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ASIC
Australian Securities & Investments Commission

Australian Company

GOLDEN SUN CARAVANS AUSTRALIA PTY LTD
ACN 650 150 271

Extracted from ASIC's database at AEST 16:53:46 on 10/12/2021

Company Summary	
Name:	GOLDEN SUN CARAVANS AUSTRALIA PTY LTD
ACN:	650 150 271
ABN:	91 650 150 271
Registration Date:	12/05/2021
Next Review Date:	12/05/2022
Status:	Registered
Type:	Australian Proprietary Company, Limited By Shares
Locality of Registered Office:	THOMASTOWN VIC 3074
Regulator:	Australian Securities & Investments Commission

Further information relating to this organisation may be purchased from ASIC.

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Australian Government

Department of Infrastructure, Transport, Regional Development and Communications

Application Details

Application Type	Vehicle Type Approval
Application Number	VTA-2021-0004051
Submitted On	14/12/2021 1:42:01 PM

Applicant details

Title	s47F
First Name	s47F
Last Name	s47F
Date of Birth	s47F
Email Address	s47F
Mobile Phone	s47F

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Department of Infrastructure, Transport, Regional Development and Communications

Address Details

Address Type	Physical Address
Address Line 1	10 Dennis Street
Town/Suburb	Campberfield
State/Territory	VIC
Postcode	3061
Country	Australia

Address Type	Postal Address
Address Line 1	10 Dennis Street
Town/Suburb	Campberfield
State/Territory	VIC
Postcode	3061
Country	Australia

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Vehicle type details

What is the category of the road vehicle type?
TB - Light Trailer

Is the Aggregate Trailer Mass (ATM) of this trailer type 4.5 tonnes or less?
Yes

Is this application for a second stage of manufacture (SSM) vehicle?
No

Make : Other

Please specify make :Golden Sun Caravans

Model(s)

Model(s) Name
Appalonia 19ft to 21.6ft
Aruba 16ft to 22ft
BAHAMAS 23FT TO 25FT
CALYPSO 21FT TO 24.6FT
CARRIBEAN 23Ft to 25ft
Dusk 16ft to 21.6ft
FAMILY ADVENTURE 18.6FT TO 24.6FT
Family Twilight 18ft to 24.6ft
Hayoon 18ft to 23ft
LA MAISON 23FT TO 25FT
Pacific 18ft to 23ft
ST TROPEZ 19.6FT TO 24FT
Tropic 16ft to 23ft
TROPICANA 20FT TO 24.6FT
Wild Warrior 16ft to 20ft

☐ Other modification being performed

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Facility details

Design facilities

Address Line 1	10 Dennis St
Address Line 2	
Town/Suburb	Campberfield
Country	Australia - Country
State/Territory	VIC
State/Province (Not for Australia)	
PostCode/ZipCode	3061

Manufacturing facilities

Address Line 1	10 Dennis St
Address Line 2	
Town/Suburb	Campberfield
Country	Australia - Country
State/Territory	VIC
State/Province (Not for Australia)	
PostCode/ZipCode	3061

What type of relationship does the applicant (or you if you are the applicant) have with the main manufacturing facility?

The applicant is/ I am the manufacturer

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Design and manufacturing control

Do you have full control over all stages of the design, componentry and manufacturing of the road vehicle type that this application covers?
Yes

Please provide a document reference number for your ISO Certificate or summarised QMS:
Vehicle Standards Bulletin VSB1 (Revision 5)....Also see attachment of QMS flow chart

Access information description:

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Extent of compliance

Applicable ADR	Extent of compliance
ADR 01/00 - Reversing Lamps	Not applicable/Exempt
ADR 06/00 - Direction Indicators	Full Compliance
ADR 13/00 - Installation of Lighting and Light Signalling Devices on other than L-Group Vehicles	Full Compliance
ADR 23/03 - Passenger Car Tyres	Full Compliance
ADR 38/05 - Trailer Brake Systems	Full Compliance
ADR 42/05 - General Safety Requirements	Full Compliance
ADR 43/04 - Vehicle Configuration and Dimensions	Full Compliance
ADR 44/02 - Specific Purpose Vehicle Requirements	Full Compliance
ADR 45/01 - Lighting and Light Signalling Devices not Covered by ECE Regulations	Full Compliance
ADR 47/00 - Retroreflectors	Full Compliance
ADR 48/00 - Devices for Illumination of Rear Registration Plates	Full Compliance
ADR 49/00 - Front and Rear Position (Side) Lamps, Stop Lamps and End Outline Marker Lamps	Full Compliance
ADR 51/00 - Filament Lamps	Substantial compliance - otherwise suitable
ADR 52/00 - Rear Fog Lamps	Not applicable/Exempt
ADR 61/03 - Vehicle Marking	Full Compliance
ADR 62/02 - Mechanical Connections Between Vehicles	Full Compliance

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ADR 74/00 - Side Marker Lamps	Full Compliance
ADR 92/00 - External Projections	Full Compliance
ADR 95/00 - Installation of Tyres	Full Compliance
ADR 96/00 - Commercial Vehicle Tyres	Full Compliance

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Contravention of road vehicle legislation

Has the applicant, or in the case of a body corporate any member of the key management personnel, contravened or may have contravened, road vehicle legislation?
No

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Approval details

Approval holder	s47F
Name of contact person	s47F
Email address	s47F
Phone	s47F
Website	

Commencement of approval

Commencement Date

Embargo of variants

Variant(s) will be covered by this embargo	**Embargo date**

Off-shore RAV entry

Are you intending to add vehicles under this type approval to RAV before those vehicles are in Australia?

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MVSA IPA number

Would you like to incorporate an existing IPA number for this vehicle type as part of your new vehicle type approval number under the RVS legislation?	No

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Comments and any other matters

Please provide any comments or additional information to support your application below. You may also upload any relevant supporting documentation, if required.

Attachments

FileName	Caravan ROVER registration Golden Sun CARAVANS application.pdf
FileName	ASIC Company name.pdf
FileName	Quality control of defective goods or Recall Condor.pdf
FileName	TB Quality Management System.pdf
FileName	vsb1-rev-6-20210222.pdf

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Declarations

I/I on behalf of the applicant, declare that:

- the type of vehicle referred to in this application either:
- complies with the applicable national road vehicle standards; or
    - substantially complies with the national road vehicle standards, in which case I have specified the respects or the extents of non-compliance and provided appropriate justification for the non-compliance; and
    - the documents specified in the compliance information form(s) demonstrate that compliance with the applicable national road vehicle standards.
- at the time of making this application, I am able to provide the supporting information for the road vehicle type approval; and
- I will be able to access and provide the original and subsequent versions of the supporting information whilst the approval is in force and for the period of seven (7) years after it expires; and
- I will ensure the supporting information is kept up-to-date whilst the approval is in force; and
- I will be able to arrange for, if required, the Secretary or an inspector to inspect the premises used, or to be used, in the manufacturing process for the vehicle type for the purpose of confirming compliance with the applicable national road vehicle standards and any other requirements of the Act, the Rules or an instrument made under the Act or the Rules.

I/I on behalf of the applicant, declare that the applicant will comply with the conditions to which a road vehicle type approval (if granted) will be subject, including such of the following conditions as may apply to or be specified in the approval:

- The conditions of a vehicle type approval listed in Sections 26-30 of the Road Vehicle Standards Rules 2019.
- If the application includes an embargo date for certain variants – The condition that the holder of the approval must ensure that a relevant person does not enter a vehicle on the RAV under this approval before the Secretary has published a notice relating to the approval on the department's website in accordance with section 223 of the Rules.
- If the application includes a cab chassis variant – The condition that the holder of the approval must provide instructions, guidelines and references to the relevant ADRs that must be met, to each person who is responsible for completing a chassis-cab covered by this approval, before providing the chassis-cab to that person. The completion of the vehicle must be done prior to the vehicle being provided to a consumer for the first time in Australia.
- If the application is for a pre-release evaluation vehicle
    - The condition that the holder of the approval must not provide a vehicle covered by this approval to a consumer.
    - The condition that the holder of the approval must ensure that a vehicle entered on the RAV under the pre-release type approval is only driven on public roads by:
        - persons employed by, or contracted to, the holder of the approval; or
        - persons under the supervision of a person mentioned in paragraph (a); or
        - a member of the motoring press when associated with a structured release program for the vehicle type.
    - The condition that the holder of the approval must:
        - within six months of the date this approval comes into force, be able to provide additional information the kind mentioned in subsection 19(2) of

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the Rules about the compliance of the vehicles covered by the approval with the applicable national road vehicle standards; and
    - provide the information mentioned in paragraph (a) to the Secretary at the Secretary's request.
  - The condition that the holder of the approval must export or destroy any vehicle that has been imported or entered on the RAV under this approval that does not conform to the additional information mentioned above.
- If the application is for a motorhome or campervan
  - The condition that every vehicle entered on the RAV under the approval must be fitted with a durable and permanent label or plaque with information to identify the seating positions that must not be occupied when the vehicle is in motion (and included in the owner's manual for the vehicle); and
  - The condition that seats intended for use solely when the vehicle is stationary must not be provided with seatbelts, child-restraint anchorages or any other equipment that may imply they are intended for use while the vehicle is in motion; and
  - The condition that if a swivelling seat is intended for use while the vehicle is in motion, the seat must be easily lockable without the use of tools and must comply with all applicable requirements in the ADR. A durable and permanent label or plaque must be fitted (and included in the vehicle owner's manual) to advise the correct position for use while the vehicle is in motion; and
  - The condition that the approval holder must ensure that the gross vehicle mass and gross axle load ratings specified for vehicles covered by the approval are appropriate. The vehicle must include a placard identifying the gross axle load ratings for each axle or axle group.
- The condition that the holder of the approval must advise the department, as soon as practicable, if overseas recall action is undertaken in relation to a similar type of vehicle as that to which this approval applies.
- The condition that the holder of the approval must notify the department, as soon as practicable, of any systemic issues with vehicles covered by the approval that:
  - will or may cause injury to any person; or
  - mean that a reasonably foreseeable use (including a misuse) will or may cause injury to any person
  - causes the vehicle to not, or to likely not, comply with the applicable national road vehicle standards (except to the extent or in the respects to which this approval specifies that the type of vehicle is not required to comply with the applicable standards).

I/I on behalf of the applicant, declare that:

- the information contained in this application is true and correct; and
- I have not omitted any matter or thing from this application without which it would be misleading in any material particular.
- if tested, each variant covered by the application would not produce a less favourable result than the result set out in the documents identified within the application to demonstrate compliance with the national road vehicle standards.
- if the application is for pre-release evaluation vehicles and includes substantial compliance – the vehicle type complies with applicable ADRs, other than the relevant versions of ADRs 11, 21, 23, 25, 30, 45, 50, 51, 52, 61, 75, 76, 79, 80, 81, 82, 83, 86, 87, 93, 94, 95 and 96 with which the vehicle type substantially complies, and the vehicle type complies with these standards to an extent that makes it suitable for use on a public road in Australia.

I/I on behalf of the applicant, declare that the applicant will comply with:

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- any conditions specified in the approval; and
- any other requirements of the Act, the Rules, or an instrument made under the Act or the Rules that apply in relation to the holder of the approval or the type of road vehicle.

I/I on behalf of the applicant, understand that, under section 17 of the Rules, the Secretary may request, to assist in deciding whether to grant a type approval:

- further specified information
- to allow or arrange for the Secretary or an inspector to inspect premises where the vehicle or vehicle components are designed or manufactured
- to allow or arrange for the Secretary or an inspector to inspect vehicles of that type or vehicle components of vehicles of the type.

I/I on behalf of the applicant, understand that the Secretary may refuse to consider this application if:

- I do not comply with a request made under section 17 of the Rules; or
- the application is not accompanied by the documents specified as required in the application and/or the application fee; or
- the declarations are not signed.

I/I on behalf of the applicant, understand that the Secretary may also take the following into account when considering the application:

- whether I (and in the case of a body corporate, any member of the key management personnel) have contravened or may have contravened road vehicle legislation; and
- whether the person will comply with the conditions to which the approval will be subject; and
- any other matter the Secretary considers relevant.

I/I on behalf of the applicant, understand that it is an offence or contravention under:

- section 31 of the Road Vehicle Standards Act 2018 to make a false or misleading declaration; and
- section 32 of the Road Vehicle Standards Act 2018 to provide false or misleading information.

☑I, being the applicant, agree to the above and by checking this box, I acknowledge that I am signing this declaration.

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Caravan Chassis Check list

Chassis compliance and audit.

CHASSIS NUMBER:

Chassis conforms to order form.

Chassis Length …… mts

"A" Frame length ……mts

Coupling type fitted to suit electric brake configuration **(Yes/No)**

50mm snap on coupling

DO35

DO45

70mm snap on coupling

Coupling height ground clearance range between 350mm – 460mm……mm

---

Coupling type fitted to suit mechanical brake configuration **(Yes/No)**

Override coupling ……

Hydraulic override coupling ……

Mechanical handbrake fitted **(Yes/No)** ……

Electrical brakes fitted Size 10" or Size 12" **(Indicate size)**

Single Axle under 2000kgs……

Single Axle over 2000kgs……

Tandem Axle 2000kgs to 3500kgs…….

Tandem Axle over 3500kgs……

Tri-Axle under 3500kgs……

Tri-Axle over 3500kgs……..

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---

Integrity of electrical wiring connection for electric braking. **(Yes/No)**

Connections protected and waterproof ……

Electrical gauge sufficient (5mm minimum over 6 metres distance)**(Indicate gauge size of wiring)** …….

Wiring correctly located to avoid overheating …….

Wiring correctly located to avoid contact with moving parts

…….

Protected from chafing ……

Is there an earth wire between trailer and towing vehicle?

……..

Earth wire is not connected to safety chain of coupling

……..

Tyre size **(Indicate size fitted)**

185 x14 ……...

195 x 15 ……...

205 x 15 ……

265 x 16 ……...

Or Add a size ……

Axle fitted **(Indicate amount in Kgs)**

Single Axle

Payload rating ……..kgs

Tandem Axle

Payload rating ……...kgs

Tri-axle

Payload rating ……Kgs

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Safety chains fitted **(Number 1 or 2)**

Single axle

Under 2000kgs ……..

Over 2000kgs ……..

Tandem axle

Over 2000kgs up to 3500kg……

Over 3500kgs (Not welded) ……

Tri-axle

Under 3500kgs ……..

Over 3500kgs (Not welded)…….

Suspensions type **(Indicate type fitted)**

Single Axle slipper suspension …….

Single Axle rocker suspension …….

Tandem Axle rocker suspension ……

Tandem Axle rock and roller suspension……

Tri-Axle rock and roller suspension……..

Single axle independent suspension……..

Tandem axle independent suspension……..

"A" Frame integrity check **(Yes/No)** …….

Inspection of Weld points and consistency of weld flow …….

Quality Control Checked by (Date / /)

……

Print name and signature

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Quality Control

Manufacturing of Caravan

Overall width dimension ……..measurement

Overall height dimension ……..measurement

Overall length (Tow coupling to rear) ……..measurement

Overhang (Centre of axle group to rear) ……..measurement

Quality Control Checked by (Date / /)

……

Print name and signature

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Quality Control
External lighting to Caravan

Right Side clearance lights fitted **(Yes/No)**

Correct clearance colour lights fitted **(Yes/No)**

Number of lights fitted and distance apart …….measurement

Ground level to height of light ……..measurement

Left Side clearance lights fitted **(Yes/No)**

Correct clearance colour lights fitted (**Yes/No)**

Number of lights fitted and distance apart……..measurement

Ground level to height of light ……..measurement

Front clearance lights fitted **(Yes/No)**

Correct clearance colour lights fitted (**Yes/No)**

Number of lights fitted ……

Ground level to height of light ……..measurement

Rear clearance lights fitted **(Yes/No)**

Correct clearance colour lights fitted (**Yes/No)**

Number of lights fitted ……

Ground level to height of light ……..measurement

Rear Stop lights fitted **(Yes/No)**

Correct colour lights fitted **(Yes/No)**

Number of lights fitted ……

Ground level to height of light ……..measurement

Rear Indication lights fitted **(Yes/No)**

Correct colour lights fitted **(Yes/No)**

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Number of lights fitted ……

Ground level to height of light ……..measurement

Rear reflectors fitted **(Yes/No)**

Correct reflector colour fitted (**Yes/No)**

Number of reflectors fitted ……

Ground level to height of reflector ……..measurement

Front reflectors fitted **(Yes/No)**

Correct reflector colour fitted (**Yes/No)**

Number of reflectors fitted ……

Ground level to height of reflector ……..measurement

Left side reflectors fitted **(Yes/No)**

Correct reflector colour fitted (**Yes/No)**

Number of reflectors fitted ……

Ground level to height of reflector ……..measurement

Right side reflectors fitted **(Yes/No)**

Correct reflector colour fitted (**Yes/No)**

Number of reflectors fitted ……

Ground level to height of reflector ……..measurement

Number plate assembly and light **(Yes/No)**

Ground level to height of light ……..measurement

Clear vision of number plate from rear (not obstructed) **(Yes/No)**

Ground level to height of light ……..measurement

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Rear bumper fitted inside body line of caravan **(Yes/No)**

……..

Wheel guards fitted including mud flaps **(Yes/No)** ……..

Road Vehicle Compliance plate fitted **(Yes/No)** ……

VIN number stamped on “A” Frame **(Yes/No)** ……

VIN number is **(Insert VIN No.)** …….

Additional GENERAL CARAVANS REQUIRMENTS

Main access door is fitted on the left-hand side (Kerb side) or at the rear. **(Yes/No)**

……

Fitment of any gas appliances or LPG fitment **(Yes/No)**

Gas compliance certificate provided and by whom ……

Supply Fire Extinguisher **(Yes/No)** ……

Fitment of a toilet - Discharge of black water in separate holding tank

As per ADR42.11. **(Yes/No)** `

……

Caravans fitted with refrigeration and air-conditioners comply with

VSB 1-6 item 24 **(Yes/No)** ……

Quality Control Checked by (Date / /)

……

Print name and signature

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QUALITY CONTROL

Final Inspection Report

All external lighting tested **(Indicate with a**  **)**

Indicator lights

Clearance lights (Front – Rear and side)

Stop lights

Parking lights

Caravan / Trailer plug connection to car **(Yes/No)**

7 Pin round

7 Pin flat

12 Pin flat

All reflectors fitted currently **(Yes/No)**

Front – Rear and sides

Tow coupling fitted correctly and secure **(Yes/No)**

Handbrake Operational and effective **(Yes/No)**

Electric or mechanical brakes tested and effective **(Yes/No)**

Breakaway system installed and operating effectively (Over 2000kgs) **(Yes/No)**

Weights recorded correctly

Tare **(Insert weight……)**

Ball **(Insert weight……)**

ATM **(Insert weight……)**

Axle Group **(Insert weight……)**

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GTM **(Insert weight……)**

Tyre Pressure checked (**Yes/No)**

Wheel nuts tension check **(Yes/No)**

Manufacturer's Compliance plate completed correctly **(Yes/No)**

VIN number stamped on 'A' frame **(Yes/No)**

Trailer / Caravan / Float tow test conducted. **(Yes/No)**

Quality Control Checked by (Date / /)

……..

Print name and signature

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Road vehicle descriptor

Information included in the Road Vehicle Descriptor (RVD) is supplied by the applicant for a vehicle type approval. This information is made available by the department for download to assist in defining the variants covered by the application or approval.

This downloaded version of the RVD is current on the date of the download identified below.

This information has not been verified or approved by the department. The department makes no statements or representations about the accuracy or completeness of this information.

Document Generated: 15/06/2024 10:51

General information

Vehicle type approval number:	VTA-060460 20220615
Make:	Golden Sun Caravans
Model:	TB
Marketing designation:	
Category:	T - Trailers

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List of variant(s)

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Variant information for Appalonia 19ft to 21.6ft

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Aruba 16ft to 22ft

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for BAHAMAS 23FT TO 25FT

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for CALYPSO 21FT TO 24.6FT

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for CARRIBEAN 23Ft to 25ft

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Dusk 16ft to 21.6ft

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for FAMILY ADVENTURE 18.6FT TO 24.6FT

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Family Twilight 18ft to 24.6ft

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Hayoon 18ft to 23ft

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for LA MAISON 23FT TO 25FT

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Pacific 18ft to 23ft

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for ST TROPEZ 19.6FT TO 24FT

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Tropic 16ft to 23ft

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for TROPICANA 20FT TO 24.6FT

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Wild Warrior 16ft to 20ft

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Australian Government

Department of Infrastructure, Transport, Regional Development and Communications

Road Vehicle Standards



VSB 1 – Trailers with an Aggregate Trailer Mass of 4.5 Tonnes or less

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February 2021

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Chapter 1: Introduction

1.1 Indented / Coloured boxes and text in this document

In this document, three different types of coloured breakout boxes are used.

Indented Boxes highlight commonly asked questions

Indented text (no box) contains expansions or clarifications of the main text.

Blue boxes contain information relating to content within VSB1 that is currently subject to review

1.2 Scope

This bulletin is intended to assist manufacturers of trailers with an aggregate trailer mass of 4.5 tonnes or less to understand the Australian Design Rule (ADR) requirements applying to the most common types of trailers meeting this requirement.

Under the Road Vehicle Standards Legislation, trailers with an aggregate trailer mass of 4.5 tonnes or less are expected to comply with the applicable ADRs. Not all trailers with an aggregate trailer mass of 4.5 tonnes or less will need to comply with the same ADRs or ADR requirements. ADR requirements are likely to change from time to time. The department publishes an applicability table for trailers setting out when ADRs become applicable for each trailer category. It can be found on the department's website at:
https://www.infrastructure.gov.au/vehicles/design/adr_online.aspx

The content of the ADRs is periodically reviewed. In the event that VSB 1 becomes inconsistent with the applicable ADRs, the ADRs take precedence. To ensure that you are using the current version of VSB1, please refer to the online version of this document found on the department's website at:
https://www.infrastructure.gov.au/vehicles/vehicle_regulation/bulletin/vsb1/index.aspx

VSB 1 Revision 6 is a subset of requirements from the following ADRs:
ADR 1/00 Reversing Lamps
ADR 6/00 Direction Indicators
ADR 13/00 Installation of Lighting and Light Signalling Devices on other than L-Group Vehicles
ADR 23/03 Passenger Car Tyres
ADR 38/05 Trailer Braking Systems
ADR 42/05 General Safety Requirements

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ADR 43/04 Vehicle Configuration and Dimensions
ADR 44/02 Specific Purpose Vehicles
ADR 45/01 Lighting and Light Signalling Devices not covered by ECE Regulations
ADR 47/00 Retro Reflectors
ADR 48/00 Devices for Illumination of Rear Registration Plates
ADR 49/00 Front and Rear Position (Side) Lamps, Stop Lamps, and End Outline Marker Lamps
ADR 51/00 Filament Lamps
ADR 61/03 Vehicle Markings
ADR 62/02 Mechanical Connections Between Vehicles
ADR 74/00 Side Marker Lamps
ADR 91/00 Rear Underrun Impact Protection
ADR 92/00 External Projections
ADR 95/00 Installation of Tyres
ADR 96/00 Commercial Vehicle Tyres.

Additional requirements applying to more specialised trailers and other options may be set out in the ADRs themselves. Manufacturers or importers of trailers that do not comply with VSB 1 need to consider if their trailer should be modified to comply or if alternative arrangements exist within the ADRs.

This bulletin does not cover the administrative arrangements related to obtaining approvals under the Road Vehicle Standards Act 2018 (RVSA) or for registration by a State and Territory. For further information about the RVSA approval requirements please visit the department's website: https://www.infrastructure.gov.au/vehicles/rvs/index.aspx

Examples of the types of trailers covered by this bulletin are shown in Chapter 3 of this document.

Questions

I want to build a trailer design that isn't covered by this bulletin. Where should I seek guidance?

The Australian Design Rules (ADRs) contain alternative requirements to those covered in this bulletin. You should refer to the applicable ADRs, available on the department's website. Applicable ADRs for trailers include 1,6,13, 23, 38, 42, 43, 44, 45, 47, 48, 49, 51, 61, 62, 91, 92, 95 and 96.

I am thinking of importing trailers for local sale. How should I use this document?

If the trailers are being built to your specifications, you should ensure that they are built to the requirements stated in this bulletin. If they are used trailers, or trailers being built for other markets, in addition to using this bulletin, you should consult the ADRs for alternative requirements that may better suit your circumstances. Note that most trailers not built

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specifically for the Australian market will not be compliant without modification (e.g. to lights and couplings).

I have heard a lot about the specialised testing that is needed when manufacturing a trailer e.g. testing of trailer couplings. I don't have the resources to do this sort of testing, so what approach should I take?

You can buy components with component type approvals. These are components where the testing has been carried out by the component manufacturer. Component type approvals can be used as evidence of compliance with the National Road Vehicle Standards. Component type approvals apply to components such as lamps, couplings, brake systems and safety chains. Note that components approved through this process must be fitted according to the manufacturer's instructions.

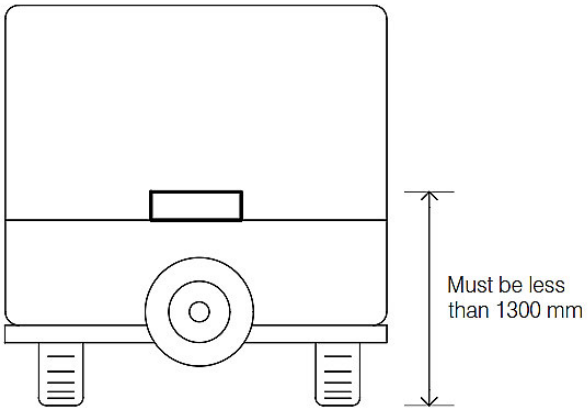
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Chapter 2: Registration

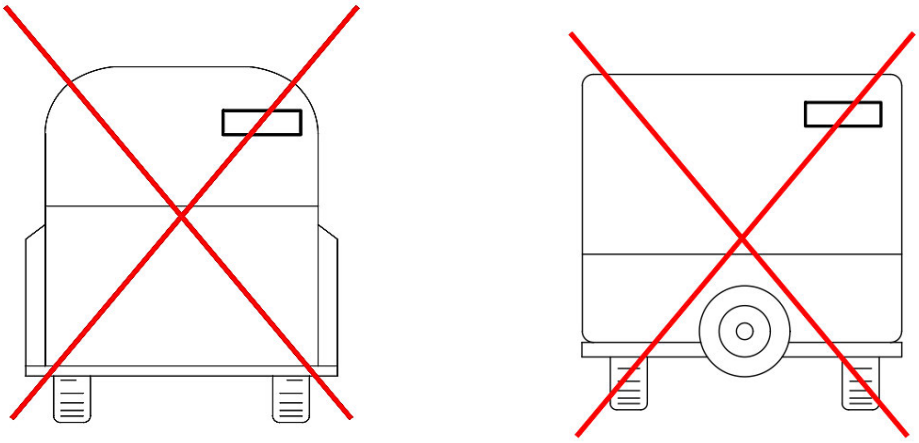
2.1 Rear registration plate (number plate)

Provision must be made for mounting of a 372mm x 136mm registration plate on the rear of every trailer.

- No part of the registration plate may be more than 1,300mm from the ground.
- No part of the trailer (including production options or equipment) can be located so that it obscures any part of the registration plate.
- The plate location must be oriented so that the long edge of the plate is horizontal.
- Registration plate lights must be fitted.



No part of the number plate may be higher than 1,300mm above the ground.



A number plate more than 1,300mm above the ground is not compliant.

Note: The registration plate must be illuminated at night. See Section 6.5.3.

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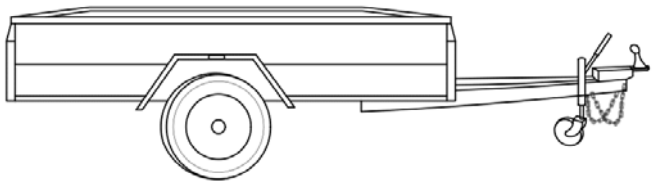
Chapter 3: Types of trailers covered by this bulletin

3.1 Trailer types

This document covers the following trailer types.

3.1.1 Pig trailer

A pig trailer has one axle group placed near the middle of the length of the trailer's goods-carrying surface.



Pig trailer

3.1.2 Dog trailer

A dog trailer has:

- two axle groups
- the front axle group steered by a connection to the tow vehicle.

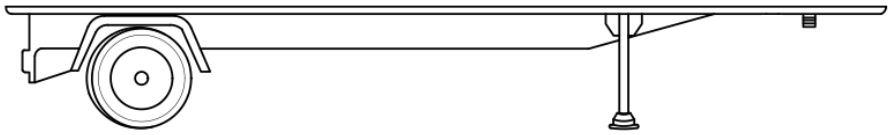


Dog trailer

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Semi-trailer

A semi-trailer has one axle group or a single axle placed towards the rear of the length of the trailer's goods-carrying surface, so that a significant downwards load is placed on the tow vehicle. Some of the goods-carrying surface is positioned over the tow vehicle.



Semi-trailer

3.2 Examples of trailers

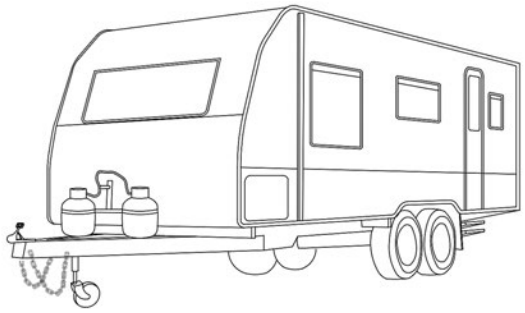
This document covers the following examples of trailers.

3.2.1 Caravan

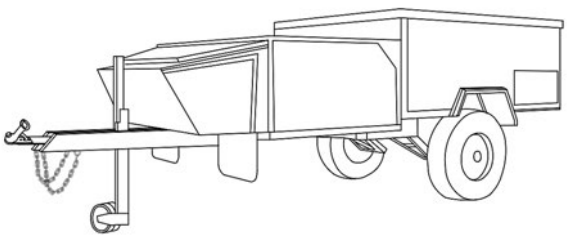
A caravan is an enclosed trailer intended for use as a mobile home or living quarters when it is parked. It usually provides sleeping accommodation and facilities for the preparation of food.

Note that the following are also categorised as caravans:

- mobile kitchens
- mobile offices
- workers' amenity trailers.

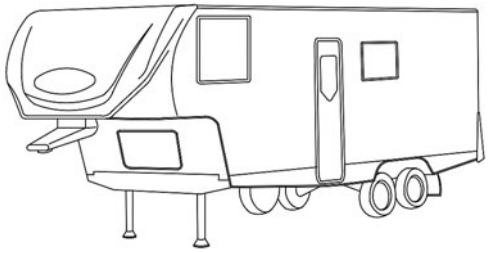


Caravan (Pig trailer)

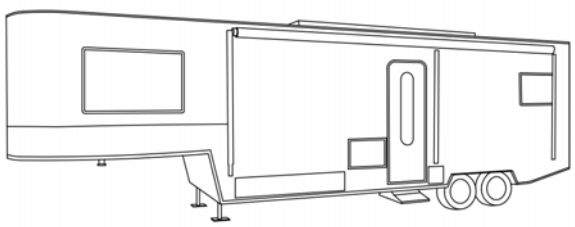


Camper trailer (Pig trailer)

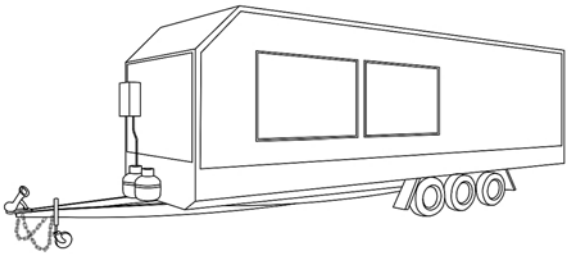
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Goose-neck caravan (Semi-trailer)



Fifth-wheel caravan (Semi-trailer)



Mobile kitchen (Pig trailer)

Question

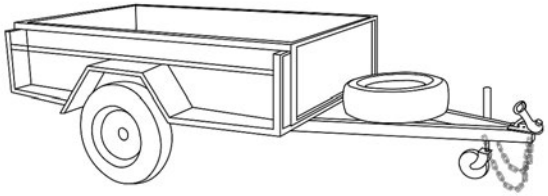
For compliance purposes, are goose-neck and fifth-wheel caravans regarded as semi-trailers?

