

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.

29 October 2021

Ref No: PBS – V170307 – VA10063 – Australian Trailer Solutions Group / RPV Logistics – v1A

This PBS Vehicle Approval modifies any previously issued approval for the vehicle(s) listed herein operating under Application Number V170307.

Applicant details		Operator	
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Application Number	V170307	Vehicle	3-axle truck 3-axle dog
Load	Quarry and Bulk	Length (mm)	≤ 18000
Assessor	Andrej Bucko (ARRB)	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. Option 2) 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
W1T96342420428378

Trailer 1
6F80000000L109223

	Trailer 1
Truck 1	SP1095A Option 2 Table 1

Table 1
Truck 1 and Trailer 1

Mass limits	Level 1	Level 2		Axle group masses	Level 1	Level 2	
					GML	GML	CML HML
GML (t)	48.35	48.5		Steer (t)	6.5	6.5	6.5
CML (t)	NA	49.5		Drive (t)	16.5	16.5	17.0
HML (t)	NA	49.5		Trailer Front (t)	9.0	9.0	9.0
Bridge Assessment	Tier 1			Trailer Rear (t)	16.35	16.5	17.0

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 Tier 3, a bridge assessment is required.
4. Maximum payload heights measured from the ground must not exceed: (m)

Option 2	Level 1	Level 2
Truck	2.650	2.920
Trailer	2.650	2.680

5. 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.
6. 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.
7. Higher Mass Limits (HML) requirements:
 - for tandem axles groups, road friendly suspensions.
8. When operating at Level 1, there is a minimum mass requirement for the drive axle group. The mass on the drive axle group must be at least 26% of the total combination mass e.g. at 50.5t total combination mass, $50.5 \times 0.26 = 13.1\text{t}$ is required on the drive axle group. This clause does not apply to an unladen vehicle.
9. When operating at Level 2, there is a minimum mass requirement for the drive axle group. The mass on the drive axle group must be at least 20% of the total combination mass e.g. at 56t total combination mass, $56 \times 0.2 = 11.2\text{t}$ is required on the drive axle group. This clause does not apply to an unladen vehicle.

Exemptions

Heavy Vehicle National Law Section 24

Heavy Vehicle (General) National Regulation Section 28

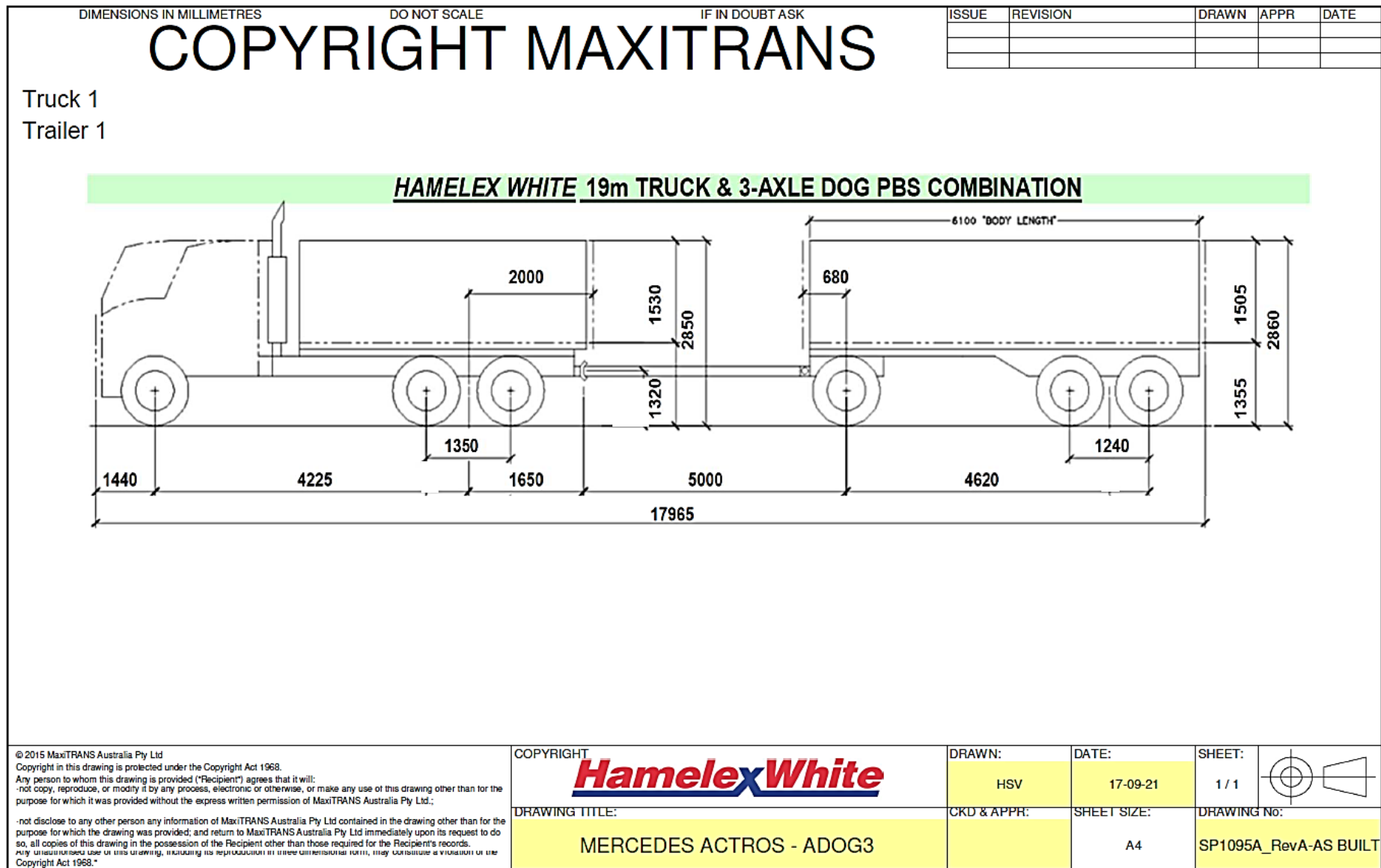
The following table lists exemptions from prescribed vehicle standards that have been granted for the vehicle(s) in this vehicle approval.

