

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.

11 February 2022

Ref No: PBS – V160308 – VA10595 – Australian Trailer Solutions Group / Rosebrook Sand & Gravel – v1A

This PBS Vehicle Approval modifies any previously issued approval for the vehicle(s) listed herein operating under Application Number V160308 VA.

Applicant details	Ed Wallis Australian Trailer Solutions Group 5 Beatty Avenue Armadale VIC 3143	Operator	
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Application Number	V160308	Vehicle	3-axle truck 3-axle dog
Load	Quarry and Bulk	Length (mm)	≤ 18350
Assessor	Hans Prem	Height (mm)	≤ 4300

Combination matrix

For each truck and trailer, the corresponding drawing and dimension set number is listed. The dimension set number (e.g. Set 1) indicates the maximum allowable payload heights and/or allowable tyre options for the specific combination (refer to payload height operating conditions and approved tyre options). Additional vehicle units are listed in bold.

Truck 1	Truck 2	Truck 3
6F5000000EA453626	6F5000000GA456058	6F5000000GA456057
6F5000000EA453627	6F5000000GA456059	
6F5000000EA453628		

Trailer 1	Trailer 2	Trailer 3
6F80000000B087991	6F80000000B089901	6F80000000B089899
6F80000000B087993	6F80000000B089903	
6F80000000B087995		

	Trailer 1	Trailer 2	Trailer 3
Truck 1	DWG: No.22003 Set 1 Set 1 Table 1, 2	NA	NA
Truck 2	NA	DWG: No.22003 Set 2 Set 1 Table 1, 2	NA
Truck 3	NA	NA	DWG: No.22003 Set 3 Set 1 Table 1, 2

Table 1
Truck 1 and Trailer 1
Truck 2 and Trailer 2
Truck 3 and Trailer 3

Mass Limits	Level 1		Axle Group Masses	Level 1
				GML
GML (t)	48.45		Steer (t)	6.5
CML (t)	NA		Drive (t)	16.5
HML (t)	NA		Trailer Front (t)	9.0
Bridge Assessment	Tier 1		Trailer Rear (t)	16.5
			The mass across axle groups is limited to -	
			Axle Groups	GML
			3 to 4	25.45

Table 2
Truck 1 and Trailer 1
Truck 2 and Trailer 2
Truck 3 and Trailer 3

Mass Limits	Level 2		Axle Group Masses	Level 2		
				GML	CML	HML
GML (t)	48.45		Steer (t)	6.5	6.5	6.5
CML (t)	49.45		Drive (t)	16.5	17.0	17.0
HML (t)	49.45		Trailer Front (t)	9.0	9.0	9.0
Bridge Assessment	Tier 1		Trailer Rear (t)	16.5	17.0	17.0
			The mass across axle groups is limited to -			
			Axle Groups	GML	CML	HML
			3 to 4	25.45	25.95	25.95

Operating conditions

The NHVR approves this application 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 payload heights measured from the ground must not exceed: (m)

	Truck	Trailer
Set 1	2.650	2.655

5. 6.5 tonne steer axle concession 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.
6. Concessional Mass Limits (CML) requirements:
 - National Heavy Vehicle Accreditation Scheme (NHVAS) – Mass Management Module.
7. Higher Mass Limits (HML) requirements:
 - for tandem axles groups, road friendly suspensions.
8. When the trailer mass exceeds the truck mass, at least 16 tonnes 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

