

Stand-alone modification code for use in Queensland only.

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# Modification Code S10 — Concessional Livestock Loading - Vehicle Rating

#### 1. Scope

The purpose of this code is to ensure vehicles used to transport livestock in Queensland comply with the intent of the scheme under which they operate. The code requires an appropriately qualified and accredited approved vehicle examiner (AVE) to evaluate both the capacity and distribution of the load owing to fuels, water and livestock when subjected to specified loading conditions.

This document is to be read in conjunction with the current version of the relevant Heavy Vehicle National Law (HVNL), Class 3 Loading Exemption Notice as published in the Queensland Gazette. Refer to the <u>Heavy Vehicle National Law - Queensland Class 3 Livestock Loading Exemption Notice</u> and associated <u>Operators Guide</u> (the Scheme).

Modifications covered under this code:

#### Covered

- Rating of prime movers or converter dolly trailers intended to be used for the transportation of livestock in Queensland, using the Scheme.
- Rating of rigid trucks, trailers or semitrailers fitted with single or multiple deck stock crates intended to be used for the transportation of livestock in Queensland, using the Scheme.

#### Not covered

- Rating of vehicles not used for the transportation of livestock.
- Rating of rigid trucks, trailers or semitrailers, not fitted with a single or multiple deck stock crate.

#### 2. Related standards

Modified vehicles must comply with all relevant Australian Design Rules (ADRs), Australian Standards, acts and regulations. Below are some, but not all of the areas that may be affected by the modifications in this code and require certification, testing or evidence to demonstrate compliance.

The certifier must ensure that the vehicle continues to comply with all related ADRs.

ADR no.	Title
13/	Installation of Lighting
24, 24A, 24/	Tyre & Rim Selection
28/, 83/	External Noise of Motor Vehicles
30, 30/	Smoke Emission Control for Diesel Vehicles
35, 35A, 35/	Commercial Vehicle Brake Systems
38, 38/	Trailer Braking Systems
36,36A, 36/, 70/, 80/	Emission Control for Heavy Vehicles
42/	General Safety Requirements
44/	Specific Purpose Vehicle Requirements
62/	Mechanical Connections between Vehicles
63/	Trailers Designed for Use in Road Trains
64/	Heavy Goods Vehicles Designed for Use in Road Trains & B-doubles
65/	Maximum Road Speed Limiting for Heavy Goods Vehicles and Heavy Omnibuses

#### 3. Certification procedure

The compliance procedure for this modification code is as follows:

Owner Determine if the vehicle's basic design, i.e. axle /supplier configuration, deck configurations, etc. meets the general requirements of the Scheme. • If yes, proceed to step 3. • If no, proceed to step 2. The vehicle is not eligible to operate under the Owner /supplier Scheme. Owner Contact an accredited S10 AVE and supply the /supplier vehicle specifications or organise the vehicle to be inspected by the AVE. S10 AVE Perform a detailed inspection of the vehicle against all applicable requirements of this modification code. Complete the applicable S10 checklist and determine if compliance has been achieved. • If yes, proceed to step 5. • If **no**, do not proceed, advise owner/supplier of the non-compliance and if rework is required to ensure compliance. Return to step 3. S10 AVE Issue modification certificate, affix S10 livestock

AVEs must be satisfied that the vehicle modification requirements are being met. It is advised that before modifications are carried out they be discussed with the certifying AVE.

registration scheme.

loading modification plate and submit

paperwork as required by the relevant AVE

#### Advanced braking systems

Advanced braking systems are an important safety feature fitted to many new vehicles.

Advanced braking systems are programmed by the vehicle manufacturer and are specific to the vehicle to which they are fitted. Changes made to the vehicle, such as engine, tyre size, steering control, suspension characteristics, vehicle mass and its distribution, may impact the performance of the advanced braking system.

Exercise extra caution when modifying vehicles fitted with advanced braking systems. Electric braking systems may be known as:

- electronic stability control (ESC)
- electronic stability program (ESP)
- vehicle stability control (VSC)
- dynamic stability control (DSC)
- vehicle stability assist (VSA)
- roll stability control (RSC)
- roll control system (RCS)
- electronic braking system (EBS)
- trailer electronic braking system (TEBS).

Advanced braking systems and their components may be easily damaged by common modification, maintenance and servicing techniques, such as the use of rattle guns within one metre of the sensors. When undertaking any work on a vehicle fitted with an advanced braking system, ensure all modifiers are familiar with these systems and the precautions that must be taken.

Ensure that before undertaking any modification on a vehicle that is fitted with an advanced braking system, the modifier and approved vehicle examiner (AVE) consult with the vehicle manufacturer to determine the impact on the system.

#### 4. Compliance requirements

When certifying a vehicle under this modification code, the load imposed on all components must remain within manufacturer's rated capacities. This includes the GVM/ATM and GCM ratings approved by the vehicle manufacturer. Where a vehicle's rating has been modified and certified in accordance with VSB6, apply the revised ratings.

#### Required:

- Check suspension, axle, drive train, chassis, brakes, steering, wheel (rim and tyre) capacities are not exceeded.
- Ensure all relevant checklists, along with the applicable declarations, have been completed and are retained for at least seven years after the certification of the vehicle.
- Retain records of analysis, work records, test results, evidence, sketches, vehicle data and calculation sheets for at least seven years after the certification of the vehicle.
- Ensure vehicles comply with additional conditions detailed in the Scheme.

#### Livestock loading \$10 modification plate

Once certified, all vehicles must be affixed with an approved S10 modification plate.

