Amber Organisation

www.amberorg.com.au 1800 022 363



Brooke Marshall
Principal – Renewable Energy Assessments
NGH Consulting
Suite 11, 89-91 Auckland Street
Bega NSW 2550

Ref: 043 8 March 2022

Issued via email: brooke.m@nghconsulting.com.au

Dear Brooke

Wollar Solar Farm - Modification Assessment

Amber has been asked to review a proposed modification to the Wollar Solar Farm. The modification would allow the following changes to the construction activities of the project:

- Amend the definition of AV/B-Double to align with industry standard limits;
- Amend the approved limits on AV/B-Double movements per day without increasing the overall heavy vehicle movements;
- Amend the approved number of oversize and overmass (OSOM) vehicle movements during construction, operation, and decommissioning;
- Update the estimated maximum number of construction workers required for the project; and
- Amend the site transport routes for OSOM vehicles.

These modifications represent a change to construction, upgrading and decommissioning activities assessed as part of the original Traffic Impact Assessment and as such, a revised assessment is provided to determine whether the proposed changes are acceptable and whether any amendments are required to the road network.

1. AV/B-Double Definition

The definition of an AV/B-Double vehicle outlined within the development consent is:

'An articulated vehicle that has a combined Gross Vehicle Mass or Aggregate Trailer Mass of up to 42.5 tonnes'

The National Heavy Vehicle Regulator (NHVR) is Australia's regulator for heavy vehicles and provides specifications for the permitted General Mass Limits (GML) for heavy vehicles. The national heavy vehicle mass and dimension limits specified by NHVR are provided within Appendix A.

The permitted GML for a B-Double vehicle (Common 9 Axle B-Double) is 62.5 tonnes. As such, it is proposed to amend the definition of an AV/B-Double to allow B-Doubles to operate in line with the permitted GML provided by NHVR. The proposal would amend the definition to state:



'An articulated vehicle that has a combined Gross Vehicle Mass or Aggregate Trailer Mass of up to 62.5 tonnes'

The Traffic Impact Assessment had assessed the B-Double vehicle based on the weight limits provided by NHVR. As such, the amendment does not change the conclusions of the traffic report and is instead expected to allow the operation of B-Double vehicles as intended.

2. Heavy Vehicle Traffic Generation

The permitted number of heavy vehicle movements within the Development Consent is:

'development does not generate more than:

- 26 AV/B-double vehicle movements a day during construction, upgrading, and decommissioning;
- 46 medium and/or heavy rigid vehicle movements a day during construction, upgrading, decommissioning'

Wollar Solar Development are seeking to amend the condition to state:

'development does not generate more than:

- 36 AV/B-double vehicle movements a day during construction, upgrading, and decommissioning;
- 72 total combined medium and/or heavy rigid vehicle movements and AV/B double movements a day during construction, upgrading, decommissioning

The amendment would subsequently increase the number of AV/B-Double vehicles that are able to access the site per day but would not increase the maximum number of heavy vehicle movements per day.

The access route by AV/B-Double vehicles has previously been assessed within the Traffic Impact Assessment as being suitable to accommodate AV/B-Double vehicles. It has also been assessed as being able to accommodate the traffic volumes generated by the solar farm which is not expected to change. As such, it is considered that the conclusions of the Traffic Impact Assessment remain valid, and the proposed amendment is expected to result in a negligible change to the road network.

It is noted that Wollar Solar Development have advised that the use of additional AV/B-Double vehicles is expected to allow a reduction in the overall number of trucks that are required to access the site, subsequently reducing the overall traffic volumes on the road network.

3. OSOM Movements

It is proposed to increase the permitted number of OSOM vehicle movements from 10 to 60 over the life of the project. Wollar Solar Developments has liaised with its contractors (Transgrid and Sunterra) who have confirmed the following OSOM movements are required over the life of the project:

- 3 OSOM movements for delivery and pick up of earthwork plant for construction of the Stage 2 Northern Access Road; (Already complete)
- 12 OSOM vehicle movements for construction of the Stage 3A Substation;
- 26 OSOM vehicle movements for construction of the Stage 3B Solar Farm;

043 Let 220324 Final Page 2



- At least 2 OSOM vehicle movements to upgrade the Solar Farm; and
- At least 14 OSOM vehicle movement during the decommissioning of the Solar Farm and Substation.