Yes, they are. This has implications – for example, in the maximum allowable dimensions (Chapter 5) and in rear under-run protection for trailers over 3,500kg GTM (Chapter 13).

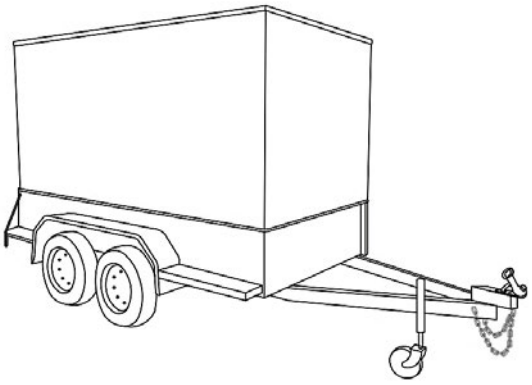
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3.2.2 Box trailer

A box trailer is a general-purpose trailer that has its load space bounded by vertical sides. This category also includes box trailers fitted with a canopy, but which is not equipped as a caravan – for example, a box trailer equipped with temporary sleeping accommodation only.



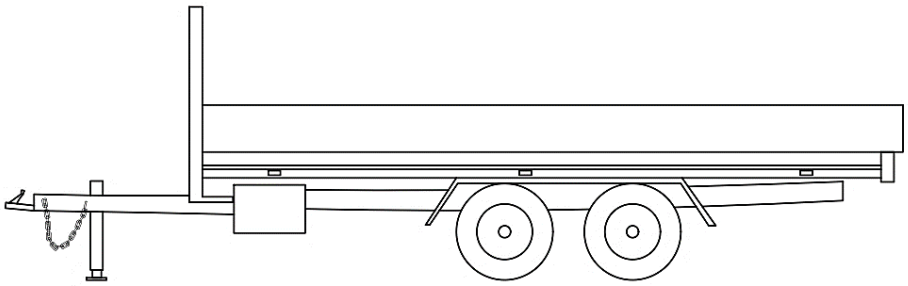
Box trailer



Box trailer with canopy

3.2.3 Tray trailer

A tray trailer is a general-purpose trailer used to carry machinery.

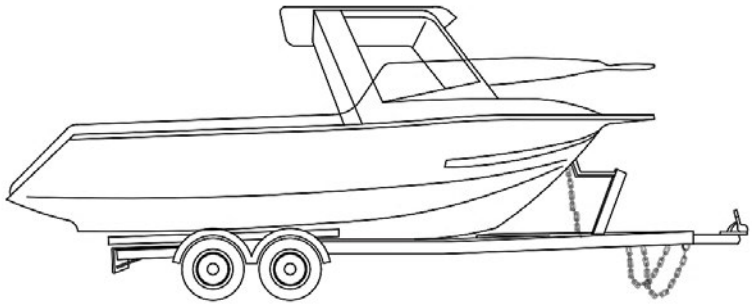


Tray trailer

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3.2.4 Boat trailer

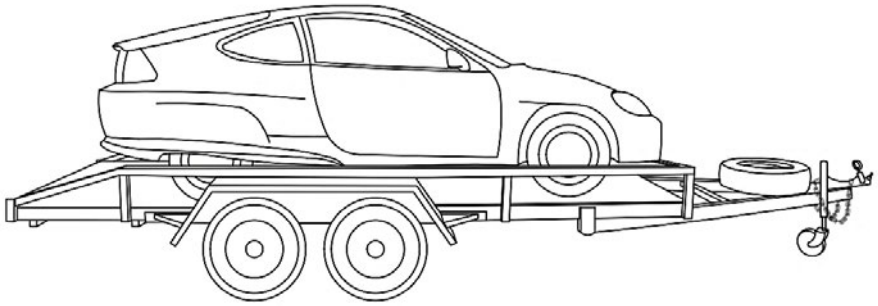
A boat trailer is specifically designed to carry a boat.



Boat trailer

3.2.5 Car trailer

A car trailer is specifically designed to carry a car.

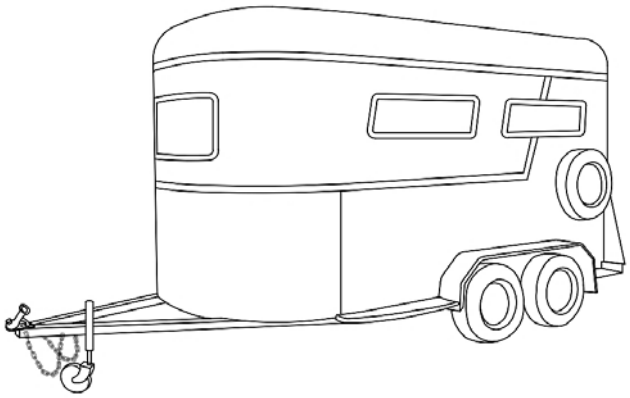


Car trailer

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3.2.6 Horse float

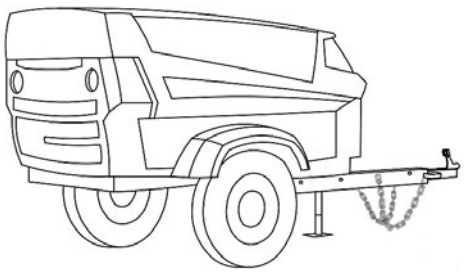
A horse float is a trailer specifically designed to carry one or more horses or similar livestock.



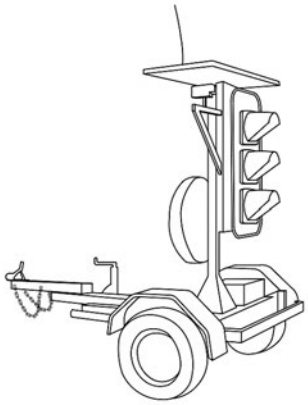
Horse float

3.2.7 Specialised trailers

Specialised trailers do not have a load space. Instead, they have been designed to carry permanently fixed machinery or other equipment.



Air compressor

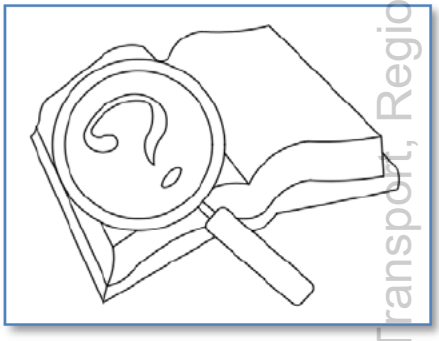


Traffic lights

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Chapter 4: Definitions



4.1 The Act

The Act means the *Road Vehicle Standards Act 2018*.

4.2 The Rules

The Rules means the Road Vehicle Standards Rules 2019.

4.3 Register of Approved Vehicles (RAV)

The Register of Approved Vehicles (RAV) is an online, publicly searchable, database of vehicles approved for use on Australian roads. See also Section 14 of the Act.

4.4 Australian Design Rules (ADRs)

The ADRs mean the Australian Design Rules.

Note: The Australian Design Rules are national road vehicle standards determined by the Australian Government under section 12 of the Act.

4.5 Component type approval

A component type approval is an approval for a road vehicle component, issued under section 177 of the Road Vehicle Standards Rules 2019. Component type approvals may be used as evidence of compliance with the National Road Vehicle Standards (the ADRs).

Component type approvals apply to components such as:

- lamps
- couplings
- brake systems
- tyres
- safety chains
- chassis, including drawbars.

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4.6 Road trailer

A road trailer is:

- a vehicle without motive power designed for attachment to a road motor vehicle; or
- a piece of machinery or equipment that is equipped with wheels and designed to be towed behind a road motor vehicle.

4.7 Trailer categories

- **Very light trailer (TA)** - A single-axle trailer with a GTM not exceeding 750kg.
- **Light trailer (TB)** - A trailer with a GTM not exceeding 3,500kg, other than a trailer of Category TA.
- **Medium trailer (TC)** - A trailer with a GTM exceeding 3,500kg but not exceeding 10,000kg.

Note 1: The above categories use GTM – Gross Trailer Mass. The definition of GTM is shown in section 4.9 below.

Note 2: The medium trailer (TC) category extends up to 10,000kg GTM; Most trailers in the TC category will have an aggregate trailer mass(ATM) exceeding 4,500kg. This bulletin only applies to those trailers with an ATM not exceeding 4,500kg. See below for an explanation of the terms Gross Trailer Mass and Aggregate Trailer Mass.

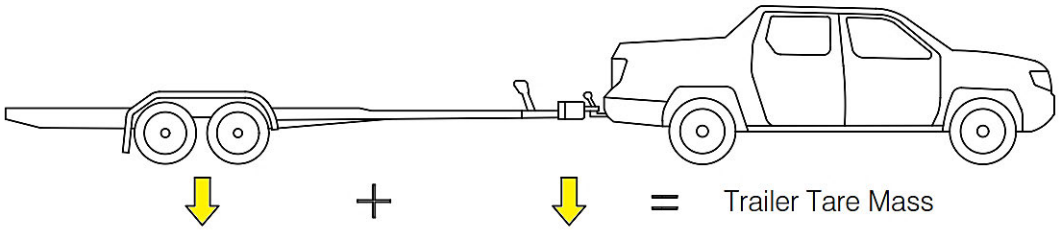
4.8 Tare Mass

The definition of trailer tare mass in the following section is currently under review

Tare Mass is the total mass of the trailer when not carrying any load, and with all fluid reservoirs (if fitted) filled to nominal capacity. (Fluid reservoirs do not include water tanks and waste water tanks in caravans.) Tare Mass includes the mass imposed on the towing vehicle, when the combined tow vehicle and trailer are resting on a horizontal surface. Tare mass is specified:

- with the trailer ‘ready for service’, that is with all standard equipment and any options fitted
- at the time of entry onto the RAV.

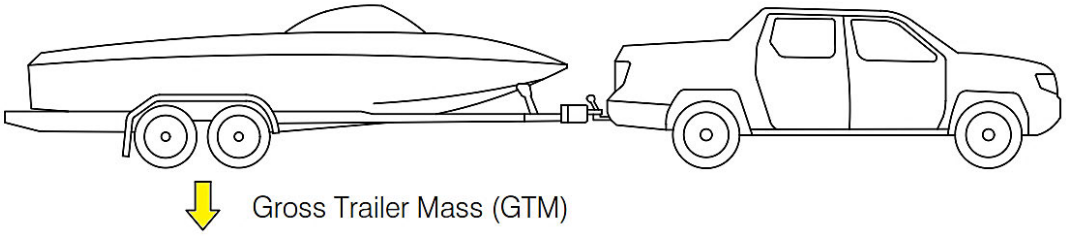
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The Tare Mass is made up of the weight acting downwards through both the trailer's tyres and the trailer's coupling. With this specification, the trailer is unladen and is ready for service, with all standard equipment and optional accessories fitted.

4.9 Gross Trailer Mass (GTM)

GTM is the specified mass transmitted to the ground by the tyres of the trailer when coupled to a towing vehicle and carrying the maximum load recommended by the manufacturer, approximately uniformly distributed over the load-bearing area. The manufacturer must have shown the trailer complies with the ADRs at this mass.



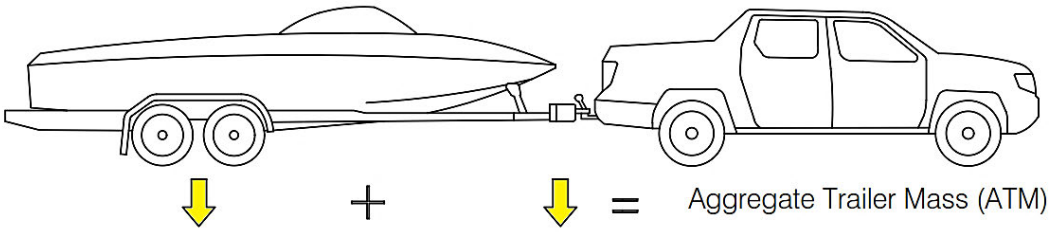
The Gross Trailer Mass (GTM) is the maximum weight (as set by the manufacturer) the trailer may apply through the trailer's tyres. In this specification, the trailer is fully loaded.

4.10 Aggregate Trailer Mass (ATM)

ATM is the total mass of the trailer when carrying the maximum load recommended by the manufacturer. ATM includes the mass imposed on the towing vehicle, when the combined tow vehicle and trailer are resting on a horizontal surface.

Note: The maximum load the trailer can carry is the same when determining both GTM and ATM.

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The Aggregate Trailer Mass (ATM) is the maximum weight acting downwards through both the trailer tyres and the trailer coupling the trailer is designed for. In this specification, the trailer is fully loaded.

Questions

I am confused about GTM and ATM. What's the difference between them?

First, both ATM and GTM are manufacturer-specified ratings – that is, they cannot be measured on a weigh-bridge. Second, it's important to note that both ATM and GTM apply only when the trailer is carrying the maximum load it is designed to carry, and that load is distributed evenly across the load-carrying area. (Or, in the case of a boat trailer or caravan, load is positioned as specified by the trailer manufacturer.)

ATM is the total permitted mass of the trailer and its load, including the downwards force acting on the tow vehicle. GTM is the maximum permitted mass of the fully-loaded trailer that acts only through the trailer wheels, and so doesn't include the downwards force on the tow vehicle.

If the trailer is at maximum load and is loaded evenly (or as specified by the manufacturer), ATM minus GTM equals the tow-ball down-weight.

How are ATM and GTM determined?

ATM and GTM are manufacturer specifications. Both must be developed through engineering calculations and expertise that consider factors including:

chassis strength

wheel, axle and tyre ratings

towing stability.

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How does Tare Mass and Aggregate Trailer Mass (ATM) determine how heavy a load can be carried on trailer?

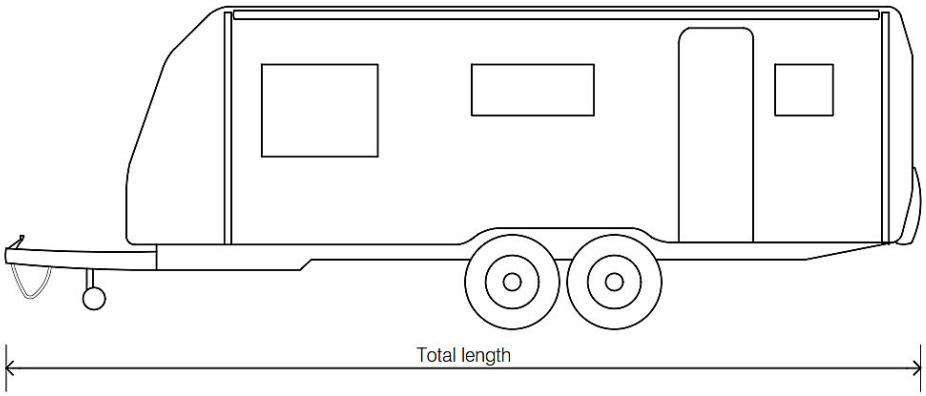
In all trailers, ATM minus Tare Mass equals the maximum load the trailer can carry. For example, if a car trailer has a Tare Mass of 700kg and the ATM is specified at 2,000kg, the trailer can carry a car that has a mass of up to 1,300kg.

What weight ratings are manufacturers required to state?

Both the vehicle plate and the RAV list ATM, GTM and Tare Mass. A breach of the Act is committed if a manufacturer or importer incorrectly states any of these values.

4.11 Length (Total length)

Length is the longitudinal distance between the extreme front and rear of the trailer.

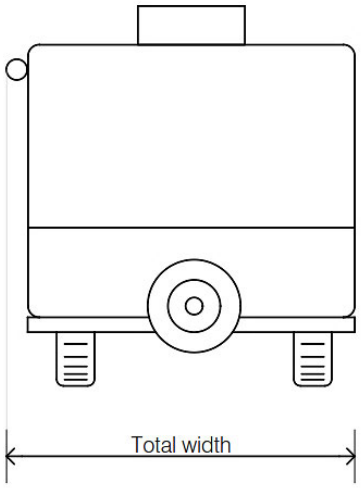


The total length of a trailer includes the length of the drawbar and coupling, and any rear protrusions such as a spare wheel or rack.

4.12 Width (Overall width)

Width is the maximum distance measured across the body, including wheel guards but excluding side-mounted lamps required for compliance.

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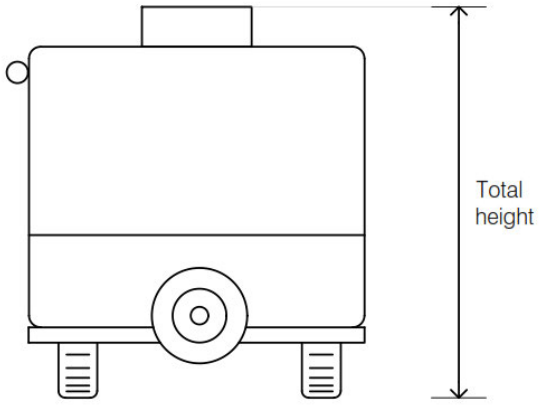


The total width of a trailer includes any protrusions such as a side-mounted awning on a caravan. However, it excludes lamps required for compliance.

Note: Overall width is the maximum width of the vehicle measured across the body. It includes wheel guards, side-mounted spare wheels, side-mounted racks and awnings. It does not include lamps required for compliance, permanently affixed load restraint devices or tyre pressure and inflation devices.

4.13 Height (Total height)

Height is the maximum distance measured from the road surface to the highest point of the trailer.



The total height of a trailer includes any protrusions such as a roof-mounted air-conditioner on a caravan.

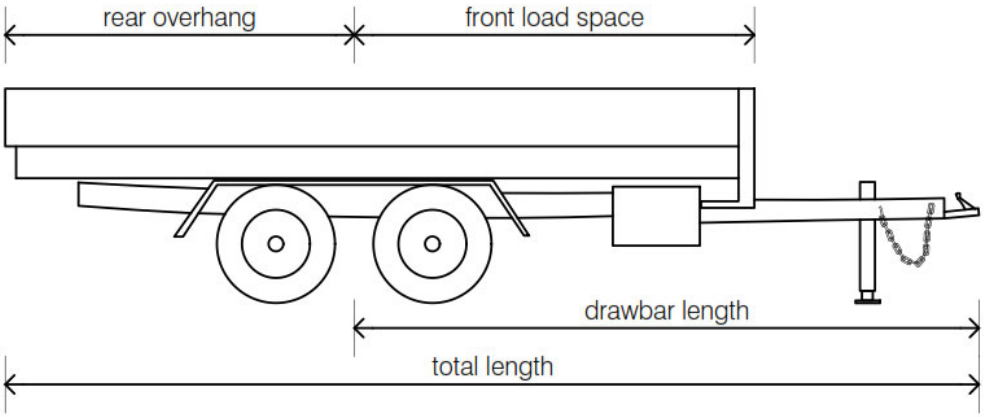
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Chapter 5: Dimensions

5.1 Length

5.1.1 Pig trailers

- Maximum drawbar length – 8,500mm. except for convertor dollies which must not exceed 5000mm
- Maximum rear overhang – 3,700mm or the length of the front load space, whichever is smaller.
- Maximum length of a pig trailer – 12,200mm.



Key length dimensions of pig trailers.
The maximum total length of a pig trailer is 12,200mm (12.2 metres).

Questions:

What is the front load space?

This is not (yet) defined in the ADRs, but load space includes that part of the length of the trailer designated by the manufacturer for the carriage of load. The front load space on a pig trailer must not be less than the rear overhang to ensure downforce on the tow coupling.

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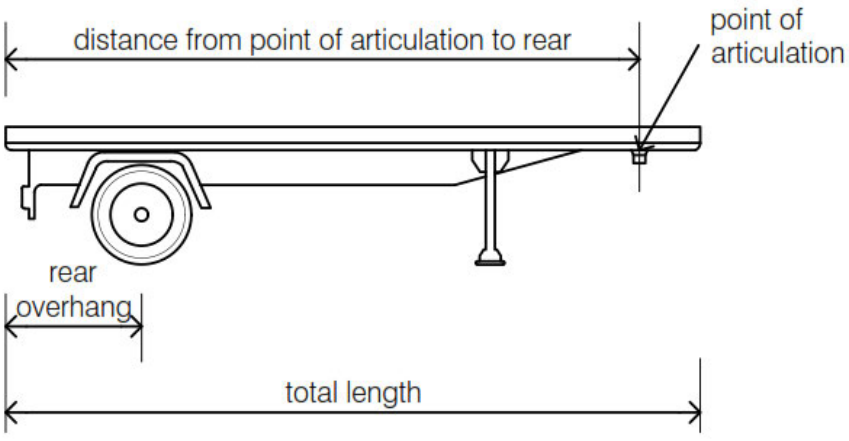
If I put gas cylinders or storage boxes on the drawbar are they part of the front load space?

Answer: Yes, however the drawbar must not be modified from the configuration it was tested in to support load or another drawbar test must be conducted.

5.1.2 Semi-trailers

- The distance from the point of articulation to the line from which the rear overhang is measured must not exceed 9,500mm.
- Maximum rear overhang – 3,700mm or 60% of the distance between the point of articulation and the forward line from which the rear overhang is measured, whichever is smaller.
- The forward projection from the point of articulation must be contained within a radius of 1,900mm.
- The distance from the point of articulation to the rear of the trailer must not exceed 13,200mm.

Note: Special requirements apply for trailers to be used in road trains and b doubles or refrigerated trailers see ADR 43/…

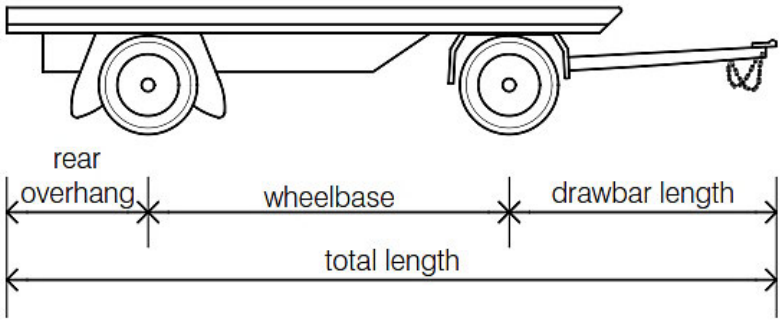


Key length dimensions of semi-trailers

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5.1.3 Dog trailers

- Maximum drawbar length – 5,000mm.
- The distance from the point of articulation to the line from which the rear overhang is measured (wheelbase) must not exceed 9.5m.
- Maximum rear overhang – 3,700mm or 60% of the wheelbase, whichever is smaller.



Key length dimensions of dog trailers

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5.2 Width

- Maximum width – 2,500mm.

Note: Overall width is the maximum width of the vehicle measured across the body. It includes mudguards, side-mounted spare wheels, side-mounted racks and awnings. It does not include lamps required for compliance, permanently affixed load restraint devices or tyre pressure and inflation devices.

5.3 Height

- Maximum height – 4,300mm.
- Maximum height livestock trailer – 4,600mm.

5.4 Running clearance

All Trailers must have a running clearance of 100mm or greater.

Running clearance is the distance from the surface on which an unladen vehicle is standing to the lowest point on the vehicle. This distance does not apply to parts of the vehicle that are not supported by the suspension.

Ground clearance measurements should be made with the trailer body horizontal and under the condition of maximum loaded test mass. Ground clearance measurement excludes unsprung mass (that is, the tyres, wheels, axles and other parts of the suspension that move up and down over bumps). In addition, the minimum ground clearance measurement does not include flexible mud flaps.

5.5 Ground clearance

There is only a ground clearance requirement for space between two consecutive axles. The limits that apply are:

- For the midpoint between two consecutive axles, the dimension in millimetres obtained by multiplying the distance between those axles in metres by 33.33.
- For any other point, the vehicle will pass over the apex of two intersecting planes where the planes have a 1:15 gradient.

Image to be provided demonstrating ground clearance requirements

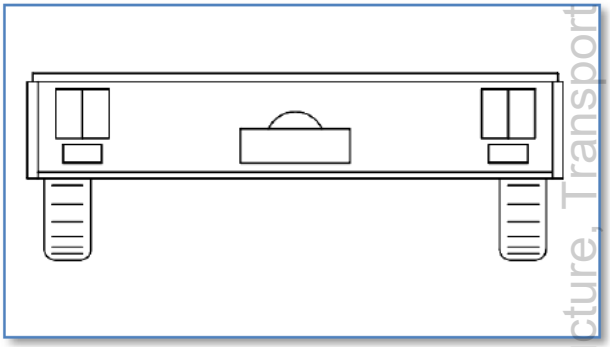
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Chapter 6: Lighting

The content of the lighting ADRs in following section is currently under review

6.1 General requirements



The ADRs specify the following lighting aspects:

- number of lamps and reflectors
- location of lamps and reflectors
- colour of lamps and reflectors
- geometric visibility of lamps and reflectors
- electrical behaviour of lamps.

The requirements specified in the ADRs for the performance and installation of lamps and reflectors are based on the regulations set by the United Nations. The ADRs provide many options for fitting lamps to trailers. VSB1 describes only a limited set of these options. Should your trailer not meet the VSB1 requirements, you should consult the ADRs for alternative options before changing the design.

Trailer manufacturers must ensure they purchase and fit compliant lamps. This may be done by:

- Using lamps and/or reflectors where the lamp manufacturer provides a copy of the UN approval related to the lamp or reflector.
- Purchasing a lamp covered by a component type approval. Component type approvals can be checked by searching the number given by the component manufacturer on the component type approval web page.

In either case, the lamps and reflectors must be:

- appropriate for the specific location and use on the trailer
- fitted according to the provided instructions
- fitted so that no part of the trailer or its equipment obstructs the lamp output or obscures the reflectors.

Lamps on a trailer must operate with the corresponding lamps on the towing vehicle. Where pairs of lamps or reflectors are fitted, they must be spaced equally on either side of the centreline of the trailer.

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Questions

I am building a one-off trailer. Can I source my trailer lights and reflectors cheaply online?

You can buy the lamps and reflectors anywhere you wish, but you must be certain that the lamps and reflectors are compliant. Usually this will involve checking the component type approval of each type of lamp and reflector that you are using on the department's web page. Using non-compliant lamps or reflectors and then entering the trailer on the RAV is a breach of the Act.

I am an importer of trailers. Do the positions of lamps on my trailers have to comply exactly with what is covered here?

The ADRs contain alternative standards that may be applicable to your trailers.

6.2 Careful!

This document divides the requirements for trailer lamps and reflectors into three categories:

- rear lamps and reflectors
- front lamp and reflectors
- side lamps and reflectors.

Lighting is a major area where inspections by the department often show non-compliance. Trailer manufacturers and importers are advised to:

- work methodically through these requirements
- ensure that the lamps and reflectors are approved for use in Australia
- ensure that the lamps and reflectors are mounted according to the supplied instructions.

6.3 Alternative names for lamps

Terms used in describing lighting vary. Here is a summary of equivalent terms:

- lights = lamps
- tail lamps = rear position lamps
- brake lamps = stop lamps
- indicator lamps = direction lamps
- clearance lamps = end-outline marker lamps
- reflectors = retro reflectors

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- marker = side-marker.

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6.4 Essential lighting – summary

The lamps and reflectors shown in the table below **must** be fitted to all trailers of the stated dimensions.

Additional lamps (e.g. centre high mount brake lamps and reversing lamps) may be optionally fitted. All lamps and reflectors, whether optional or not, must meet the requirements stated in the ADRs.

Trailer dimension	Required lamps and reflectors
All trailers, irrespective of size	• Rear position lamps • Rear brake lamps • Rear indicator lamps • Rear reflectors • Rear registration (number) plate lamp • Front reflectors • Side reflectors.
More than 4,000mm long and more than 1,600mm wide, or over 1,800mm wide	• Front position lamps.
Wider than 2,100mm	• Front and rear clearance lamps • Side-marker lamps.
Longer than 6,000mm	• Side-marker lamps.

*ADR 13/00 only permits the use of rear retroflectors non triangular if they are combined with other rear lamps. Triangular rear retro reflectors are optional.

Note: Alternative arrangements apply to red/amber side marker lamps. See ADR 13/00 for details.

6.5 Rear lamps and reflectors

6.5.1 Tail lamps, brake lamps, rear indicators and rear reflectors

6.5.1.1 Colour, number and location

All trailers must be fitted with two rear:

- tail lamps
- brake lamps
- indicator lamps
- reflectors.*

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*Reflectors are optional. Triangular reflectors may be fitted separate to other lamps, non-triangular reflectors must be combined with other signaling lamps.

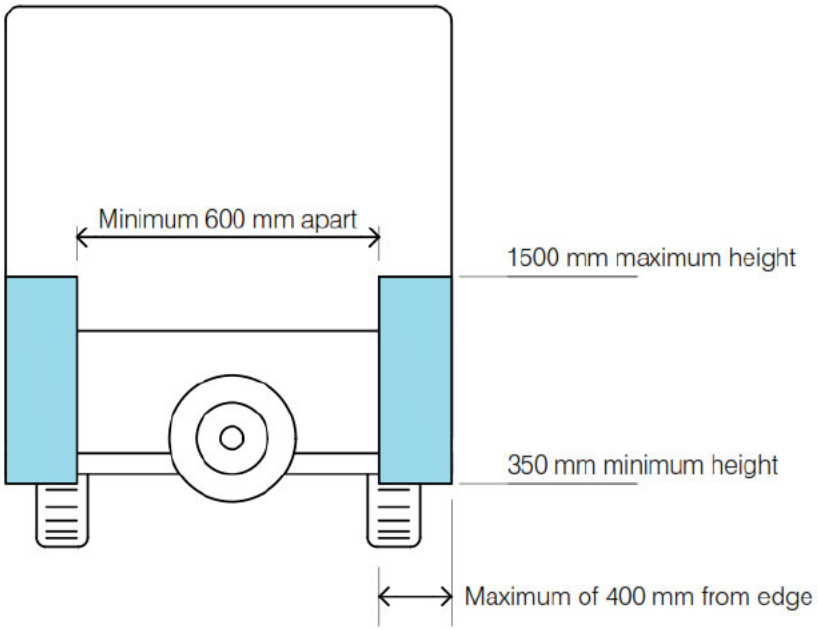
Item	Colour	Location
Tail lamps	Red	350mm minimum height 1,500mm maximum height* Maximum of 400mm from trailer edge Minimum of 600mm apart.**
Brake lamps	Red	
Indicator lamps	Amber	
Reflectors****	Red	250mm minimum height not more than 900mm maximum height*** Maximum of 400mm from trailer edge Minimum of 600mm apart.**

* may be increased to 2,100mm if bodywork design requires this.

**may be reduced to 400mm if trailer width is less than 1,300mm.

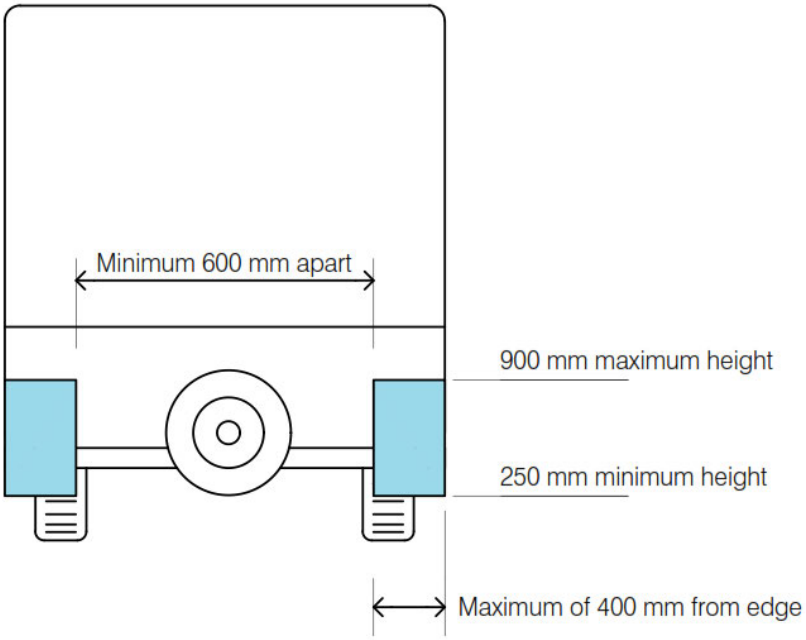
*** may be increased to 1,500mm if bodywork design makes it impossible to keep within the 900mm limit or 1200mm limit if the reflectors are grouped with other lamps.