#### Required:

- Ensure the modification plate includes the following details:
  - Date (at least month/year)
  - Accreditation (AVE/approved person) number
  - Certificate number
  - Vehicle identification number (VIN)
  - Vehicle S10 Laden Mass=
  - Front Axle Group/Kingpin S10 Laden Mass=
  - Rear Axle Group S10 Laden Mass<sup>=</sup>
  - Unladen Mass<sup>=</sup>.
  - = Refer to definitions in the Glossary.

#### Vehicle manufacturer's rating plate

For a vehicle to be eligible for certification under this modification code, a manufacturer's rating plate (or label) must be fitted by the original vehicle manufacturer. Alternatively, if the vehicle has been modified in accordance with VSB6, revised ratings as shown on the VSB6 Modification Plate may be used in addition to the vehicle manufacturer's ratings.

#### Required:

- For motor vehicles, the manufacturer's rating plate must include the following information:
  - Date (at least month/year)
  - Vehicle manufacturer's company name
  - Vehicle identification number (VIN)
  - Vehicle model
  - Gross vehicle mass (GVM) rating
  - Gross combination mass (GCM) rating
  - Maximum steer axle/axle group rating
  - Maximum rear axle group rating

- Tyre size steer axle(s) (size and total load rating)
- Tyre size rear axles (size and total load rating).

→ The fifth wheel/turntable rating must also be permanently marked on the fifth wheel/turntable and/or, the truck, in a prominent location.

- For trailers, the manufacturer's rating plate must include the following information:
  - Date (at least month/year)
  - Vehicle manufacturer's company name
  - Vehicle identification number (VIN)
  - Vehicle model
  - Aggregate trailer mass (ATM) rating
  - Gross trailer mass (GTM) rating.
- Trailers must be fitted with a supplemental plate that includes the following information:
  - Maximum front axle/axle group rating (if applicable)
  - Maximum rear axle group rating
  - Tyre size front axle(s) (size and total load rating) if applicable
  - Tyre size rear axles (size and total load rating).

▶ If using a supplemental label, the information is to be embossed, indented, etched or engraved on a durable label which is welded, riveted or otherwise permanently attached in a readily visible position. Lettering must not be less than 2.5mm in height. The supplemental label may contain additional information.

#### 5. Design requirements

#### **Dimension requirements**

#### Required:

- Ensure that stock crate heights and loaded deck lengths do not exceed the conditional dimension requirements listed in the Scheme.
- Ensure vehicles continue to comply with all other regulatory dimension limits.

#### **Deck number limits**

#### Required:

- Ensure the number of decks used to transport livestock does not exceed:
  - 2 for cattle
  - 3 for pigs
  - 4 for sheep.

#### Tow coupling requirements

#### Required:

- Ensure that D value ratings meet the minimum requirements detailed in the Scheme.
- Ensure any modifications performed to tow couplings are performed in accordance with Section P of VSB6.

#### Tyre and rims

#### Required:

- Ensure manufacturer's load carrying capacity of all tyres and rims is not exceeded.
- Where a vehicle is required by an ADR to be fitted with a 'tyre placard', ensure that tyre and rims continue to conform to the specifications detailed on the tyre placard.

- Where an S10 imposed loading exceeds 6.5t on a vehicle fitted with a single front steer axle or 11t for a twin steer, ensure the tyre section width:
  - is in accordance with the vehicle manufacturer's specification, or an approved axle configuration and
  - complies with the requirements of the Scheme.
- Ensure, where non-standard wheels are fitted, the modification is performed and certified in accordance with the applicable sections of VSB6:
  - Modification code E3 Fitting of non-standard front wheel components
  - Modification code D3 Fitting of non-standard rear wheel components.

#### **S10** Conditional mass requirements

Vehicles certified under this code must provide documentation that demonstrates the weight distribution in both laden and unladen states.

#### Required:

Follow the steps detailed in the relevant S10 vehicle Checklist. As an overview, those steps include the following:

- Weigh unoccupied vehicle at a registered public weighbridge.
- Record the mass on the steer and rear axle group(s) giving consideration to:
  - equipment fitted to vehicle when used in normal operation (e.g. toolboxes, fridges etc.)
  - fluid reservoirs filled to capacity (less ullage where appropriate).
- Ensure the total mass and weight distribution is calculated and documented, in the both the Unladen mass state and in the laden state with the Imposed livestock load applied. As an interim step, it may be necessary to complete weight distribution calculations for Unladen dry mass and for Additional equipment not fitted at the time of weighing the vehicle
- Ensure that, when combined, the unladen mass and imposed load (Vehicle S10 laden mass) does not exceed manufacturer's ratings.
- Ensure the Vehicle S10 laden mass does not exceed the conditional mass limits listed in the Scheme.

#### Unladen mass

Unladen mass is the mass of the vehicle in running order where the vehicle is unoccupied and has:

- all fluid reservoirs filled to capacity
- all standard equipment fitted
- additional equipment used in normal operation fitted.

#### Recommended:

 Weigh unoccupied vehicle in its operational state (i.e. with all equipment installed all fluid reservoirs filled to operating capacity).

Where the vehicle is weighed with fluid reservoirs partially full, note the fluid levels on board at the time the vehicle was weighed. Deduct the mass of these fluids to calculate the Unladen dry mass of the vehicle. The Unladen (wet) mass is then calculated by adding the mass of fluids using the method detailed under *Mass of fluids*.

**Dry mass** = weighbridge mass less the mass of fluids when weighed **Mass of fluids** = volume of each tank multiplied by nominal fluid density value

Unladen (wet) mass = Dry mass + Mass of fluids

#### Mass of fluids

It may not be reasonable, or practical, for the vehicle to be weighed with all fluid reservoirs filled.