It is understood that 15 of the OSOM vehicle movements would require a pilot escort and the remaining 42 OSOM vehicle movements are less than 3.5m wide and less than 40 tonne. No more than 2 OSOM vehicle movements are proposed to occur on any day. As such, the proposed Condition is as follows:

'development does not generate more than:

- 2 over-dimensional vehicle movements a day or more than 60 overdimensional vehicle movements in total during construction, upgrading and decommissioning'

OSOM vehicles are subject to specific road permits that will be applied for by the contractor once the dimensions of the load and the specific delivery vehicle are known. The vehicle movements will be spread across the project construction period and typically occur outside of peak times to minimise disruption to the road network.

The increase in OSOM vehicle movements is expected to have a minimal impact to the operation of the road network with any impacts able to be managed through traffic management measures that will be confirmed at the time of applying for the individual permits.

4. Construction Workers

It is understood that it is proposed to increase the maximum number of construction workers on-site from 320 to 400. The construction workers are proposed to be transported to the site via shuttle buses and the number of shuttle bus movements is not expected to change from what was assessed within the Traffic Impact Assessment. As such, the proposal is not expected to result in any impact to the road network.

5. Access Route

Wollar Solar Development propose to add an addition access route for OSOM vehicles to Condition 3 in the event the existing permit routes are not suitable. The proposal would add the following to Condition 3:

'(c) If over-dimensional vehicles are unable to use the above routes owing to the load rating of any bridge, then they must travel to and from the site via Golden Highway, Castlereagh Highway, Old Mill Road, Rouse Street, Station Street, Cope Road, Robinson Street, MacKay Street, Main Street, Ulan Road, Ulan-Wollar Road, Barigan Street, Maitland Street, Wollar Road and Barigan Road or any other route approved via a permit granted by the National Heavy Vehicle Regulator under the Heavy Vehicle National Law (NSW).'

OSOM vehicles are subject to specific road permits that will be applied for by the contractor once the dimensions of the load and the specific delivery vehicle are known. The route would be required to be assessed based on the proposed OSOM vehicle with any impacts able to be managed through traffic management measures that will be confirmed at the time of applying for the individual permits.

6. Conclusions

Based on the above assessment, the following conclusions are made:

043 Let 220324 Final Page 3



- The increased permitted weight of AV/B-Double vehicles aligns with the specifications of NHVR and allows these vehicles to operate as intended with no impact to the road network;
- The proposal to increase the number of AV/B-Double movements permitted per day, but not the
 overall truck movements per day, is expected to result in a negligible change to the road network
 given the roads have been assessed as appropriate to accommodate these vehicles, and the
 amendment is expected to result in an overall decrease in truck movements;
- The increase in construction workers is expected to have no impact to the road network with all staff able to be accommodated within the existing shuttle buses proposed to be used during construction and decommissioning; and
- The proposal to increase the number of OSOM vehicles and provide an additional alternative transport route, which is only to be used in the event the other routes are not suitable, will be assessed based on the individual vehicles as part of the permit application process and can be managed through traffic management measures to ensure there is a minimal impact to the operation of the road network.

Overall, the proposed amendments to the permit are expected to have a minimal impact to the operation of the surrounding road network.

If you have any questions please feel free to contact the undersigned.

Yours sincerely

Amber Organisation

Michael Willson Director

WM

043 Let 220324 Final Page 4

Appendix A

NHVR Specifications



National heavy vehicle mass and dimension limits

Heavy Vehicle National Law

The Heavy Vehicle National Law (HVNL) provides General Mass Limits (GML), Concessional Mass Limits (CML) and Higher Mass Limits (HML) for heavy vehicles operating on the national road network. This fact sheet summarises the conditions for operating general access and restricted access vehicles, relating to axle mass and configurations.

High productivity vehicles, such as B-doubles and HML vehicles are important to the efficiency of the freight task in Australia. The larger capacity of these vehicles also reduces the number of vehicles required to transport a given amount of freight.

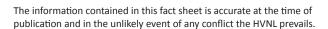
National heavy vehicle dimension requirements

The prescribed dimension requirements for heavy vehicles are set out under the *Heavy Vehicle (Mass, Dimension and Loading) National Regulation 2013 (the Regulation)*.

The information contained within this fact sheet has been extracted from the regulation.

