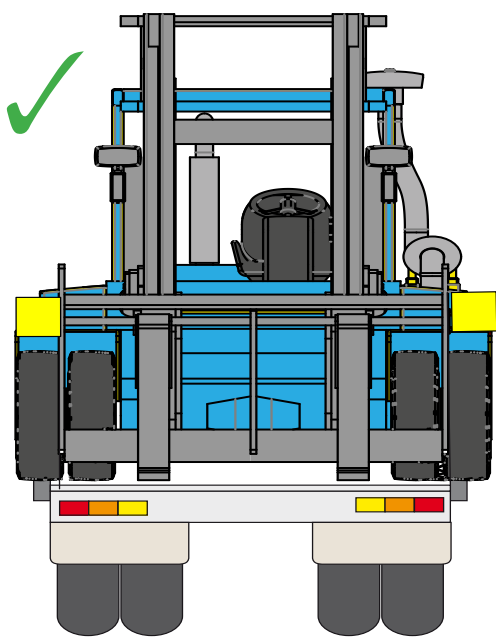
- ✓ Width and forward distance combination are within Category 1 limits, see figure 1 to the right.
- ✓ The load is no higher than 5m (for loads over 4.3m check with local authorities for specific route requirements).
- ✓ The load doesn't have a front overhang or rear overhang greater than 7m.
- ✓ The load isn't longer overall than 25m.
- ✓ Where it is safe to do so, width must be minimised (ie rotate the load to minimise width).
- ✓ Low beam headlights must be on during daytime travel for any overdimension vehicle.
- ✓ Travel time restrictions (curfews) and pilot vehicle requirements may exist. These vary with areas and roads travelled, so check with local authorities.
- ✗ Not all roads are suitable for oversize loads. Check the area of travel for current restrictions.
- ✗ Oversize vehicles must not travel if visibility is less than 350 m.
- ✗ Do not display warning devices unless required to do so.

Figure 1: Determining category, based on width and forward distance

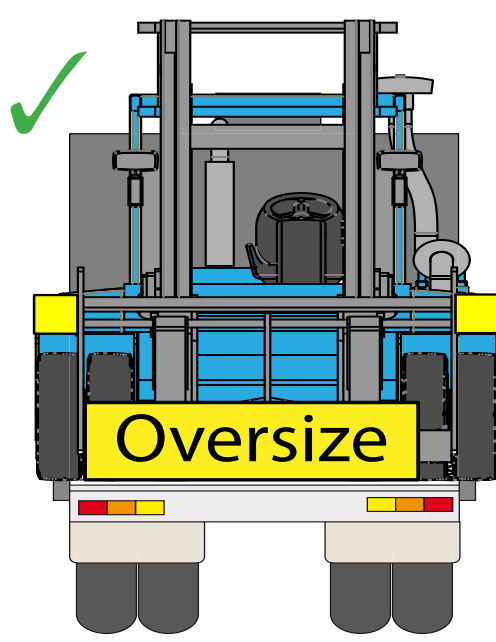


Category 1 Width Requirements

- ✓ Fluorescent yellow flags (at least 400mm long and 300mm wide) must be attached to the sides of the load.
- ✓ Oversize sign to be attached front and rear if load width exceeds 3.1m.
- ✓ Oversize sign to be minimum 1100mm x 300mm.
- ✓ For widths greater than 3.7m please consult NZ Transport Agency Factsheet 53a for additional requirements.



Load width between 2.55m-3.1m
Flourescent yellow flags



Load width between 3.1m -3.7m
Florescent yellow flags and oversize signs

Table 1: Width rules

| | 2.55-3.1m | 3.1-3.7m |
|-------------------------|---|----------------------------------|
| Low beam headlights on | ✓ | ✓ |
| Warning light operating | ✓ (for widths over 2.7m during the hours of darkness) | ✓ (during the hours of darkness) |
| Warning sign | ✓ (front & rear) | ✓ (front & rear) |
| Flags | ✓ | ✓ |

*If travelling during the hours of darkness, the flags must be replaced with retro-reflective yellow-green hazard panels with an orange diagonal stripe conforming to AS/NZ 1906:1:2007

Category 1 Length Requirements

- ✗ Displaying warning devices when not required may result in a fine.