#### Required:

- Calculate the mass of fuel/AdBlue/water in each tank by multiplying the nominal volume of each tank by:
  - 0.84kg/l for diesel
  - 1.1kg/l for AdBlue
  - 1.0kg/l for water.
- For diesel and AdBlue tanks, apply an ullage factor of 5% (multiply the nominal volume of each tank by 0.95). Where the 'Actual' or 'Rated' volumes of the diesel and/or AdBlue tanks are available, an ullage factor is not to be applied.
- Effluent tanks (if fitted) are assumed to be empty when livestock are first loaded onto the vehicle, hence no fluid mass is added for effluent for any of the S10 mass calculations.

#### Imposed load

Calculating the mass of livestock load imposed on the vehicle using the following method:

#### Required:

- For prime movers and converter dolly trailers apply 15,000kg vertically through the centre of the fifth wheel coupling to simulate loading from a laden semitrailer.
- To calculate the simulated maximum load limit for rigid trucks and trailers:
  - calculate the Total Deck Space (TDS) available for the carriage of livestock in square metres
  - identify the livestock to be carried and apply the simulated livestock weight (SLW) listed in table 1.
  - where the vehicle is fitted with multiple decks, ensure calculations include the TDS of all decks.
- Measure the average length, and width of each livestock section. In cases where the compartment is a non-regular shape, it may be easier to divide the compartment into smaller sections of regular shape (rectangular or square).
- Calculate the additional mass on the front and rear axle group(s) due to the imposed (S10) loading using the below method, for each stock deck.

#### Single deck

Imposed load  $(kg) = SLW \times TDS$ 

Table 1: Simulated livestock weights

Livestock	Simulated Livestock Weight (SLW)
Cattle	420kg/m <sup>2</sup>
Pig	280kg/m²
Sheep	210kg/m²

№ Refer to the <u>Queensland Class 3 Livestock Loading Exemption</u>
Notice and associated <u>Operators Guide</u> for more information on conditional mass requirements, including maximum axle mass limits.

#### Weight distribution calculations

Calculation of weight distribution for a vehicle requires determination of the Centre of Mass (CoM) for the various elements (i.e. fluid tanks/stock compartments) involved. These measurements are normally available from the vehicle and equipment manufacturer data sheets, or the body builder who completed work on the vehicle. Use an outline diagram, to approximate scale, to simplify the process and provide a useful aid to check body length and other critical dimensions.

#### Required:

- Complete the weight distribution calculations detailed in the relevant S10 vehicle Checklist.
- A copy of all weight distribution calculations must be attached to the Checklist document/s.

#### **Recommended:**

- A suitable weight distribution program/software is used to perform all weight distribution calculations.
- Alternatively, if a suitable weight distribution program/software is not available, the following formulas can be used to calculate the distribution of mass imposed on axle groups.

A separate calculation using each of these formulas will be required for each reservoir, compartment, accessory, equipment, etc, on the vehicle.

Forward Axle Mass

$$FAM = \left(\frac{D}{WB}\right) x M$$

Rearward Axle Mass

$$RAM = \left(\frac{WB - D}{WB}\right) x M$$

¥ Note:

**M** = known, or calculated mass of the, reservoir, compartment, accessory, equipment, etc

**WB** = distance between front most axle and centre of rear axle group (wheelbase)

**D** = Distance from centre of mass of the, reservoir, compartment, accessory, equipment, etc to centre of rear axle group

# S10 Checklist—Concessional livestock loading – Vehicle rating

# **S10 Checklist - Rigid Truck (example)**

Name:		Com	pany/business:							
Address:							Pos	st code:		
ehicle and modifier d	letails									
Vehicle make:		Vehicle mo	del:		Month and	yea	r of manu	ufacture:		
VIN (if applicable):		Vehicle cha	ssis no. (if applica	able):	Engine no:					
issued by (Approved Vehic	in Europines (A	MEN.	Company (if app	Menhlot				AVE no.:		_
ssaed by (Approved Venic	se examiner (s	vejj:	company (ii app	mcause):				AVE NO.:		
Signed:			Telephone:					Date:		
ehicle design						7				_
Vehicle dimensions										
Overall vehicle length:		Wheelbase:			Rear overhau	ng:				
- 1 - 1 - 1 - 1 - 1	mm				mm					n
Vehicle rating (information Gross Vehicle Mass (GVM)		ed on the tru			s or VSB6 approva s (GCM) rating:	ıl)				
store Astricts (Mazz (GAIM)	raung:		kg	nomation was	s (GCM) rating:					
Component specifications (	the following	information s		n the truck ma	nufacturer's spec	ifica	itions or 1	VSB6 app	roval	)
Component	Make:		Model:		Load rating (with	s 1	0 specifie	d tyres):		
teering box and linkage(s)										
iuspension – Steer axle(s)										
Suspension – Rear axle zroup										
Axles	Make:		Model:		Load rating (with \$10 specified tyr			Load sha	aring	
Front axle group						kg		Y 🗆 N i	□ N/	Α
Rear axle group						kg				
Tyres	Size designa	tion:	Load index:	Capacity per			tal axle gr	roup tyre	capa	cit
Front axle group					kg					
Rear axle group Coupling	Make:		Model:		kg			D-value:		
ifth wheel/turntable	Make:		Model:					D-value:		
ssessment										
Assessment		Check Ye	s, No as applicab	le: (If No, do n	ot proceed with t	he r	ating)		Yes	D
Are all drive axles fitted	d with dual tyre	15?								-
Is the vehicle's steering	configuration	either single s	teer or twin-stee	r with load sha	ring suspension?					0
Is the vehicle designed										
one single deck stock	-			figurations; or						1
one or more deck sto		ll other vehicl	e configurations?							I
Is the vehicle fitted with										
a single drive axle for		-								-
at least tandem drive			·							
is the overall length of										
is the overall width of t	he vehicle with	nin the Austral	ian Design Rule d	efinition for m	aximum vehicle w	idth	7			
Vehicle chassis no./VIN:		Date:			Signed:					