Index

GML	General Mass Limits
CML	Concessional Mass Limits
HML	Higher Mass Limits
HVNL	Heavy Vehicle National Law
GVM/GCM	Gross Vehicle Mass/Gross Combination Mass
NHVAS	National Heavy Vehicle Accreditation Scheme
NLS	Non Load Sharing
LS	Load Sharing
PBS	Performance Based Standard
'S' dimension	Measurement from the front articulation point to the rear overhang line



This document does not cover the authorised access. Some vehicles are not permitted to operate in some states.

This document does not cover PBS Vehicles, if you require this information about PBS vehicles, please refer to the PBS Fact Sheet.



Prescribed dimensions

Width

The width limit for heavy vehicles is 2.5 metres, excluding:

- rear vision mirrors, signalling devices and side-mounted lamps and reflectors
- anti-skid devices mounted on wheels, central tyre inflation systems, tyre pressure gauges
- permanently fixed webbing-assembly-type devices, such as curtain-side devices, provided that the maximum distance measured across the body including any part of the devices does not exceed 2.55 metres.
- removable load restraint equipment, if the maximum distance across the body of the heavy vehicle, including any part of the equipment, is not more than 2.55m.



Height

The height limit for heavy vehicles is 4.3 metres unless it is a:

- vehicle built to carry cattle, horses, pigs or sheep 4.6 metres
- yehicle built with at least 2 decks for carrying vehicles 4.6 metres
- double-decker bus 4.4 metres



Length

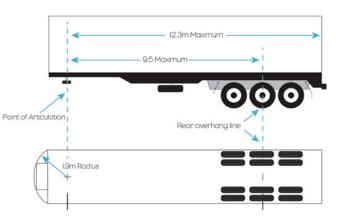
For overall vehicle lengths, refer to the axle mass tables on pages 5-10.

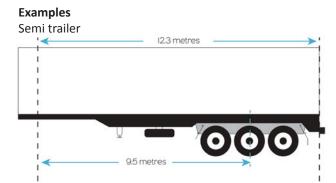
Length for trailers

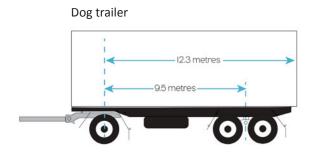
On a semitrailer or dog trailer the distance from the front articulatic point to the rear over hang line must not be more than 9.5 metres at the distance from the front articulation point to the rear of the trail must not be more than 12.3 metres.

The maximum forward projection of a semi-trailer, or anything attached to a semi-trailer must not protude beyond a 1.9 metre arc from the towing pivot pin (King pin).

The articulation point to the rear of a semitrailer may be up to 13.2 metres if the trailer has a distance of not more than 9.5 metres from the front articulation point to the rear overhang line, does not operate in a B-double or road train combination and otherwise complies dimensionally.







Rear overhang and rear overhang line

The rear overhang of a vehicle is the distance between the rear of the vehicle and the rear overhang line of the vehicle.

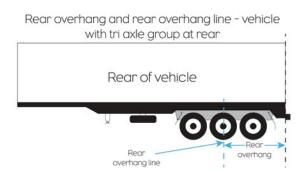
If a vehicle's rear axle group comprises of only 1 axle, the rear overhang line is the centre-line of that axle.

If a vehicle's rear axle group comprises of 2 axles, 1 of which is fitted with twice the number of tyres as the other, the rear overhang line is located at one-third the distance between the 2 axles and is closer to the axle with the greater number of tyres.

If a vehicle's rear axle group comprises of 3 or more axles, the rear overhang line is the centre-line of the axle group.

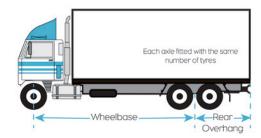
Note: Any steerable axle is to be disregarded unless—

- the group comprises of only 1 axle and that axle is a steerable axle; or
- all the axles in the group are steerable axles.



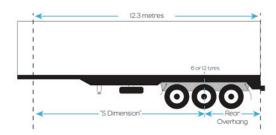
Rear overhang on rigid trucks

Lesser of 3.7 metres or 60% of wheelbase.



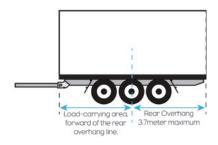
Rear overhang on a semi-trailers and dog trailers

Lesser of 3.7 metres or 60% of 'S' dimension.