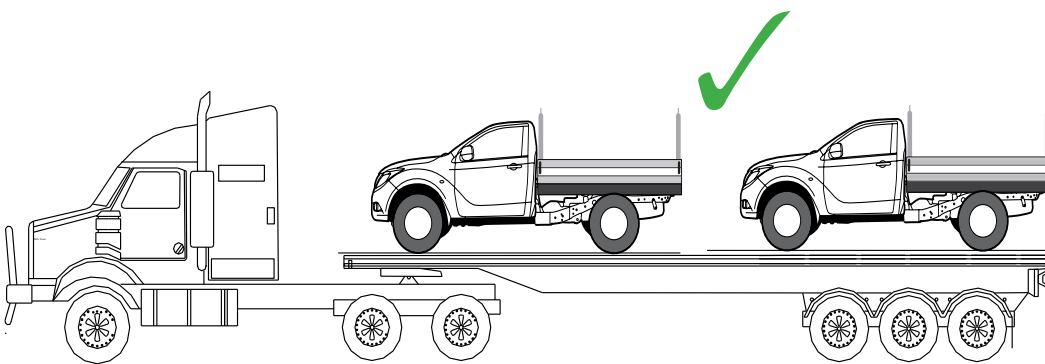
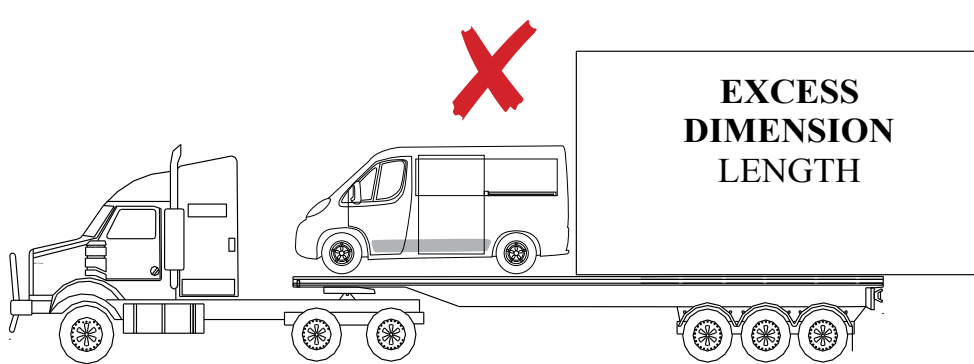
Table 2: Length requirements for warning devices in daytime travel:

| | |
|---|---|
| | |
| Low beam headlights on | ✓ |
| Fluorescent yellow flags (at least 400mm long and 300mm wide) must be attached to the rear of the load* | ✓ |

*If travelling during the hours of darkness, the flags must be replaced with retro-reflective yellow-green hazard panels with an orange diagonal stripe conforming to AS/NZ 1906:1:2007

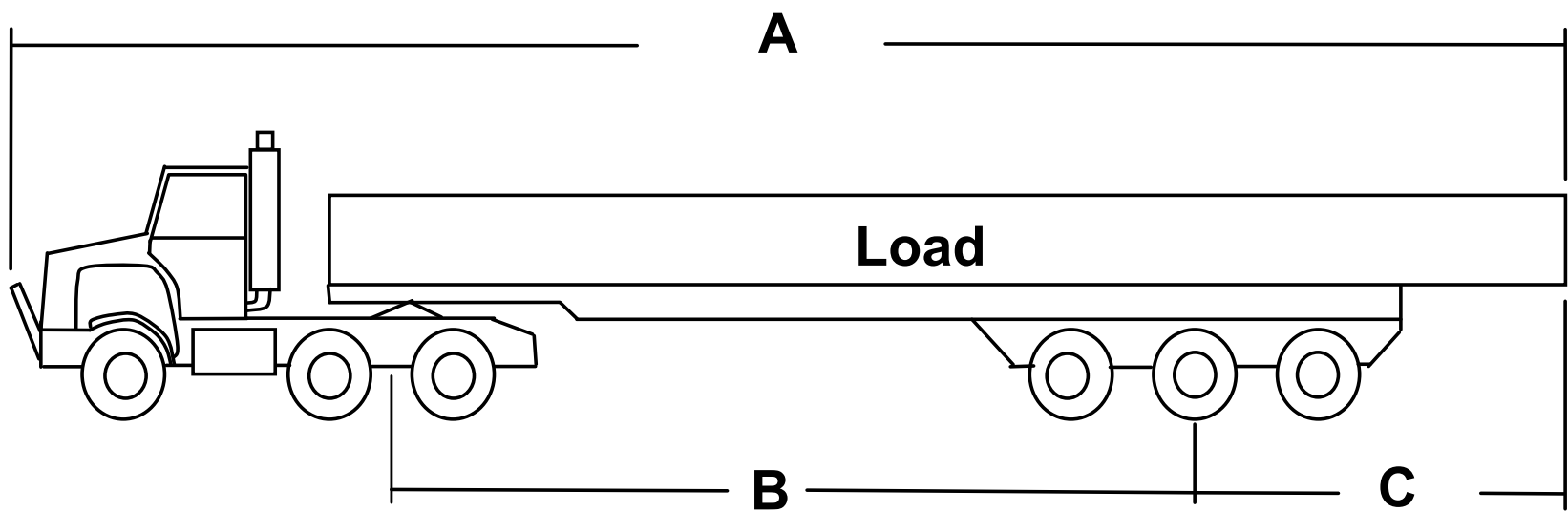
Excess Dimension Length

Indivisible item with excess dimension length creates a large rear overhang. This can be avoided by loading similar length items to reduce potential rear overhang.



Category 1 Rear Overhang Requirements

- ✓ Fluorescent yellow flags (at least 400mm long and 300mm wide) must be attached at the rear of the load if it has excess rear overhang.
- ✓ When travelling during the hours of darkness, the flags must be replaced with retro-reflective yellow-green hazard panels with an orange diagonal stripe conforming to AS/NZ 1906:1 2007.



Rear overhang diagram

Table 3: Dimension requirements

| | |
|--------------------------|---|
| Max length (A) | 25.0m |
| Max forward distance (B) | Up to 11.4m if load is not overwidth, reduces to 8.5m for widths up to 3.7m |
| Max rear overhang (C) | Up to 7m |

Reference:

Land Transport Rule: Vehicle Dimensions and Mass 2016

NZ Transport Agency Factsheets: 13a, 13c, 13g, 53a and 53b

Land Transport Act 1998