7 Is the overall height of the vehicle less than or equal to:  • 4.3m for single deck crate; or  • 4.5m for multiple deck crates?  3 Is the rating of any fitted couplings greater than or equal to:  • For Type 2 road train haufing units 172kN  • For other units 162kN?  Advanced braking systems  Check Yes, No, N/A as applicable: (If No, do not proceed with the rating) Yes No 1 is the advanced braking system (where fitted) un-affected or re-certified after the vehicle modification?  Compliance  Modification  Check Yes, No as applicable: (If No, do not proceed with the rating) Yes No 1 is the quality of the work to an accepted industry standard?  2 Does the modified vehicle continue to comply with all affected ADRs?  Part B - Unladen mass  Weigh vehicle  • Weigh vehicle at a registered public weighthridge and record quantities of fuel, AdBlue and water at the time of weighing.  • Ensure vehicle is weighed without driver.  • Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front asle group mass (F1):  Rear axle group mass (F1):  Weighbridge ticketed mass (F1 + R1):  Fuel:  AdBlue:  Weter:	No as applicable: (If No, do not proceed with the rating		Yes	N
4.5m for multiple deck crate; or 4.6m for multiple deck crates?  1 the rating of any fitted couplings greater than or equal to: For Type 2 road train haufing units 172kN For other units 162kN?  1 for other units 162kN?  Advanced braking systems  Braking systems Check Yes, No, N/A as applicable: (if No, do not proceed with the rating) Yes No 1 is the advanced braking system (where fitted) un-affected or re-certified after the vehicle modification?  Compliance  Modification Check Yes, No as applicable: (if No, do not proceed with the rating) Yes No 1 is the quality of the work to an accepted industry standard? Does the modified vehicle continue to comply with all affected ADRs?  Part B - Unladen mass  Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing. Ensure vehicle is weighted without driver.  Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front asle group mass (F1):  Weighbridge ticketed mass (F1 = R1):  Fuel:  AdBlue:  Water:  List all standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/tyer toolbodys). The stock crate/body, gates, effluent tanks, etc. and ORSS equipment must be included.  Attach all photos in the space provided at the end of Part B.				
Advanced braking systems For Type 2 road train haufing units 122kN For other units 162kN?  Check Yes, No, N/A as applicable: (If No, do not proceed with the rating) Yes No 1s the advanced braking systems Check Yes, No, N/A as applicable: (If No, do not proceed with the rating) Yes No 1s the advanced braking system (where fitted) un-affected or re-certified after the vehicle modification?  Compliance  Modification Check Yes, No as applicable: (If No, do not proceed with the rating) Yes No 1s the quality of the work to an accepted industry standard?  Does the modified vehicle continue to comply with all affected ADRs?  Part B - Unladen mass  Weigh vehicle Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing. Ensure vehicle is weighed without driver.  Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front asle group mass (R1):  Weigh vehicle  Water:  Standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g., bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbooks). The stock crate/body, gates, effluent tanks, etc. and OH&S equipment must be included.  Attach all photos in the space provided at the end of Part B.				
Is the rating of any fitted couplings greater than or equal to:  For Type 2 road train haufing units 172kN  For other units 162kN?  Advanced braking systems  Braking systems  Check Yes, No, N/A as applicable: (if No, do not proceed with the rating) Yes No 1 is the advanced braking system (where fitted) un-affected or re-certified after the vehicle modification?  Check Yes, No as applicable: (if No, do not proceed with the rating) Yes No 1 is the quality of the work to an accepted industry standard?  Check Yes, No as applicable: (if No, do not proceed with the rating) Yes No 1 is the quality of the work to an accepted industry standard?  Does the modified vehicle continue to comply with all affected ADRs?  Part B - Unladen mass  Weigh vehicle  Weigh vehicle at a registered public weighthridge and record quantities of fuel, AdBlue and water at the time of weighing.  Finute vehicle is weighted without driver.  Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front asle group mass (F1):  Rear axle group mass (F1):  Rear axle group mass (F1):  Weigh vehicle  List all standard equipment  List all standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbodys). The stock crate/body, gates, effluent tanks, etc. and OH&S equipment must be included.  Attach all photos in the space provided at the end of Part B.			п	
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Bruking systems Check Yes, No, N/A as applicable: (If No, do not proceed with the rating) Yes No  1 Is the advanced braking system (where fitted) un-affected or re-certified after the vehicle modification?  Compliance  Modification Check Yes, No as applicable: (If No, do not proceed with the rating) Yes No  1 is the quality of the work to an accepted industry standard?  2 Does the modified vehicle continue to comply with all affected ADRs?  Part B - Unladen mass  Weigh vehicle  • Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing.  • Ensure vehicle is weighed without driver.  • Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front asle group mass (F1):  Rear axle group mass (F1):  Weighbridge ticketed mass (F1 + R1):  Fuel:  AdBlue:  Water:  • List all standard equipment  • List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/type toolbodys). The stock crate/body, gates, effluent tanks, esc. and ORSS equipment must be included.  • It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment in the space provided at the end of Part B.				-
1 Is the advanced braking system (where fitted) un-affected or re-certified after the vehicle modification?  Check Yes, No as applicable: (if No, do not proceed with the rating)  Is the quality of the work to an accepted industry standard?  Does the modified vehicle continue to comply with all affected ADRs?  Part B - Unladen mass  Weigh vehicle  Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing.  Ensure vehicle is weighted without driver.  Attach a copy of the weightridge ticket in the space provided at the end of Part B.  Front asle group mass (F1):  Bear axle group mass (F1):  Weighbridge ticketed mass (F1 = R1):  Fuel:  AdBlue:  Waters  List all standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g., bulbar, sleeper, cab air conditioning, spare wheel/tyee toolbod(s). The stock crate/body, gates, effluent tanks, etc. and OHSAS equipment must be included.  List all standard equipment at the space provided at the end of Part B.	No. N/A as annitrable: (If No. do not proceed with the	tingt You	No	N
Modification Check Yes, No as applicable: (If No, do not proceed with the rating)  1 is the quality of the work to an accepted industry standard?  2 Does the modified vehicle continue to comply with all affected ADRs?  Part B - Unladen mass  Weigh vehicle  • Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing.  • Ensure vehicle is weighed without driver.  • Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front asle group mass (F1):  Rear axle group mass (F1):  Weighbridge ticketed mass (F1 = R1):  Fuel:  AdBlue:  • List all standard equipment  • List all standard equipment fitted to the truck at the time of weighing (e.g., bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbooks). The stock crate/body, gates, effluent tanks, etc., and OHSS equipment must be included.  • It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.				-
Modification Check Yes, No as applicable: (If No, do not proceed with the rating) It is the quality of the work to an accepted industry standard? Does the modified webicle continue to comply with all affected ADRs? Weigh vehicle Weigh vehicle at a registered public weighthridge and record quantities of fuel, AdBlue and water at the time of weighing. Ensure vehicle is weighed without driver. Attach a copy of the weighbridge ticket in the space provided at the end of Part B. Front axle group mass (F1): Rear axle group mass (F1): Weighbridge ticketed mass (F1 + R1): Fuel: AdBlue: Water: Standard equipment List all standard equipment fitted to the truck at the time of weighing (e.g., bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbooks). The stock crate/body, gates, effluent tanks, etc. and OHSS equipment must be included. It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment. Attach all photos in the space provided at the end of Part B.				