**** Reflectors are optional. Triangular reflectors may be fitted separate to other lamps; non-triangular reflectors must be combined with other signalling lamps.



If bodywork is present, the extreme edges of the tail, brake and indicator lamps must be positioned within the blue rectangles.

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If bodywork is present, the extreme edges of the reflectors must be positioned within the blue rectangles.

6.5.1.2 Geometric visibility

All lamps and reflectors fitted to trailers have geometric visibility requirements. These requirements state the field of view within which the lamp or reflector must be visible.

For each lamp or reflector type, geometric visibility requirements are stated for:

- horizontal visibility
- vertical visibility.

When planning the installation of lamps and reflectors, care should be taken that the geometric visibility requirements are met.

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Item	Geometric visibility	
	Horizontal	**Vertical**
Tail lamps	45 degrees inwards* 80 degrees outwards	15 degrees above and below horizontal**
Brake lamps	45 degrees inwards*** 45 degrees outwards	
Indicator lamps	45 degrees inwards 80 degrees outwards	
Reflectors (non-triangular)	30 degrees inwards 30 degrees outwards	10 degrees above and below horizontal
Reflectors (triangular)	30 degrees inwards 30 degrees outwards	15 degrees above and below horizontal****

* Where the tail lamp is mounted at a height of less than 750mm, the inward angle may be reduced to 20 degrees under the horizontal plane.

** Where a lamp is mounted at a height of less than 750mm, the downward angle may be reduced to 10 degrees.

** Where the tail lamp is mounted at a height of less than 750mm, the downward angle of 15 degrees may be reduced to 5 degrees.

** Where the tail lamp is mounted above 2,100mm the upward angle of 15 degrees may be reduced to 5 degrees.

** Where the brake lamp is mounted below 750mm the vertical angle may be reduced to 5 degrees downwards.

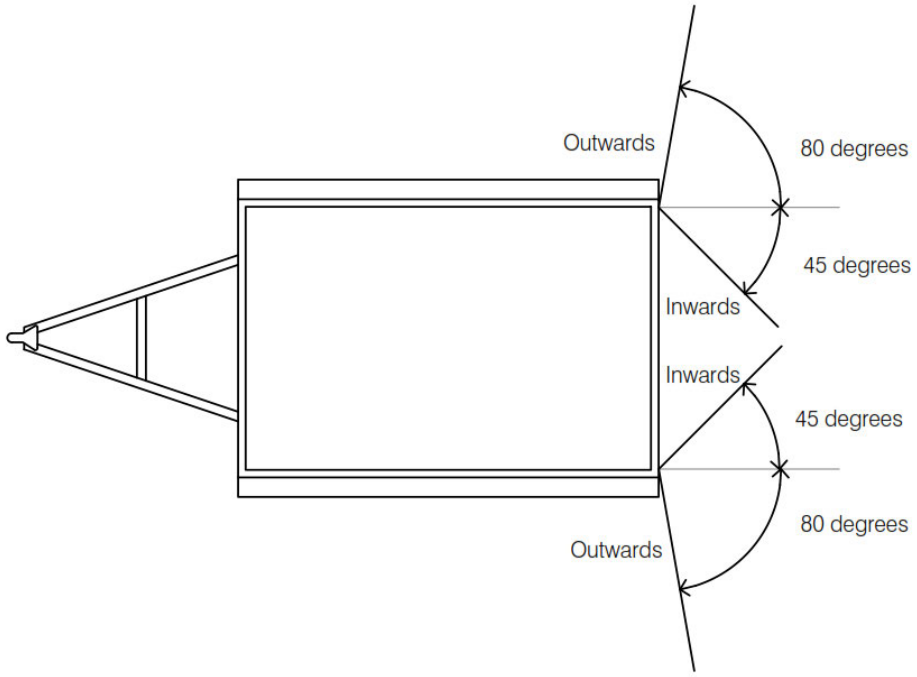
*** Where the brake lamp is mounted below 750mm the horizontal angle may be reduced to 20 degrees inwards.

**** Where a triangular reflector is mounted at a height of less than 750mm, the downward angle may be reduced to 5 degrees.

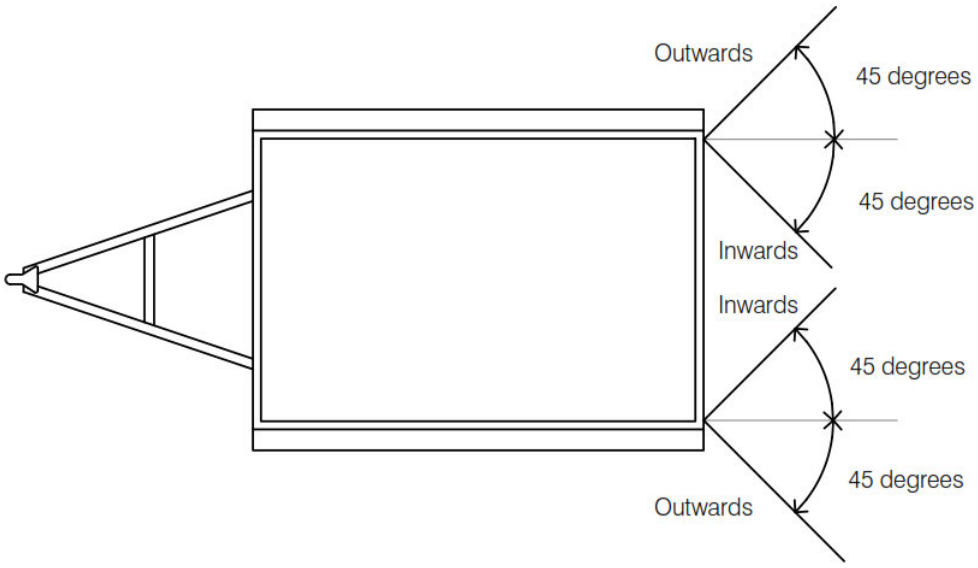
Note the requirement for tail lamps and indicator lamps to be visible from an 80 degrees outwards angle.

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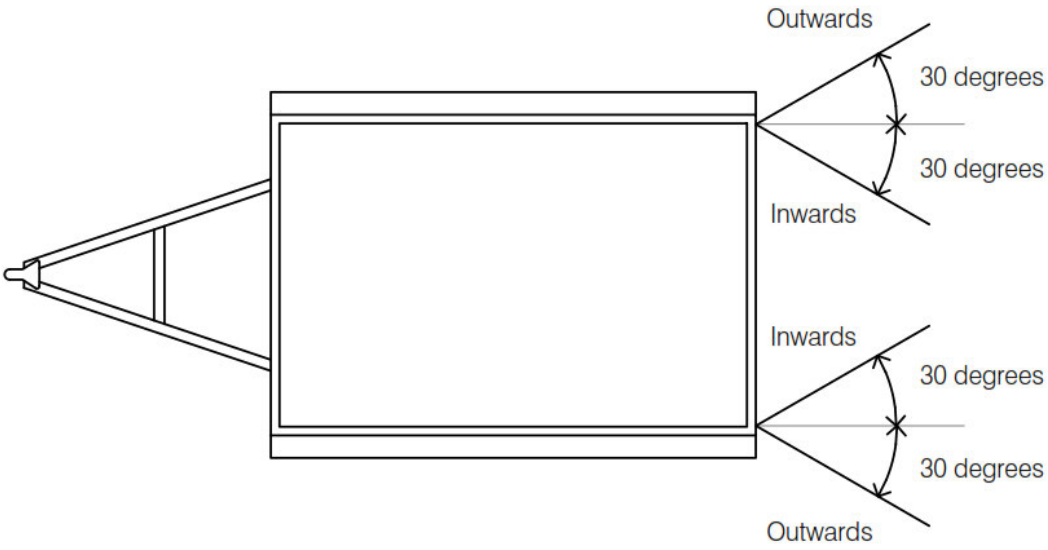


The tail lamps and indicator lamps must be horizontally visible from 80° outward and 45° inward angles.

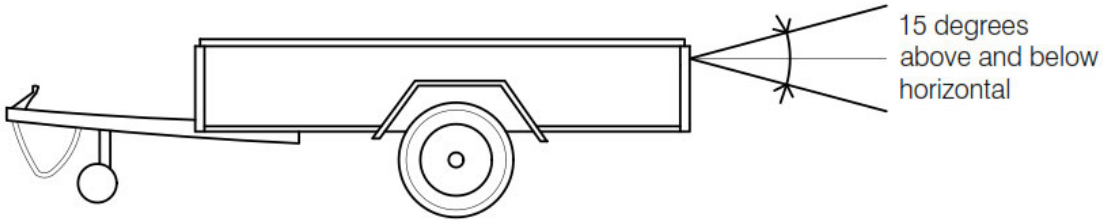


The brake lamps must be horizontally visible from 45°, both inwards and outwards.

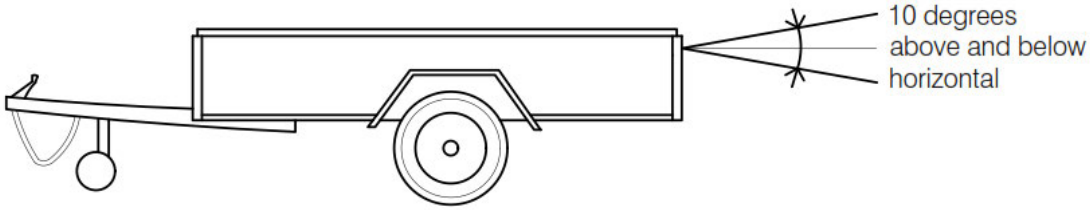
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The rear reflectors must be horizontally visible from 30 degrees, both inwards and outwards.

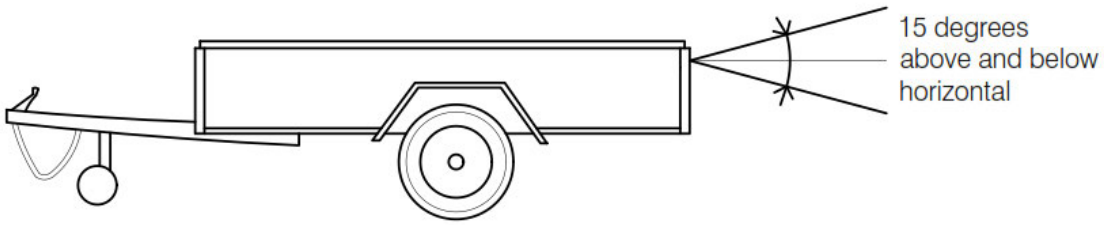


The tail, brake and indicator lamps must be vertically visible 15 degrees above and below horizontal.



Non-triangular rear reflectors must be vertically visible 10 degrees above and below horizontal.

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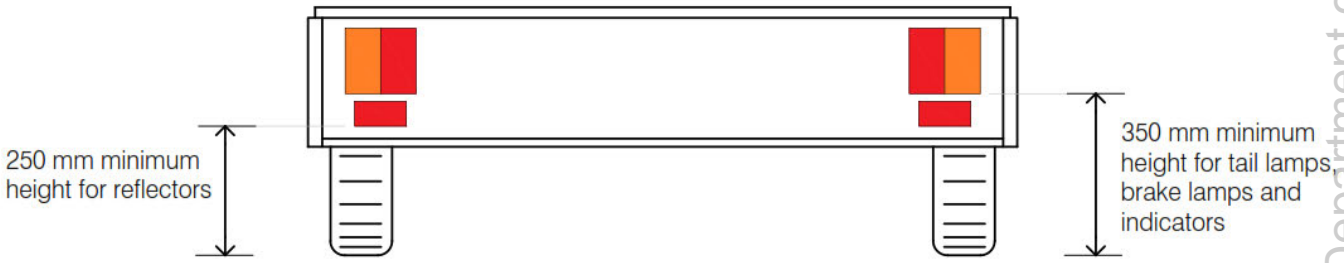


Triangular rear reflectors must be vertically visible 15 degrees above and below horizontal

6.5.2 Common mistakes in rear lamps and reflectors

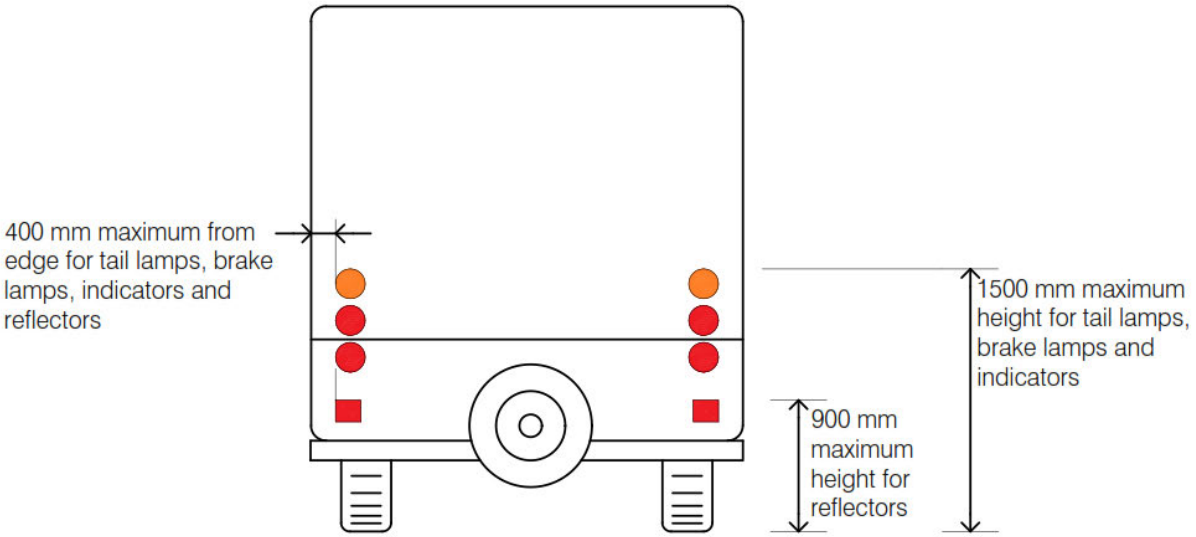
The following diagrams show areas where mistakes are often made in:

- rear lamp and reflector locations
- geometric visibility.

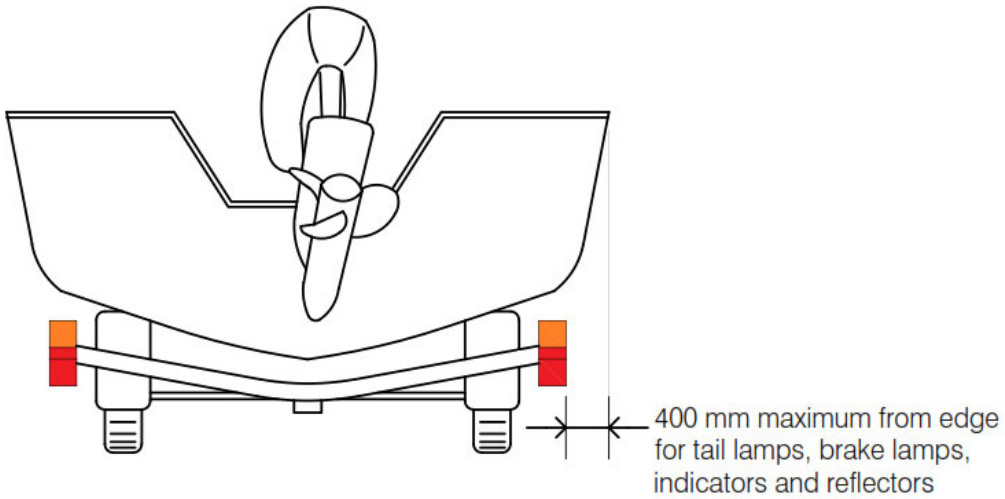


Ensure that rear lamps and reflectors meet the minimum height requirement.

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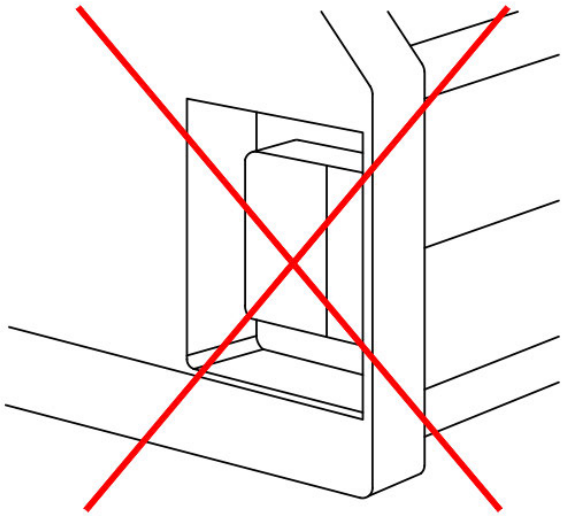


On a caravan, ensure that lamps and reflectors are not positioned too high or too far inwards from the edge of the vehicle.

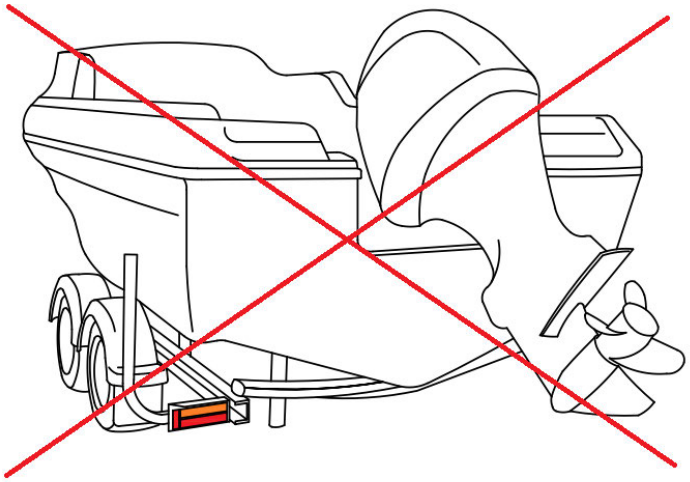


When a boat trailer is carrying the boat for which it was designed, ensure that the lamps and reflectors are not positioned too far inwards from the edge.

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Tail and indicator lamps must be horizontally visible from an outwards angle of 80 degrees. Deeply recessed lamps, without an opening on the outer side of the bodywork, may not meet this requirement.



On boat trailers ensure that all rear lights are visible from a 45 degrees inwards angle. The configuration shown here is non-compliant, as the right-hand side group of lights cannot be seen from this angle.

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6.5.2.1 Electrical operation

Item	Electrical operation
Tail lamps	Must operate when tow vehicle's tail lamps are illuminated.
Brake lamps	Must operate when the tow vehicle's brake lamps are illuminated, and when the service brakes (if fitted) on the trailer are operating.
Indicator lamps	Must operate: • when the tow vehicle's indicators are operating • via a single control, independent of other lamps • at a flash rate within the range of 60 - 120 flashes per minute. On each side of the trailer, they must also flash together.

6.5.3 Rear registration (number) plate lamp

All trailers must be fitted with a rear registration (number) plate lamp.

- At least one lamp must be fitted (although note that some registration plate lamps have been approved to be fitted only as a pair).
- The lamp must illuminate the registration plate with white light.
- No light may be directed rearwards.

6.5.4 Reversing lamps

Reversing lamps are optional on trailers.

If fitted, the following applies:

- One or two lamps on trailers of less than 6,000mm length.
- Two lamps on trailers of over 6,000mm length.
- Maximum height of 1,200mm.
- Minimum height of 250mm.
- Must operate only when reversing lights are operating on the tow vehicle.

Item	Geometric visibility	
	Horizontal	Vertical
Reverse Lamps (If one lamp fitted)	45 degrees left and right	15 degrees above horizontal

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		5 degrees below horizontal
Reverse Lamps (If two lamps fitted)	45 degrees outwards and 30 degrees inwards	15 degrees above horizontal 5 degrees below horizontal.

Questions

Are reversing lights required on caravans?

Reversing lights are optional on all trailers. Pin 2 in both 7-pin and 12-pin plugs is designated for reversing lights or signals.

6.5.5 Centre high mounted stop lamp

Centre high mounted stop lamps are optional on trailers.

If fitted, the following mounting location applies:

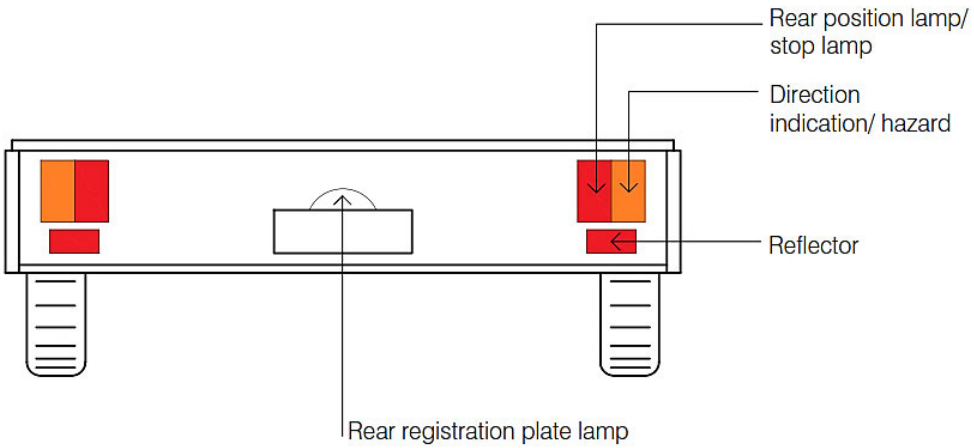
- less than 150mm below the bottom edge of the rear window (e.g. on a caravan), or
- minimum height of 850mm
- the lower edge of the centre high mounted stop lamp must be located above the upper edge of the stop lamps.

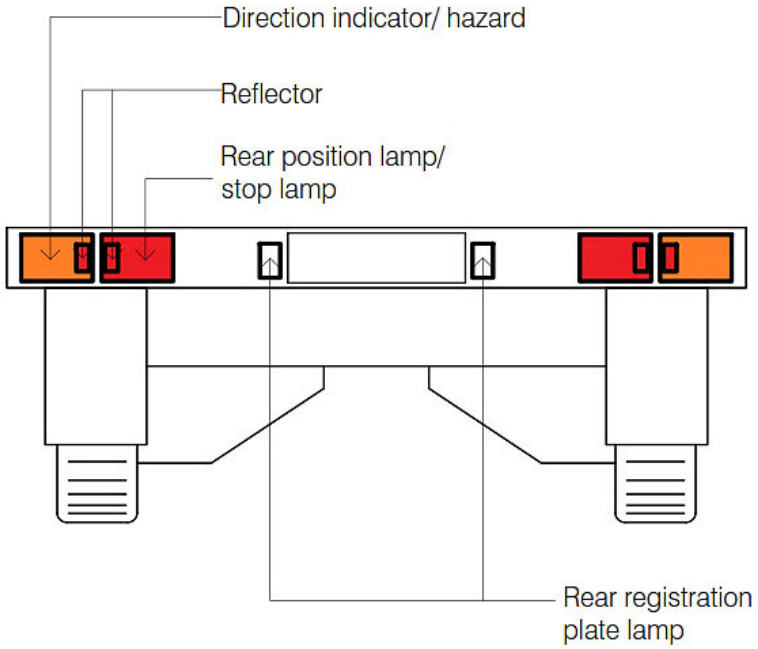
6.5.6 Grouping of rear lamps

Rear lamps and reflectors may be grouped, as long as their individual requirements are still met.

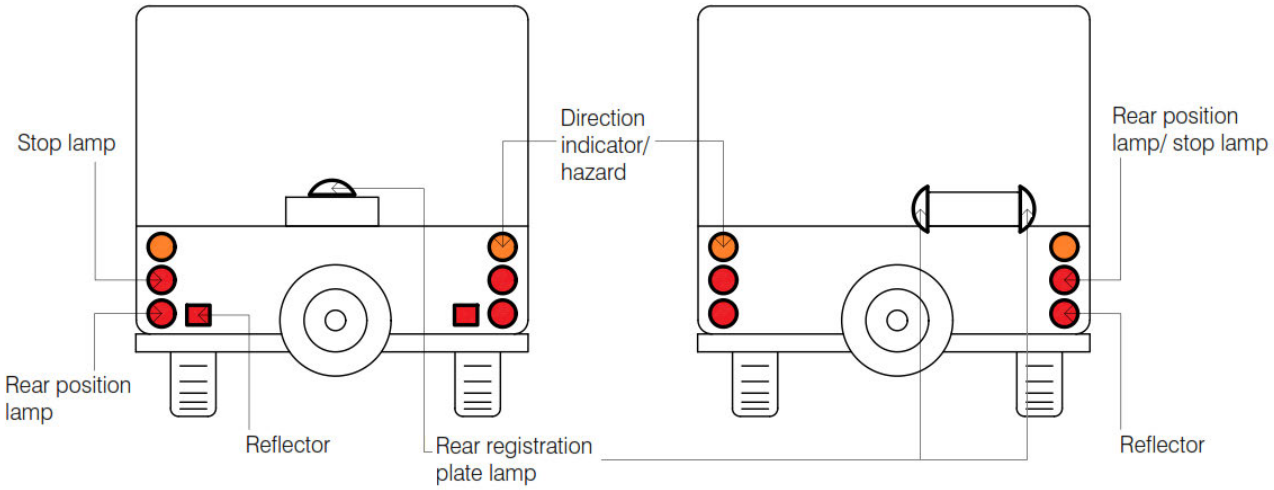
The following examples are compliant.

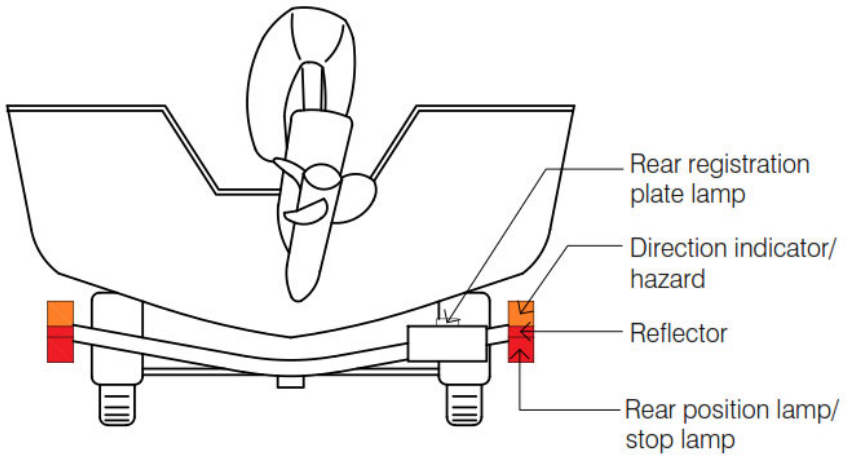
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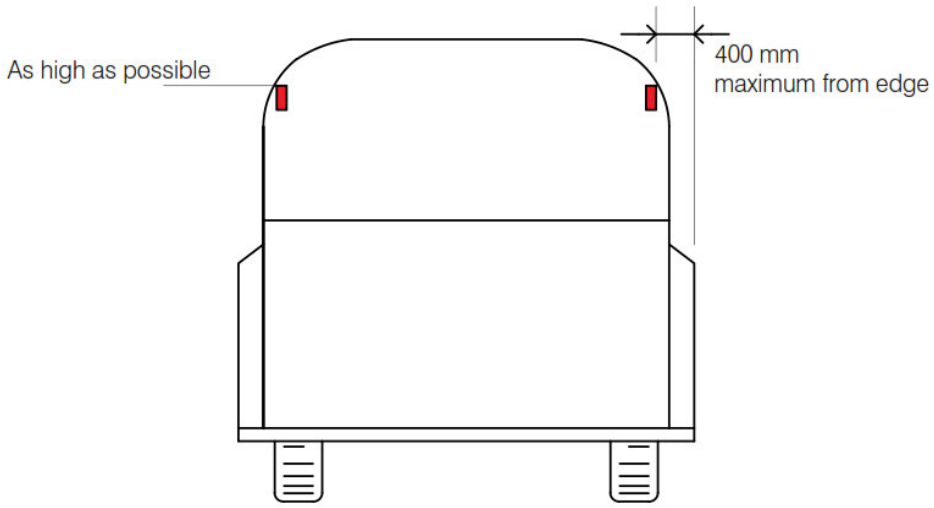
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6.5.7 Rear clearance lamps – wide trailers

If the trailer is more than 2,100mm wide, two rear clearance (end-outline) lamps must be fitted. These must be:

- red
- as high as possible
- as close as possible to the edge of the trailer
- no more than 400mm from the edge of the trailer
- at least 200mm from the tail (position) lamp.

These lamps must electrically operate with the tail (position) lamps.



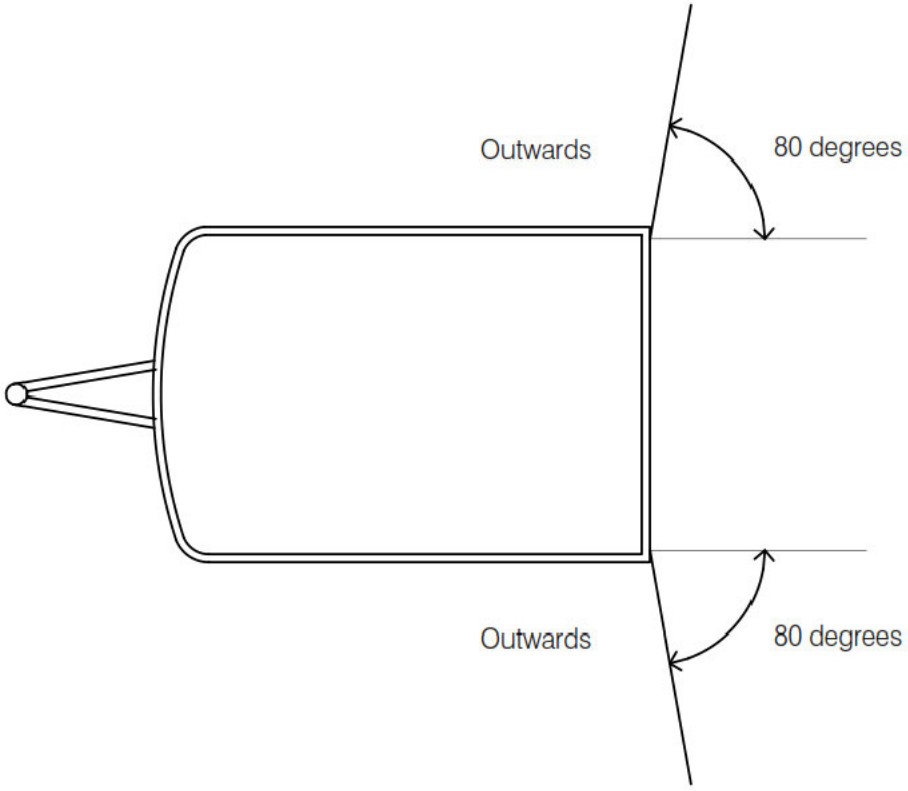
A trailer wider than 2,100mm requires that two red rear clearance lamps be fitted. These must be mounted as high and wide as possible, and no more than 400mm from the trailer's edge.

Note: If a trailer has no structure at the rear on which these lamps can be mounted (for example, on a boat trailer), a combination white (or amber)/red clearance lamp may be fitted midway on each side instead.

Clearance lamps are optional on trailers that do not have permanent structure over the load carrying area.

