Engistics

✓ Ensure even

where possible

Centre heaviest

where possible

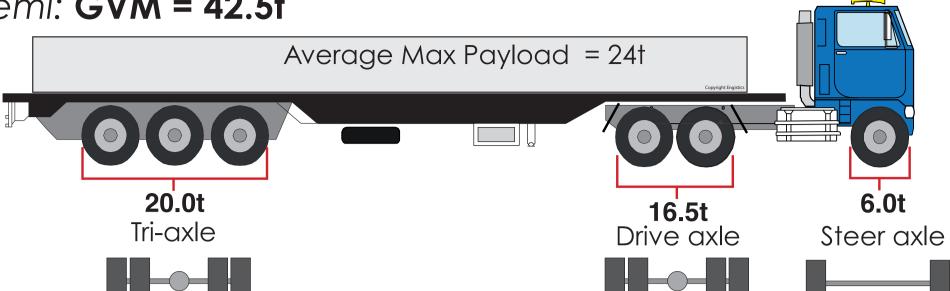
item over Tri-axles

Mass Requirements: Semi's & B-Doubles

6 Axle Semi: **GVM = 42.5**†

9 Axle B-Double: **GVM = 62.5t**

weight distribution



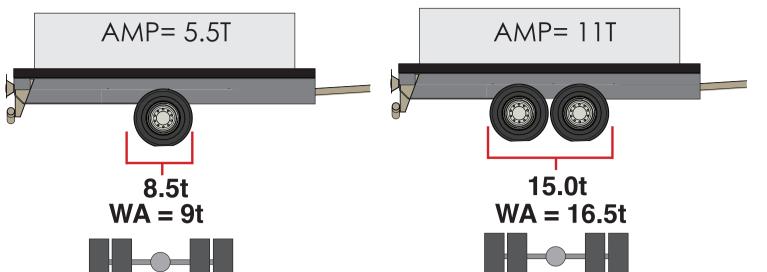
Average Max Payload = 24t

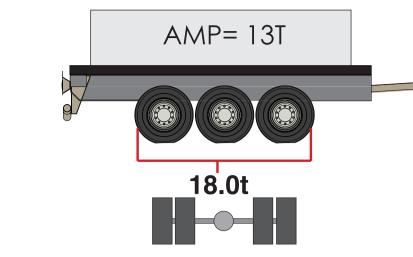
Pig Trailers:

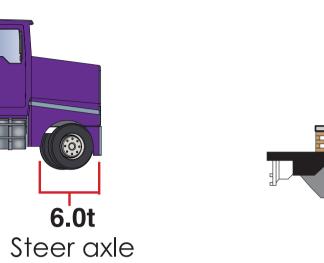
Heavy Vehicles

Manheim

1 Pig Trailers with single tires of at least 375mm section width or dual tires on all axles are rated to 18.0t







Heavy item not over tri axle

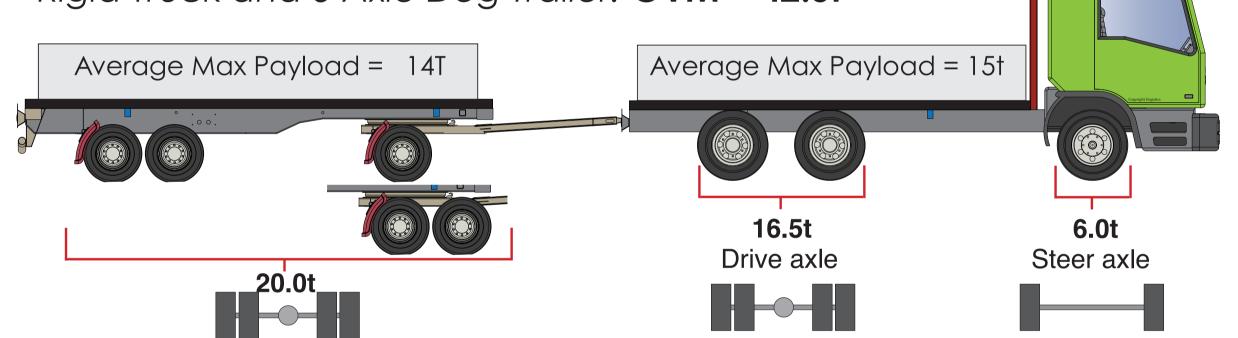


16.5t Dual axle

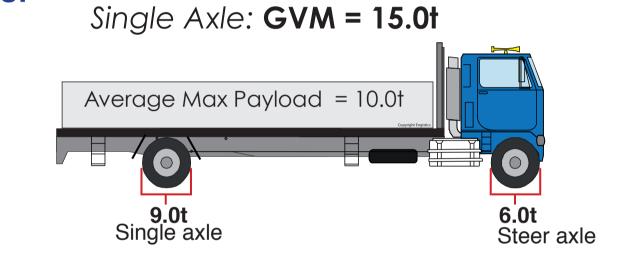
Rigid Truck and 3 Axle Dog Trailer: **GVM = 42.5t**