1 is the quality of the work to an accepted industry standard? 2 Does the modified vehicle continue to comply with all affected ADRs? 3 Does the modified vehicle continue to comply with all affected ADRs? 4 Uniladen mass  Weigh vehicle 5 Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing. 5 Ensure vehicle is weighed without driver.  • Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front asle group mass (F1):  Rear asle group mass (F1):  Rear asle group mass (R1):  Weighbridge ticketed mass (F1 + R1):  Fuel:  AdBlue:  Water:  • List all standard equipment  • List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/tyre toolboe(s). The stock crate/body, gates, effluent tanks, etc. and ORSS equipment must be included.  • It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment.  • Attach all photos in the space provided at the end of Part B.	Yes. No as applicable: (If No. do not proceed with the	ingt Yes	No	
2 Does the modified vehicle continue to comply with all affected ADRs?  Part B - Unladen mass  Weigh vehicle  • Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing.  • Ensure vehicle is weighted without driver.  • Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front axle group mass (F1):  Rear axle group mass (R1):  Weighbridge ticketed mass (F1 + R1):  Fuel:  AdBlue:  Water:  • List all standard equipment  • List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbodys). The stock crate/body, gates, effluent tanks, etc. and ORSS equipment must be included.  • It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.				
Part B - Unladen mass  Weigh vehicle  • Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing.  • Ensure vehicle is weighted without driver.  • Attach a copy of the weightridge ticket in the space provided at the end of Part B.  Front asie group mass (F1):  Bear axie group mass (F1):  Weighbridge ticketed mass (F1 = R1):  Fuel:  AdBlue:  Water:  • List all standard equipment  • List all standard equipment fitted to the truck at the time of weighing (e.g., bulbar, sleeper, cab air conditioning, spare wheel/tyen toolbodys). The stock crate/body, gates, effluent tanks, etc. and OHSS equipment must be included.  • It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.				
Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing. Ensure vehicle is weighed without driver. Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front asle group mass (F1):  Rear asle group mass (F1):  Weighbridge ticketed mass (F1 = R1):  Fuel:  AdBlue:  Water:  Standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbooks). The stock crate/body, gates, effluent tranks, etc. and OHSS equipment must be included.  It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.  Attach all photos in the space provided at the end of Part B.				
Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing. Ensure vehicle is weighed without driver. Attach a copy of the weighbridge ticket in the space provided at the end of Part B. Frent asle group mass (F1):  Rear asle group mass (F1):  Weighbridge ticketed mass (F1 + R1):  Fuel:  AdBlue:  Water:  Standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g., bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbooks). The stock crate/body, gates, effluent tanks, etc., and OHSAS equipment must be included.  Attach all photos in the space provided at the end of Part B.				
Ensure vehicle is weighed without driver.  Attach a copy of the weighbridge ticket in the space provided at the end of Part B.  Front asle group mass (F1):  Weighbridge ticketed mass (F1 = R1):  Fuel:  AdBlue:  Water:  Standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g., bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbooks). The stock crate/body, gates, effluent tranks, etc. and OHSS equipment must be included.  It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.  Attach all photos in the space provided at the end of Part B.	cord quantities of fuel. Addine and water at the time of s	ighing.		
Front asle group mass (F1):  Rear axle group mass (R1):  Weighbridge ticketed mass (F1 + R1):  Fuel:  AdBitue:  Standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbox(s). The stock crate/body, gates, effluent tranks, etc. and OH&S equipment must be included.  It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equip fitted.  Attach all photos in the space provided at the end of Part B.				
Rear axle group mass (R1):  Weighbridge ticketed mass (F1 + R1):  Fuel:  AdBlue:  Water:  Standard equipment  • List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/tyre toolbox(s). The stock crate/body, gates, effluent tranks, etc. and OHSAS equipment must be included.  • It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.  • Attach all photos in the space provided at the end of Part B.	vided at the end of Part B.			
Rear exise group mass (R1):  Weighbridge ticketed mass (F1 + R1):  Fuel:  AdBlue:  Standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/tyre toolboe(s). The stock crate/body, gates, effluent tranks, etc. and OHSAS equipment must be included.  It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.  Attach all photos in the space provided at the end of Part B.				
Weighbridge ticketed mass (F1 = R1): Fuel:  AdBlue:  Water:  Standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g. bullbar, sleeper, cab air conditioning, spare wheel/tyre toolboe(s). The stock crate/body, gates, effluent tranks, etc. and OHSAS equipment must be included.  It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment must be included.  Attach all photos in the space provided at the end of Part B.				
AdBlue:  Water:  Standard equipment  • List all standard equipment fitted to the truck at the time of weighing (e.g., bulbar, sleeper, cab air conditioning, spare wheel/tyre toolboe s). The stock crate/body, gates, effluent tanks, etc. and DH&S equipment must be included.  • It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment and photos in the space provided at the end of Part B.				
Water:  Standard equipment  List all standard equipment fitsed to the truck at the time of weighing (e.g., bulbar, sleeper, cab air conditioning, spare wheel/tyre toolboe/s). The stock crate/body, gates, effluent tanks, etc. and OH&S equipment must be included.  It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.  Attach all photos in the space provided at the end of Part B.				
Standard equipment  List all standard equipment fitted to the truck at the time of weighing (e.g. bullbar, sleeper, cab air conditioning, spare wheel/tyre toolboe(s). The stock crate/body, gates, effluent tanks, etc. and OHSS equipment must be included.  It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment must be included.  Attach all photos in the space provided at the end of Part B.				
<ul> <li>List all standard equipment fitted to the truck at the time of weighing (e.g. bulbar, sleeper, cab air conditioning, spare wheel/tyre toolboe(s). The stock crate/body, gates, effluent tranks, etc. and OHSS equipment must be included.</li> <li>It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment.</li> <li>Attach all photos in the space provided at the end of Part B.</li> </ul>				
toolbox[s]. The stock crate/body, gates, effluent tanks, etc. and DH&S equipment must be included.  It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment.  Attach all photos in the space provided at the end of Part B.				
Standard equipment list at time of weighing:				
	nc. and OH&S equipment must be included.  of the vehicle at the time of weighing that capture all the			
	nc. and OH&S equipment must be included.  of the vehicle at the time of weighing that capture all the			
	nc. and OH&S equipment must be included.  of the vehicle at the time of weighing that capture all the			
	nc. and OH&S equipment must be included.  of the vehicle at the time of weighing that capture all the			
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	nc. and OH&S equipment must be included.  of the vehicle at the time of weighing that capture all the			
	nc. and OH&S equipment must be included.  of the vehicle at the time of weighing that capture all the			
	nc. and OH&S equipment must be included.  of the vehicle at the time of weighing that capture all the			
	nc. and OH&S equipment must be included.  of the vehicle at the time of weighing that capture all the			