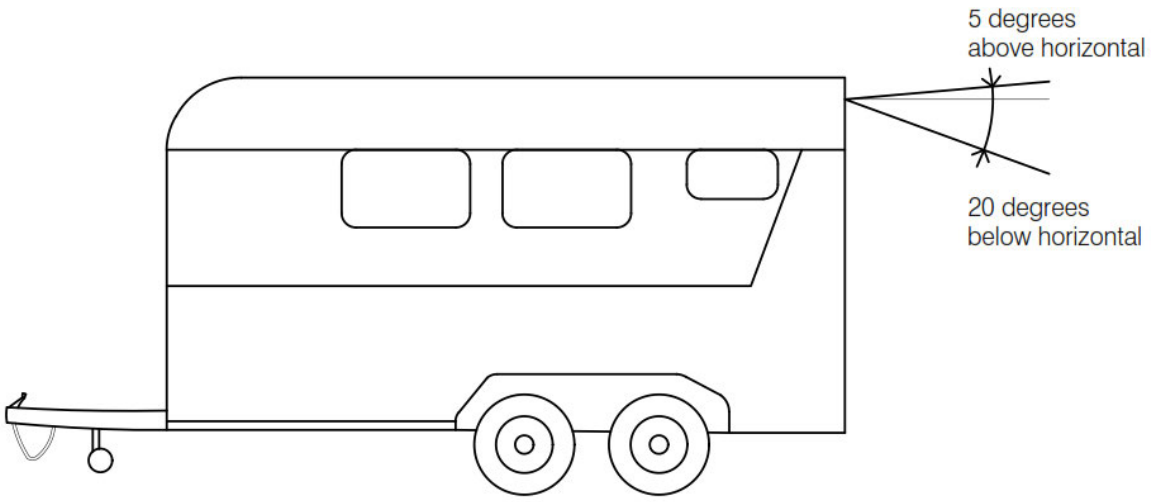
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Item	Geometric visibility	
	Horizontal	Vertical
Clearance lamps	80 degrees outwards	5 degrees above horizontal 20 degrees below horizontal.



The rear clearance lamps must be horizontally visible from an outwards angle of 80 degrees.

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The clearance lamps must be vertically visible 5 degrees above, and 20 degrees below, horizontal.

6.5.8 Visibility requirements – tray-type trailers over 2,200mm wide

Trailers of over 2,200mm width, and that have a tray body, have special rear visibility requirements.

In trailers of this type:

- the parts of the mudguards visible from behind must be coloured white or silver if the trailer is not fitted with rear marking plates.
- must have a white or silver band 75mm deep across the full width of the rear of the tray if the trailer is not fitted with conspicuity markings in accordance with ADR 13/00 Appendix A clause 6.21.

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6.5.9 Rear lamps and reflectors – summary of requirements

Lamps	Colour	Location	Visibility		Electrical
			Horizontal	Vertical	
Tail lamps	Red	350mm minimum height 1,500mm maximum height*	45 degrees inwards 80 degrees outwards	15 degrees above and below horizontal***	Must operate when tow vehicle's tail lamps are illuminated
Brake lamps	Red	Maximum of 400mm from trailer edge Minimum of 600mm apart**	45 degrees inwards 45 degrees outwards		Must operate when the tow vehicle's brake lamps are illuminated, and when the service brakes (if fitted) on the trailer are operating.
Indicator lamps	Amber		45 degrees inwards 80 degrees outwards		Must operate: • when the tow vehicle's indicators are operating • via a single control, independent of other lamps • at a flash rate within the range of 60-120 flashes per minute • in phase on each side of the trailer
Centre high mounted stop lamp	Red	850mm minimum height*****	10 degrees inwards 10 degrees outwards	10 degrees above horizontal 5 degrees below horizontal	Must operate when the tow vehicle's brake lamps are illuminated, and when the service brakes (if fitted) on the trailer are operating.
Rear reflectors (non-triangular)	Red	250mm minimum height 900mm maximum height**** Maximum of 400mm from trailer edge Minimum of 600mm apart**	30 degrees inwards 30 degrees outwards	10 degrees above and below horizontal	N/A
Rear reflectors (triangular)				15 degrees above and below horizontal	
Rear registration (number) plate lamp	White	Must illuminate the registration plate with white light.	N/A	N/A	N/A

* may be increased to 2,100mm if bodywork design requires this

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**may be reduced to 400mm if trailer width is less than 1,300mm.

***where a lamp is mounted at a height of less than 750mm, the downward angle may be reduced to 10.°

****may be increased to 1,500mm if bodywork design requires this.

***** must be fitted so that the lower edge of the centre high mounted stop lamp is located above the upper edge of the brake lamps.

For trailers more than 2,100mm wide, additionally:

Lamps	Colour	Location	Visibility		Electrical
			Horizontal	Vertical	
Rear clearance lamps	Red	• as high as possible • as close as possible to the edge of the trailer • no more than 400mm from the edge of the trailer • at least 200mm from the tail (position) lamp.	80 degrees outwards	5 degrees above horizontal 20 degrees below horizontal	Must operate when tow vehicle's tail lamps are illuminated

For tray-type trailers more than 2,200mm wide, additional rear visibility requirements occur – refer to Section 6.5.8.

6.5.10 Front reflectors

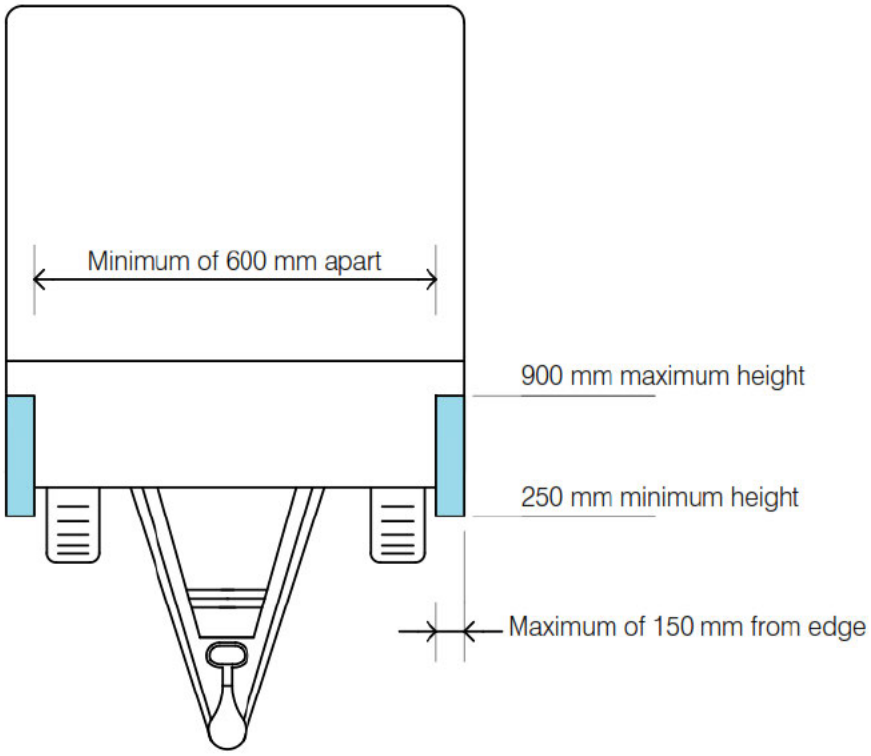
All trailers must be fitted with front reflectors.

Item	Colour	Location
Reflectors	white	250mm minimum height 900mm maximum height* Maximum of 150mm from trailer edge Minimum of 600mm apart.**

*may be increased to 1,500mm if bodywork design requires this

** may be reduced to 400mm if trailer width is less than 1,300mm.

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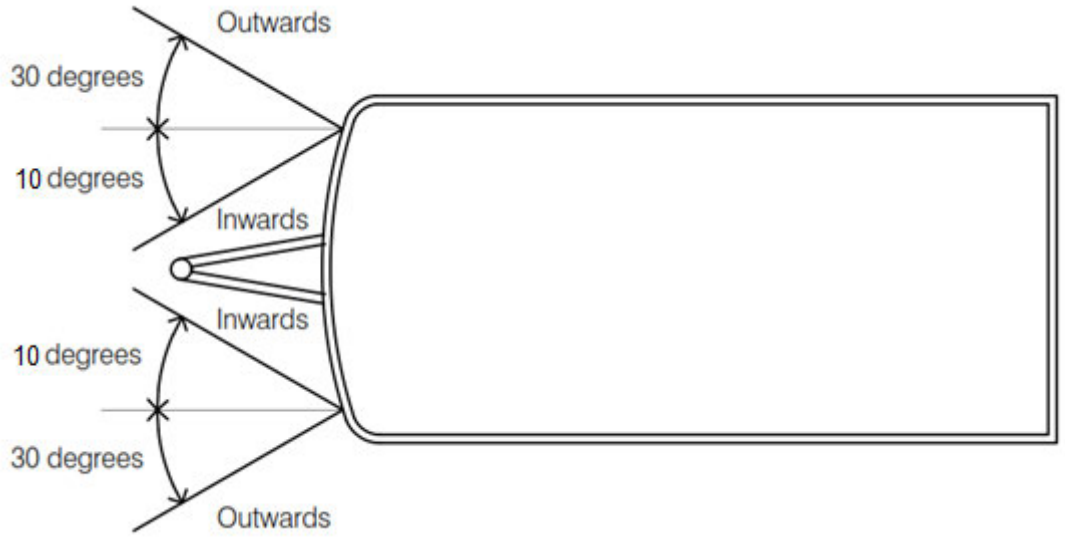
If bodywork is present, the extreme edges of the reflectors must be positioned within the blue rectangles. Trailers narrower than 1,300mm may have the reflectors a minimum of 400mm apart.

Item	Geometric visibility	
	Horizontal	**Vertical**
Front reflectors	10 degrees inwards* 30 degrees outwards	10 degrees above and below horizontal**

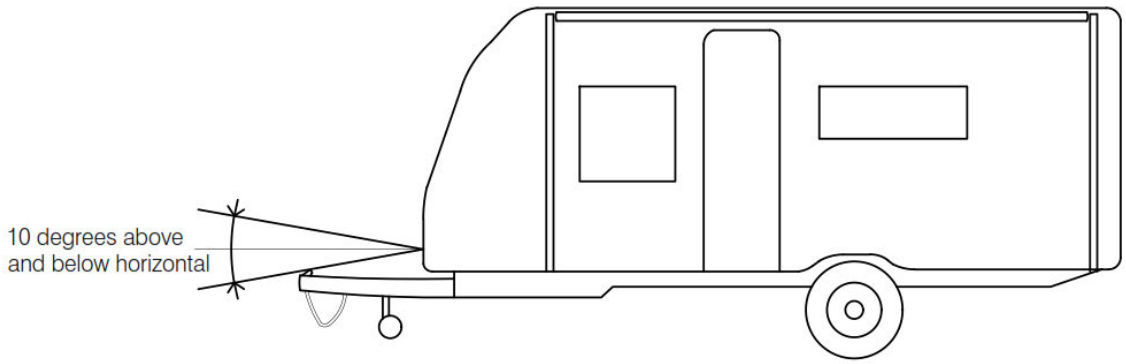
* If because of the construction of the trailer, this angle cannot be met, extra reflectors must be added to achieve this angle.

** Where a reflector is mounted at a height of less than 750mm, the downward angle may be reduced to 5 degrees.

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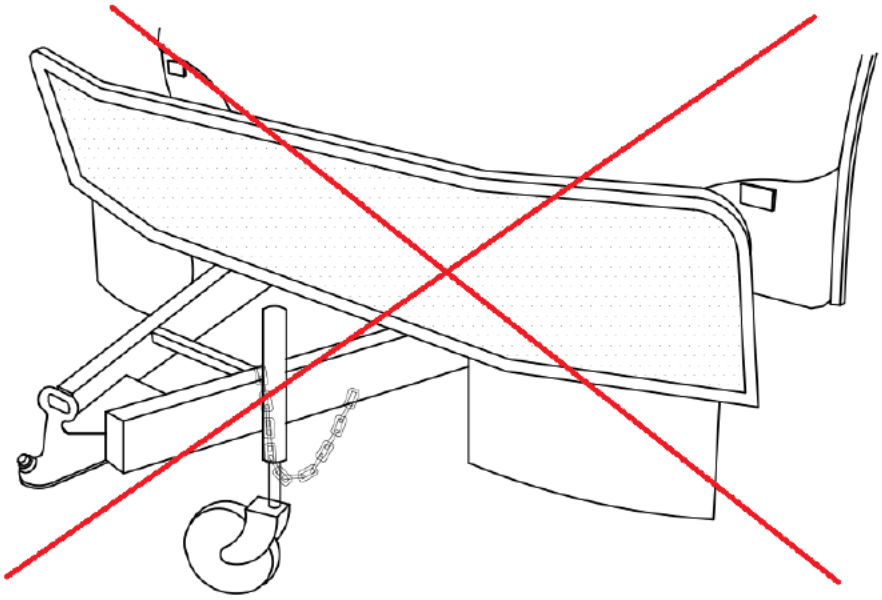


The front reflectors must each be horizontally visible 10 degrees inwards and 30 degrees outwards.



The front reflectors must each be visible 10 degrees above and below horizontal.

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Caravan stone guards must be positioned so that they do not obscure front reflectors. Alternatively, the reflectors can be moved to the stone guard, or additional reflectors placed on the stone guard or on the trailer body such that the visibility requirements are met.

6.5.11 Front position lamps

Front position lamps must be fitted if the trailer is:

- more than 4,000mm long and more than 1,600mm wide, or
- over 1,800mm wide.
- is not fitted with two side marker lamps (on each side of the vehicle) in accordance with paragraph 6.6.2 below.

These lamps must electrically operate with the tail (position) lamps.

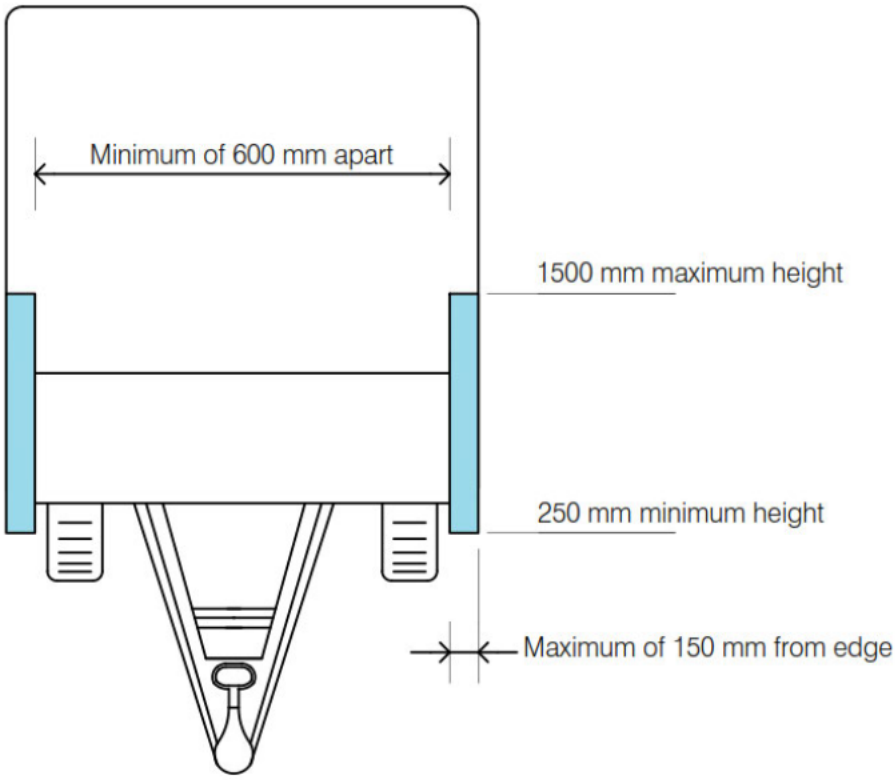
Item	Colour	Location
Front position lamps	white*	250mm minimum height 1,500mm maximum height** Maximum of 150mm from trailer edge Minimum of 600mm apart***

* may be amber if combined with a side-marker lamp.

** may be increased to 2,100mm if bodywork design requires this or the trailer is in TA or TB vehicle category.

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*** may be reduced to 400mm if trailer width is less than 1,300mm.



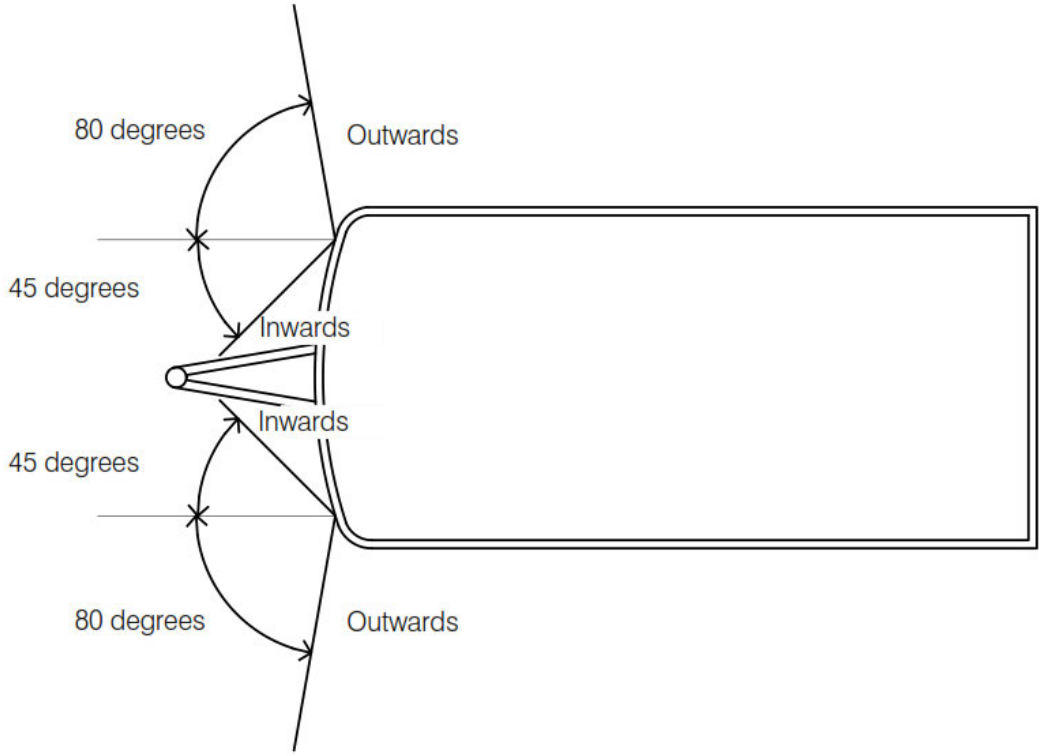
If bodywork is present, the extreme edges of the front position lamps must be positioned within the blue rectangles. Trailers narrower than 1,300mm may have the lamps a minimum of 400mm apart.

Item	Geometric visibility	
	Horizontal	Vertical
Front position lamps	45 degrees inwards* 80 degrees outwards	15 degrees above and below horizontal**

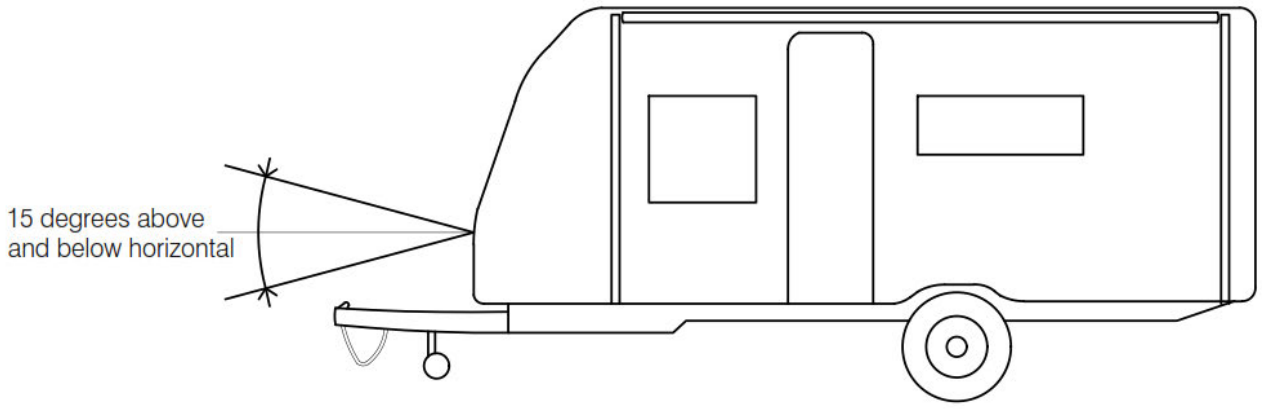
* Where a lamp is mounted at a height of less than 750mm, the inward angle may be reduced to 5 degrees.

**Where a lamp is mounted at a height of less than 750mm, the downward angle may be reduced to 5 degrees.

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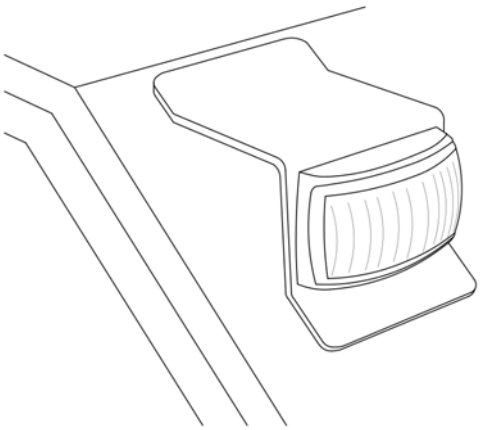


The front position lamps must each be horizontally visible 80 degrees outwards and 45 degrees inwards.



The front position lamps must each be visible 15 degrees above and below horizontal.

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Where lamps, designed for vertical surface mounting, would otherwise be mounted on heavily sloping surfaces, brackets (or similar means) may be needed to maintain the correct vertical orientation. Lamps must be fitted in accordance with the lamp manufacturer's instructions. Installation instructions should be included with components covered by a component type approval.

6.5.12 Front clearance lamps – wide trailers

If the trailer is more than 2,100mm wide, two front end-outline (clearance) lamps must be fitted. These must be:

- white or amber
- as high as practically possible
- as close as possible to the edge of the trailer
- no more than 400mm from the edge of the trailer
- at least 200mm from the front position lamp.

These lamps must electrically operate with the tail (position) lamps.

Notes

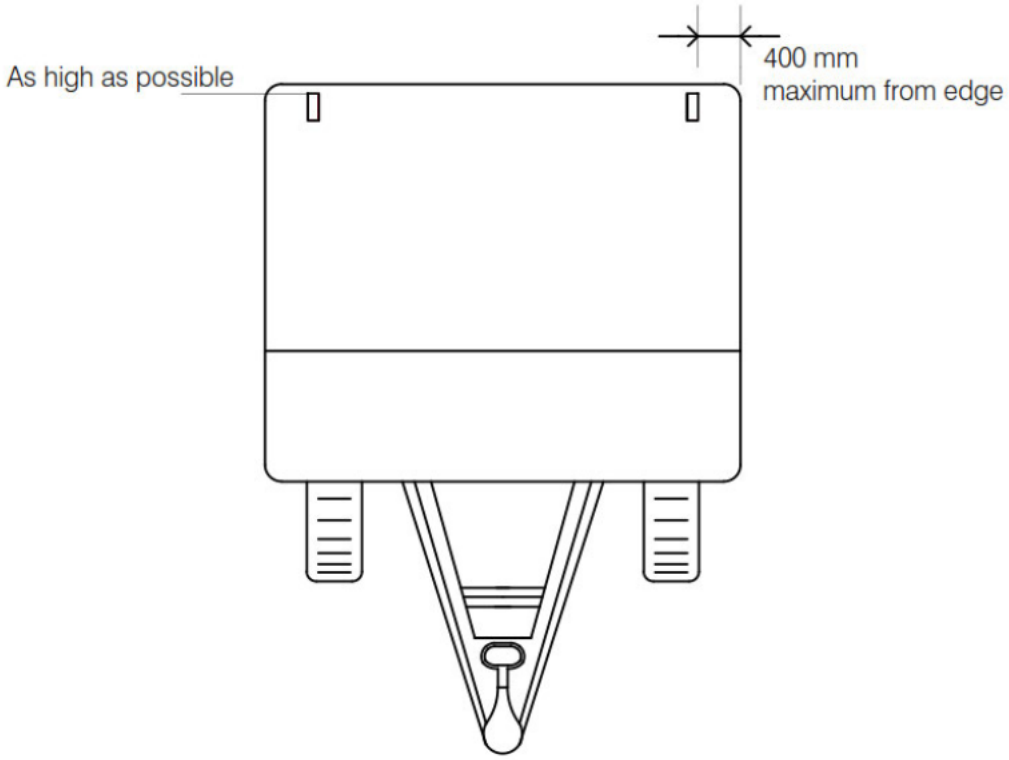
Front clearance lamps are optional if:

- a trailer has no structure at the front on which these lamps can be mounted (for example, on a boat trailer), or
- if the maximum separation between the front position lamp and end outline marker lamp is less than, or equal to, 1,500mm.

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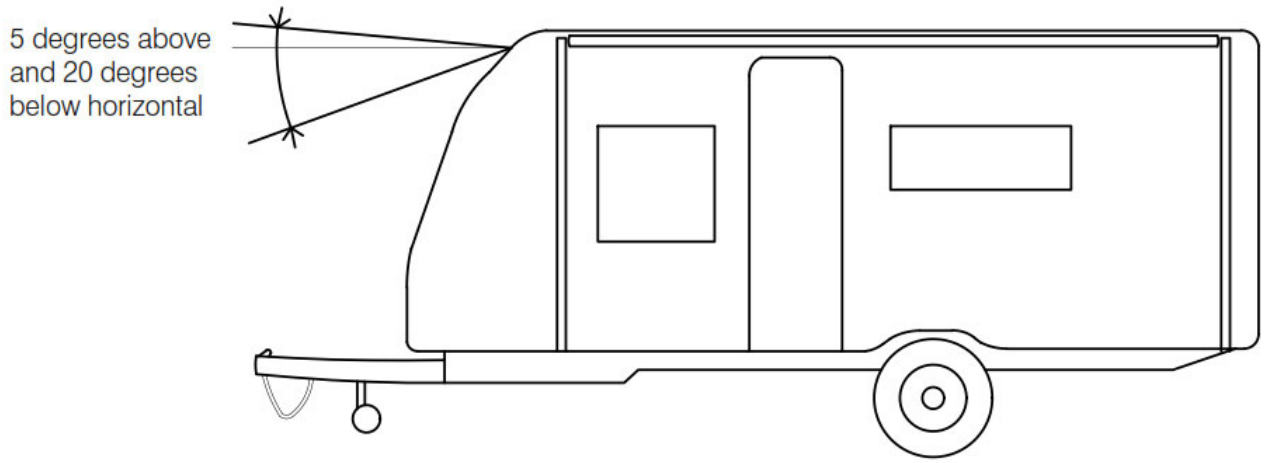
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Item	Geometric visibility	
	Horizontal	Vertical
Clearance lamps	80 degrees outwards	5 degrees above horizontal 20 degrees below horizontal

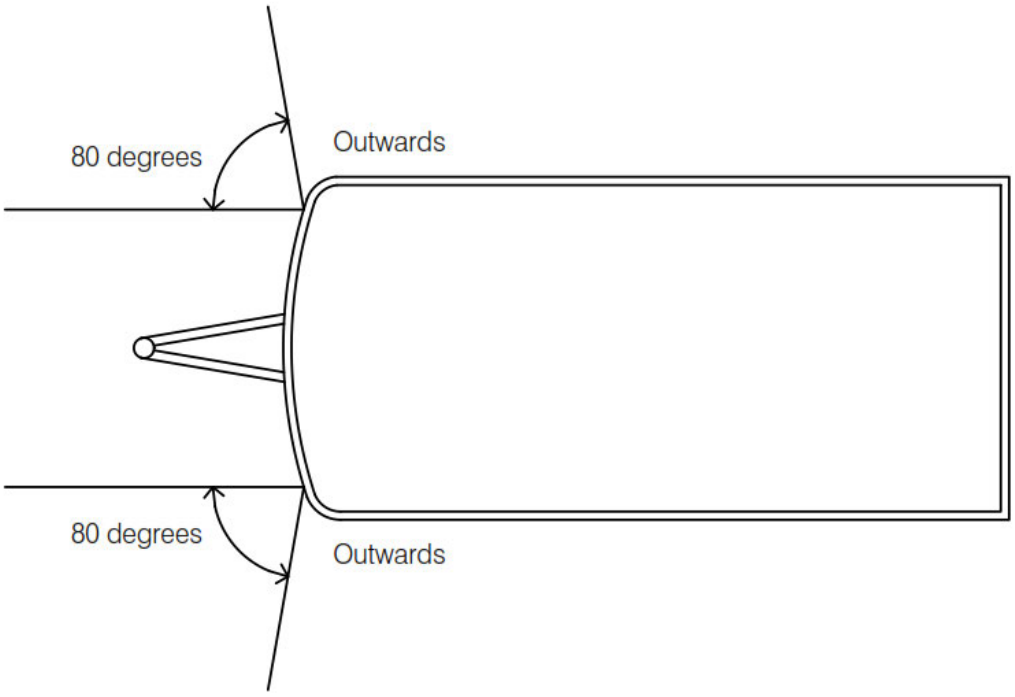


A trailer wider than 2,100mm requires that two white or amber front clearance lamps be fitted. These should be mounted as high and wide as possible, and no more than 400mm from the trailer's edge.

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The front clearance lamps must each be visible from 5 degrees above, and 20 degrees below, horizontal.



The front clearance lamps must each be visible from an 80 degrees outward angle.

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6.5.13 Front reflectors and lamps summary

Lamps	Colour	Location	Visibility		Electrical
			Horizontal	Vertical	
Reflectors	white	250mm minimum height 900mm maximum height Maximum of 150mm from vehicle edge Minimum of 600mm apart	10 degrees inwards 30 degrees outwards	10 degrees above and below horizontal	N/A
Front position lamps	white	250mm minimum height 1,500mm maximum height Maximum of 150mm from vehicle edge Minimum of 600mm apart	45 degrees inwards 80 degrees outwards	15 degrees above horizontal 15 degrees below horizontal	Must electrically operate with the tail (position) lamps
Front clearance lamps	White or amber	as high as possible as close as possible to the edge of the trailer no more than 400mm from the edge of the trailer at least 200mm from the front position lamp	80 degrees outwards	5 degrees above horizontal 20 degrees below horizontal	Must electrically operate with the tail (position) lamps

Notes

- Reflector height may be increased to 1,500mm if bodywork design requires this.
- Reflector spacing may be reduced to 400mm if trailer width is less than 1,300mm.
- If because of the construction of the trailer, the 10 degrees inwards reflector angle cannot be met, extra reflectors must be added to achieve this angle.
- Reflectors mounted at a height of less than 750mm may have the downward angle reduced to 5°.
- Front position lamp may be amber if combined with a side-marker lamp.
- Front position lamp may be increased to 2,100mm if bodywork design requires this.
- Front position lamp spacing may be reduced to 400mm if trailer width is less than 1,300mm.
- Front position lamps located at less than 750mm height may have a 5 degrees inward and downwards angles of geometric visibility.
- Front position lamps mounted at a height of less than 750mm may have the downward angle reduced to 5 degrees.

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6.6 Side reflectors and lights

6.6.1 Side reflectors

6.6.1.1 Height

Item	Colour	Height
Reflectors	Amber*	250mm minimum height 900mm maximum height**

* the rearmost reflector can be red if it is grouped, or has part of the light emitting surface in common with, the rear position (tail) lamp, the rear end-outline (clearance) marker lamp, the stop (brake) lamp or the red rearmost side-marker lamp.