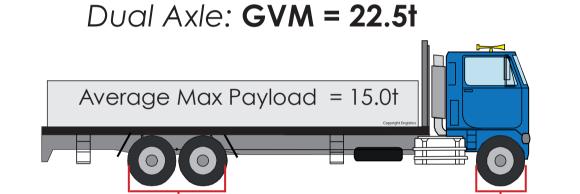
20.0t

Tri-axle



Rigids:



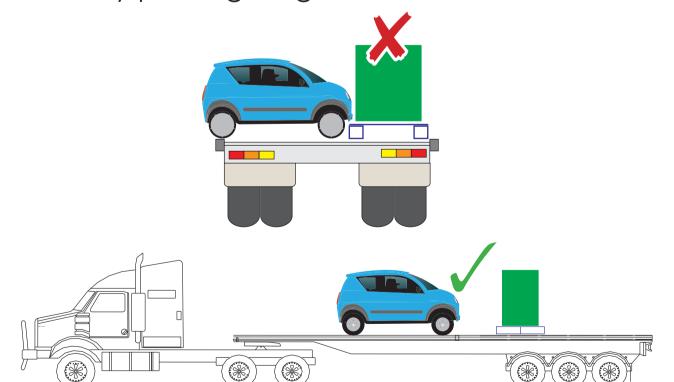


Steer axle

Dimensional Requirements:

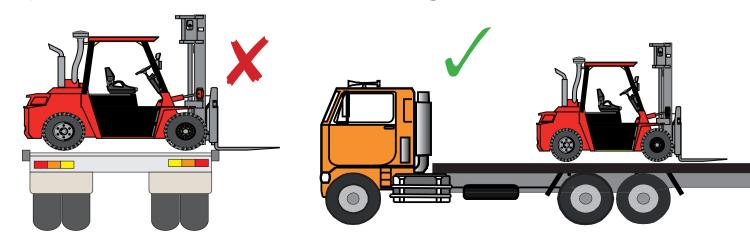
Multiple indivisible loads

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 tynes to "stick out", exceeding width dimensions.



Extendible trailer requirements

16.5t

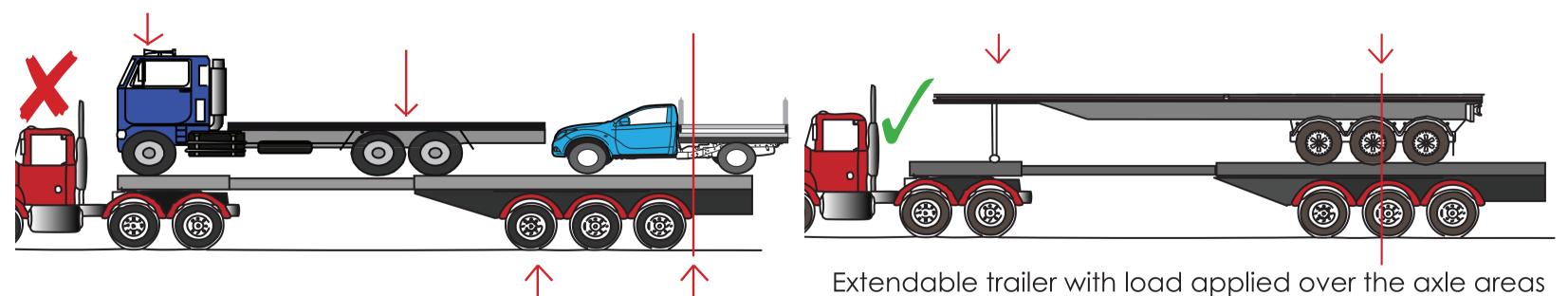
Drive axle

Average Max Payload = 18t

20.0t

Tri-axle

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.