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code SSD: Concessional Uvestock Loading - Vehicle Rating - Venion 2.1

#### S10 Checklist—Concessional livestock loading – Vehicle rating (rigid truck)

#### Additional equipment

#### Plan of additional equipment (including fluid tanks)

- Draw a plan of the chassis layout showing the position of all the additional equipment that has been, or is planned to be, fitted to the
  truck after the time of weighing, thems could include, but are not limited to: bullbar, fluid tanks, sleeper cab air conditioning, spare
  wheel/tyre[s], toolbox[s], refrigerator[s] etc.
- Add to the plan drawing the position of all fuel, Adblue and water tanks.
- Attach all photos in the space provided at the end of Part B.

Chassis layout of additional equipment (including fluid tanks):

#### Calculated dry mass with standard and additional equipment

- Subtract any mass imposed on the front and rear axle group(s) due to fuel, AdBlue and water.
- Add the mass on the front and rear axle group(s) due to any additional equipment fitted after the time of weighing.
- A copy of weight distribution calculations must be attached to the end of Part B.

Front asle group dry mass (F2): kg
Rear axle group dry mass (R2): kg
Vehicle dry mass with standard equipment and additional equipment (F2+R2): kg

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code SSD: Concessional Divestock Loading - Vehicle Rating - Venion 2.1

#### \$10 Checklist—Concessional livestock loading – Vehicle rating (rigid truck)

#### Unladen mass (wet mass)

Calculate the unladen or wet mass (with full fuel/AdBlue/water tanks added to dry mass of the steer and rear axie groups(s))

- Calculate the mass of fuel/AdBlue/water in each tank (taking into account uliage factor) by multiplying the nominal volume of each tank by the density of its fluid.
- · A copy of weight distribution calculations must be attached to the end of Part B.

Front axle group unladen (wet) mass (F3):	k
Rear axle group unladen (wet) mass (R3):	k
Vehicle's unladen (wet) mass with filled fluid reservoirs (less ullage), standard	k
equipment and additional equipment (F3+R3):	

#### Additional Information

notes of venice and standard equipment a	s time of weigning:	
Weighbridge certificate:		
Vehicle chassis no./VIN:	Date:	Signed:

Modification Code SSD: Concessional Livestock Loading - Vehicle Rating - Venion 2.1.

# S10 Checklist—Concessional livestock loading – Vehicle rating (rigid truck) Dry mass weight distribution calculations. From mass imposed on the front and rear axle group(s) due to additional equipment (that has been, or is to be added after the time of weighing). Also subtract the weight of fuel, AdBlue and water at the time of weighing: Unladed mass (wet mass) weight distribution calculations. From mass imposed on the front and rear axle group(s) due to full fuel, AdBlue and water tanks: Vehicle chassis no./VIN: Date: Signed:

Modification Code S3D: Concessional Livestock Loading - Vehicle Rating - Version 2.1

#### S10 Checklist—Concessional livestock loading – Vehicle rating (rigid truck)

#### Part C - Imposed livestock load (rigid truck)

#### Calculated additional front and rear axle group(s) mass due to the imposed livestock load Stock body/crate plan

- Draw a plan of the stock body/crate deck areas on the vehicle that is available for the carriage of livestock including the vehicle axie
- One plan is required for each stock deck.
- Calculate the additional mass on the front and rear axle group(s) due to the imposed livestock load, include all stock decks.

