

## Performance-Based Standards (PBS) Vehicle Approval

Heavy Vehicle National Law Section 23

Heavy Vehicle (General) National Regulation Section 17

This is not an authorisation to access the road network.  
You must comply with the relevant Notice or if required, obtain an access permit.

16 July 2019

**Ref No: PBS – V120802 – VA4017 –**

This PBS Vehicle Approval modifies any previously issued approval for the vehicle(s) listed herein operating under Application Number V120802.

The vehicle(s) listed herein qualify for general access under the specified PBS vehicle provision of the HVNL. See ‘General access for a specified PBS vehicle’ section of this document.

Applicant details		Operator	
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Application Number	V120802	Vehicle	3-axle truck 4-axle dog
Load	Quarry and Bulk	Length (mm)	≤ 19600
Assessor	Philip Roper	Height (mm)	≤ 4300

Mass Limits	Level 1	Level 2
GML (t)	50.5	56.0
CML (t)	50.5	57.5
HML (t)	50.5	57.5
Bridge Assessment	Tier 1	

Axle Group Masses	Level 1		Level 2	
	GML	CML HML	GML	CML HML
Steer (t)	6.5	6.5	6.5	6.5
Drive (t)	16.5	17.0	16.5	17.0
Trailer Front (t)	15.0*	15.0*	16.5	17.0
Trailer Rear (t)	15.0*	15.0*	16.5	17.0

\* The trailer mass is limited to –

- 27.5t at Level 1 GML
- 27.0t at Level 1 CML/ HML

## Operating conditions

The NHVR approves the vehicles listed herein for the level(s) shown in the “Mass Limits” table with the following operating conditions:

1. The total combination mass must not exceed the limits in the “Mass Limits” table.
2. The axle group masses must not exceed the limits in the “Axle Group Masses” table.
3. If the “Mass Limits” table specifies Tier 2 or 3, a bridge assessment is required.
4. Maximum bin heights measured from the ground must not exceed: (m)

	Truck	Trailer
1	2.870	2.971
2	2.895	NA
3	2.895	NA

5. Maximum payload heights measured from the ground must not exceed: (m)

	Truck	Trailer
1	2.835	2.921
2		NA
3		NA

6. 6.5 tonne complying steer axle requirements:
  - an engine that complies with the engine emission standards of Australian Design Rule (ADR) 80/01 (Euro 4) or a later version of ADR 80; and
  - a front underrun protection device (FUPD) that complies with UN ECE Regulation 93 or ADR 84; and
  - a cabin that complies with UN ECE Regulation 29.
7. Concessional Mass Limits (CML) requirements:
  - a National Heavy Vehicle Accreditation Scheme (NHVAS) – Mass Management Accreditation must be in force for all motor vehicles listed on this vehicle approval.
8. Higher Mass Limits (HML) requirements:
  - for tandem axles groups, road friendly suspensions.
9. When the trailer mass exceeds the truck mass, at least 16t on the drive axle group is required. This clause does not apply for an unladen vehicle.

## Exemptions

*Heavy Vehicle National Law Section 24*

*Heavy Vehicle (General) National Regulation Section 28*

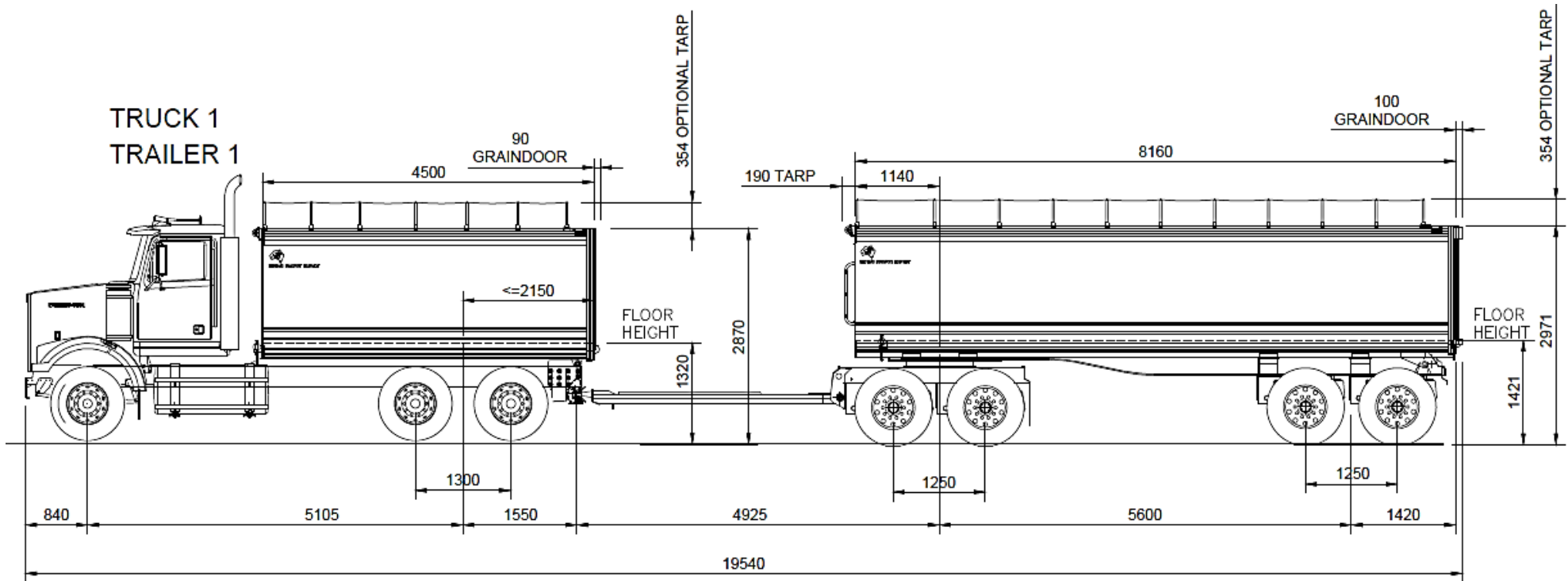
The following table lists exemptions from prescribed vehicle standards that have been granted for the vehicle(s) in this vehicle approval.