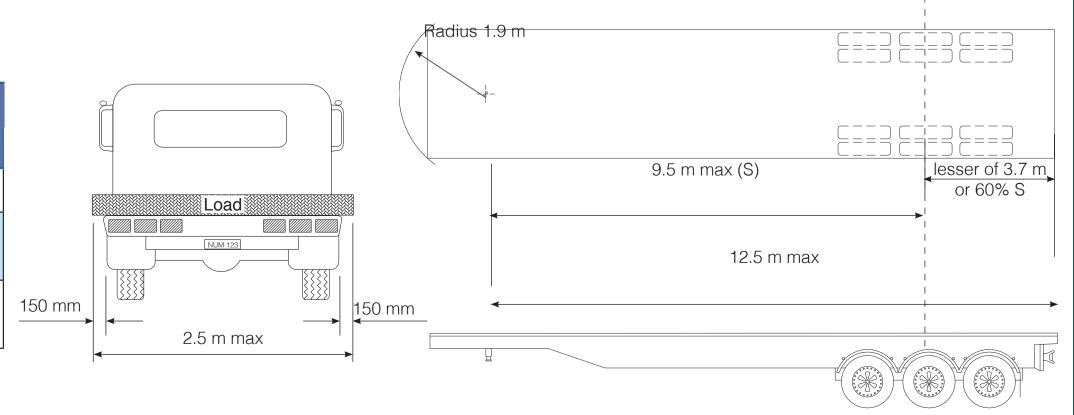


Extendable trailer with load applied on beam and not on the rear axles

Dimension limits per vehicle type: Table 1

Vehicle Type	Maximum standard dimension limits (including load)						
vernicle Type	Width (m)	Length (m)	Height (m)	Rear overhang (m)			
Rigid truck	2.5	12.5	4.3	Lesser of 3.7 or 60% of wheelbase			
Rigid truck & pig trailer	2.5	19.0	4.3	Lesser of 3.7 or front loading space			
Rigid truck & dog trailer	2.5	19.0	4.3	Lesser of 3.7 or 60% of wheelbase			

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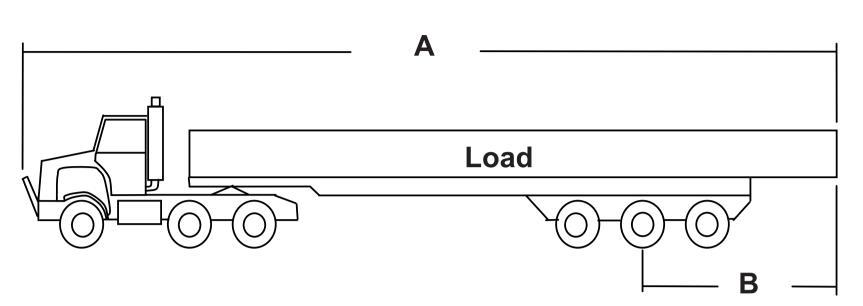
Heavy Vehicles

Dimensional Requirements:

Rear Overhang Requirements

When required, the rear warning sign to be on rear of vehicle, or end of load if overhanging

For semi-trailers, absolute maximum rear overhang (B) lesser of 5.5m or 25% of overall length vehicle (A).



Rear overhang diagram

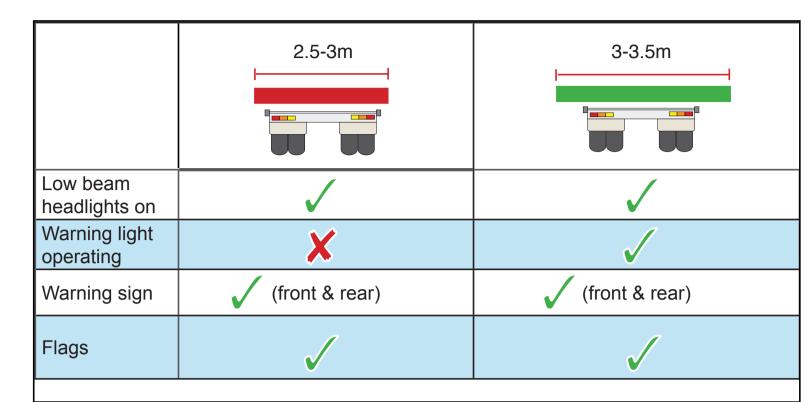
State dimension requirements: Table 2

	States/territories	NSW	NT	QLD	SA	TAS	VIC	WA
ı	Max length/width before pilot	26m / 3.5m	30m / 3.5m	25m / 3.5m	25m / 4.0m	26m / 3.5m	26m / 3.5m	25m / 3.5m
	Max rear over-	5.5m or						
	hang*	25%	25%	25%	25%	25%	25%	25%

^{*}Lesser of this number or 25% of overall length.

Width Requirements

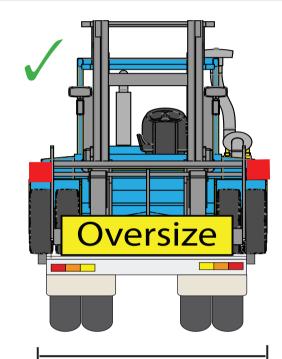
Maximum Width rules: Table 3



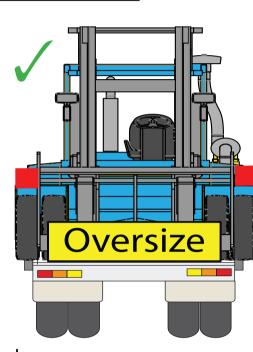
✓ Oversize sign to be attached front and rear if load width exceeds 2.5m

Manheim

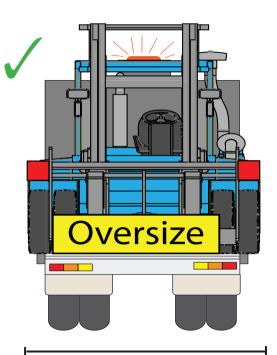
- ✓ Oversize sign to be minimum 1200mm x 450mm.
- For widths greater than 3.5m please consult state specific dimension requirements.