Rear overhang on a pig trailer

Rear overhang on a pig trailer must not exceed the lesser of the length of the load-carrying area, forward of the rear overhang line or 3.7 metres.

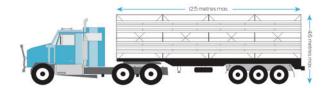


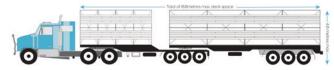
Dimensions relating to specific trailer types

Livestock carriers

- A trailer built to carry cattle, horses, pigs or sheep on two or more partly or completely overlapping decks must not have more than 12.5 metres of its length available to carry cattle, horses, pigs or sheep.
- In a B-double built to carry cattle, horses, pigs or sheep, the two semi-trailers must not have more than 18.8 metres of their combined length available to carry cattle, horses, pigs or sheep.

Note - the length available for the carriage of cattle, horses, pigs or sheep on a trailer is measured from the inside of the front wall or door of the trailer to the inside of the rear wall or door of the trailer, with any intervening partitions disregarded





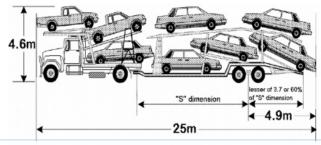
Refrigerated van trailers

The front articulation point to the rear of a semi-trailer may be up to 13.6 metres if the trailer is designed and constructed for the positive control of temperature through the use of refrigerated equipment. Also, the distance from the front articulation point to the rear overhang line of not more than 9.9 metres does not operate in a B-double or road train combination and otherwise complies dimensionally.



Car carriers

The distance measured at right angles between the rear overhang line of a trailer carrying vehicles on more than one deck and the rear of the rearmost vehicle on the trailer must not exceed 4.9 metres.



Axle mass limits comparison tables

- The Mass limits for single axles and axle groups table denotes the GML that applies under the HVNL
- For CML and HML refer to the tables on pages 6-10.
- Dog and pig trailers must not be heavier than the truck towing them.
- The maximum GML for a combination is 42.5 tonnes unless operating under a notice permit or specific scheme.
- > CML heavy vehicles must be accredited under the NHVAS.
- HML heavy vehicles must be fitted with road friendly suspension and accredited under the NHVAS.
- Additional information is available from the HVNL or the NHVR website: www.nhvr.gov.au

Table disclaimers

*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.

*The type of Road train configurations may vary between jurisdictions.

Under the Queensland Class 3 Heavy Vehicle additional concessional mass limits exemption notice.

^aHeavy vehicles may travel on roads throughout Queensland with an additional 250kg on a single front steer axle and an additional 1tonne on a twin steer front axle when operating under a CML Class 3 Notice (to be advised).

^bSteer axle mass limit can be increased to 6.7t for a prime mover forming part of a road train fitted with tyres of at least 375mm.

^cHeavy Vehicles may travel on roads throughout Queensland with an additional 3 tonnes above General Mass Limits, if the maximum mass permitted under GML is > 80 tonnes and an additional 4 tonnes if it is > 120 tonnes.

*, a, b For disclaimer clarification please refer to page 4

Mass limits for single axles and axle groups

Axle/s	Axle group/tyres	Axle/vehicle details	Mass limit (tonnes)
	Single axle Single tyres	Steer axle*, a, b Non steer axle, tyres less than 375mm Non steer axle, tyres 375mm to 449mm Non steer axle, tyres at least 450mm	6.Ot 6.Ot 6.7t 7.Ot
	Single axle Dual tyres	Pig trailer Any other vehicle A complying bus, or a bus authorised to carry standing passengers under an Australian road law An ultra-low floor bus with no axle groups, only 2 single axles	8.5t 9.0t IO.Ot
	Twin-steer axle group Single tyres	Non load-sharing suspension system Load-sharing suspension system	IO.Ot II.Ot
	Tandem axle group Single tyres	Less than 375mm 375mm to 449mm At least 450mm	II.Ot I3.3t I4.Ot
	Tandem axle group Dual/single tyres	Single tyres on one axle and dual tyres on the other axle A complying bus	13.0t 14.0t
	Tandem axle group Dual tyres	Pig trailer Any other vehicle	15.Ot 16.5t
	Tri-axle group Single tyres	Single tyres on all axles with section width less than 375mm, or single tyres on one or two axles and dual tyres on the other axle or axles Pig trailer with either single tyres with at least a 375mm section width, dual tyres on all axles or a combination of those tyres	15.0t
	Tri-axle group Dual tyres	Vehicle other than a pig trailer with either single tyres with at least a 375mm section width, dual tyres on all axles or a combination of those tyres	20.0t