Note: A copy of weight distribution calculations must be attached to this document.

Total livestock area, all decks:	m²
Additional mass on front axle group mass due to imposed livestock load, all decks (F4):	kg
Additional mass on rear axle group mass due to imposed livestock load, all decks (R4):	kg

#### Part D - S10 Gross combined mass (GCM) (rigid truck)

Calculated S10 GCM			
<ul> <li>Calculate the intended S10 GCM of the vehicle using the formula provided in the Appendix 1, Section (4), (c) of the Scheme.</li> </ul>			
S10 gross combination mass rating required:	kg		

#### Part E - Vehicle S10 laden mass (rigid truck)

510	Lad	len	mass	

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Calculate the total mass on the front and rear axle group(s) of the rigid truck by adding the unladen axle masses of the rigid truck (calculated above) and the imposed livestock load masses (calculated in Part C above). This will determine the vehicle laden mass. nt avie group \$10 laden mass (ES) such that (ER+E4:ES):

Front axie group 510 laden mass (F5) such that (F3+F4=F5):	ng
Rear axie group \$10 laden mass (RS) such that (R3+R4=R5):	kg
Vehicle S10 laden mass (R5 + F5):	kg
S10 Conditional mass requirement	
<ul> <li>Record the conditional mass requirements that apply to the vehicle as detailed</li> </ul>	ed in the Scheme Natice.
Maximum mass limit, front axle group:	kg
Maximum mass limit, laden mass:	kg

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code S3D: Concessional Livestock Loading - Vehicle Rating - Version 2.1

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#### S10 Checklist—Concessional livestock loading – Vehicle rating (rigid truck)

Modification Check	Yes, No as applicable: (If No, do not proceed with the rating)	Yes	No	
Are the maximum calculated S10 laden masses less than	or equal to the S10 Statutory livestock loading limits?			
Rigid truck manufacturer's ratings				
<ul> <li>Record information from the vehicle manufacturer's ratin</li> </ul>	g plate, affixed to the cabin by the manufacturer.			
<ul> <li>Where the vehicle has been assessed/modified/re-rated a modification plate.</li> </ul>	and approved in accordance with VSB6, use the information fro	m the	ž.	
Maximum front axle group rating:				kg
Front axle group tyre size:				
Front axle group tyre capacity:				kę
Maximum rear axle group rating:				kę
Rear axie group tyre size:				
Rear axie group tyre capacity:				kg
Gross Vehicle Mass (GVM) rating:				kę
Gross Combination Mass (GCM) rating:				kg
Modification Check Yes, No.	s applicable: (If No, to either do not proceed with the rating)	1	Yes N	0
Are the S10 laden masses (calculated above) less than or	equal to the vehicle's manufacturer's ratings?			1
Livestock loading \$10 plate				
<ul> <li>Duplicate the below information on the livestock loading</li> </ul>	510 plate (maroon in colour).			
<ul> <li>Affix the plate to the cabin of the truck.</li> </ul>				
<ul> <li>Ensure all other fields on the Livestock loading (\$10) Plate</li> </ul>	ARE blanked out with three (3), or more, 'X' (For example: 'XX)	(°)		
Date:				
Approved Vehicle Examiner/ Approved Person Accreditation	on Number:			
Certificate Number:				
Vehicle Identification Number (VIN) / Chassis Number:				
Vehicle laden S10 mass (from Part E):				kg
S10 Gross combination mass (from Part D):				kg
Front axle group \$10 laden mass (from Part E):				kg
Rear axle group S10 laden mass (from Part E):				kg
S10 front tyre size/load rating (from Part A):	/			kg
S10 rear tyre size/load rating (from Part A):	/			kg
Part F - Vehicle details and declarations				
AVE authorisation				
Declaration by certifier (AVE)				
I am the Approved Person who completed all the mass calc	ulations and declare that the information in this form is true a	and c	orrect.	Ī

ATT GOLINGTISCHOT						
Declaration by certifier (AVE)						
I am the Approved Person who completed all the mass calculations and declare that the information in this form is true and correct.						
Issued by:	Company (if applicable):	AVE no.:				
Signed:	Telephone:	Date:				

#### Owner/vehicle supplier authorisation

As the   owner /   supplier (select applica vehicle equipment detailed herein are reprethe AVE mentioned above to complete the S	sentative o	of the vehicle as it will enter into serv	vice and that I have enlist	
Name:		Company (if applicable):		
Address				
Signed:		Telephone:		Date:
Vehicle chassis no./VIN:	Date:		Signed:	

Modification Code S1D: Concessional Livestock Loading - Vehicle Rating - Version 2.1