Load width between 2.5m-3m Signals flags



Load width between 3m -3.5m Signals flags



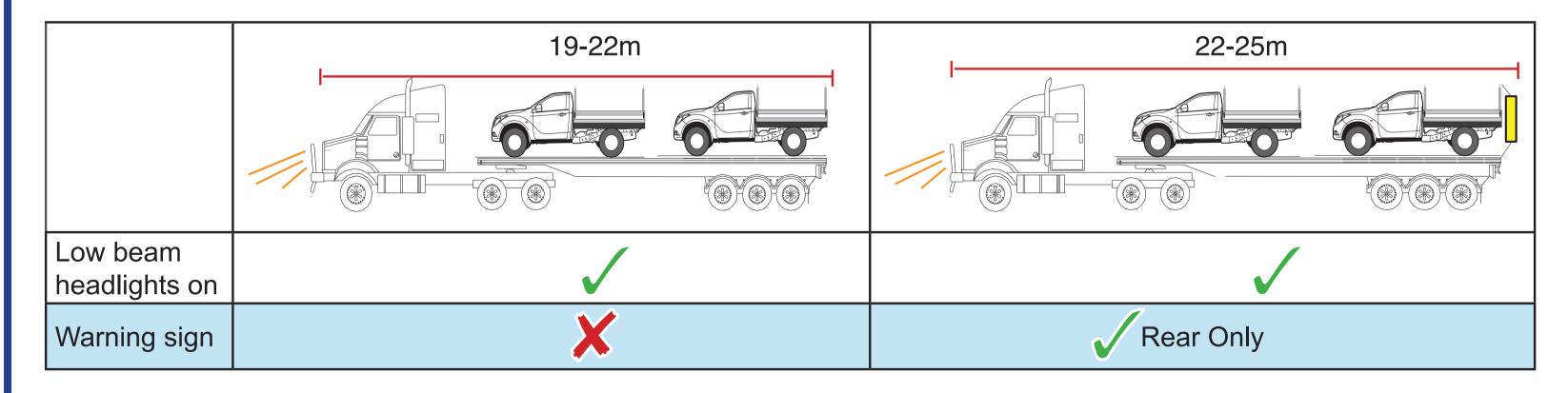
Load width between 3m-3.5m Warning light

Oversize Length Requirements

All states and territories commonalities

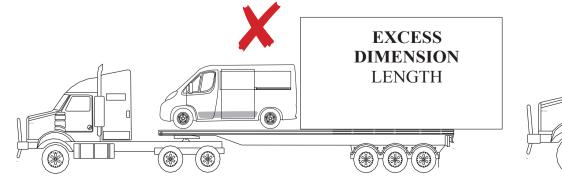
X Displaying warning devices when not required may result in a fine.

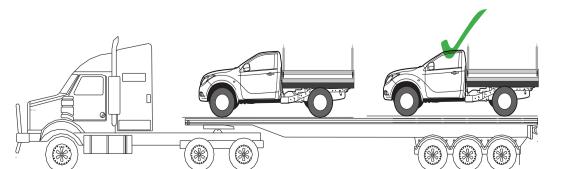
Table 4: Length requirements for warning devices in daytime travel



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.





Common oversize load requirements (all states and territories)

- ✓ A permit and/or gazetted notice must be carried for the relevant state/territory.
- \checkmark Items must be indivisible (ie a single item that cannot be split up).
- Multiple indivisible items may be carried in one load provided that it does not create another oversize dimension.
- 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 oversized length and/or width.
- ✓ 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 250 m.
- No not display warning devices unless required to do so.

Notes:

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- 1 Heavy Vehicles with a GVM over 15 tonnes fitted with specified technologies, including an engine complying with ADR 80/01 (Euro IV), Front Under-run Impact Protection that meets UN ECE Regulation no 93 or ADR 84, and cabin strength that meets the requirements of UN ECE Regulation no 29, are permitted up to 6.5 tonnes on the steer axle provided it does not exceed the manufacturers rating. Allowable GVM/GCM may then also be increased by up to 0.5 tonnes.
- For Western Australian steer axle mass limits please refer to CI-127B Higher Mass Limits for Heavy Vehicles with Single Steer Axles

Reference:

NHVR Mass and Dimensions Limits Regulation

Western Australia Heavy Vehicle Mass and loading requirements Schedule

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