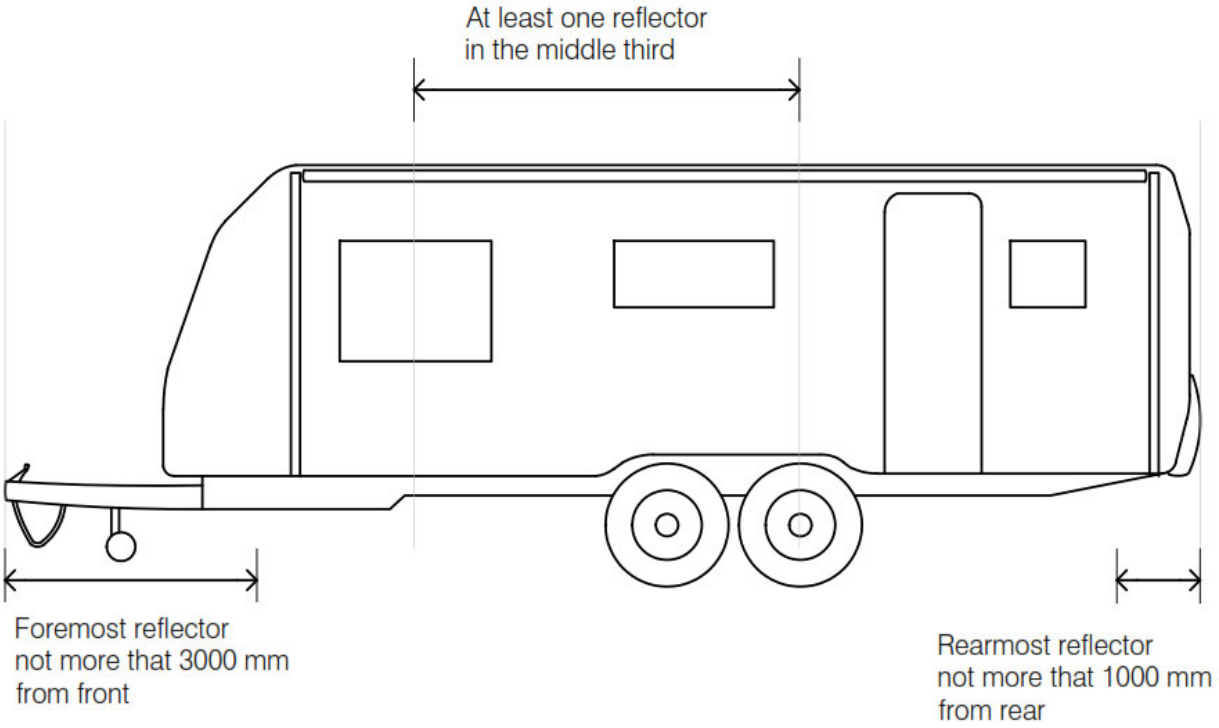
**may be increased to 1,200mm if grouped with other lights, or 1,500mm if bodywork design requires this.

6.6.1.2 Location

The location of the side reflectors must conform with the following:

- at least one reflector in the middle third of the trailer
- the foremost reflector not further than 3,000mm from the front
- the rearmost reflector not further than 1,000mm from the rear
- the distance between adjacent reflectors not more than 3,000mm (4,000mm if the structure, design or the operational use of the trailer makes it impossible to meet the 3000mm requirement).

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The rearmost reflector must not be more than 1,000mm from the rear of the trailer. The foremost reflector should not be more than 3,000mm from the front of the trailer. At least one reflector should be placed in the middle third of the trailer. In addition, the maximum spacing between reflectors must not exceed 3,000mm, except in circumstances where the structure, design or operational use of the vehicle makes it impossible to comply with such a requirement. In this instance, the spacing of the reflectors may be increased to 4000mm.

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Question

I am manufacturing a caravan and I am confused as to where side reflectors need to be located. What is a simple approach I can take that will be compliant?

1. Use masking tape to temporarily mark where the reflectors are going to be placed.

2. Ensure that the reflectors will be positioned at a height above the road of between 250mm – 900mm, and placed on a vertical surface.

3. Place one reflector as close to the rear of the bodywork as possible ensuring the reflector is not more than 1,000mm from the rear including protrusions.

4. Place one reflector as close to the front of the bodywork as possible. Ensure this reflector is not more than 3,000mm from the leading edge of the coupling.

5. Place a reflector in the middle third of the length. Ensure that the distance between reflectors is not more than 3,000mm. If it is, add more reflectors, ensuring that one is always present in the middle third.

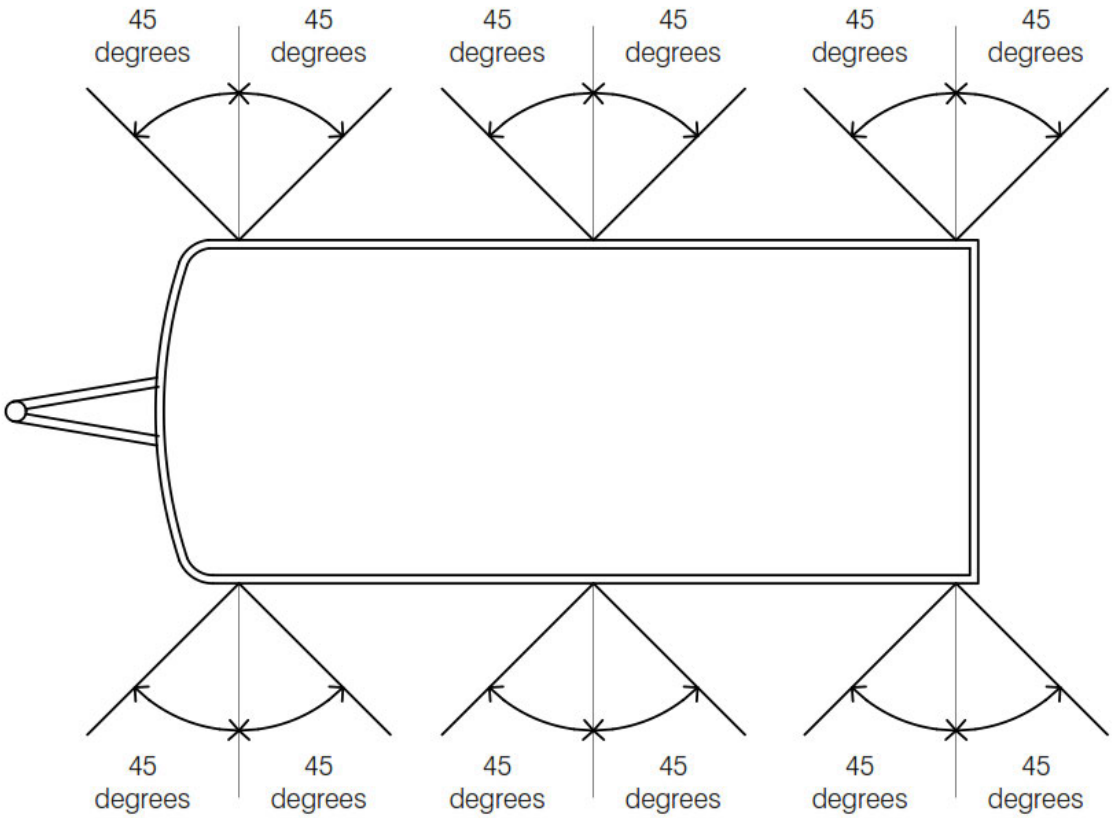
6. Replace masking tape markings with the reflectors.

6.6.1.3 Geometric visibility

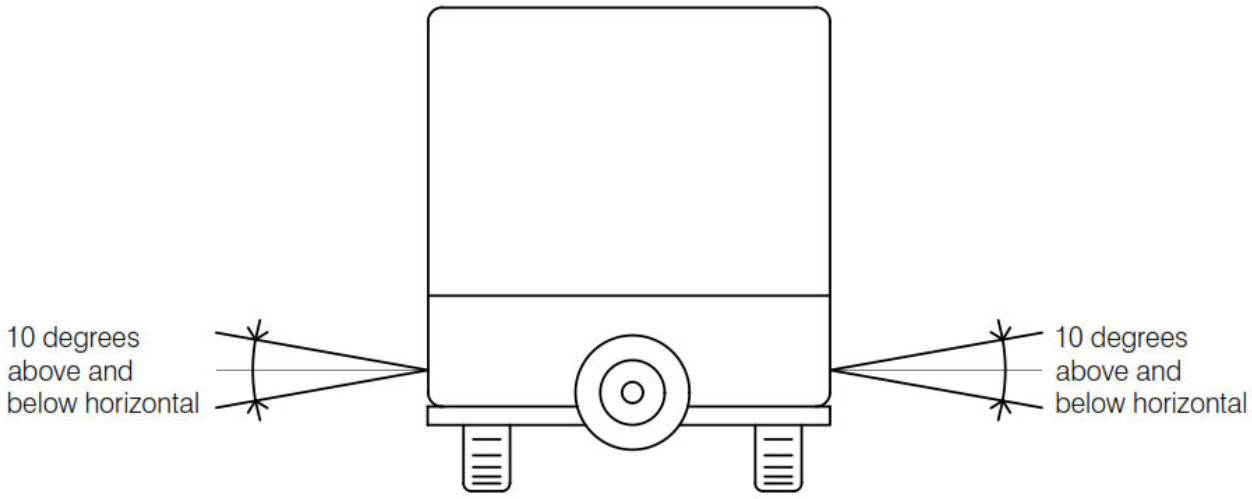
Item	Geometric visibility	
	Horizontal	**Vertical**
Side reflectors	45 degrees to the front and rear	10 degrees above and below horizontal

*Where a reflector is mounted at a height of less than 750mm, the downward angle may be reduced to 5 degrees.

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The side reflectors need to be horizontally visible 45 degrees front and rear of each reflector.



The side reflectors need to be vertically visible 10 degrees above and below horizontal.

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6.6.2 Side marker lamps

Side-marking (marker) lamps must be fitted to all trailers:

- more than 6,000mm long, or wider than 2,100mm.

For trailers under 3,500kg ATM, no electrical requirements exist for side marker lamps, but they are usually wired to operate with the tail lights. (For trailers over 3,500kg, refer to the ADRs.)

Two different approaches can be taken:

Option number	Light colour
Option 1	Amber to front and rear*
Option 2	Amber to front, red to rear

*except for the rearmost light, that can be red, refer to ADR 74/..

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6.6.2.1 Option 1 – Amber front and rear

6.6.2.1.1 Height

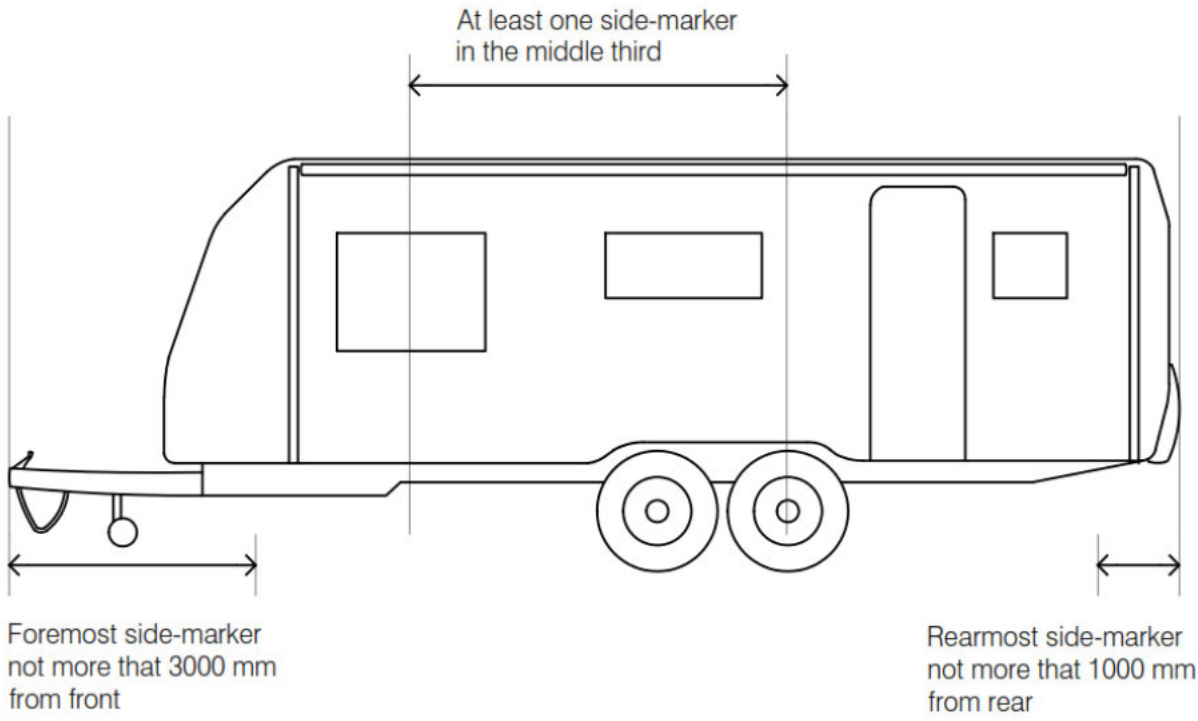
Item	Colour	Height
Marker lamps	Amber front and rear	250mm minimum height 1,500mm maximum height*

*may be increased to 2,100mm if bodywork design requires this.

6.6.2.1.2 Location

The location of the marker lamps must conform with the following:

- at least one maker lamp in the middle third of the trailer
- the foremost marker lamp not further than 3,000mm from the front
- the rearmost marker lamp not further than 1,000mm from the rear
- the distance between adjacent marker lamps not more than 3,000mm (4,000mm if required by trailer shape or operation).



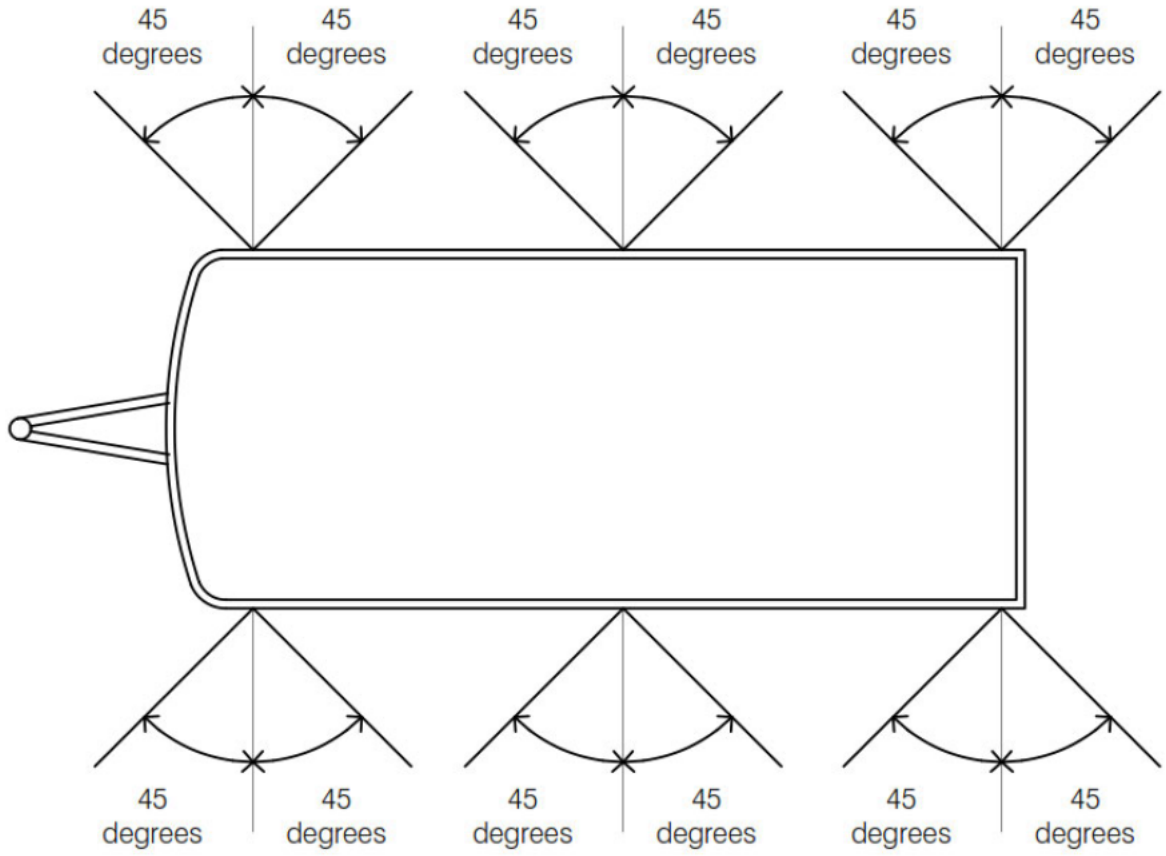
The rearmost side-marker must not be more than 1,000mm from the rear of the trailer. The foremost marker should not be more than 3,000mm from the front of the trailer. At least one marker should be placed in the middle third of the trailer. In addition, the maximum spacing between markers must not exceed 3,000mm, except in circumstances where the structure, design or

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operational use of the vehicle makes it impossible to comply with such a requirement. In this instance, the spacing of the side-markers may be increased to 4,000mm.

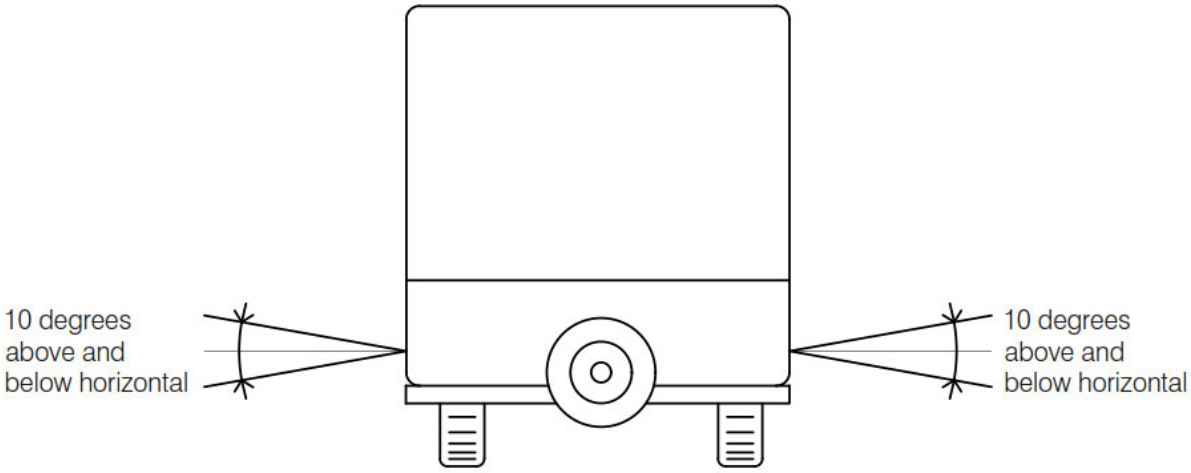
Item	Geometric visibility	
	Horizontal	**Vertical**
Side markers	45 degrees to the front and rear	10 degrees above and below horizontal*

*Where a lamp is mounted at a height of less than 750mm, the downward angle may be reduced to 5 degrees.

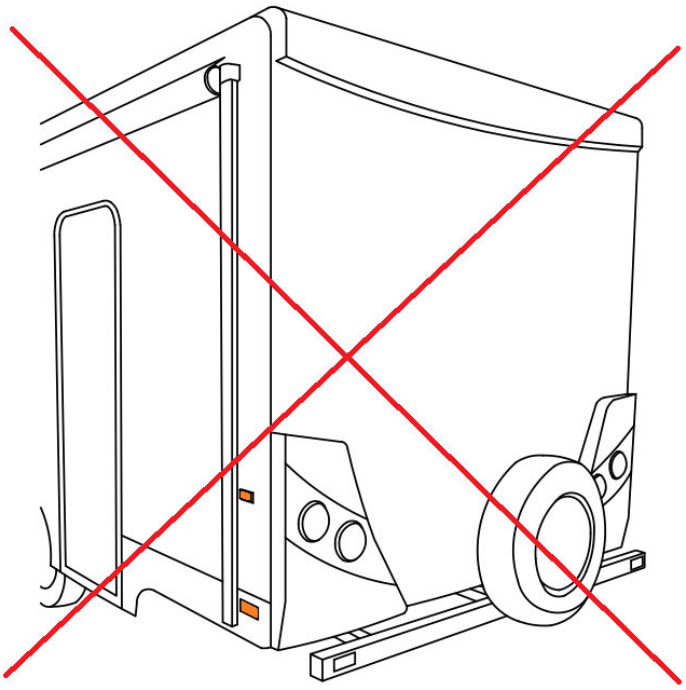


The side marker lamps need to be horizontally visible 45 degrees front and rear of each lamp.

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The side markers need to be vertically visible 10 degrees above and below horizontal.



Ensure that the position of accessories such as side-mounted awnings does not block geometric visibility of side marker lamps and side reflectors. Here the awning upright blocks the required forward 45 degrees visibility requirement.

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6.6.2.2 Option 2 – Amber front, red rear

Required on:

- trailers wider than 2,100mm or longer than 7,500mm
- all semi-trailers, irrespective of dimensions.

6.6.2.2.1 Height

Item	Colour	Height
Marker lamps	Amber front and red rear	600mm minimum height 1,500mm maximum height*

*may be increased to 2,100mm if bodywork design requires this.

6.6.2.2.2 Arrangement

Trailer size and type	Lamp arrangement
Trailers over 2,100mm wide	• two at rear
Semi-trailers equal to, and less than, 7,500mm long	• two at rear • two at front
Trailers over 7,500mm long	• two at front • two at rear • two mid-way between front and rear lamps

Notes:

In the above table:

- 'Front' is defined as being no more than 300mm from the front of the side of the trailer.
- 'Rear' is defined as being no more than 300mm from the rear of the side of the trailer.
- Where trailer construction makes these locations impracticable, as close as possible to the front and rear of the trailer.

Additional pairs of side marker lamps may be used if they are:

- equally spaced between the front and rear lamps

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- the distances between the centres of adjacent lamps is not more than 5,000mm.

Item	Geometric visibility
	Horizontal
Side markers	5 degrees

6.6.3 Side reflectors and lights summary

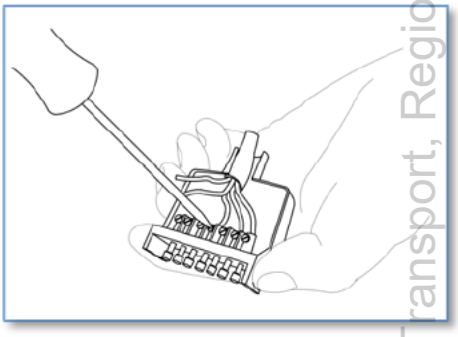
Lamps	Colour	Height	Visibility		Electrical
			Horizontal	Vertical	
Side reflectors	Amber	250mm minimum height 900mm maximum height	45 degrees to the front and rear	10 degrees above and below horizontal	N/A
Marker lamps - Option 1	Amber front and rear	250mm minimum height 1,500mm maximum height	45 degrees to the front and rear	10 degrees above and below horizontal	For trailers under 3,500kg ATM, no electrical requirements exist for side marker lamps, but they are usually wired to operate with the tail lights.
Marker lamps - Option 2	Amber front and red rear	600mm minimum height 1,500mm maximum height	5 degrees	N/A	

Notes:

- Where a reflector or Option 1 side marker lamp is mounted at a height of less than 750mm, the downward angle may be reduced to 5 degrees.
- The rearmost reflector can be red if it is grouped, or has part of the light emitting surface in common with, the rear position (tail) lamp, the rear end-outline (clearance) marker lamp, the stop (brake) lamp or the red rearmost side-marker lamp.
- The maximum height of side reflectors may be increased to 1,200mm if grouped with other lights, or 1,500mm if bodywork design requires this.
- The maximum height of side marker lamps may be increased to 2,100mm if bodywork design requires this.

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Chapter 7: Electrical wiring



In trailer electrical wiring, the ADRs and cited Australian Standards specify:

- appropriate wiring installation
- the way in which an electrical ground should be provided
- plugs
- plug wiring.

7.1 Wiring installation

Trailer wiring must:

- be supported at intervals of not more than 600mm along its length
- be insulated at joints
- be located so that it cannot become overheated or contact moving parts
- be protected from chafing.

The edge of all holes in metal through which the wiring passes must be rolled or bushed with a rubber grommet or similar.

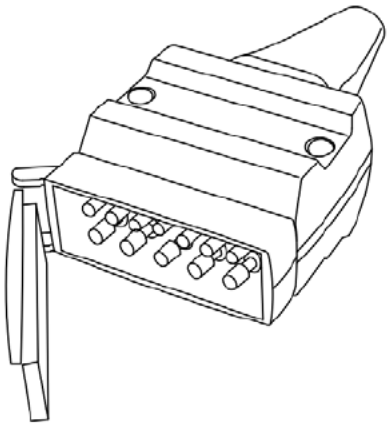
An earth (ground) return wire between the trailer and its tow vehicle must be provided.

7.2 Plugs

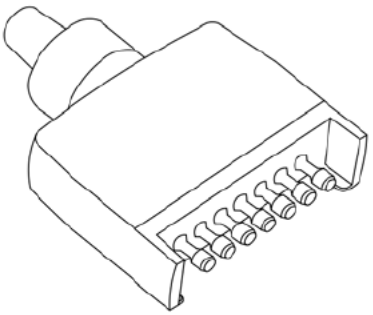
Trailers that do not exceed 3,500kg ATM must use either 7 or 12-pin plugs that meet *Australian Standard AS 4177.5-2004 Caravan and Light Trailer Towing Components - Part 5 Electrical Connectors*.

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12-pin plug

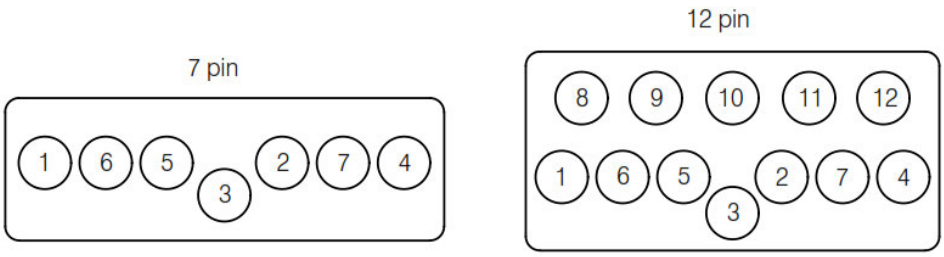


7-pin plug

Required plug wiring is shown in the table below.

Plug type		Circuit	Colour
7 pin	**12 pin**		
1	1	Left-hand indicator	Yellow
2	2	Reversing signal	Black
3	3	Earth (ground) return	White
4	4	Right-hand indicator	Green
5	5	Service brakes (where fitted)	Blue
6	6	Tail (stop) lamps	Red
7	7	Tail lamps, clearance lamps and side-marker lamps	Brown
	8	Battery supply	Orange
	9	Auxiliaries	Pink
	10	Earth (ground) return	White
	11	Rear fog lamp	Grey
	12	Auxiliaries	Violet

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Front view of 7-pin and 12-pin trailer plugs

Question

On trailers that don't need electric brakes, can Pin 5 in a 7-pin plug be used for charging a fridge?

Because of interchangeability problems that may arise, it is recommended that pin 5 in 7-pin connectors be used only for service brakes. If auxiliary circuits are required, then the use of a 12-pin connector is preferable.

Trailers exceeding 3,500kg ATM may use the above 7 or 12-pin plugs, or may comply with alternative standards – see *ADR 42/… General Safety Requirements*.

7.3 Other electrical systems

Electrical installations on a trailer that are intended for connection to an AC power system other than that of the tow vehicle must comply with *Australian Standard AS/NZS 3001:2008 Electrical installations – Transportable structures and vehicles including their site supplies*.

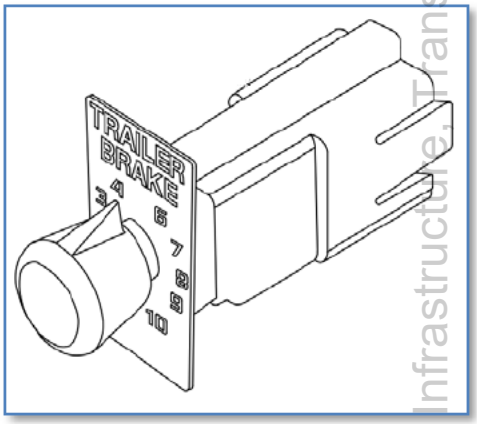
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Chapter 8: Braking

The content of the following section is currently under review

Brake components are available with component type approvals. These components have been tested by the component manufacturer to ensure they meet the appropriate Australian Design Rules. Component type approvals can be used by a trailer manufacturer as evidence of compliance with the National Road Vehicle Standards.



Braking requirements are specified in terms of Gross Trailer Mass (GTM) not Aggregate Trailer Mass (ATM). See Chapter 4 for definitions of these terms.

Alternative Standards

Trailers that comply with the technical requirements of UN Regulation No.13 Uniform Provisions Concerning the Approval of Vehicles of Categories M, N and O (trailers) with regard to braking, incorporating the 11 series of amendments are deemed to meet the requirements in this section.

8.1 750kg GTM and under

Brakes are not required on single axle trailers that do not exceed 750kg GTM.

8.2 Over 750 kg GTM

Trailers exceeding 750kg GTM or with more than one axle must be fitted with an efficient service braking system. Except for over-run brakes, this braking system must be activated by a control signal generated by the tow vehicle.

Over-run brakes may be used on trailers with a GTM up to 2,000kg.

Up to 2,000kg GTM, brakes may be fitted to only one axle. Over 2,000kg GTM, the brakes must operate on all wheels.

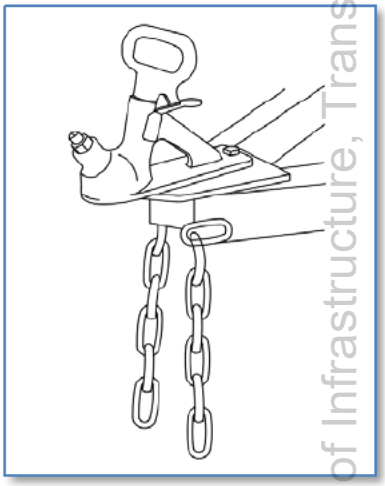
Trailers over 2,000kg GTM must be fitted with an efficient emergency braking system (breakaway brakes). This system must cause the immediate application of the brakes, should the trailer become disconnected from the tow vehicle. Under these circumstances, the brakes must remain applied for at least 15 minutes.

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Chapter 9: Drawbars, safety chains and couplings

The content of the following section is currently under review

Safety chains, couplings and chassis (including the drawbar) are available with component type approvals. These components have been tested by the component manufacturer to ensure they meet the appropriate Australian Design Rules. Component type approvals can be used by a trailer manufacturer as evidence of compliance with the National Road Vehicle Standards.



9.1 Drawbars

Drawbars must be securely attached to a substantial structural member of the trailer.

The drawbar and its attachments must withstand at least the following forces without:

- any residual deformation that would interfere or degrade the function of the assembly
- any breaks, cracks or separation of the components.

The test forces must be maintained for at least 10 seconds.

Drawbar test forces:

- Longitudinal tension and compression (N) = 1.5 x 9.81 x ATM (kg)
- Transverse thrust (N) = 0.5 x 9.81 x ATM (kg)
- Vertical tension and compression for rigid drawbar trailer (N) = 0.5 x 9.81 x ATM (kg)

The strength of the drawbar may also be shown by approved calculation procedures. These calculations must take into account both strength and fatigue resistance.

Note: 'approved calculations' are those approved by the department.

See ADR 62/02 for an alternative dynamic test method.

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Question

I want to conduct my own tests of drawbar strength. Does the department provide any guidance as to how these tests should be done?

Appropriate test procedures are described in Chapter 14 of this document.

9.2 Safety chains and their mounting

9.2.1 Drawbar safety chains

Safety chains or cables must be fitted to all trailers without an emergency brake system (breakaway brakes) and all trailers with rigid drawbars (regardless of if they have emergency brakes or not)

Trailers that do not exceed 2,500kg ATM

- Must use at least one safety chain.
- The chain must comply with *Australian Standard AS 4177.4-2004 Caravan and light trailer towing components – Safety chains up to 3,500kg capacity*, or be a safety cable with the same certified load capacity.

Trailers over 2,500kg but not exceeding 3,500kg ATM

- Must use two safety chains.
- The chains must comply with *Australian Standard AS 4177.4-2004 Caravan and light trailer towing components – Safety chains up to 3,500kg capacity*, or be a safety cable with the same certified load rating.

Trailers over 3,500kg ATM

- Must use two safety chains.
- The chains must be made from steel of a minimum 800 MPa breaking stress that conforms to the mechanical properties of Grade T chain as specified in *Australian Standard AS 2321-2001 Short-link chain for lifting purposes*.
- Each chain must have a minimum breaking load greater than the trailer ATM and use a 6mm chain size with a minimum breaking load of 5,100kg.