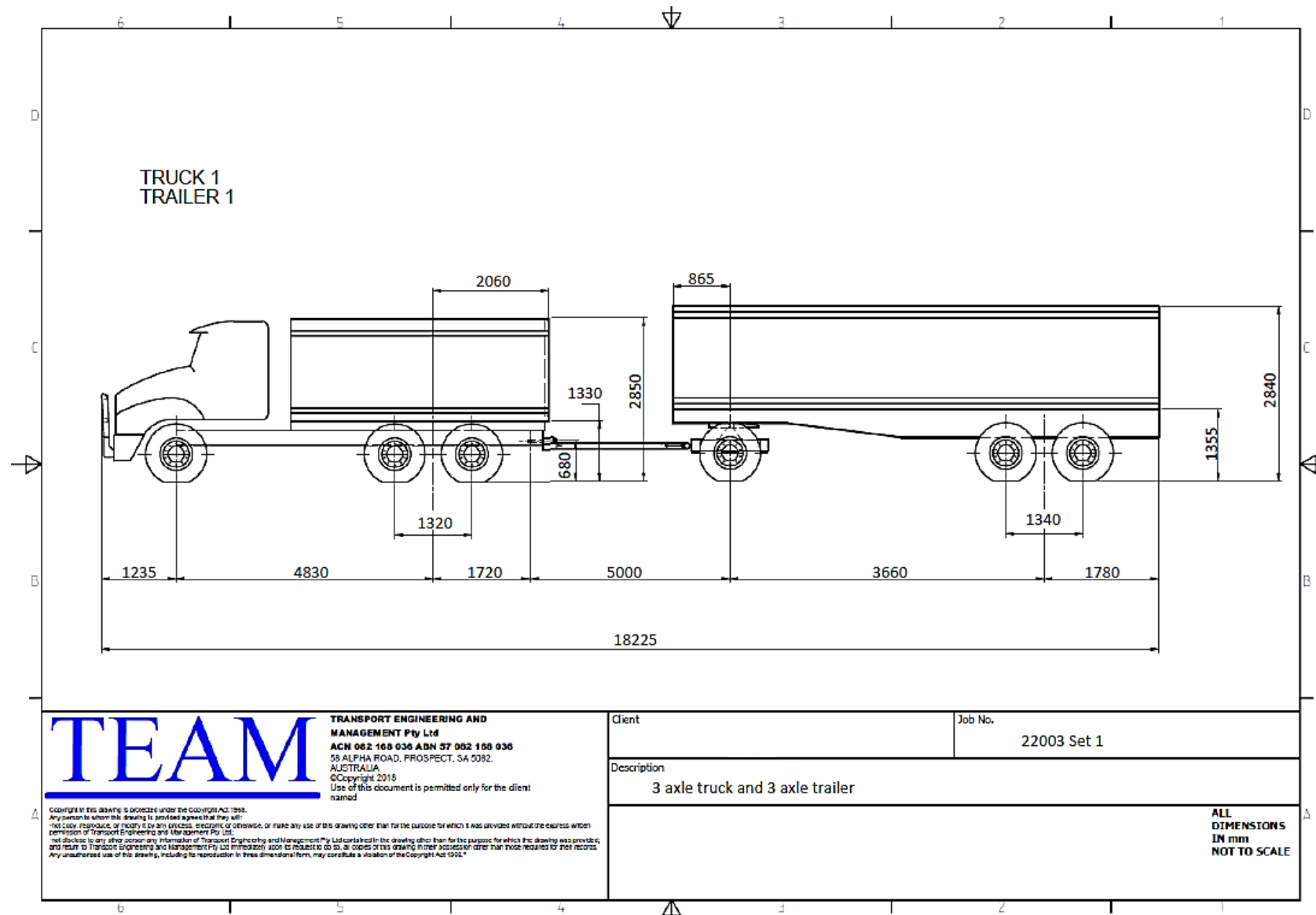
The following table lists exemptions from prescribed vehicle standards that have been granted for the vehicles/s in this vehicle approval.

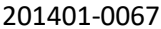
Exemptions	
ADR	NA
HV(MDL)NR	NA
HV(VS)NR	NA