Exemptions	
ADR	NA
HV(MDL)NR	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	Mercedes Benz
Model	2658
VIN(s)	W1T96342420428378
Engine make/ model/ rating	Mercedes-Benz OM 473
Transmission make/ model	Mercedes-Benz G330 – 12
Differential make/ model/ FD ratio	Mercedes-Benz A2E FDR = 3.583:1
Suspension make/ model (Steer)	Mercedes-Benz Q1N spring
Suspension make/ model (Drive)	Mercedes-Benz 4-bag air suspension
Tyres make/ size/ model (Steer)	295/80R22.5 Michelin X-Multi Z
Tyres make/ size/ model (Drive)	295/80R22.5 Michelin X-Multi D
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Tow coupling make/ D rating	Ringfeder D-rating 320kN
Wheelbase (mm)	4225
Vehicle height (Measured from the ground) (mm)	2850
Number of axles	3
ADR category	NC
GVM (kg)	26,000
GCM (kg)	55,000 (General)
Comments/ notes:	

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

Type	Tri-axle Tipping Dog Trailer
Make	Maxitrans (Hamelex-White)
Model	Dog 3A
VIN(s)	6F80000000L109223
Suspension make/ model	Front: Meritor CS10.5 Rear: Meritor CS9
Tyres make/ size/ model	11R22.5 Firestone FT469
Drawbar length (mm)	5000
Coupling make/ D rating	Ballrace Towing Eye D-Rating = 314 kN
Brakes (Load Proportioning, ABS, ECB, etc.)	EBS
Wheelbase (mm)	4000
Vehicle height (Measured from the ground) (mm)	2860
Number of axles	3
ADR category	TD
ATM (kg)	26,000
Comments/ notes:	

Approved tyre options

Steer –

- 295/80R22.5

Drive –

- **11R22.5, 295/80R22.5** Michelin, Haulmax, Bridgestone, Firestone, Dunlop, Goodyear

Trailer –

- **11R22.5** Michelin, Haulmax, Bridgestone, Firestone, Dunlop, Goodyear, Continental, BF Goodrich

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.

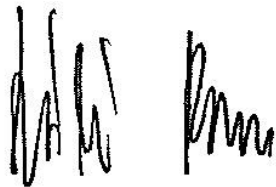
Tyre load ratings must be appropriate for the axle mass.

Tyres listed herein are specific for PBS application number V170307.

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–V170307 –VA10063.



Laszlo (Les) Bruzsa

Chief Engineer

National Heavy Vehicle Regulator

Dated: 29/10/21

Revision table

N	VA	Vers	Brief description	Date
1	10063	1A	First issue.	29/10/21

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 or call 1300 MYNHVR (1300 696 487).

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 [Vehicle Approval transfer application form](#).