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Question

I have used the same chain supplier for many years. I asked for the Australian Standard to be stamped on the chain and they have now done that. I have never had a problem with the chains and so I imagine that the new requirements will not change anything?

Meeting Australian Standards requires that specific strength and other criteria be met. You must have evidence that the chain manufacturer meets these standards for the chains that you are using. Without such evidence, you will be committing an offence when you add your trailers to the RAV.

9.2.2 Drawbar safety chain attachment points

Safety chains are attached to the trailer's drawbar. The chain attachment points must be:

- attached to a substantial structural member of the trailer
- located as near as practical to the trailer coupling.

Where two safety chains are used, they must be mounted one each side of the centreline of the drawbar.

Each safety chain attachment point must withstand at least the following forces without:

- any residual deformation that would interfere or degrade the function of the assembly
- any breaks, cracks or separation of the components.

The test forces must be maintained for at least 10 seconds.

Safety chain attachment point test forces:

- Longitudinal tension (N) = 9.81 x trailer ATM (kg)
- Vertical tension (N) = 0.5 x 9.81 x trailer ATM (kg).

Question

I import trailers from a country that does not need to have safety chains fitted. I fit new chains, attaching them to a 2mm thick sheet steel bracket that is bolted to the leading part of the drawbar. Is this an adequate attachment?

The safety chain attachment points must withstand the required test forces. The longitudinal test force is the equivalent of the weight of the fully loaded trailer hanging vertically, by each

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safety chain. The vertical tension is the equivalent of a pull upwards, on each safety chain, of half the weight of the fully loaded trailer. Before entering the trailer on the RAV, you need to have evidence that the strength of the safety chain mounting points meet these requirements.

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Safety chain markings

Chain that complies with Australian Standard AS 4177.4 – 2004 Caravan and light trailer towing components – Safety chains up to 3,500kg capacity is marked in the following way:

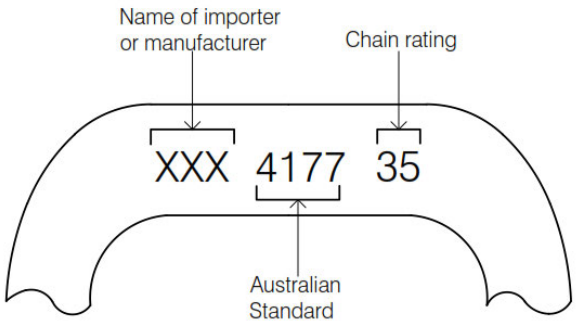
manufacturer or importer identification

4177

a hyphen and two digits

Markings shall be repeated at least on every fourth link.

For example, 4177-35 indicates a 3,500kg rating.



Safety chain for trailer ATMs not exceeding 3,500kg should be selected using the following table.

Chain designation (kg)	Trailer ATM (kg)
1,000	0-1,000
1,600	Up to 1,600
2,500	Up to 2,500
3,500	Up to 3,500

Grade T chain is marked with T, 8, 80 or 800. Note: T-rated safety chains should not be welded.

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9.3 Couplings

9.3.1 General requirements

Couplings designed for use between towing vehicles and trailers with an ATM up to 3.5 tonnes must be quick release couplings.

A quick release coupling must incorporate a positive locking mechanism together with a separate means of automatically retaining this mechanism in the locked position. This locking must be readily verifiable by visual examination.

Additionally, a coupling used between a towing vehicle and a trailer with an ATM greater than 3.5 tonnes and up to 4.5 tonnes must also incorporate a positive locking mechanism together with a separate means of automatically retaining this mechanism in the locked position. This locking must be readily verifiable by visual examination.

9.3.2 50mm ball couplings

Ball couplings used on trailers with an ATM not exceeding 3,500kg must comply with *Australian Standard AS4177.3-2004 Caravan and Light Trailer Towing Components – Part 3: Coupling Body for Ball Couplings*. This standard specifies the following three ratings:

Type	Rating
750kg	Trailers with an ATM not exceeding 750kg
2,000kg	Trailers with an ATM not exceeding 2,000kg
3,500 kg	Trailers with an ATM not exceeding 3,500kg

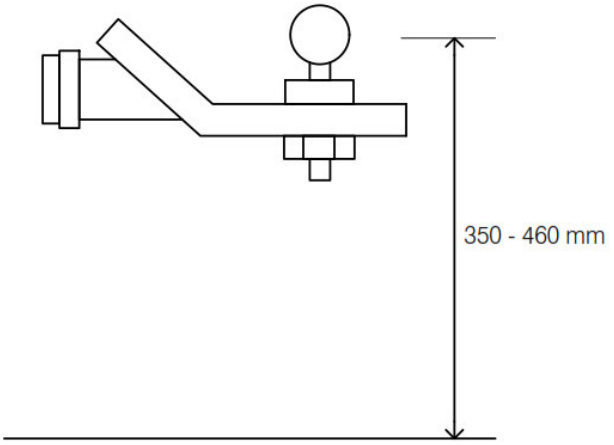
Couplings must be prominently and permanently marked with the following:

- manufacturer, trade mark or factory mark
- '50' to indicate the 50mm tow-ball diameter for which the coupling is intended
- the rating of the coupling (i.e. 750kg, 2,000kg or 3,500kg).

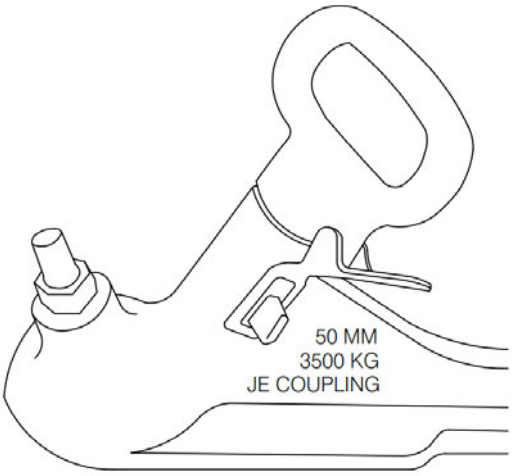
Note:

Vehicles designed to tow trailers with an ATM not exceeding 3,500kg must comply with AS 4177.1-2004. 50mm tow balls fitted in accordance with this standard must be able to be adjusted to a height between 350mm and 460mm, measured from the ground to the centre of the ball when the vehicle is fully loaded.

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Trailers should be designed to be level within this range.



50mm ball couplings must be marked with their trailer ATM rating (750kg, 2,000kg or 3,500kg), manufacturer name or trademark, a code to indicate the serial number, batch and production date, the words 'Do Not Weld' if the coupling is made from non weldable material, the words 'Weld Only' if the coupling body is specifically designed to be attached by welding only, and '50' to indicate the ball diameter.

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9.3.3 Other couplings

Refer to *ADR 62/- Mechanical Connections Between Vehicles* for couplings:

- not covered above
- suitable for trailers over 3,500 kg ATM
- approvable under UN regulations i.e. couplings that meet the technical requirements of UN R 55/01.

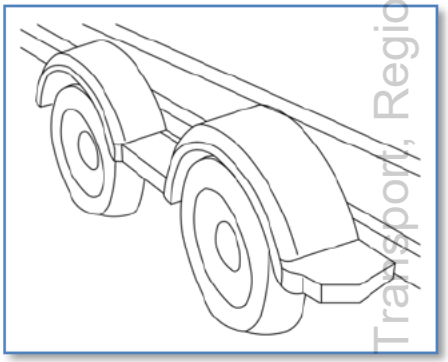
Question

I build off-road camper trailers, and 50mm ball couplings do not provide the required articulation that is needed off-road. A supplier has approached me with a suitable off-road coupling that looks appropriate for my needs. How can I ensure it is compliant?

You should ask the supplier for the coupling's component type approval number. This shows that the coupling has been tested to meet the requirements of the ADRs.

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Chapter 10: Mudguards



10.1 Function

All trailer wheels must be fitted with wheel guards (mudguards).

These must:

- protect other road users against thrown-up stones, mud, ice snow and water
- help prevent people contacting the moving wheels.

10.2 Design

Mudguards can be formed by any, or all, of the following:

- the trailer's body structure
- specifically-shaped covers over the wheels
- mud-flaps

When two or more axles form an axle group, on each side of the trailer:

- separate mudguards may be fitted to each wheel, or
- a single continuous mudguard that cover the wheels may be fitted.

10.2.1 Width

Mudguards must be wide enough to fully cover:

- the full width of the widest tyre and wheel combination that may be fitted by the manufacturer as options.

Note: in the case of a dog trailer with steerable front wheels, the width requirement applies only with the wheels in the straight-ahead position.

10.2.2 Length

- Trailers with a GTM not over 3,500kg can comply with either of the two approaches shown below.
- Trailers over 3,500kg GTM must comply with the second approach.

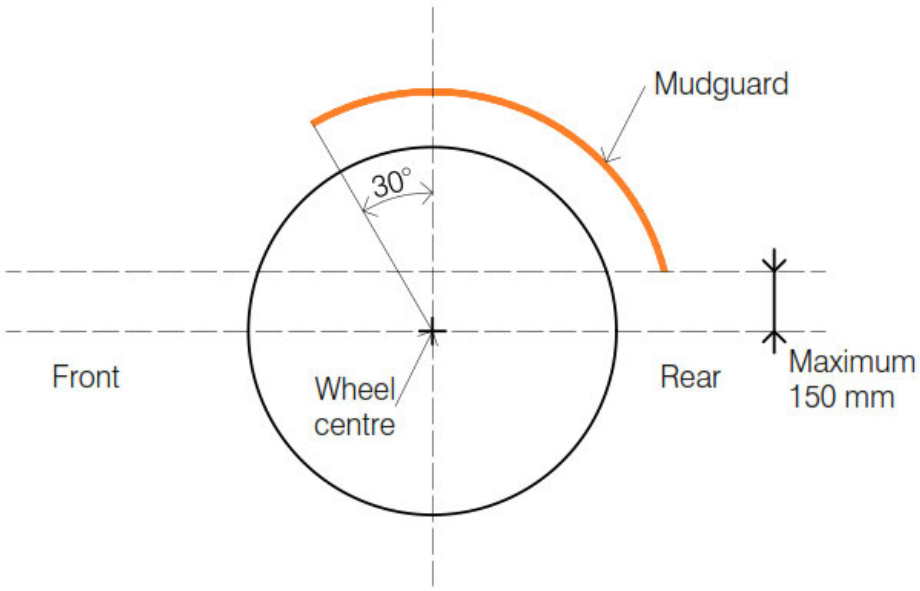
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- Trailers with more than one axle in an axle group may have individual mudguards for each wheel or may have one mudguard covering all wheels as long as the front of the guard meets the requirements in approach 2 for the front wheel and the rear of the guard meets the requirements in approach 2 for the rear wheel.

Approach #1

The mudguard must extend at least as far forwards as a position indicated by a line extending outwards from the centreline of the wheel, 30 degrees forward of vertical.

The mudguard must extend at least as far rearwards and downwards as a position indicated by a horizontal line placed 150mm above the centre of the wheel.



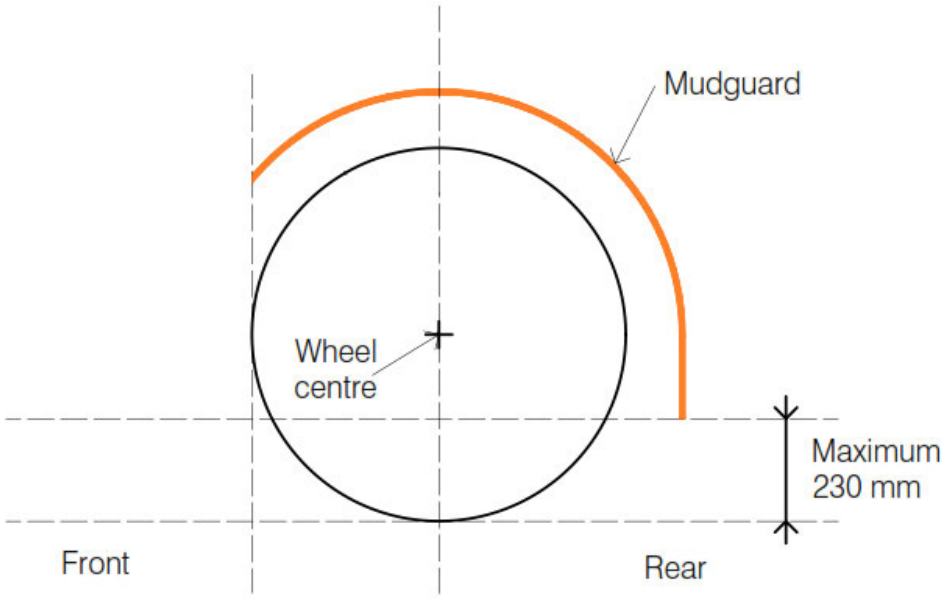
In Approach #1, the mudguard must extend at least as far forwards as indicated by the 30 degrees line. The mudguard must extend at least as far rearwards and downwards as indicated by the horizontal line, located 150mm above the wheel centre.

Approach #2

The mudguard must extend at least as far forwards as a position indicated by a vertical line, placed at the leading edge of the tyre.

The mudguard must extend at least as far rearwards and downwards as a position indicated by a horizontal line, placed 230mm above the road.

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In Approach #2, the mudguard must extend at least as far forwards as a vertical line placed at the leading edge of the tyre. The mudguard must extend at least as far rearwards and downwards as indicated by the horizontal line, 230mm above the road.

Note 1: The 230mm rear clearance dimension shown in the above diagram can include the use of a mud flap.

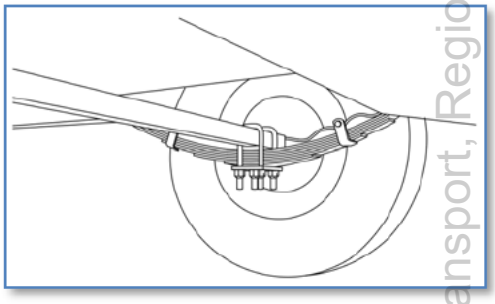
Note 2: On off-road vehicles, this clearance can be increased to 300mm.

Note 3: this requirement does not apply if the mud guard extends to a point that is within an area formed by the ground and a line drawn at 20 degrees upwards from the contact point of the tyre with the ground.

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Chapter 11: Axles and suspension

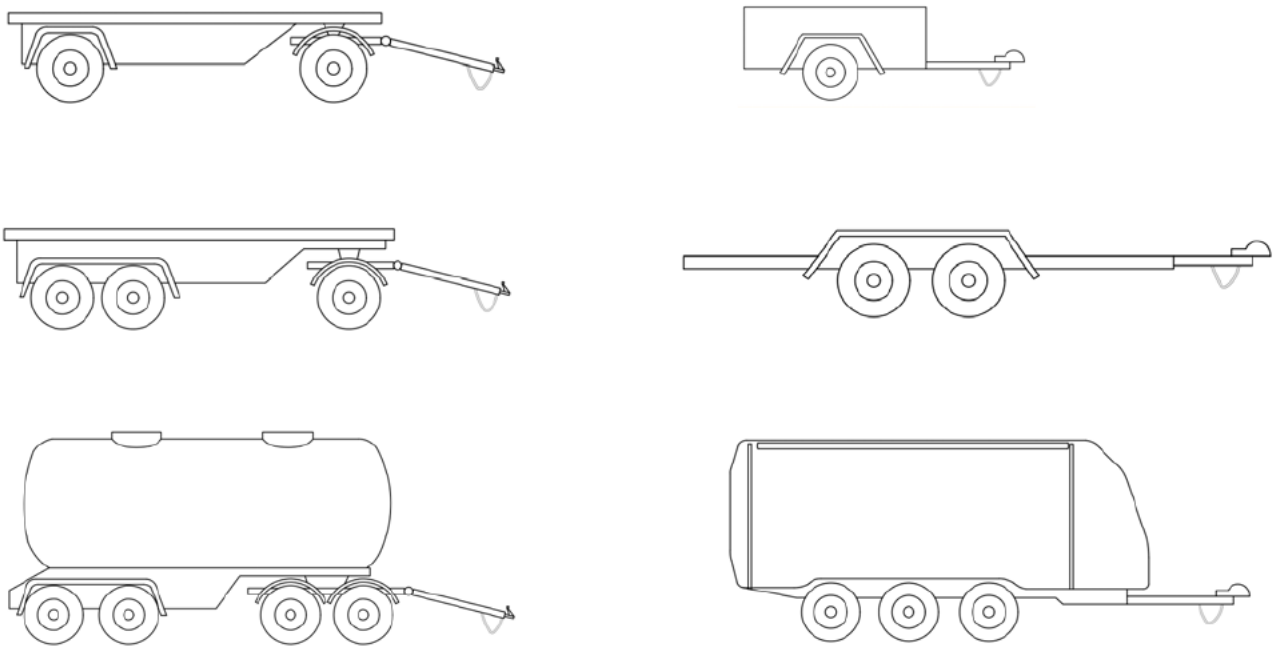


Trailers may have axles at one or two locations.

If the trailer has two axle groups, the front axle group must be steered by the drawbar.

An axle group can comprise single, tandem or triaxle axles. Within an axle group:

- the two axles must not be more than 2,000mm apart
- three axles must not be more than 3,200mm apart overall.



Examples of trailer axle configurations.

All axles in a group must be interconnected by load-sharing suspension, **except** for the following configurations

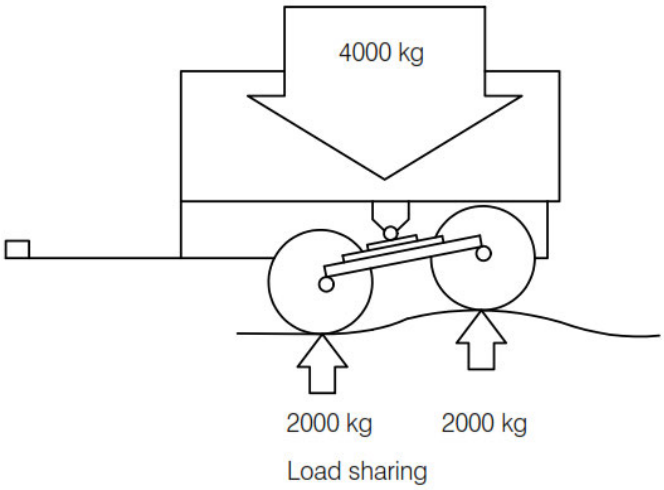
- where the two axles in a group have their centres not more than 1,000mm apart
- where the three axles in a group have their centres not more than 2,000mm apart
- where the four (or more) axles have their centres not more than 3,200mm apart.

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Where non-load sharing suspension is used in *'close-coupled axles',* the following must apply. The individual axles, and the wheels and tyres fitted to each axle, must have a load carrying capacity at least 120% of the load on that axle with the trailer at its ATM (maximum permitted load).

Load sharing suspensions must be designed so that each axle in a group carries the same load irrespective of the relative movement of the wheels.

A diagram will be added in future to demonstrate 'Non-load sharing suspension used with close-coupled axles must have each axle (and corresponding wheels and tyres) rated for at least 120% of the load on that axle with the trailer at the trailers ATM on a level surface'.

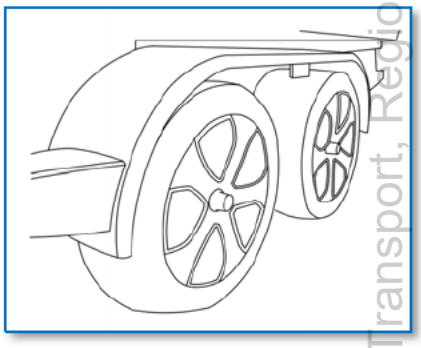


Load-sharing suspension must be designed so that each axle in a group carries the same load, irrespective of vertical movement of the axle.

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Chapter 12: Wheels and tyres



12.1 Requirements

All tyres fitted to the trailer must be of suitable specifications for the trailer's intended use. These specifications include:

- size
- speed rating
- load rating.

All wheels and tyres (including retreaded tyres) must comply with the appropriate ADRs. These include ADR 23/… Passenger Car Tyres, 95/… Installation of Tyres, 96/… Commercial Vehicle Tyres and 42/… General Safety Requirements.

12.2 Tyre placard

Trailers with a GTM not exceeding 3,500kg must be fitted with a tyre placard that includes at least the manufacturers recommended:

- tyre size
- tyre load rating
- speed rating
- cold inflation pressure.

The tyre placard should be made of durable material and positioned where it can be easily seen.

12.3 Wheels

All wheels fitted to the trailer must be suitable with respect to their dimensions, speed and load performance characteristics.

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Chapter 13: General requirements



13.1 Trailer requirements

13.1.1 Vehicle plate

All trailers must be fitted with a vehicle plate. The plate must be:

- durable
- permanently attached (e.g. by welding or riveting) to the trailer. Such a plate will be considered a secure vehicle marking for the purposes of ADR 61/03.

The information on the plate must be:

- embossed, indented, etched or engraved
- in English, using block letters and numerals not less than 2.5mm high.

The information on the plate must comprise:

- manufacturer's name
- trailer model
- vehicle identification number
- date of manufacture
- Aggregate Trailer Mass (ATM)
- Gross Trailer Mass (GTM)
- Tare Mass.

The vehicle plate can include the required tyre information covered in Section 12.2.

Note:

The details entered on the vehicle plate must match those entered on the RAV. An offence occurs if an actual vehicle specification (for example, Tare Mass) does not match the details entered on the RAV.

13.1.2 Vehicle Identification Number (VIN)

All trailers must have a unique 17 character Vehicle Identification Number that meets the requirements outlined in ADR 61/03.

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Note: Some state and territory registering authorities require a VIN to be stamped onto a substantial part of the trailer (i.e. drawbar) for registration purposes. It is recommended that a secondary VIN be provided in addition to the one provided on the vehicle plate.

13.1.3 Carrying passengers

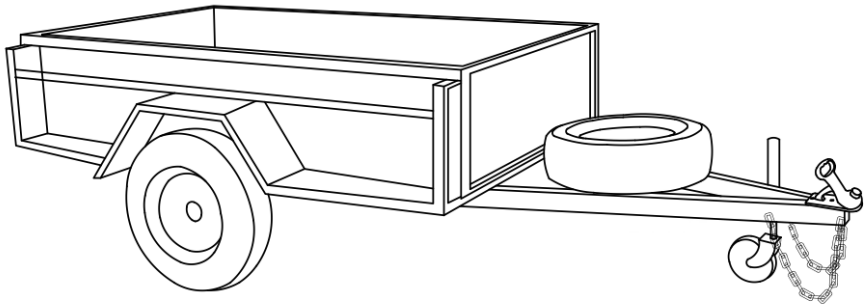
Trailers of any kind must not be designed or used for carrying passengers.

13.1.4 Projections

All trailer exterior fittings must be designed, constructed and attached to the trailer in a way that reduces the risk of injury to a person.

For example:

- exterior fittings that are pointed or have sharp edges must not be used
- bumper bars should have their ends turned inwards to avoid the risk of hooking or grazing.



All trailers must be constructed so that exterior surfaces do not have pointed or sharp edges.

Trailers must also not be equipped with any interior fittings that, through being pointed or sharp, could cause injury.

13.1.5 Semi-trailer rear under-run impact

Semi-trailers over 3,500kg GTM must be equipped with rear under-run impact protection. This must comprise a bumper that:

- has a lower surface no more than 600mm above the ground with the trailer unladen
- has a rear surface that is no more than 600mm forward of the rear of the trailer
- is attached to the trailer's structural members.

Note: All gooseneck and fifth-wheel caravans are classed as semi-trailers.

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13.2 Caravan-specific requirements

13.2.1 Doors

- All caravans must have only outward-opening or sliding doors.
- At least one door must be located on the left-hand side or rear of the caravan. A door on the left-hand side or at the rear must also be able to function as a door, in the normal sense of the word, providing direct entry to and egress from the vehicle. Whilst there are no specific dimensions, the intent is clearly to enable an average size person to easily enter and exit the vehicle without additional external fixtures or fittings. In addition, there must be no impediments (such as fixed objects) which interfere in any way with the easy use of doors for entry and exit.

13.2.2 Fire extinguishers

- All caravans must be fitted with at least one fire extinguisher.
- Fire extinguishers and fire blankets used in caravans must conform to *Australian Standard AS 2444-1985 – Portable Fire Extinguishers and Fire Blankets – Selection and Location.*

Caravan type	Minimum rating and classification of extinguishers	Minimum number of extinguishers
Single compartment	1A:5B	1
Multi-compartment	1A:5B	2

Notes:

1. Where cooking appliances are installed, a fire blanket is recommended.
2. For trailers intended for operation in remote areas, consideration should be given to fitting further fire protection equipment, i.e. in addition to that shown in the above table.
3. To gain access to awkward locations, consideration should be given to the provision of extinguishers equipped with hoses.
4. Smoke alarms are recommended and are required by some States and Territories.

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13.2.3 Toilets, basins and sinks

- Toilets must not discharge directly onto the road.
- Toilet closets must vent directly to atmosphere.
- Tanks into which toilets discharge must contain non-inflammable and non-irritant chemicals to form an efficient deodorant and germicide.
- Basins and sinks must not drain into the toilet tank.

13.2.4 LPG Installations

Unless otherwise approved, LPG installations in caravans must comply with the requirements of the *Code Governing the Installation in Caravans of Liquefied Petroleum Gas Equipment and Appliances*. Also, refer to *AS/NZS 5601.1:2013 – Gas installations – General installations*, State, and Territory registering authorities.

Note: For AC Power System requirements, refer to section 7.3

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Chapter 14: Testing drawbar strength and safety chain attachment point strength

The content of the following section is currently under review

The following test method is considered acceptable to confirm compliance with the drawbar strength and safety chain attachment point strength requirements in ADR 62/02. All testing must be conducted by testing facilities approved under Section 111 of the Rules.

1.0 Drawbars

The drawbar fitted to a trailer shall be tested by application of a static test load. The loads applied shall be a function of the aggregate mass of the trailer and applied to the centreline of the towing coupling fitted to the drawbar. The trailer may have either a rigid drawbar or a hinged drawbar.

1.1 Test equipment

The test rig shall consist of:

- a structure to be capable of accepting the trailer, or the relevant portion of a trailer to which the drawbar is attached
- fixtures to restrain the trailer on the test rig during the test without affecting the vehicle structure in the area of the drawbar attachment
- a loading device, usually a hydraulic cylinder, of sufficient capacity to apply the test loads, and with brackets to enable longitudinal, vertical and transverse loads to be applied
- fixtures to attach the loading device to the drawbar, usually a towing coupling of appropriate size
- force measurement to measure the test load applied to the drawbar may be made by either: a pressure gauge, taking account of seal friction or: a load cell with appropriate power source
- amplifiers and read out instrument: a recorder may be used to produce a permanent record of test load -v- time for the test
- time measurement; stopwatch.

Note: Care should be taken when setting up the test components that the forces are applied in line with the heads of the testing machine.

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1.2 Test procedure

1.2.1 Drawbar

Securely attach the trailer in its road-wise position to the test rig so that application of the test loads is on the centre line of the drawbar. The body of the trailer shall be securely restrained on the test rig. Apply the test loads to the drawbar coupling as follows after taking account of instrument uncertainty:

- longitudinal tension and compression = 1.5 x aggregate trailer mass x 9.81
- transverse thrust = 0.5 x aggregate trailer mass x 9.81
- for rigid drawbars, vertical tension and compression= 0.5 x aggregate trailer mass x 9.81.

1.2.2 Safety chain connections

Apply the following loads to each attachment point:

- longitudinal tension load 1 x aggregate trailer mass x 9.81
- vertical loads 0.5 x aggregate trailer mass x 9.81.

1.3 Analysis of Results

On completion of the tests the drawbar and its attachments to the trailer, and the safety chain attachments shall be carefully examined. The ‘Drawbar’ and safety chain attachments shall withstand forces applied at the centreline of the intended ‘Coupling’ without incurring loss of attachment or any distortion or failure which will affect the safe drawing of the towed trailer.

1.3 Reporting of Results

The testing facility shall prepare a report describing the trailer and drawbar together with the safety chain attachments tested, the loads imposed, and the results of examination of the components after testing.

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Application Details

Application Type	Component Type Approval
Application Number	CTA-2023-0002827
Submitted On	3/02/2023 3:49:51 PM

Applicant details

Legal Entity Name	ROADRUNNER CHASSIS PTY LTD
ABN	96118043084
ACN	118043084
Email	s47F
Phone	s47F

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Address Details

Address Type	Principal Place of Business
Address Line 1	111 Metrolink Circuit
Town/Suburb	Campbellfield
State/Territory	VIC
Postcode	3061
Country	Australia

Address Type	Postal Address
Address Line 1	111 Metrolink Circuit
Town/Suburb	Campbellfield
State/Territory	VIC
Postcode	3061
Country	Australia

Address Type	Registered Office Address
Address Line 1	111 Metrolink Circuit
Town/Suburb	Campbellfield
State/Territory	VIC
Postcode	3061
Country	Australia

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Design facility details

Address Line 1	111 Metrolink Circuit
Town/Suburb	Campbellfield
Country	Australia
State/Territory	VIC
Postcode/Zipcode	3061

Manufacturing facility details

Address Line 1	111 Metrolink Circuit
Town/Suburb	Campbellfield
Country	Australia
State/Territory	VIC
Postcode/Zipcode	3061

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Component type approval selection

Is the road vehicle component you are seeking approval for a:	Other Component
Make:	Other
Please specify make:	RoadRunner Chassis Pty Ltd
Model:	Caravan Chassis
Variants	Chassis
	Custom Chassis

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Component Registration Number (CRN)

Does this application for a road vehicle component apply to a CRN or SARN, issued under administrative arrangements before the RVS legislation commenced?	No

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Extent of compliance

Additional ADR

ADR Revision	Extent of compliance	Comments	Uploaded documents
ADR 62/02 - Mechanical Connections Between Vehicles	Full Compliance		

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Compliance information

Australian Design Rule: ADR 62/02 - Mechanical Connections Between Vehicles
Extent of compliance: Full Compliance

Document No.

ADR 62/02

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Design control

Do you have full control over all stages of design, componentry and manufacture of the road vehicle component? Yes

Please upload relevant documentation

Revised Summary RoadRunner Chassis application 4400kgs.pdf

QMS RoadRunner Chassis.pdf

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Contraventions of road vehicle legislation

Have you (as the applicant) or, in the case of a body corporate, has any member of the key management personnel contravened, or may have contravened, road vehicle legislation (as defined under section 5 of the Road Vehicle Standards Rules 2019)?	No

Publish contact details

The approval holder's contact details will be published on the department's website with the approval, if granted.

Name:	ROADRUNNER CHASSIS PTY LTD
Name of contact person:	s47F
Email Address:	s47F
Phone:	s47F
Website:	https://www.roadrunnerchassis.com.au/

Further information

Would you like apply to vary, remove or add a condition to your approval?

Would you like to provide any further information?

Supporting documentation

Declarations

I declare that:

- the road vehicle component referred to in this application is intended for use in the manufacture of a road vehicle that a type approval applies to or the manufacture/modification of a vehicle in accordance with a Model Report.
- the road vehicle component referred to in this application:
  - complies with the applicable national road vehicle standards, or

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- substantially complies with the applicable national road vehicle standards, and the road vehicle component's non-compliance with the applicable standards is only in minor and inconsequential respects or to a minor and inconsequential extent.

