Truelux *For True Luxury*
Australian Made 5th Wheelers

5th Wheel Towing Notes

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The weight of the occupants, luggage, water, etc and the tow vehicle's Kerb Mass are subtracted from the Gross Combination Mass (GCM) to give you the maximum 5th Wheeler Tare Weight that is suitable for your tow vehicle **(GCM - Kerb Mass - Payload)**

Example - to calculate the maximum 5th wheeler Tare Mass that a 6 cylinder, 1 tonne Falcon ute can tow :

Gross Combination Mass of a Falcon	**4875kg**
Kerb Mass of Falcon Ute 1545kg (auto +22kg, tray +115kg, hitch +30kg)	-1722kg
Giving you the Tow Vehicles Gross Capacity	= **3163kg**
Estimate the Combination Payload :	
Occupants (2 people)	+ 160kg
Luggage, bedding etc	+ 100kg
Food, drink etc	+ 50kg
Accessories	+ 40kg
Water (130 lt fresh & grey water)	+ 130kg
Estimated Combination Payload Total	= 480kg
Calculate the maximum 5th Wheeler Tare Mass take (Gross Capacity)	**3163kg**
Less the Estimated Combination Payload	- 480kg
Result is the Maximum fifth wheel Tare Mass that this Falcon can tow	**= 2683kg**

This is based on our own total estimated maximum payload
(your estimate will change according to your personal requirements).

The combined weight of the fully laden tow vehicle & fully laden 5th Wheeler must not exceed the tow vehicle's Gross Combination Mass (GCM).
Do not calculate the GCM, check the vehicles handbook, for example,
the Holden Rodeo TF has a low GCM in relation to its towing capacity and GVM.
The GCM stated in its handbook is 700kg less than the calculated GCM.

The tow vehicle's Kerb Mass should include all accessories and a full tank of fuel.
Some manufacturers only include 15L of fuel ; Commodore & Falcon kerb weight's includes a full tank of fuel.
Don't go by the tare on the rego label – as it doesn't include accesories such as bullbar, tray etc.

20% of the 5th Wheeler weight should be transferred to the tow vehicle (ball weight) and should not exceed your tow vehicle's rear axle rating.

The hitch we use is a 76mm ball rated at 9000kg which is Australian Design Rule approved, it takes up minimal space on the ute and can be unscrewed if needed.
The ball is ideally mounted over the rear axle with 1.2m clearance in front of it;
this allows the 5th Wheeler to be manoeuvred at 90 degrees to the tow vehicle.

Some vehicles have a reduce speed limit when towing – consult the vehicle's handbook.

Maximum dimensions of 5th Wheeler including accessories
(awning, lights, air conditioner etc) : width 2.5m (8'2") height 4.3m (14'1').
If these are exceeded you need a flashing amber light on your cab and an 'oversize' placard on your caravan, trailer or 5th Wheeler.

Glossary

Kerb Mass = Weight of unladen tow vehicle with accessories fitted and full tank of fuel.

Gross Capacity = Tow vehicle's carrying capacity.

Combination Payload = Actual weight of luggage, water, food, goods, occupants etc. in 5th Wheeler & tow vehicle.

Gross Vehicle Mass (GVM) = Maximum allowable tow vehicle weight fully laden.

Gross Combination Mass (GGM) = Maximum allowable combined weight of tow vehicle, 5th Wheeler and payload.

Tare Mass = Weight of unladen 5th Wheeler, unhitched.

Aggregate Trailer Mass (ATM) = Maximum allowable 5th Wheeler weight, fully laden, unhitched.

Gross Trailer Mass (GTM) = Maximum allowable 5th Wheeler weight, fully laden, hitched. (Not including ball weight).

Ball Weight = Weight the 5th Wheeler transfers to tow vehicle.

This is provided as a guide only !
Please check with vehicle manufacturer for it's suitability as a tow vehicle.

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