*, a For disclaimer clarification please refer to page 4

Common 2 Axle Rigid Truck



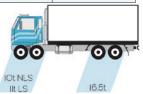
Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	12.5m	15.0t	6.0t*	N/A	9.0t	N/A	N/A
CML not permitted	12.5m	N/A	N/A	N/A	N/A	N/A	N/A
HML not permitted	12.5m	N/A	N/A	N/A	N/A	N/A	N/A

Common 3 Axle Rigid Truck



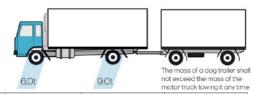
Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	12.5m	22.5t	6.0t*	N/A	N/A	16.5t	N/A
CML	12.5m	23.0t	6.0t*,a	N/A	N/A	17.0t	N/A
HML	12.5m	23.0t	N/A	N/A	N/A	17.0t	N/A

Common 4 Axle Twin Steer Rigid Truck



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Croup (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Group (tonnes)
GML	12.5m	26.5t NLS 27.5t LS	N/A	10.0t NLS 11.0t LS	N/A	16.5t	N/A
CML	12.5m	27.0t NLS 28.0t LS	N/A	10.0t NLS 11.0t ^a LS	N/A	17.0t 17.0t	N/A
HML	12.5m	27.0t NLS 28.0t LS	N/A	10.0t NLS 11.0t ^a LS	N/A	N/A	N/A

Common 2 Axle Rigid Truck and 2 Axle Dog Trailer



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Group (tonnes)
GML	19.0m	30.0t	6.0t*	N/A	9.0t per single axle	N/A	N/A
CML not permitted	19.0m	N/A	N/A	N/A	N/A	N/A	N/A
HML not permitted	19.0m	N/A	N/A	N/A	N/A	N/A	N/A

*, a For disclaimer clarification please refer to page 4

Common

3 Axle Rigid Truck and

3 Axle Dog Trailer



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	19.0m	42.5t	6.0t*	N/A	N/A	16.5t per tandem axle group	N/A
CML	19.0m	43.5t	6.0t*,a	N/A	N/A	17.0t per tandem axle group	N/A
HML not permitted	19.0m	N/A	N/A	N/A	N/A	N/A	N/A

Common

3 Axle Rigid Truck and

4 Axle Dog Trailer



*The higher CCM may be allowed while coperating under Notices and PBS

Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	19.0m	42.5t	6.0t*	N/A	N/A	16.5t per tandem axle group	N/A
CML	19.0m	43.5t	6.0t*, a	N/A	N/A	17.0t per tandem axle group	N/A
HML not permitted	19.0m	N/A	N/A	N/A	N/A	N/A	N/A

Common

3 Axle Semitrailer



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Group (tonnes)
GML	19.0m	24.0t	6.0t*	N/A	9.0t per single axle	N/A	N/A
CML not permitted	19.0m	N/A	N/A	N/A	N/A	N/A	N/A
HML not permitted	19.0m	N/A	N/A	N/A	N/A	N/A	N/A

Common

5 Axle Semitrailer



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Croup (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	19.0m	39.0t	6.0t*	N/A	N/A	16.5t per tandem axle group	N/A
CML	19.0m	40.0t	6.0t*, a	N/A	N/A	17.0t per tandem axle group	N/A
HML	19.0m	40.0t	6.0t*	N/A	N/A	17.0t per tandem axle group	N/A

*, #, a For disclaimer clarification please refer to page 4

Common 6 Axle Semitrailer



					ACCUSAGE AND ADDRESS OF THE PARTY OF THE PAR		
Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	19.0m	42.5t	6.0t*	N/A	N/A	16.5t	20.0t
CML	19.0m	43.5t	6.0t*,a	N/A	N/A	17.0t	21.0t
HML	19.0m	45.5t	6.0t*	N/A	N/A	17.0t	22.5t

Common

7 Axle B-double

#Combination must meet mass limits relating to axle spacing's for the full mass entitlement.