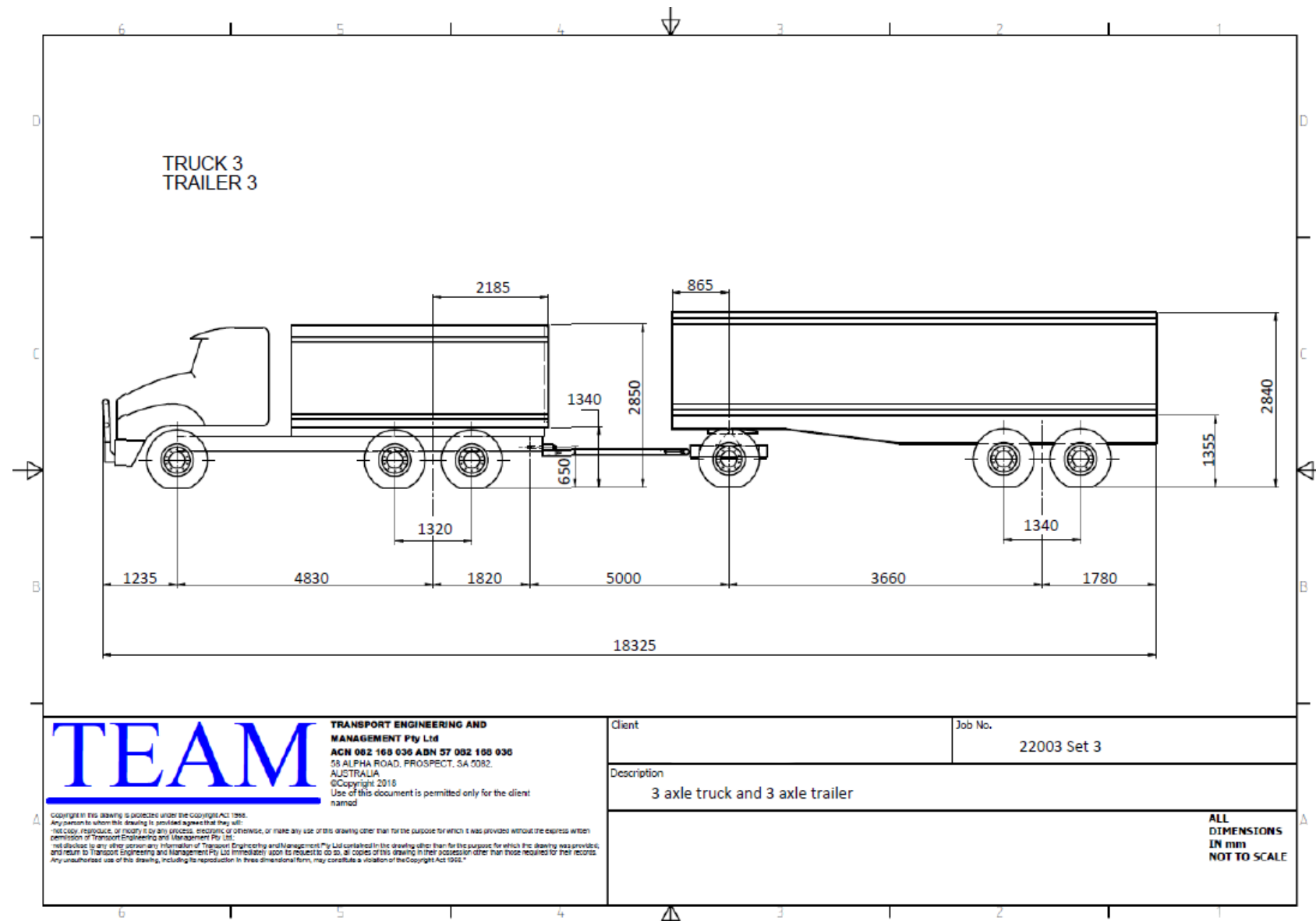
ADR Australian Design Rules

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	Kenworth
Model	T409
VIN(s)	6F5000000EA453626 6F5000000EA453627 6F5000000EA453628
Engine make/ model/ rating	PACCAR MX 510 HP
Transmission make/ model	Eaton Fuller RTLO20918B
Differential make/ model/ FD ratio	Meritor RT46-160GP FDR 4.3
Suspension make/ model (Steer)	Kenworth taper leaf 7.2 t
Suspension make/ model (Drive)	Airglide 400
Tyres make/ size/ model (Steer)	295/80R22.5 Windpower WSR75
Tyres make/ size/ model (Drive)	11R22.5 Windpower WDC53
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Tow coupling make/ D rating	Conventional pin coupling D=320kN
Wheelbase (mm)	4830
Vehicle height (Measured from the ground) (mm)	2850
Number of axles	3
ADR category	NC
GVM (kg)	24,700
GCM (kg)	70,000
Comments/ notes:	

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

Make	Kenworth
Model	T409
VIN(s)	6F5000000GA456058 6F5000000GA456059
Engine make/ model/ rating	PACCAR MX 510 HP
Transmission make/ model	Eaton Fuller RTLO20918B
Differential make/ model/ FD ratio	Meritor RT46-160GP FDR 4.3
Suspension make/ model (Steer)	Kenworth taper leaf 7.2 t
Suspension make/ model (Drive)	Airglide 400
Tyres make/ size/ model (Steer)	295/80R22.5 Windpower WSR75
Tyres make/ size/ model (Drive)	11R22.5 Windpower WDC53
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Tow coupling make/ D rating	Conventional pin coupling D=320kN
Wheelbase (mm)	4830
Vehicle height (Measured from the ground) (mm)	2850
Number of axles	3
ADR category	NC
GVM (kg)	24,700
GCM (kg)	70,000
Comments/ notes:	

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

Make	Kenworth
Model	T409
VIN(s)	6F5000000GA456057
Engine make/ model/ rating	PACCAR MX 510 HP
Transmission make/ model	Eaton Fuller RTLO20918B
Differential make/ model/ FD ratio	Meritor RT46-160GP FDR 4.3
Suspension make/ model (Steer)	Kenworth taper leaf 7.2 t
Suspension make/ model (Drive)	Airglide 400
Tyres make/ size/ model (Steer)	295/80R22.5 Windpower WSR75
Tyres make/ size/ model (Drive)	11R22.5 Windpower WDC53
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Tow coupling make/ D rating	Conventional pin coupling D=320kN
Wheelbase (mm)	4830
Vehicle height (Measured from the ground) (mm)	2850
Number of axles	3
ADR category	NC
GVM (kg)	24,700
GCM (kg)	70,000
Comments/ notes:	