- I will be able to:
  - arrange for, if required, the Secretary or an inspector to inspect the premises where the road vehicle components are produced for the purpose of confirming compliance with the applicable national road vehicle standards
  - at the time of making this application, provide, if required, the supporting information for the road vehicle component type approval
  - access the original and subsequent versions of the supporting information whilst the approval is in force and for seven (7) years after it expires
  - keep the supporting information up-to-date whilst the approval is in force
  - provide further specified information to the Secretary on request

I declare that I will comply with the following conditions to which a component type approval (if granted) will be subject:

- The condition that the holder of the approval:
  - ensures that the road vehicle component covered by the approval complies with the national road vehicle standards in force at the time that the component is provided for use or installation in a road vehicle (except to the extent or in the respects to which the approval specifies that the component is not required to comply with the applicable standards) and
  - be able to produce evidence that:
    i. demonstrates that the road vehicle components covered by the approval comply with the national standards in force at the time the component is provided for use or installation in a road vehicle; and
    ii. could be taken into account by the Secretary for the purposes of subsection 177(2) of the Rules.
- The condition that the holder of the approval has a conformity of production system that:
  - governs the manufacturing process detailed in the supporting information for the approval and
  - ensures that, at the time that a component covered by the approval is manufactured, the component satisfies the applicable national road vehicle standards as in force at the time in the respects, or to the extent, that the component is required to comply with those standards.
- The condition that the holder of the approval, when requested in writing by the Secretary or an inspector, and within such reasonable time as is specified in the request:
  - provide, or arrange for the Secretary or inspector to access, the original and any subsequent versions of the supporting information for the approval and
  - provide any information that the Secretary or inspector reasonably requires for the purposes of assessing whether the holder of the approval is complying with the Act, the Rules, or an instrument made under the Act or the Rules and
  - provide any other information or documents specified in the request about road vehicle components to which the approval applies and
  - provide written answers to questions, specified in the request, about road vehicle components to which the approval applies and

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    - for the purpose of assessing whether road vehicle components or road vehicles containing road vehicle components to which the approval applies would comply with the applicable national road vehicle standards, to the extent that those standards relate to that component - allow or arrange for the Secretary or an inspector to inspect:
        i. premises where the road vehicle components are designed or manufactured; or
        ii. things, including documents, associated with the design or manufacturing process.
- The condition that the holder of the approval will:
    - keep a record of the original and any subsequent versions of the supporting information for the approval while the approval is in force, and for the period of 7 years after it expires or is revoked and
    - ensure that the supporting information for the approval is kept up-to-date while the approval is in force.
- The condition that the holder of the approval will:
    - issue instructions for the use or installation of the component in a road vehicle that, if followed correctly, will ensure that the vehicle will comply with the applicable national road vehicle standards, as in force at the time that the holder of the approval provided the component for use or installation in a road vehicle, to the extent that those standards relate to that component and
    - as at the time the holder of the approval provides the component for use or installation in a road vehicle - make the latest version of those instructions available to persons using or installing the component.
- The condition that the holder of the approval must advise the Department, as soon as practicable, if recall action is undertaken outside of Australia in relation to a component that is or may be an approved road vehicle component also supplied by the holder of the approval.
- The condition that the holder of the approval must advise the Department, as soon as practicable, of any systemic issues with the road vehicle component covered by the approval, that:
    - will or may cause injury to any person
    - a reasonably foreseeable use (including a misuse) will or may cause injury to any person
    - causes the component to not, or to likely not, comply with the applicable national road vehicle standards (except to the extent or in the respects to which the approval specifies that the component is not required to comply with the applicable standards)

I declare that I will comply with:

- any conditions specified in the approval and
- any other requirements of the Act, the Rules, or an instrument made under the Act or the Rules that apply in relation to the holder of the approval or the type of road vehicle component.

I declare that:

- the information contained in this application is true and correct
- I have not omitted any matter or thing from this application without which it would be misleading in any material particular.

I understand that under section 175 of the Rules, the Secretary may request:

- further specified information

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- to inspect premises where the component is designed or manufactured
- to inspect components (whether or not approved road vehicle components) used in the design or manufacture of the component.

I understand that the Secretary may refuse to consider this application if:

- I do not comply with a request made under section 175 of the Rules
- the application is not accompanied by the documents specified as required in the application and the application fee
- the declarations are not signed.

I understand that the Secretary may also take the following into account when considering the application:

- whether I (and in the case of a body corporate, any member of the key management personnel) have contravened or may have contravened road vehicle legislation
- whether the person will comply with the conditions to which the approval will be subject
- any other matter the Secretary considers relevant

I understand that it is an offence or contravention under:

- section 31 of the Road Vehicle Standards Act 2018 to make a false or misleading declaration
- section 32 of the Road Vehicle Standards Act 2018 to provide false or misleading information

I declare that:

- if tested, the results of testing of each variant would not result in a less favourable result than those results set out in the Component Compliance Information in this application

I declare that I will comply with:

- any conditions specified in the approval and
- any other requirements of the Act, the Rules, or an instrument made under the Act or the Rules that apply in relation to the holder of the approval or the type of road vehicle component.

I declare that:

- the information contained in this application is true and correct
- I have not omitted any matter or thing from this application without which it would be misleading in any material particular.

I understand that under section 175 of the Rules, the Secretary may request:

- further specified information
- to inspect premises where the component is designed or manufactured
- to inspect components (whether or not approved road vehicle components) used in the design or manufacture of the component.

I understand that the Secretary may refuse to consider this application if:

- I do not comply with a request made under section 175 of the Rules
- the application is not accompanied by the documents specified as required in the application and the application fee
- the declarations are not signed.

I understand that the Secretary may also take the following into account when considering the application:

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- whether I (and in the case of a body corporate, any member of the key management personnel) have contravened or may have contravened road vehicle legislation
- whether the person will comply with the conditions to which the approval will be subject
- any other matter the Secretary considers relevant

I understand that it is an offence or contravention under:

- section 31 of the Road Vehicle Standards Act 2018 to make a false or misleading declaration
- section 32 of the Road Vehicle Standards Act 2018 to provide false or misleading information

☑ I, being the applicant, or the person authorised to make the declaration on behalf of the applicant, agree to the above and by checking this box, I acknowledge that I am signing this declaration.

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Compliance information - ADR 62-02- Mechanical Connections Between Vehicles

User	s47F
Generated	3/02/2023 4:02:44 PM

Compliance information - ADR 62/02 - Mechanical Connections Between Vehicles

Applicant's reference for this compliance information form	ADR 62/02
Date (DD/MM/YYYY)	3/02/2023
Type	Type M: Rigid Drawbar, ECE E

Compliance demonstration method

How is compliance with this ADR demonstrated?	Test results to ADR 62/02

Test results summary

Test Method	Static test

Coupling details/ specifications

Size (mm)	(No answer)
Manufacturer	RoadRunner Chassis Pty Ltd
Assembly Number	RR030223
Rated Capacity ATM (kg)	4500
S-Value (kg)	(No answer)
D-Value (kN)	(No answer)
V or U-Value (kN)	(No answer)

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Test report details

Test report date (dd/mm/yyyy)	2/02/2023
Test report number	RR030223
Testing Facility Number	2348
Testing facility name	Bisiteknics
Testing facility address	2 Old Creswick Rd, Wendouree VIC 3355

Comments

Comments	At this stage the testing facility is conducting the appropriate test to comply with ADR 62/02. This application will be subject to and RFI to supply this information when it falls due for assessment.
UploadSupportingFiles	(No answer)

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RFI-CTA-2023-0002827-1 -1 -4/05/2023 9:34 PM - Saved

RFI Question Answer

Sufficient
Answer Status

RFI-CTA-2023-0002827-1 -1
RFI Question

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General | Administration | Related

Answer

Submitted By: s47F

Answer Text: See attached full test reports. 1 x Drawbar 1 x Safety Chain connection

Documents

New Rover Document

File Name	Document Type	Applicat...	Questio...	Questio...	Application Questionna...
BTK23-05-22[778...	RFI Supporting Files	CTA-2023...			
BTK23-05-02[778...	RFI Supporting Files	CTA-2023...			

Rows: 2

Question

RFI Question Title: Component compliance

Please provide the Test Report for ADR 62/02.

All Answers for this Question

Answer Text	Created...	Answer ...	Answ...
See attached full test reports. 1 x Drawbar ...	4/05/202...	Sufficie...	29/05/20...

Rows: 1

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Application Details

Application Type	Vehicle Type Approval
Application Number	VTA-2023-0010743
Submitted On	25/05/2023 2:19:47 PM

Applicant details

Title	s47F
First Name	s47F
Last Name	s47F
Date of Birth	s47F
Email Address	s47F
Mobile Phone	s47F

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Address Details

Address Type	Physical Address
Address Line 1	10 Dennis Street
Town/Suburb	Campberfield
State/Territory	VIC
Postcode	3061
Country	Australia

Address Type	Postal Address
Address Line 1	10 Dennis Street
Town/Suburb	Campberfield
State/Territory	VIC
Postcode	3061
Country	Australia

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Vehicle type details

What is the category of the road vehicle type?
TB - Light Trailer

Is the Aggregate Trailer Mass (ATM) of this trailer type 4.5 tonnes or less?
Yes

Is this application for a second stage of manufacture (SSM) vehicle?
No

Make : Other

Please specify make :Golden Sun Caravans

Model(s)

Model(s) Name
Airlie *(Add)*
Appalonia *(Add)*
Aruba *(Add)*
BAHAMAS *(Add)*
CALYPSO *(Add)*
CARRIBEAN *(Add)*
Dulcie *(Add)*
Dusk *(Add)*
El Questro *(Add)*
FAMILY ADVENTURE *(Add)*
Family Twilight *(Add)*
Gantheaume *(Add)*
Golden *(Add)*
Hayoon *(Add)*
LA MAISON *(Add)*
Larapinta *(Add)*
Pacific *(Add)*
Reddell *(Add)*
ST TROPEZ *(Add)*
Tropic *(Add)*
TROPICANA *(Add)*
Wild Warrior *(Add)*
TROPICANA 20FT TO 24.6FT *(Remove)*
Aruba 16ft to 22ft *(Remove)*
Family Twilight 18ft to 24.6ft *(Remove)*
Appalonia 19ft to 21.6ft *(Remove)*
Pacific 18ft to 23ft *(Remove)*
Dusk 16ft to 21.6ft *(Remove)*
Hayoon 18ft to 23ft *(Remove)*
CARRIBEAN 23Ft to 25ft *(Remove)*

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BAHAMAS 23FT TO 25FT *(Remove)*
FAMILY ADVENTURE 18.6FT TO 24.6FT *(Remove)*
CALYPSO 21FT TO 24.6FT *(Remove)*
ST TROPEZ 19.6FT TO 24FT *(Remove)*
Wild Warrior 16ft to 20ft *(Remove)*
LA MAISON 23FT TO 25FT *(Remove)*
Tropic 16ft to 23ft *(Remove)*

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Design facility details

Address Line 1	10 Dennis St
Town/Suburb	Campberfield
Country	Australia
State/Territory	VIC
Postcode/Zipcode	3061

Manufacturing facility details

Address Line 1	10 Dennis St
Town/Suburb	Campberfield
Country	Australia
State/Territory	VIC
Postcode/Zipcode	3061

What type of relationship does the applicant (or you if you are the applicant) have with the main manufacturing facility?

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Design and manufacturing control

Do you have full control over all stages of the design, componentry and manufacturing of the road vehicle type that this application covers?
Yes

Please provide a document reference number for your ISO Certificate or summarised QMS:
Vehicle Standards Bulletin VSB1 (Revision 5)....Also see attachment of QMS flow chart

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Extent of compliance

Applicable ADR

ADR Revision	Extent of compliance	Comments	Uploaded documents
ADR 01/00 - Reversing Lamps	Not applicable/Exempt	Caravans are not fitted with reversing lights	
ADR 06/00 - Direction Indicators	Full Compliance		
ADR 13/00 - Installation of Lighting and Light Signalling Devices on other than L-Group Vehicles	Full Compliance		
ADR 23/03 - Passenger Car Tyres	Full Compliance		
ADR 38/05 - Trailer Brake Systems	Full Compliance		
ADR 42/05 - General Safety Requirements	Full Compliance		
ADR 43/04 - Vehicle Configuration and Dimensions	Full Compliance		
ADR 44/02 - Specific Purpose Vehicle Requirements	Full Compliance		
ADR 45/01 - Lighting and Light Signalling Devices not Covered by ECE Regulations	Full Compliance		
ADR 47/00 - Retroreflectors	Full Compliance		
ADR 48/00 - Devices for Illumination of Rear Registration Plates	Full Compliance		

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ADR 49/00 - Front and Rear Position (Side) Lamps, Stop Lamps and End Outline Marker Lamps	Full Compliance		
ADR 51/00 - Filament Lamps	Not applicable/Exempt	Filament lights are not longer in use. LED lighting is provided and are ADR approved. Filament Headlights are not fitted to caravans	
ADR 52/00 - Rear Fog Lamps	Not applicable/Exempt	Caravans are not fitted with fog lights	
ADR 61/03 - Vehicle Marking	Full Compliance		
ADR 62/02 - Mechanical Connections Between Vehicles	Full Compliance		
ADR 74/00 - Side Marker Lamps	Full Compliance		
ADR 92/00 - External Projections	Full Compliance		
ADR 95/00 - Installation of Tyres	Full Compliance		
ADR 96/00 - Commercial Vehicle Tyres	Full Compliance		

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Contravention of road vehicle legislation

Has the applicant, or in the case of a body corporate any member of the key management personnel, contravened or may have contravened, road vehicle legislation?
No

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Approval details

Approval holder	s47F
Name of contact person	s47F
Email address	s47F
Phone	s47F
Website	

Embargo of variants

Variant(s) will be covered by this embargo	**Embargo date**

MVSA IPA number

Would you like to incorporate an existing IPA number for this vehicle type as part of your new vehicle type approval number under the RVS legislation?

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Further information

Would you like to apply to vary, remove or add a condition to your approval?
Yes

Which condition(s) of your approval would you like to request to vary, remove or add?
Add and remove model names from Approval

Please provide further information to your request to vary, remove or add a condition.
Not applicable

Would you like to provide any further information?
no

Attachments

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Comments and any other matters

Please provide any comments or additional information to support your application below. You may also upload any relevant supporting documentation, if required.

Attachments

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Declarations

I/I on behalf of the applicant, declare that:

- the type of vehicle referred to in this application for variation either:
  - complies with the applicable national road vehicle standards; or
  - substantially complies with the national road vehicle standards, in which case I have specified the respects or the extents of non-compliance and provided appropriate justification for the non-compliance; and
- the documents specified in the compliance information form(s) demonstrate that compliance with the applicable national road vehicle standards.
- at the time of making this application, I am able to provide the supporting information for the road vehicle type approval; and
- I will be able to access and provide the original and subsequent versions of the supporting information whilst the approval is in force and for the period of seven (7) years after it expires; and
- I will ensure the supporting information is kept up-to-date whilst the approval is in force; and
- I will be able to arrange for, if required, the Secretary or an inspector to inspect the premises used, or to be used, in the manufacturing process for the vehicle type for the purpose of confirming compliance with the applicable national road vehicle standards and any other requirements of the Act, the Rules or an instrument made under the Act or the Rules.

I/I on behalf of the applicant, declare that the applicant will comply with the conditions to which a road vehicle type approval will be subject, including such of the following conditions as may apply to or be specified in the approval:

- The conditions of a vehicle type approval listed in Sections 26-30 of the Road Vehicle Standards Rules 2019.
- If the application includes an embargo date for certain variants – The condition that the holder of the approval must ensure that a relevant person does not enter a vehicle on the RAV under this approval before the Secretary has published a notice relating to the approval on the department's website in accordance with section 223 of the Rules.
- If the application includes a cab chassis variant – The condition that the holder of the approval must provide instructions, guidelines and references to the relevant ADRs that must be met, to each person who is responsible for completing a chassis-cab covered by this approval, before providing the chassis-cab to that person. The completion of the vehicle must be done prior to the vehicle being provided to a consumer for the first time in Australia.
- If the application is for a motorhome or campervan
  - The condition that every vehicle entered on the RAV under the approval must be fitted with a durable and permanent label or plaque with information to identify the seating positions that must not be occupied when the vehicle is in motion (and included in the owner's manual for the vehicle); and
  - The condition that seats intended for use solely when the vehicle is stationary must not be provided with seatbelts, child-restraint anchorages or any other equipment that may imply they are intended for use while the vehicle is in motion; and
  - The condition that if a swivelling seat is intended for use while the vehicle is in motion, the seat must be easily lockable without the use of tools and must comply with all applicable requirements in the ADR. A durable and permanent label or

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plaque must be fitted (and included in the vehicle owner's manual) to advise the correct position for use while the vehicle is in motion; and
    - The condition that the approval holder must ensure that the gross vehicle mass and gross axle load ratings specified for vehicles covered by the approval are appropriate. The vehicle must include a placard identifying the gross axle load ratings for each axle or axle group.
- The condition that the holder of the approval must advise the department, as soon as practicable, if overseas recall action is undertaken in relation to a similar type of vehicle as that to which this approval applies.
- The condition that the holder of the approval must notify the department, as soon as practicable, of any systemic issues with vehicles covered by the approval that:
    - will or may cause injury to any person; or
    - mean that a reasonably foreseeable use (including a misuse) will or may cause injury to any person
    - causes the vehicle to not, or to likely not, comply with the applicable national road vehicle standards (except to the extent or in the respects to which this approval specifies that the type of vehicle is not required to comply with the applicable standards).

I/I on behalf of the applicant, declare that:

- the information contained in this application is true and correct; and
- I have not omitted any matter or thing from this application without which it would be misleading in any material particular.

I/I on behalf of the applicant, declare that the applicant will comply with:

- any conditions specified in the approval; and
- any other requirements of the Act, the Rules, or an instrument made under the Act or the Rules that apply in relation to the holder of the approval or the type of road vehicle.
- if tested, each variant covered by the application would not produce a less favourable result than the result set out in the documents identified within the application to demonstrate compliance with the national road vehicle standards.

I/I on behalf of the applicant, understand that, under section 196 of the Rules, the Secretary may request further specified information to support this application for variation.

I/I on behalf of the applicant, understand that the Secretary may refuse to consider this application if I do not comply with a request made under section 196 of the Rules.

I/I on behalf of the applicant, understand that the Secretary may also take the following into account when considering the application for variation:

- whether I (and in the case of a body corporate, any member of the key management personnel) have contravened or may have contravened road vehicle legislation; and
- whether the person will comply with the conditions to which the approval will be subject; and
- any other matter the Secretary considers relevant.

I/I on behalf of the applicant acknowledge that the Secretary may vary the approval in terms other than those requested in the application for variation.

I/I on behalf of the applicant, understand that it is an offence or contravention under section 32 of the Road Vehicle Standards Act 2018 to provide false or misleading information.

☑I, being the person authorised to make the declaration on behalf of the applicant, agree to the above and by checking this box, I acknowledge that I am signing this declaration.

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VSS.NCE.11.01.01

Road Vehicle Component Type Approval

The following component has been granted a component type approval under section 177 of the *Road Vehicle Standards Rules 2019*. The component fully complies with the applicable national road vehicle standards.

RoadRunner Chassis Pty Ltd

Caravan Chassis

Variants: Chassis, Custom Chassis

Approval holder	ROADRUNNER CHASSIS PTY LTD
Approval number	CTA-061081
This approval is valid from	30/05/2023
Approval expires on	29/05/2030 (unless revoked earlier)

This component type approval is subject to the conditions set out in the attachment to this approval notice.

s22(1)(a)(ii)

Delegate of the Secretary
Vehicle Safety Operations Branch
Department of Infrastructure, Transport, Regional Development, Communications and the Arts
30/05/2023

Attachment A: Conditions of approval and additional information

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Attachment A – Conditions of approval and additional information

The type of road vehicle component complies with the national road vehicle standards identified in Attachment A1. See Attachment A1 for references to the documents that demonstrate compliance with the nominated national road vehicle standards.

Automatic suspension of an approval

A component type approval will be automatically suspended if certain circumstances exist regarding new or amended national road vehicle standards. These circumstances are listed in section 202 of the *Road Vehicle Standards Rules 2019* (Rules).

You will be notified in writing twelve, six and three months prior to the time that a new or amended standard becomes applicable. To maintain the currency of this approval you will need to demonstrate compliance to the new or amended standard or apply to vary the approval under subsection 197(2) of the Rules.

Recalls of approved road vehicle components

Approval holders are reminded of their obligations related to the recall of approved road vehicle components, as set out in Part 3 of the *Road Vehicle Standards Act 2018* and Part 8 of the Rules.

Further information on recalls and compliance with obligations is available at: https://www.infrastructure.gov.au/infrastructure-transport-vehicles/vehicles/vehicle-recalls.

Conditions of the approval

This road vehicle component type approval is subject to a range of conditions.

The breach of a condition of an approval is a serious matter. If the approval holder does not comply with a condition, the approval holder and, if applicable, the executive officers may have committed an offence under section 28 of the *Road Vehicle Standards Act 2018*.

Potential penalties for breach of a condition of an approval may include but are not limited to:

- suspension or revocation of the approval
- an infringement notice of 12 penalty units for executive officers of a company or individuals, or 60 penalty units for a company
- court action such as civil penalty proceedings or criminal prosecution, which could result in a maximum penalty of 120 penalty units

Standard conditions

Standard conditions are set out in Part 6, Division 3 of the Rules and automatically apply to all road vehicle component type approvals. These conditions is set out in **Attachment A2**.

Specified conditions

In accordance with paragraph 183(a) of the Rules, this approval is also subject to the specified conditions identified in **Attachment A3.**

Expiry of this approval

This approval is valid for the dates set out on page one of the approval notice, unless revoked earlier.

It is important that if the approval holder wishes for the road vehicle component type approval to continue after the expiry of this approval, that an application for a new road vehicle component type

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approval is made well in advance of the expiry date. It may take at least 60 business days for the new application to be assessed.

When this approval expires, the approval holder must not represent that the road vehicle component is an approved road vehicle component unless a new road vehicle component type approval is granted.

Contact us

For further information, or to contact us regarding matters that are not listed in the ROVER portal, please email ROVERinfo@infrastructure.gov.au, see http://infrastructure.gov.au/vehicles, or call us Monday to Friday 9:00am to 5:00pm AEST:

- 1800 815 272 (free call within Australia)
- +61 2 6274 7444 (outside Australia)

List of sub-attachments

Attachment A1 – Document references for compliance information and level of compliance for each national road vehicle standard

Attachment A2 – Standard conditions

Attachment A3 – Specified conditions

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Attachment A1 – Documents used to demonstrate components of the type comply with the applicable national road vehicle standards

Please Note: A value of 'not applicable' in any of the below tables means the listed ADR did not apply to this component at the time of assessment.

Australian Design Rule (ADR)	**Component compliance information document reference**	**Extent of compliance (including extent of any minor and inconsequential non-compliance)**
ADR 62/02 - Mechanical Connections Between Vehicles	ADR 62/02	Full Compliance

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Attachment A2 – Standard conditions

The standard conditions of all road vehicle component type approvals are set out in Part 6, Division 3 of the Rules and automatically apply to this approval. Each of the following requirements is a condition of a road vehicle component type approval:

Section 184 - Condition about compliance with national road vehicle standards

The holder of a road vehicle component type approval must ensure that the road vehicle component complies with the national road vehicle standards in force at the time that it is provided for use or installation in a road vehicle.

The holder of the road vehicle component type approval must be able to produce evidence that:

- demonstrates that the road vehicle component complies with the national standards in force at the time the component is provided for use
- could be taken into account for the purposes of subsection 177(2)

Section 185 - Condition about conformity of production system

The holder of a road vehicle component type approval must have a system that governs the manufacturing process that is outlined in the supporting information for the approval.

The system must provide information to ensure that the road vehicle component is covered by the approval and complies with the national road vehicle standards fully or substantially, if the non-compliance is considered minor and inconsequential.

Section 186 - Condition about providing information to the department

The holder of a road vehicle component type approval must provide or arrange for the Secretary or an inspector to access the original and any subsequent versions of the supporting information for the approval.

The holder of a road vehicle component type approval must:

- provide the Secretary or an inspector any information that is reasonably requested to assess whether the holder of the approval is complying with the Act, the Rules or any other instrument made under the Act or the Rules
- provide any other information or documents specified in such a request about road vehicle components to which the approval applies
- provide written answers to questions specified in the request about road vehicle components that are subject to the approval.

Section 186 - Condition about allowing or arranging an inspection

The holder of a road vehicle component type approval must allow or arrange for the Secretary or an inspector to inspect premises at any reasonable time for deciding whether the holder of the approval is complying with the national standards. This includes assessing if road vehicle components or road vehicles containing road vehicle components would meet the national road vehicle standards to the extent that those standards relate to the road vehicle component.

The holder of a road vehicle component type approval must be able to allow the Secretary or an inspector to inspect the premises where the road vehicle components are designed or manufactured, or things, including documents associated with the design and manufacture of the road vehicle component(s).

This includes any additional manufacturing or design facilities that provide components to the road vehicle component type approval holder that may be used to manufacture the road vehicle component(s).

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Section 187 - Condition about record keeping

A holder of a road vehicle component type approval is required to keep the original and subsequent versions of the supporting information for the approval whilst it is in force and for a period of 7 years after it expires or is revoked. All supporting information must be kept up to date whilst the approval is in force.

Section 188 - Condition about providing instructions for use or installation of component

The holder of a road vehicle component type approval must provide instructions for the use or installation of the road vehicle component ensuring that, if the instructions are followed correctly, the road vehicle component will be installed in accordance with the national road vehicle standards applicable to that component.

When a component is provided, the road vehicle component type approval holder must ensure that the latest version of the instructions is made available to the installer of the road vehicle component.

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Attachment A3 – Specified conditions

Notification of recall action

You must advise the Department, as soon as practicable, if recall action is undertaken outside of Australia in relation to a component that is or may be an approved road vehicle component that you provide for use or installation in a road vehicle.

Notification of systemic safety or non-compliance issues with the road vehicle component

You must advise the Department, as soon as practicable, of any systemic issues with the road vehicle component covered by the approval that:

- will or may cause injury to any person
- a reasonably foreseeable use (including a misuse) will or may cause injury to any person
- causes the component to not, or to likely not, comply with the applicable national road vehicle standards (except to the extent or in the respects to which the approval specified that the component is not required to comply with the applicable standards).

You may request that I provide reasons for the decision to specify conditions on this approval. Such a request must be made in writing to ROVERinfo@infrastructure.gov.au quoting the road vehicle component type approval number near the top of this document. I will provide reasons within 28 days of your request.

You may also apply to the Administrative Appeals Tribunal (AAT) for review of the decision to specify conditions on the approval. Please see https://www.aat.gov.au/ for further information.

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FOI 27-212 - Document 25

Please provide the Test Report for ADR 62/02.

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FOI 27-212 - Document 26

This application is for a Caravan Chassis manufactured in Australia.

The applicant has full control of the design and manufacture of the component and has provided an acceptable QMS Summary.

All the applicable ADRs are certified as per the legislation.

The applicant has made all the required declarations and assurances.

CTA-2022-0002827 is recommended for approval.

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FOI 27-212 - Document 27

Australian Government
Department of Infrastructure, Transport, Regional Development, Communications and the Arts

s47F
10 Dennis Street
Campberfield VIC 3061

VSS.NCE.17.13

Approval number VTA-060460

Decision to vary approval requested by the holder of an approval under Road Vehicle Standards Rules 2019, section 197

I, s22(1)(a)(ii) vary VTA-060460 as requested by s47F

This decision takes effect on the date variation fee is paid.

Contact us

For further information, or to contact us regarding matters that are not listed in the ROVER portal, please email ROVERinfo@infrastructure.gov.au, see http://infrastructure.gov.au/vehicles, or call us Monday to Friday 9:00am to 5:00pm AEST:

- 1800 815 272 (free call within Australia)
- +61 2 6274 7444 (outside Australia)

s22(1)(a)(ii)
Delegate of the Secretary
Vehicle Safety Operations Branch
Department of Infrastructure, Transport, Regional Development, Communications and the Arts
27/06/2023

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FOI 27-212 - Document 28

Australian Government
Department of Infrastructure, Transport,
Regional Development, Communications and the Arts

s47F

VSS.NCE.17.13

Approval number VTA-060460

Decision to vary approval requested by the holder of an approval under Road Vehicle Standards Rules 2019, section 197

I, s22(1)(a)(ii) vary VTA-060460 as requested by s47F

This decision takes effect on the date variation fee is paid.

Contact us

For further information, or to contact us regarding matters that are not listed in the ROVER portal, please email ROVERinfo@infrastructure.gov.au, see http://infrastructure.gov.au/vehicles, or call us Monday to Friday 9:00am to 5:00pm AEST:

- 1800 815 272 (free call within Australia)
- +61 2 6274 7444 (outside Australia)

s22(1)(a)(ii)

Delegate of the Secretary
Vehicle Safety Operations Branch
Department of Infrastructure, Transport, Regional Development, Communications and the Arts
27/11/2023

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Road vehicle descriptor

Information included in the Road Vehicle Descriptor (RVD) is supplied by the applicant for a vehicle type approval. This information is made available by the department for download to assist in defining the variants covered by the application or approval.

This downloaded version of the RVD is current on the date of the download identified below.

This information has not been verified or approved by the department. The department makes no statements or representations about the accuracy or completeness of this information.

Document Generated: 13/06/2024 05:51

General information

Vehicle type approval number:	VTA-060460 20231127
Make:	Golden Sun Caravans
Model:	TB
Marketing designation:	
Category:	T - Trailers

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List of variant(s)

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Variant information for Airlie

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Appalonia

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Aruba

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for BAHAMAS

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for CALYPSO

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for CARRIBEAN

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Dulcie

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Dusk

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for El Questro

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for FAMILY ADVENTURE

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Family Twilight

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Gantheaume

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Golden

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Hayoon

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for LA MAISON

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Larapinta

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Pacific

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Reddell

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Series

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Special Series

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for ST TROPEZ

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Tropic

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for TROPICANA

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Warrook

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Wild Warrior

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Department of Infrastructure, Transport,
Regional Development, Communications and the Arts

Application Details

Application Type	Vehicle Type Approval
Application Number	VTA-2023-0014035
Submitted On	12/10/2023 3:37:44 PM

Applicant details

Title	s47F
First Name	s47F
Last Name	s47F
Date of Birth	s47F
Email Address	s47F
Mobile Phone	s47F

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Australian Government

Department of Infrastructure, Transport, Regional Development, Communications and the Arts

Address Details

Address Type	Physical Address
Address Line 1	10 Dennis Street
Town/Suburb	Campberfield
State/Territory	VIC
Postcode	3061
Country	Australia

Address Type	Postal Address
Address Line 1	10 Dennis Street
Town/Suburb	Campberfield
State/Territory	VIC
Postcode	3061
Country	Australia

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FOI 27-212 - Document 30

Vehicle type details

What is the category of the road vehicle type?
TB - Light Trailer

Is the Aggregate Trailer Mass (ATM) of this trailer type 4.5 tonnes or less?
Yes

Is this application for a second stage of manufacture (SSM) vehicle?
No

Make : Other

Please specify make :Golden Sun Caravans

Model(s)

Model(s) Name
Airlie *(No change)*
Appalonia *(No change)*
Aruba *(No change)*
BAHAMAS *(No change)*
CALYPSO *(No change)*
CARRIBEAN *(No change)*
Dulcie *(No change)*
Dusk *(No change)*
El Questro *(No change)*
FAMILY ADVENTURE *(No change)*
Family Twilight *(No change)*
Gantheaume *(No change)*
Golden *(No change)*
Hayoon *(No change)*
LA MAISON *(No change)*
Larapinta *(No change)*
Pacific *(No change)*
Reddell *(No change)*
Series *(Add)*
Special Series *(Add)*
ST TROPEZ *(No change)*
Tropic *(No change)*
TROPICANA *(No change)*
Warrook *(Add)*
Wild Warrior *(No change)*

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Design facility details

Address Line 1	10 Dennis St
Town/Suburb	Campberfield
Country	Australia
State/Territory	VIC
Postcode/Zipcode	3061

Manufacturing facility details

Address Line 1	10 Dennis St
Town/Suburb	Campberfield
Country	Australia
State/Territory	VIC
Postcode/Zipcode	3061

What type of relationship does the applicant (or you if you are the applicant) have with the main manufacturing facility?