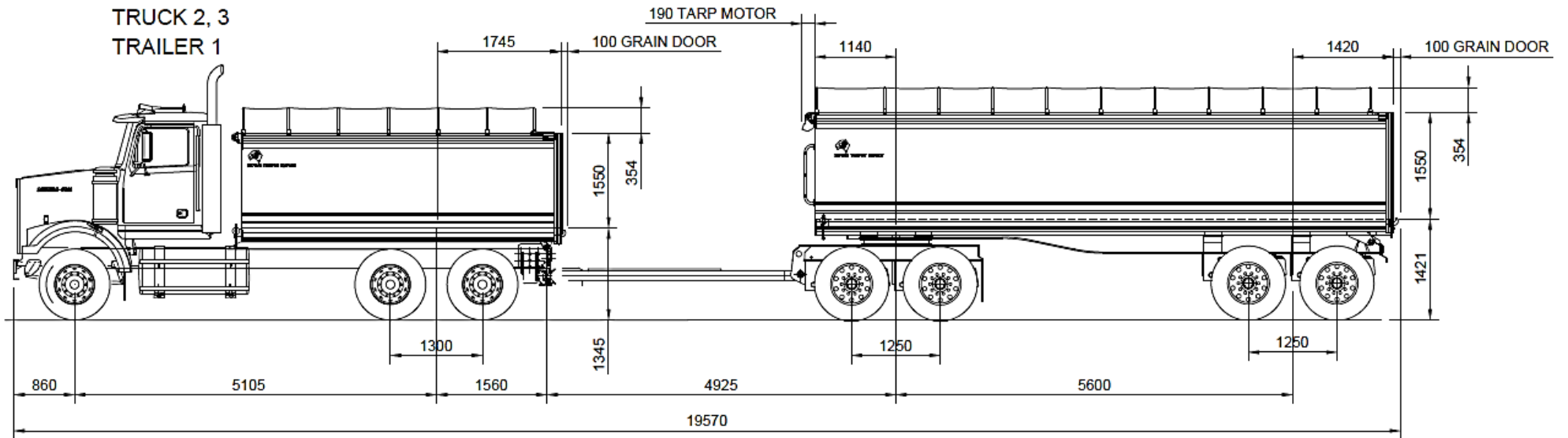
Exemptions	
ADR	NA
HV(MDL)NR	Schedule 6, Section 3 (Length – General)
HV(VS)NR	NA

ADR                                      Australian Design Rules

HV(MDL)NR                              *Heavy Vehicle (Mass, Dimension and Loading) National Regulation*

HV(VS)NR                                      *Heavy Vehicle (Vehicle Standards) National Regulation*