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

Type	Tipping Trailer
Make	HXW
Model	D3
VIN(s)	6F80000000B087991 6F80000000B087993 6F80000000B087995
Suspension make/ model	Front BPW ALII OM/D36 Rear BPW ALII AM/D30
Tyres make/ size/ model	11R22.5 Triangle TR668
Drawbar length (mm)	5000
Coupling make/ D rating	50 mm Tow Eye D=314kN
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Wheelbase (mm)	3660
Vehicle height (Measured from the ground) (mm)	2840
Number of axles	3
ADR category	TD
ATM (kg)	26,000
Comments/ notes:	

Details of trailer(s) or dolly(s) – Trailer 2

Type	Tipping Trailer
Make	Maxitrans
Model	Dog 3A
VIN(s)	6F80000000B089901 6F80000000B089903
Suspension make/ model	BPW ALII OM/D36
Tyres make/ size/ model	11R22.5 Triangle TR668
Drawbar length (mm)	5000
Coupling make/ D rating	50 mm Tow Eye D=314kN
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Wheelbase (mm)	3660
Vehicle height (Measured from the ground) (mm)	2840
Number of axles	3
ADR category	TD
ATM (kg)	26,000
Comments/ notes:	

Details of trailer(s) or dolly(s) – Trailer 3

Type	Tipping Trailer
Make	Maxitrans
Model	Dog 3A
VIN(s)	6F80000000B089899
Suspension make/ model	BPW ALII OM/D36
Tyres make/ size/ model	11R22.5 Triangle TR668
Drawbar length (mm)	5000
Coupling make/ D rating	50 mm Tow Eye D=314kN
Brakes (Load Proportioning, ABS, ECB, etc.)	ABS
Wheelbase (mm)	3660
Vehicle height (Measured from the ground) (mm)	2840
Number of axles	3
ADR category	TD
ATM (kg)	26,000
Comments/ notes:	

Approved tyre options

Steer –

- **11R22.5, 295/80R22.5** Michelin, Bridgestone, Goodyear, Dunlop, Continental, Chao Yang, Firestone, Ohtsu/ Falken, Kumho, Hankook, Toyo, Goodride

Or

- **295/80R22.5** Windpower WSR7511R22.5,
- **295/80R22.5** (Highway tread pattern) Michelin, Bridgestone, Goodyear, Dunlop, Continental, Chao Yang, Firestone, Ohtsu/ Falken, Kumho, Hankook, Toyo, Goodride
- **11R22.5** (Highway tread pattern) Michelin, Bridgestone, Goodyear, Dunlop, Continental, Chao Yang, Firestone, Ohtsu/ Falken, Kumho, Hankook, Toyo, Goodride

Drive –

All other suspensions on the dog-trailer –

- **11R22.5, 295/80R22.5** Michelin XZA2+, XDE2+, X Multi D, Bridgestone M711, M722, M733, M766, M726, R-DRIVE 001, Goodyear G367, G667, Dunlop SP430, SP431, Firestone FD663, Hankook DL10, AH22+

Or

- **11R22.5** Windpower WDC5311R22.5, **295/80R22.5** Michelin XZA 2+, XDE 2+, X Multi D, Bridgestone M711, M722, M733, M766, M726, R-Drive 001, Goodyear G367, G667, Dunlop SP430, SP431, Firestone FD663, Hankook DL10, AH22+

Trailer –

All other suspensions on the dog-trailer –

- **11R22.5, 295/80R22.5** Michelin XZA2+, XTA2 Energy, XTE2, Bridgestone R109, R168, R295, Firestone T559, Goodyear LHT, LHT II, Dunlop SP430, Hankook TH22, AH22+, AH33

Or

- **11R22.5** Triangle TR66811R22.5, **295/80R22.5** Michelin XZA 2+, XTA 2 Energy, XTE 2, Bridgestone R109, R168, R295, Firestone T559, Goodyear LHT, LHT II, Dunlop SP430, Hankook TH22, AH22+, AH33

Retread or regroove tyres are permitted, provided they are certified by the manufacturer that its performance is equivalent to a new tyre.

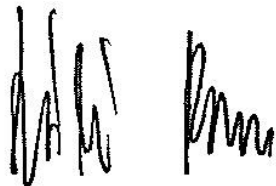
Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V160308.

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–V160308 –VA10595.



Laszlo (Les) Bruzsa

Chief Engineer

National Heavy Vehicle Regulator

Dated: 11/02/22

Revision table

N	VA	Vers	Brief description	Date
1	10595	1A	First issue.	11/02/22

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 2021](#).

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 or call 13 NHVR (13 64 87).

For queries relating to this document please contact the PBS Coordinator at 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 [PBS Vehicle Approval Transfer Application form](#).