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Design and manufacturing control

Do you have full control over all stages of the design, componentry and manufacturing of the road vehicle type that this application covers?
Yes

Please provide a document reference number for your ISO Certificate or summarised QMS:
Vehicle Standards Bulletin VSB1 (Revision 5)....Also see attachment of QMS flow chart

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Extent of compliance

Applicable ADR

ADR Revision	Extent of compliance	Comments	Uploaded documents
ADR 01/00 - Reversing Lamps	Not applicable/Exempt	Caravans are not fitted with reversing lights	
ADR 06/00 - Direction Indicators	Full Compliance		
ADR 13/00 - Installation of Lighting and Light Signalling Devices on other than L-Group Vehicles	Full Compliance		
ADR 23/03 - Passenger Car Tyres	Full Compliance		
ADR 38/05 - Trailer Brake Systems	Full Compliance		
ADR 42/05 - General Safety Requirements	Full Compliance		
ADR 43/04 - Vehicle Configuration and Dimensions	Full Compliance		
ADR 44/02 - Specific Purpose Vehicle Requirements	Full Compliance		
ADR 45/01 - Lighting and Light Signalling Devices not Covered by ECE Regulations	Full Compliance		
ADR 47/00 - Retroreflectors	Full Compliance		
ADR 48/00 - Devices for Illumination of Rear Registration Plates	Full Compliance		

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ADR 49/00 - Front and Rear Position (Side) Lamps, Stop Lamps and End Outline Marker Lamps	Full Compliance		
ADR 51/00 - Filament Lamps	Not applicable/Exempt	Filament lights are not longer in use. LED lighting is provided and are ADR approved. Filament Headlights are not fitted to caravans	
ADR 52/00 - Rear Fog Lamps	Not applicable/Exempt	Caravans are not fitted with fog lights	
ADR 61/03 - Vehicle Marking	Full Compliance		
ADR 62/02 - Mechanical Connections Between Vehicles	Full Compliance		
ADR 74/00 - Side Marker Lamps	Full Compliance		
ADR 92/00 - External Projections	Full Compliance		
ADR 95/00 - Installation of Tyres	Full Compliance		
ADR 96/00 - Commercial Vehicle Tyres	Full Compliance		

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Contravention of road vehicle legislation

Has the applicant, or in the case of a body corporate any member of the key management personnel, contravened or may have contravened, road vehicle legislation?
No

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Approval details

Approval holder	s47F
Name of contact person	s47F
Email address	s47F
Phone	s47F
Website	

Embargo of variants

Variant(s) will be covered by this embargo	**Embargo date**

MVSA IPA number

Would you like to incorporate an existing IPA number for this vehicle type as part of your new vehicle type approval number under the RVS legislation?

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Further information

Would you like to apply to vary, remove or add a condition to your approval?
Yes

Which condition(s) of your approval would you like to request to vary, remove or add?
Add additional model names

Please provide further information to your request to vary, remove or add a condition.
Not applicable

Would you like to provide any further information?
No

Attachments

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Comments and any other matters

Please provide any comments or additional information to support your application below. You may also upload any relevant supporting documentation, if required.

Attachments

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Declarations

I/I on behalf of the applicant, declare that:

- the type of vehicle referred to in this application for variation either:
  - complies with the applicable national road vehicle standards; or
  - substantially complies with the national road vehicle standards, in which case I have specified the respects or the extents of non-compliance and provided appropriate justification for the non-compliance; and
- the documents specified in the compliance information form(s) demonstrate that compliance with the applicable national road vehicle standards.
- at the time of making this application, I am able to provide the supporting information for the road vehicle type approval; and
- I will be able to access and provide the original and subsequent versions of the supporting information whilst the approval is in force and for the period of seven (7) years after it expires; and
- I will ensure the supporting information is kept up-to-date whilst the approval is in force; and
- I will be able to arrange for, if required, the Secretary or an inspector to inspect the premises used, or to be used, in the manufacturing process for the vehicle type for the purpose of confirming compliance with the applicable national road vehicle standards and any other requirements of the Act, the Rules or an instrument made under the Act or the Rules.

I/I on behalf of the applicant, declare that the applicant will comply with the conditions to which a road vehicle type approval will be subject, including such of the following conditions as may apply to or be specified in the approval:

- The conditions of a vehicle type approval listed in Sections 26-30 of the Road Vehicle Standards Rules 2019.
- If the application includes an embargo date for certain variants – The condition that the holder of the approval must ensure that a relevant person does not enter a vehicle on the RAV under this approval before the Secretary has published a notice relating to the approval on the department's website in accordance with section 223 of the Rules.
- If the application includes a cab chassis variant – The condition that the holder of the approval must provide instructions, guidelines and references to the relevant ADRs that must be met, to each person who is responsible for completing a chassis-cab covered by this approval, before providing the chassis-cab to that person. The completion of the vehicle must be done prior to the vehicle being provided to a consumer for the first time in Australia.
- If the application is for a motorhome or campervan
  - The condition that every vehicle entered on the RAV under the approval must be fitted with a durable and permanent label or plaque with information to identify the seating positions that must not be occupied when the vehicle is in motion (and included in the owner's manual for the vehicle); and
  - The condition that seats intended for use solely when the vehicle is stationary must not be provided with seatbelts, child-restraint anchorages or any other equipment that may imply they are intended for use while the vehicle is in motion; and
  - The condition that if a swivelling seat is intended for use while the vehicle is in motion, the seat must be easily lockable without the use of tools and must comply with all applicable requirements in the ADR. A durable and permanent label or

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FOI 27-212 - Document 30

plaque must be fitted (and included in the vehicle owner's manual) to advise the correct position for use while the vehicle is in motion; and
    - The condition that the approval holder must ensure that the gross vehicle mass and gross axle load ratings specified for vehicles covered by the approval are appropriate. The vehicle must include a placard identifying the gross axle load ratings for each axle or axle group.
- The condition that the holder of the approval must advise the department, as soon as practicable, if overseas recall action is undertaken in relation to a similar type of vehicle as that to which this approval applies.
- The condition that the holder of the approval must notify the department, as soon as practicable, of any systemic issues with vehicles covered by the approval that:
    - will or may cause injury to any person; or
    - mean that a reasonably foreseeable use (including a misuse) will or may cause injury to any person
    - causes the vehicle to not, or to likely not, comply with the applicable national road vehicle standards (except to the extent or in the respects to which this approval specifies that the type of vehicle is not required to comply with the applicable standards).

I/I on behalf of the applicant, declare that:

- the information contained in this application is true and correct; and
- I have not omitted any matter or thing from this application without which it would be misleading in any material particular.

I/I on behalf of the applicant, declare that the applicant will comply with:

- any conditions specified in the approval; and
- any other requirements of the Act, the Rules, or an instrument made under the Act or the Rules that apply in relation to the holder of the approval or the type of road vehicle.
- if tested, each variant covered by the application would not produce a less favourable result than the result set out in the documents identified within the application to demonstrate compliance with the national road vehicle standards.

I/I on behalf of the applicant, understand that, under section 196 of the Rules, the Secretary may request further specified information to support this application for variation.

I/I on behalf of the applicant, understand that the Secretary may refuse to consider this application if I do not comply with a request made under section 196 of the Rules.

I/I on behalf of the applicant, understand that the Secretary may also take the following into account when considering the application for variation:

- whether I (and in the case of a body corporate, any member of the key management personnel) have contravened or may have contravened road vehicle legislation; and
- whether the person will comply with the conditions to which the approval will be subject; and
- any other matter the Secretary considers relevant.

I/I on behalf of the applicant acknowledge that the Secretary may vary the approval in terms other than those requested in the application for variation.

I/I on behalf of the applicant, understand that it is an offence or contravention under section 32 of the Road Vehicle Standards Act 2018 to provide false or misleading information.

☑I, being the person authorised to make the declaration on behalf of the applicant, agree to the above and by checking this box, I acknowledge that I am signing this declaration.

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Road vehicle descriptor

Information included in the Road Vehicle Descriptor (RVD) is supplied by the applicant for a vehicle type approval. This information is made available by the department for download to assist in defining the variants covered by the application or approval.

This downloaded version of the RVD is current on the date of the download identified below.

This information has not been verified or approved by the department. The department makes no statements or representations about the accuracy or completeness of this information.

Document Generated: 14/06/2024 03:41

General information

Vehicle type approval number:	VTA-060460 20230627
Make:	Golden Sun Caravans
Model:	TB
Marketing designation:	
Category:	T - Trailers

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List of variant(s)

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Variant information for Airlie

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Appalonia

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Aruba

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for BAHAMAS

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for CALYPSO

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for CARRIBEAN

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Dulcie

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Dusk

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for El Questro

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for FAMILY ADVENTURE

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Family Twilight

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Gantheaume

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Golden

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Hayoon

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for LA MAISON

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Larapinta

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Pacific

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Reddell

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for ST TROPEZ

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Tropic

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for TROPICANA

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Wild Warrior

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Department of Infrastructure, Transport, Regional Development, Communications and the Arts

Application for a Vehicle Type Approval

This application summary is **not an approval notice**.

Application details

Application number	VTA-2024-0020006
Application type	Variation
Application for	s47F
Submitted on	13/02/2025 2:24:30 PM
Submitted by	s47F

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Vehicle Type details

Category of the road vehicle type	TB - Light Trailer
Vehicle Make	Other
Please specify make	Golden Sun Caravans
Vehicle Model	TB

Model(s)	
WC-R	Add
WC-R V-SPEC I	Add
WC-R V-SPEC II	Add
WC-S	Add
WC-S M1	Add
WC-S M2	Add
Reddell	No change
Warrook	No change
Wild Warrior	No change
Larapinta	No change
Hayoon	No change
Tropic	No change
Aruba	No change
FAMILY ADVENTURE	No change
El Questro	No change
Golden	No change
Special Series	No change
ST TROPEZ	No change
Series	No change
Pacific	No change
Airlie	No change
CARRIBEAN	No change
Dulcie	No change
Gantheaume	No change
Appalonia	No change
LA MAISON	No change
BAHAMAS	No change
CALYPSO	No change
TROPICANA	No change
Dusk	No change
Family Twilight	No change

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Is the Aggregate Trailer Mass (ATM) of this trailer type 4.5 tonnes or less?

Yes

Second stage of manufacture vehicle:

No

Is this application for a pre-release evaluation vehicle?

No

Facility Details

Facility Type	Manufacturing	(No change)
Address Line 1	10 Dennis St	
Address Line 2		
Town/Suburb	Campberfield	
Postcode/Zip code	3061	
Country	Australia	

What type of relationship does the applicant (or if you are the applicant) have with the main manufacturing facility?

Facility Type	Design	(No change)
Address Line 1	10 Dennis St	
Address Line 2		
Town/Suburb	Campberfield	
Postcode/Zip code	3061	
Country	Australia	

Design and manufacturing control

Do you have full control over all stages of the design, componentry and manufacturing process of the road vehicle type that this application covers?

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Yes

Please review the Department's QMS Checklist. Does your quality management system include all elements identified in the checklist?

Yes

Extent of compliance

Applicable ADRs

ADR Revision	Extent of compliance	Comments	Documents
ADR 01/00 - Reversing Lamps	Full Compliance	Caravans are not fitted with reversing lights	
ADR 06/00 - Direction Indicators	Full Compliance		
ADR 13/00 - Installation of Lighting and Light Signalling Devices on other than L-Group Vehicles	Full Compliance		
ADR 23/03 - Passenger Car Tyres	Full Compliance		
ADR 38/05 - Trailer Brake Systems	Full Compliance		
ADR 42/05 - General Safety Requirements	Full Compliance		
ADR 43/04 - Vehicle Configuration and Dimensions	Full Compliance		
ADR 44/02 - Specific Purpose Vehicle Requirements	Full Compliance		
ADR 45/01 - Lighting and Light Signalling Devices not Covered by ECE Regulations	Full Compliance		
ADR 47/00 - Retroreflectors	Full Compliance		
ADR 48/00 -	Full Compliance		

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Devices for Illumination of Rear Registration Plates			
ADR 49/00 - Front and Rear Position (Side) Lamps, Stop Lamps and End Outline Marker Lamps	Full Compliance		
ADR 51/00 - Filament Lamps	Full Compliance	Filament lights are not longer in use. LED lighting is provided and are ADR approved. Filament Headlights are not fitted to caravans	
ADR 52/00 - Rear Fog Lamps	Full Compliance	Caravans are not fitted with fog lights	
ADR 61/03 - Vehicle Marking	Full Compliance		
ADR 62/02 - Mechanical Connections Between Vehicles	Full Compliance		
ADR 74/00 - Side Marker Lamps	Full Compliance		
ADR 92/00 - External Projections	Full Compliance		
ADR 95/00 - Installation of Tyres	Full Compliance		
ADR 96/00 - Commercial Vehicle Tyres	Full Compliance		

Contravention of road vehicle legislation

Has the applicant, or in the case of a body corporate any member of the key management personnel, contravened (or may have contravened) road vehicle legislation? *

No

Approval details

Approval holder s47F

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Name of contact person	s47F
Email address	s47F
Phone	s47F
Website	

Requested commencement date of approval, if granted:

Embargo of variants

Variant/s covered by this embargo	Embargo date

Is the applicant intending to add vehicles under this type approval to the RAV before those vehicles are in Australia?

No

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Further information

Would you like to apply to vary, remove or add a condition to your approval?

Yes

Which condition(s) of your approval would you like to request to vary, remove or add?

Add additional model names

Please provide further information to your request to vary, remove or add a condition.

nil

Would you like to provide any further information?

none

Comments and any other matters

Please provide any comments or additional information to support your application below. You may also upload any relevant supporting documentation, if required.

Add additional model names

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Declarations

I/I on behalf of the applicant, declare that:

- the type of vehicle referred to in this application for variation either:
  - complies with the applicable national road vehicle standards; or
  - substantially complies with the national road vehicle standards, in which case I have specified the respects or the extents of non-compliance and provided appropriate justification for the non-compliance; and
- the documents specified in the compliance information form(s) demonstrate that compliance with the applicable national road vehicle standards.
- at the time of making this application, I am able to provide the supporting information for the road vehicle type approval; and
- I will be able to access and provide the original and subsequent versions of the supporting information whilst the approval is in force and for the period of seven (7) years after it expires; and
- I will ensure the supporting information is kept up-to-date whilst the approval is in force; and
- I will be able to arrange for, if required, the Secretary or an inspector to inspect the premises used, or to be used, in the manufacturing process for the vehicle type for the purpose of confirming compliance with the applicable national road vehicle standards and any other requirements of the Act, the Rules or an instrument made under the Act or the Rules.

I/I on behalf of the applicant, declare that the applicant will comply with the conditions to which a road vehicle type approval will be subject, including such of the following conditions as may apply to or be specified in the approval:

- The conditions of a vehicle type approval listed in Sections 26-30 of the Road Vehicle Standards Rules 2019.
- If the application includes an embargo date for certain variants ? The condition that the holder of the approval must ensure that a relevant person does not enter a vehicle on the RAV under this approval before the Secretary has published a notice relating to the approval on the department?s website in accordance with section 223 of the Rules.
- If the application includes a cab chassis variant ? The condition that the holder of the approval must provide instructions, guidelines and references to the relevant ADRs that must be met, to each person who is responsible for completing a chassis-cab covered by this approval, before providing the chassis-cab to that person. The completion of the vehicle must be done prior to the vehicle being provided to a consumer for the first time in Australia.
- If the application is for a motorhome or campervan
  - The condition that every vehicle entered on the RAV under the approval must be fitted with a durable and permanent label or plaque with information to identify the seating positions that must not be occupied when the vehicle is in motion (and included in the owner?s manual for the vehicle); and
  - The condition that seats intended for use solely when the vehicle is stationary must not be provided with seatbelts, child-restraint anchorages or any other equipment that may imply they are intended for use while the vehicle is in motion; and
  - The condition that if a swivelling seat is intended for use while the vehicle is in motion, the seat must be easily lockable without the use of tools and must comply with all applicable requirements in the ADR. A durable and permanent label or plaque must be fitted (and included in the vehicle owner?s manual) to advise the correct position for use while the vehicle is in motion; and
  - The condition that the approval holder must ensure that the gross vehicle mass and gross axle load ratings specified for vehicles covered by the approval are appropriate. The vehicle must include a placard identifying the gross axle load ratings for each axle or axle group.
- The condition that the holder of the approval must advise the department, as soon as practicable, if overseas recall action is undertaken in relation to a similar type of vehicle as that to which this approval applies.

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- The condition that the holder of the approval must notify the department, as soon as practicable, of any systemic issues with vehicles covered by the approval that:
    - will or may cause injury to any person; or
    - mean that a reasonably foreseeable use (including a misuse) will or may cause injury to any person
    - causes the vehicle to not, or to likely not, comply with the applicable national road vehicle standards (except to the extent or in the respects to which this approval specifies that the type of vehicle is not required to comply with the applicable standards).

I/I on behalf of the applicant, declare that:

- the information contained in this application is true and correct; and
- I have not omitted any matter or thing from this application without which it would be misleading in any material particular.

I/I on behalf of the applicant, declare that the applicant will comply with:

- any conditions specified in the approval; and
- any other requirements of the Act, the Rules, or an instrument made under the Act or the Rules that apply in relation to the holder of the approval or the type of road vehicle.
- if tested, each variant covered by the application would not produce a less favourable result than the result set out in the documents identified within the application to demonstrate compliance with the national road vehicle standards.

I/I on behalf of the applicant, understand that, under section 196 of the Rules, the Secretary may request further specified information to support this application for variation.

I/I on behalf of the applicant, understand that the Secretary may refuse to consider this application if I do not comply with a request made under section 196 of the Rules.

I/I on behalf of the applicant, understand that the Secretary may also take the following into account when considering the application for variation:

- whether I (and in the case of a body corporate, any member of the key management personnel) have contravened or may have contravened road vehicle legislation; and
- whether the person will comply with the conditions to which the approval will be subject; and
- any other matter the Secretary considers relevant.

I/I on behalf of the applicant acknowledge that the Secretary may vary the approval in terms other than those requested in the application for variation.

I/I on behalf of the applicant, understand that it is an offence or contravention under section 32 of the Road Vehicle Standards Act 2018 to provide false or misleading information.

☒ I, being the person authorised to make the declaration on behalf of the applicant, agree to the above and by checking this box, I acknowledge that I am signing this declaration.

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VTA-2024-0020006

Submitted: 13/02/2025

ADR 01/00 - Reversing Lamps *(Change)*
Full Compliance

ADR 06/00 - Direction Indicators *(No change)*
Full Compliance

ADR 13/00 - Installation of Lighting and Light Signalling Devices on other than L-Group Vehicles *(No change)*
Full Compliance

ADR 23/03 - Passenger Car Tyres *(No change)*
Full Compliance

ADR 38/05 - Trailer Brake Systems *(No change)*
Full Compliance

ADR 42/05 - General Safety Requirements *(No change)*
Full Compliance

ADR 43/04 - Vehicle Configuration and Dimensions *(No change)*
Full Compliance

ADR 44/02 - Specific Purpose Vehicle Requirements *(No change)*
Full Compliance

ADR 45/01 - Lighting and Light Signalling Devices not Covered by ECE Regulations *(No change)*
Full Compliance

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ADR 47/00 - Retroreflectors *(No change)*
Full Compliance

ADR 48/00 - Devices for Illumination of Rear Registration Plates *(No change)*
Full Compliance

ADR 49/00 - Front and Rear Position (Side) Lamps, Stop Lamps and End Outline Marker Lamps *(No change)*
Full Compliance

ADR 51/00 - Filament Lamps *(Change)*
Full Compliance

ADR 52/00 - Rear Fog Lamps *(Change)*
Full Compliance

ADR 61/03 - Vehicle Marking *(No change)*
Full Compliance

ADR 62/02 - Mechanical Connections Between Vehicles *(No change)*
Full Compliance

ADR 74/00 - Side Marker Lamps *(No change)*
Full Compliance

ADR 92/00 - External Projections *(No change)*
Full Compliance

ADR 95/00 - Installation of Tyres *(No change)*
Full Compliance

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ADR 96/00 - Commercial Vehicle Tyres *(No change)*
Full Compliance

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Road vehicle descriptor

Information included in the Road Vehicle Descriptor (RVD) is supplied by the applicant for a vehicle type approval. This information is made available by the department for download to assist in defining the variants covered by the application or approval.

This downloaded version of the RVD is current on the date of the download identified below.

This information has not been verified or approved by the department. The department makes no statements or representations about the accuracy or completeness of this information.

Document Generated: 13/02/2025 14:25

General information

Vehicle type approval number:	
Make:	Golden Sun Caravans
Model:	TB
Marketing designation:	
Category:	T - Trailers

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List of variant(s)

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Variant information for Airlie

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Appalonia

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Aruba

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for BAHAMAS

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for CALYPSO

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for CARRIBEAN

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Dulcie

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Dusk

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for El Questro

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for FAMILY ADVENTURE

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Family Twilight

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Gantheaume

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Golden

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Hayoon

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for LA MAISON

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Larapinta

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Pacific

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Reddell

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Series

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Special Series

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for ST TROPEZ

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Tropic

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for TROPICANA

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for Warrook

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for WC-R

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for WC-R V-SPEC I

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for WC-R V-SPEC II

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for WC-S

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for WC-S M1

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

Variant information for WC-S M2

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Variant information for Wild Warrior

Typical vehicle identification numbers (VINs)

Vehicle identification number (VIN)

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Typical vehicle identification number (VIN) details

VIN:	
Location:	

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Australian Government
Department of Infrastructure, Transport,
Regional Development, Communications and the Arts

VSS.NCE.02.01.01.01

Road Vehicle Type Approval

The following vehicle type has been granted road vehicle type approval under section 19 of the *Road Vehicle Standards Rules 2019*.

Golden Sun Caravans

Models: Airlie, Appalonia, Aruba , BAHAMAS, CALYPSO, CARRIBEAN, Dulcie, Dusk, El Questro, FAMILY ADVENTURE, Family Twilight, Gantheaume, Golden, Hayoon, LA MAISON, Larapinta, Pacific , Reddell, Series, Special Series, ST TROPEZ, Tropic, TROPICANA , Warrook, WC-R, WC-R V-SPEC I, WC-R V-SPEC II, WC-S, WC-S M1, WC-S M2, Wild Warrior

TB - Light Trailer

Approval holder	s47F
Approval number	VTA-060460
This approval is valid from	15/06/2022
Variation valid from	27/03/2025

The approval expires on 14/06/2029 unless revoked earlier

This road vehicle type approval is subject to the conditions set out in Attachment A.

The approval holder, or a person authorised by the approval holder in writing, is permitted to import a vehicle to which this road vehicle type approval applies.

s22(1)(a)(ii)

Delegate of the Secretary
Vehicle Safety Operations Branch
Department of Infrastructure, Transport, Regional Development, Communications and the Arts

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27/03/2025

Attachment A: Conditions of approval and additional information

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Attachment A – Conditions of approval and additional information

This road vehicle type complies with the applicable national road vehicle standards.

See Attachment A1 for references to the documents that demonstrate compliance with the national road vehicle standards

Importation of road vehicles

In accordance with section 22 of the *Road Vehicle Standards Act 2018* (the Act), the holder of this road vehicle type approval, or a person authorised in writing by the holder of this road vehicle type approval, is permitted to import a road vehicle of a type to which this approval applies.

To confirm whether this approval remains in force visit https://rover.infrastructure.gov.au/

Entering the Vehicle onto the RAV

In accordance with section 9 of the Road Vehicle Standards Rules 2019 (the Rules), the holder of this road vehicle type approval, or a person authorised in writing by the holder of the approval, may enter a vehicle to which this approval applies onto the RAV once the vehicle is in Australia.

Conditions of the approval

This road vehicle type approval VTA-060460 is subject to a range of conditions.

The breach of a condition of an approval is a serious matter. The approval holder is reminded of their obligations to comply with the conditions of the approval, as set out in section 28 of the Rules.

Potential penalties for breach of a condition of an approval may include but are not limited to:

- suspension or revocation of the approval
- an infringement notice of 12 penalty units for executive officers of a company or individuals, or 60 penalty units for a company
- court action such as civil penalty proceedings or criminal prosecution, which could result in a maximum penalty of 120 penalty units

Two types of conditions apply to this approval:

Standard conditions

Standard conditions apply to all road vehicle type approvals and are set out in Part 3, Division 2 of the Rules. These conditions are set out in **Attachment A3**.

Specified conditions

In accordance with paragraph 25(a) of the Rules, this road vehicle type approval is subject to additional conditions as specified in **Attachment A4.**

Automatic suspension of an approval

As set out in section 202 of the Rules, a road vehicle type approval will be automatically suspended if certain circumstances exist relating to compliance with new or amended national road vehicle standards.

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You will be notified in writing twelve, six and three months prior to the time that a new or amended national road vehicle standard becomes applicable. To maintain the currency of this approval you will need to demonstrate compliance with the new or amended national road vehicle standard or apply to vary the approval under section 197(2) of the Rules.

Recalls of approved road vehicles

Approval holders are reminded of their obligations related to the recall of type approved vehicles, as set out in Part 3 of the Act and Part 8 of the Rules.

Further information on recalls and compliance with obligations is available at:
https://www.infrastructure.gov.au/infrastructure-transport-vehicles/vehicles/vehicle-recalls

Expiry of this approval

This approval is valid for the dates set out on page one of the approval notice, unless revoked sooner.

Where an approval holder wishes to continue to hold a road vehicle type approval for this type of vehicle after the expiry date of this approval, it is important the approval holder applies for a new road vehicle type approval well in advance of the expiry date. It may take up to 60 business days for the new application to be assessed.

Contact us

For further information, or to contact us regarding matters that are not listed in the ROVER portal, please email ROVERinfo@infrastructure.gov.au, see http://infrastructure.gov.au/vehicles, or call us Monday to Friday 9:00am to 5:00pm AEST:

- 1800 815 272 (free call within Australia)
- +61 2 6274 7444 (outside Australia)

List of sub-attachments

Attachment A1 – Document references for compliance information and level of compliance for each national road vehicle standard

Attachment A2 – Specified Non Compliance

Attachment A3 – Standard conditions

Attachment A4 – Specified conditions

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Attachment A1 – Documents used to demonstrate vehicles of the type comply with the applicable national road vehicle standards

In accordance with section 23(2)(d) of the Rules, this attachment sets out the national road vehicle standards applicable to the type of vehicle and the reference numbers of the documents that demonstrate that vehicles of that type comply with those standards.

National Road Vehicle Standard	Document reference number
ADR 01/00 - Reversing Lamps ADR 06/00 - Direction Indicators ADR 13/00 - Installation of Lighting and Light Signalling Devices on other than L-Group Vehicles ADR 23/03 - Passenger Car Tyres ADR 38/05 - Trailer Brake Systems ADR 42/05 - General Safety Requirements ADR 43/04 - Vehicle Configuration and Dimensions ADR 44/02 - Specific Purpose Vehicle Requirements ADR 45/01 - Lighting and Light Signalling Devices not Covered by ECE Regulations ADR 47/00 - Retroreflectors ADR 48/00 - Devices for Illumination of Rear Registration Plates ADR 49/00 - Front and Rear Position (Side) Lamps, Stop Lamps and End Outline Marker Lamps ADR 51/00 - Filament Lamps ADR 52/00 - Rear Fog Lamps ADR 61/03 - Vehicle Marking ADR 62/02 - Mechanical Connections Between Vehicles ADR 74/00 - Side Marker Lamps ADR 92/00 - External Projections ADR 95/00 - Installation of Tyres ADR 96/00 - Commercial Vehicle Tyres	VSB 1 Version 6 and ADR 62/02 report

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Attachment A2 – Specified Non Compliance

In accordance with section 23(2)(e) of the Rules, this attachment sets out, where relevant, the respects in which vehicles of this type are not required to comply with the applicable national road vehicle standards in order to be entered on the RAV.

This attachment is not applicable. This approval is for a type of vehicle that complies with the applicable national road vehicle standards

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Attachment A3 – Standard conditions of the road vehicle type approval

The standard conditions for all road vehicle type approvals are set out in Part 3, Division 2 of the Rules and automatically apply to this approval. Each of the following requirements is a condition of a road vehicle type approval:

Section 26 of the Rules - Condition about compliance with national road vehicle standards

The holder of the approval, at all times:

- must ensure that vehicles covered by the approval, at the time they are entered on the RAV, comply with the applicable national road vehicle standards as in force at that time; and
- must be able to produce evidence that:
    - demonstrates that vehicles covered by the approval comply with those standards at the time they are entered on the RAV; and
    - the Secretary could take into account for the purposes of subsection 19(2) of the Rules; and
- must not give instructions, for the purposes of paragraph 51(e) of the Rules, that would result in a vehicle covered by this approval ceasing to comply with the applicable national road vehicle standards as in force at the time the Secretary granted the approval.

Section 27 - Condition about conformity of production system

The holder of the approval must have a conformity of production system that governs the manufacturing process detailed in the supporting information for the approval.

The system must ensure that, at the time that a vehicle is entered on the RAV under the approval, the vehicle satisfies the requirements of the type approval pathway under section 15 of the Rules.

Section 28 - Condition about notifying the Secretary of errors in RAV entries

The holder of a road vehicle type approval must notify the Secretary if they become aware of an error in information entered on the RAV under the approval (whether by the holder of the approval or a person authorised in writing by the holder). The holder of the road vehicle type approval must notify the Secretary of the error as soon as practicable after becoming aware of the error.

Section 29 - Condition about providing information

The condition that the holder of the approval, when requested in writing by the Secretary or an inspector, and within such reasonable time as is specified in the request:

- provide, or arrange for the Secretary or inspector to access, the original and any subsequent versions of the supporting information for the approval; and
- provide any information that the Secretary or inspector reasonably requires for the purposes of assessing whether the holder of the approval is complying with the Act, the Rules, or an instrument made under the Act or the Rules; and

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- provide any other information or documents specified in the request about vehicles to which the approval applies; and
- provide written answers to questions, specified in the request, about vehicles entered on the RAV under the approval; and
- for the purpose of assessing whether vehicles entered on the RAV under the approval comply with the applicable national road vehicle standards, allow or arrange for the Secretary or an inspector to inspect:
    - premises where road vehicle components of those vehicles are designed or manufactured; or
    - premises where those vehicles are designed or manufactured; or
    - things associated with the design or manufacturing process, including documents, vehicles and components

Section 30 - Condition about record keeping

A holder of a road vehicle type approval is required to keep the original and subsequent versions of the supporting information for the approval whilst it is in force and for a period of 7 years after it expires or is revoked. All supporting information must be kept up to date whilst the approval is in force.

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Attachment A4 – Specified Conditions

In accordance with section 25 of the Rules, this approval is also subject to the following specified conditions:

Notification of recall action

The holder of this approval must advise the department, as soon as practicable, if **overseas recall action** is undertaken in relation to a similar type of vehicle as that to which this approval applies.

In this condition:

overseas recall action means a voluntary or compulsory recall of vehicles in an overseas jurisdiction.

Notification of systemic safety or non-compliance issues with the road vehicle

The holder of this approval must notify the department, as soon as practicable, of any **systemic issues** with vehicles covered by the approval that:

- will or may cause injury to any person; or
- mean that a reasonably foreseeable use (including a misuse) will or may cause injury to any person; or
- causes the vehicle to not, or to likely not, comply with the applicable national road vehicle standards (except to the extent or in the respects to which this approval specifies that the type of vehicle is not required to comply with the applicable standards).

In this condition:

systemic issue means an issue affecting [a class]/[more than one] of the vehicles covered by this approval.

You may request that I provide reasons for the decision to specify conditions on this approval. Such a request must be made in writing to ROVERinfo@infrastructure.gov.au quoting the road vehicle type approval number near the top of this document. I will provide reasons within 28 days of your request.

You may also apply to the Administrative Review Tribunal (ART) for review of the decision to specify conditions on the approval. Please see https://www.art.gov.au/ for further information.

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Australian Government

**Department of Infrastructure, Transport,
Regional Development, Communications and the Arts**

VSS.NCE.17.13

s47F

10 Dennis Street
Campberfield VIC 3061

Approval number VTA-060460

Decision to vary approval requested by the holder of an approval under Road Vehicle Standards Rules 2019, section 197

I, s22(1)(a)(ii) vary VTA-060460 as requested by s47F.

This decision takes effect on 27/03/2025.

Contact us

For further information, or to contact us regarding matters that are not listed in the ROVER portal, please email ROVERinfo@infrastructure.gov.au, see http://infrastructure.gov.au/vehicles, or call us Monday to Friday 9:00am to 5:00pm AEST:

- 1800 815 272 (free call within Australia)
- +61 2 6274 7444 (outside Australia)

s22(1)(a)(ii)

Delegate of the Secretary
Vehicle Safety Operations Branch
Department of Infrastructure, Transport, Regional Development, Communications and the Arts

27/03/2025

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