Details of truck(s) or prime mover(s) – Truck 1

Make	Western Star
Model	4800 FS/2
VIN(s)	5KKHBEDR1GPHM7354
Engine make/ model/ rating	Detroit / DD15 560hp / 2,510Nm ADR80/03
Transmission make/ model	Eaton / RTLO20918B
Differential make/ model/ FD ratio	Meritor / RT46-160GP / FDR – 4.30:1
Suspension make/ model (Steer)	Western Star / Parabolic
Suspension make/ model (Drive)	Western Star / Airliner 46K RF2013
Tyres make/ size/ model (Steer)	295/80R22.5 Michelin XMULTI Way 3D
Tyres make/ size/ model (Drive)	11R22.5 Michelin XMULTI D
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Tow coupling make/ D rating	Ringfeder Pin Coupling / 34.0 tonne
Wheelbase (mm)	5105
Vehicle height (Measured from the ground) (mm)	2870
Number of axles	3
ADR category	NC
GVM (kg)	27,400
GCM (kg)	90,500
Comments/ notes:	

Details of truck(s) or prime mover(s) – Truck 2

Make	Western Star
Model	4800 FS/2
VIN(s)	5KKHBEDR4HPJD9015 5KKHBEDR6HPJG0822 5KKHBEDR8HPJG0823 <b>5KKHBEDR9JPJP7933</b>
Engine make/ model/ rating	Detroit / DD15 560hp / 2,510Nm ADR80/03
Transmission make/ model	Eaton / RTLO20918B
Differential make/ model/ FD ratio	Meritor / RT46-160GP / FDR – 4.30:1
Suspension make/ model (Steer)	Western Star / Parabolic
Suspension make/ model (Drive)	Western Star / Airliner 46K RF2013
Tyres make/ size/ model (Steer)	295/80R22.5 Michelin XMULTI Way 3D
Tyres make/ size/ model (Drive)	11R22.5 Michelin XMULTI D
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Tow coupling make/ D rating	Ringfeder Pin Coupling / 34.0 tonne
Wheelbase (mm)	5105
Vehicle height (Measured from the ground) (mm)	2895
Number of axles	3
ADR category	NC
GVM (kg)	27,400
GCM (kg)	90,500
Comments/ notes:	

**Details of truck(s) or prime mover(s) – Truck 3**

Make	Western Star
Model	4800 FS/2
VIN(s)	<b>5KKHBEDR0JPJP7934</b>
Engine make/ model/ rating	Detroit / DD15-500 500hp / 2,510Nm ADR80/03
Transmission make/ model	Eaton / RTLO20918B
Differential make/ model/ FD ratio	Meritor / RT46-160GP / FDR – 4.30:1
Suspension make/ model (Steer)	Western Star / Parabolic
Suspension make/ model (Drive)	Western Star / Airliner 46K RF2013
Tyres make/ size/ model (Steer)	295/80R22.5 Michelin XMULTI Way 3D
Tyres make/ size/ model (Drive)	11R22.5 Michelin XMULTI D
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Tow coupling make/ D rating	Ringfeder Pin Coupling / 34.0 tonne
Wheelbase (mm)	5105
Vehicle height (Measured from the ground) (mm)	2895
Number of axles	3
ADR category	NC
GVM (kg)	27,400
GCM (kg)	90,500
Comments/ notes:	

**Details of trailer(s) or dolly(s) – Trailer 1**

Type	Drawbar Trailer
Make	Shephard Transport Equipment
Model	4 Axle Tipper Dog
VIN(s)	6V9T24STEGC075020 6V9T24STEHC075017 6V9T24STEHC075037 6V9T24STEHC075038 <b>6V9T24STEHC075046</b> <b>6V9T24STEHC075047</b>
Suspension make/ model	York / Duratrac RF2001
Tyres make/ size/ model	11R22.5 Dunlop SP430
Drawbar length (mm)	4925
Coupling make/ D rating	Ballrace BPW DK90-16 / 60,000 kg
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS / EBS on 1 <sup>st</sup> & 3 <sup>rd</sup> Axles
Wheelbase (mm)	5600
Vehicle height (Measured from the ground) (mm)	2971
Number of axles	4
ADR category	TD
ATM (kg)	34,000
Comments/ notes:	

### Approved tyre options

**Steer –**

- **295/80R22.5** Michelin, Bridgestone, Dunlop, Goodyear
- **295/80R22.5, 305/70R22.5, 315/80R22.5, 385/65R22.5**

**Drive –**

- **11R22.5** Michelin, Bridgestone, Dunlop, Goodyear
- **11R22.5** Hankook DH16

**Trailer –**

- **11R22.5** Michelin, Bridgestone, Dunlop, Goodyear
- **11R22.5** Hankook TH22, Firestone T559

Retread tyres are permitted, provided they are either:

- 1) a Michelin retread applied to a Michelin tyre;
- 2) a Bridgestone Bandag retread applied to a Bridgestone 11R22.5 tyre;
- 3) a retread applied at a Goodyear facility or Goodyear Authorised Retreader (GAR) to a Goodyear or Dunlop tyre; or
- 4) certified by the manufacturer to have performance that is equivalent to a new tyre.