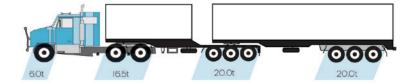
Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Croup (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	19.0m	50.0t General access 55.5t Restricted access	6.0t*	N/A	N/A	16.5t per tandem axle group	N/A
CML	19.0m	57.0t Restricted access	6.0t*,a	N/A	N/A	17.0t per tandem axle group	N/A
HML	19.0m	57.0t Restricted access	6.0t*	N/A	N/A	17.0t per tandem axle group	N/A

Common

9 Axle B-double

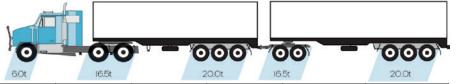
#26m is available for eligible vehicles.

*Combination must meet mass limits relating to axle spacing's for the full mass entitlement.



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Croup (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Group (tonnes)
GML	25.0m#	62.5t	6.0t*	N/A	N/A	16.5t	20.0t per tri axle group
CML	25.0m#	64.5t	6.0t*,a	N/A	N/A	17.0t	21.0t per tri axle group
HML	25.0m#	68.0t	6.0t*	N/A	N/A	17.0t	22.5t per tri axle group

Common Road train (Type I)



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Croup (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	36.5m	79.0t	6.0t*,b	N/A	N/A	16.5t per tandem axle group	20.0t per tri axle group
CML	36.5m	81.0t	6.0t*, a	N/A	N/A	17.0t per tandem axle group	21.0t per tri axle group
HML	36.5m	85.0t	6.0t*	N/A	N/A	17.0t per tandem axle group	22.5t per tri axle group

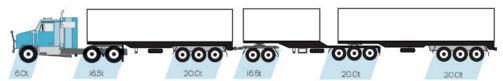
*, a, b, c For disclaimer clarification please refer to page 4

Common B Triple Road train



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Group (tonnes)
GML	36.5m	82.5t	6.0t*,b	N/A	N/A	16.5t	20.0t per tri axle group
CML	36.5m	84.5t ^c	6.0t*,a	N/A	N/A	17.0t	21.0t per tri axle group
HML	36.5m	90.5t	6.0t*	N/A	N/A	17.0t	22.5t per tri axle group

Common AB Triple Road train



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	36.5m	99.0t	6.0t*,b	N/A	N/A	16.5t	20.0t per tri axle group
CML	36.5m	101.0t ^c	6.0t*,a	N/A	N/A	17.0t	21.0t per tri axle group
HML	36.5m	107.5t	6.0t*	N/A	N/A	17.0t	22.5t per tri axle group

Common Road train (Type 2)



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	53.5m	115.5t	6.0t*,b	N/A	N/A	16.5t per tandem axel group	20.0t per tri axle group
CML	53.5m	118.5t ^c	6.0t*,a	N/A	N/A	17.0t per tandem axle group	21.0t per tri axle group
HML	53.5m	124.5t	6.0t*	N/A	N/A	17.0t per tandem axle group	22.5t per tri axle group

Common BAB Quad Road train



Type of Mass Limits	Maximum Length (metres)	Allowable CVM/CCM (tonnes)	Single Steer Axle (tonnes)	Twin Steer Axle Group (tonnes)	Single Axle (tonnes)	Tandem Axle Croup (tonnes)	Triaxle Croup (tonnes)
GML	53.5m	119.0t	6.0t*, b	N/A	N/A	16.5t per tandem axle group	20.0t per tri axle group
CML	53.5m	121.0t ^c	6.0t*, a	N/A	N/A	17.0t per tandem axle group	21.0t per tri axle group
HML	53.5m	130.0t	6.0t*	N/A	N/A	17.0t per tandem axle group	22.5t per tri axle group

About the NHVR

The National Heavy Vehicle Regulator (NHVR) is Australia's dedicated independent regulator for heavy vehicles over 4.5 tonnes gross vehicle mass.

The NHVR was created to administer one set of rules for heavy vehicles under the Heavy Vehicle National Law (HVNL), improve safety and productivity, minimise the compliance burden on the heavy vehicle transport industry and reduce duplication and inconsistencies across state and territory borders.

For more information

subscribe www.nhvr.gov.au/subscribe

visit www.nhvr.gov.au
email info@nhvr.gov.au
fax 07 3309 8777

post PO Box 492, Fortitude Valley Q 4006

tel 1300 MYNHVR (1300 696 487)

Standard 1300 call charges apply. Please check with your phone provider.