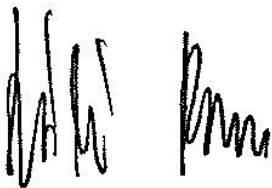
Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V120802.

A different list of tyres will apply for other combination types and different PBS application numbers.

### Declaration

I, Laszlo Bruzsa Chief Engineer, delegate of the National Heavy Vehicle Regulator approve this PBS Vehicle Approval PBS–V120802 –VA4017.



Laszlo (Les) Bruzsa  
 Chief Engineer  
 National Heavy Vehicle Regulator  
 Dated: 16/07/19

### Revision table

N	VA	Vers	Brief description	Date
1	4017	1	First issue.	23/10/17
2	4017	2A	Tyre options updated.	10/07/19
3	4017	2B	Tyre options updated.	16/07/19

## General access for a specified PBS vehicle

The vehicle combination(s) listed in this PBS Vehicle Approval qualify for general access to the road network under the *specified PBS vehicle* provisions of the Heavy Vehicle National Law. A specified PBS vehicle must comply with all applicable requirements of Schedule 1 of the *Heavy Vehicle (Mass, Dimension and Loading) National Regulation* (HV(MDL)NR).

## Specified PBS vehicle mass limits

1. The maximum allowable mass of a specified PBS vehicle is the lesser of the maximum PBS Level 1 GML stated in this Vehicle Approval and the relevant mass limit prescribed in Part 1, section 2, Schedule 1 of the HV(MDL)NR.
2. The maximum allowable mass of an axle group on a specified PBS vehicle is the lesser of the maximum PBS Level 1 GML axle group mass limit stated in this Vehicle Approval and the axle group mass limit prescribed in “Table 1—Axle mass limits table” in Schedule 1 of the HV(MDL)NR.
3. The maximum allowable mass between any two axles or axle groups on a specified PBS vehicle is the relevant prescribed mass limit in “Table 2—Axle spacing mass limits general table” in Schedule 1 of the HV(MDL)NR.

## Specified PBS vehicle operating conditions

1. When operating as a general access vehicle, a specified PBS vehicle must comply with all operating conditions of its Vehicle Approval that apply at Level 1. This includes payload heights, the drive axle mass requirement, approved tyre options and all operating conditions that do not specify a level of access.
2. The regulation includes a requirement about towing ratios. Loading and unloading must be managed so that the trailer mass does not exceed the mass of the towing vehicle.

## For more information

For more information visit our [PBS vehicle access permit page](#) under Access management.

## Disclaimer

The information on this page is general guidance only and does not constitute legal advice. Consider whether you require Independent legal advice to address your particular circumstances.

## Important information

As per Heavy Vehicle National Law Section 153, the driver must keep in the driver's possession a copy of this Vehicle Approval and be able to produce it for inspection by compliance officers. Penalties apply.

If changes or modifications are required, these are limited to the specifications contained in the relevant PBS Design Approval and the Application for Design Approval Part A and B. Contact the applicant (see the cover page on this document) for information related to the allowed specifications.

A change of components and/or dimensions must be certified by an approved PBS certifier and an updated version of this Vehicle Approval must be obtained. A change of tyres, outside of the list contained on this Vehicle Approval, also requires approval but will not require an inspection by a PBS certifier.

## Road access

This is not an authorisation to access the road network. You must comply with the relevant Notice or obtain an access permit.

Please note that if you add vehicles to a PBS Vehicle Approval you will need to update the access permit to reflect the latest Vehicle Approval. If the new vehicles have different masses or dimensions to what is already approved, the NHVR will have to seek Road Manager consent again; which may extend the time required to issue the new permit.

For more information on the PBS Truck and Dog Notice visit [National class 2 PBS level 1 and 2A truck and dog trailer authorisation notice 2016](#).

To apply for an access permit, visit the [NHVR Portal](#). You must supply a route ID when applying for an access permit. Use Route Planner to obtain your route ID, you can do this as part of the permit application process in the [NHVR Portal](#).

For further assistance please visit our website at [www.nhvr.gov.au](http://www.nhvr.gov.au) or call 1300 MYNHVR (1300 696 487).

For queries relating to this document please contact the PBS Coordinator at [pbs@nhvr.gov.au](mailto:pbs@nhvr.gov.au).

## Transfer of Vehicle Approval

When applying for an access permit for a PBS vehicle, a PBS Vehicle Approval must be in the name of the company that operates the vehicle on the road.

If/ when a PBS combination is sold, the PBS Vehicle Approval has to be transferred across to the new owner.

To transfer a PBS Vehicle Approval to a new owner, use a [Vehicle Approval transfer application form](#).