# **S10 Checklist – Prime Mover (example)**

Name:		Com	pany/business:					
Address:						Pos	st code:	
Vehicle and modifier of	lataile							
Vehicle make:	ietalis	Vehicle mo	del:		Month and yea	ar of manu	ıfacture:	:
VIN (if applicable):		Vehicle cha	ssis no. (if applic	:able):	Engine no:			
Issued by (Approved Vehic	le Examiner (AV	/E)):	Company (if ap	plicable):			AVE no.	:
Signed:			Telephone:				Date:	
agneu.			rerephone.				Date.	
Vehicle design								7
Vehicle dimensions								
Overall vehicle length:		Wheelbase:			Rear overhang:			
	mm			mm				
Vehicle rating (information	should be base	d on the tru	ck manufacturer	's specifications or	VSB6 approval)			
Gross Vehicle Mass (GVM)	rating:			mbination Mass (G	CM) rating:			
C	Ash - f-IIi I-	. f 1 1	kg				sene	
Component specifications Component	the following in	itormation s	Model:		acturer's specific ad rating (with 5)			
Component Steering box and linkage(s)			Model:	LO	id rating (with 5.	tu specine	a tyresj:	
Suspension – Steer axle(s)								
Suspension – Rear axle								
group								
Axles	Make:		Model:		d rating (with specified tyres)	Number of axles:		naring
Front axle group					k	6	Y□N	□ N/
Rear axle group					k	6		
Tyres	Size designat	ion:	Load index:	Capacity per tyr	e: To	tal axle gr	oup tyre	capa
Front axle group					kg			
Rear axle group					kg			
Coupling	Make:		Model:				D-value	10
Fifth wheel/turntable								
Assessment								
Assessment				ble: (If No, do not p	roceed with the	rating)	Yes	Nα
1 is the vehicle fitted with		le drive grou	p?					
2 Are drive axles fitted with								
	onfiguration eitl				spension?			
3 is the vehicle's steering of 4 is the overall length of th								
4 is the overall length of th 5 is the overall width of th	e vehicle within	the Australia			m vehicle width?			_
4 is the overall length of th 5 is the overall width of th 6 is the overall height less	e vehicle within than or equal to	the Australia 4.3m?	n Design Rule de	finition for maximu	m vehicle width?			
4 is the overall length of th 5 is the overall width of th 6 is the overall height less 7 is the rating of any fitted	e vehicle within than or equal to fifth wheel or b	the Australia 4.3m? all race turnt	n Design Rule de able greater than	finition for maximu	m vehicle width?			
4 is the overall length of th 5 is the overall width of th 6 is the overall height less 7 is the rating of any fitted • For Type 2 roal	e vehicle within than or equal to fifth wheel or b d train hauling u	the Australia 4.3m? all race turnt nits 160i	n Design Rule de able greater than	finition for maximu	m vehicle width?			
4 is the overall length of th 5 is the overall width of th 6 is the overall height less 7 is the rating of any fitted • For Type 2 roal	e vehicle within than or equal to fifth wheel or b	the Australia 4.3m? all race turnt nits 160i	n Design Rule de able greater than	finition for maximu	m vehicle width?			

Modification Code S30: Concessional Livestock Loading - Vehicle Rating - Version 2.1

#### S10 Checklist—Concessional livestock loading – Vehicle rating (prime mover)

#### Advanced braking systems

Braking systems	Check Yes, No, N/A as applicable: (If No, do not proceed with the rating)	Yes	Nα	N/A
1 is the advanced braking system (where fitte	d) un-affected or re-certified after the vehicle modification?			

#### Compliance

Modification	Check Yes, No as applicable: (If No, do not proceed with the rating)	Yes	No
is the quality of the work to an accepted industry standard?			
Does the modified vehicle continue to comply with all affected ADRs?			

#### Part B - Unladen mass

We	righ	veh	icle

. Weigh vehicle at a registered public weighbridge and record quantities of fuel, AdBlue and water at the time of weighing.

- Ensure vehicle is weighed without driver.
- Attach a copy of the weighbridge ticket in the space provided at the end of Part B.

Front axie group mass (F1):	N <sub>i</sub>
Rear axle group mass (R1):	K
Weighbridge ticketed mass (F1 + R1):	K
Fuel:	
AdBlue:	
Water	

#### Standard equipment

 List all standard equipment fitted to the truck at the time of weighing (e.g. bullbar, sleeper, cab air conditioning, spare wheel/tyre(s), toolbox(s).

- 1			

Vehicle chassis no./VIN:	Date:	Signed:					

Modification Code S10: Concessional Livestock Loading - Vehicle Rating - Version 2.1

#### S10 Checklist—Concessional livestock loading – Vehicle rating (prime mover)

#### Additional equipment

#### Plan of additional equipment (including fluid tanks)

- Draw a plan of the chassis layout showing the position of all the additional equipment that has been, or is planned to be, fitted to the
  truck after the time of weighing, items could include, but are not limited to: builbar, fluid tanks, sleeper cab air conditioning, spare
  wheel/type(s), toolbox(s), refrigerator(s) etc.
- · Add to the plan drawing the position of all fuel, Adblue and water tanks.
- . Attach all photos in the space provided at the end of Part B.

Chassis layout of additional equipment (including fluid tanks):

#### Calculated dry mass with standard and additional equipment

- Subtract any mass imposed on the front and rear axle group(s) due to fuel, AdBlue and water.
- Add the mass on the front and rear axle group(s) due to any additional equipment fitted after the time of weighing.
- · A copy of weight distribution calculations must be attached to the end of Part B.

Front axle group dry mass (F2):	kg	
Rear axle group dry mass (R2):	kg	
Vehicle dry mass with standard equipment and additional equipment (F2+R2):	kg	

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code S10: Concessional Livestock Loading - Vehicle Rating - Version 2.1

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		e rating (prime mover)

#### Unladen mass (wet mass)

Calculate the unladen or wet mass (with full fuel/AdBlue/water tanks added to dry mass of the steer and rear axle groups(s))

- Calculate the mass of fuel/AdBlue/water in each tank (taking into account ullage factor) by multiplying the nominal volume of each tank by the density of its fluid.
- . A copy of weight distribution calculations must be attached to the end of Part B.

Front axle group unladen (wet) mass (F3):	kg
Rear axie group unladen (wet) mass (R3):	kg
Vehicle's unladen (wet) mass with filled fluid reservoirs (less ullage), standard	kg
equipment and additional equipment (F3+R3):	

#### Additional Information

Photos of vehicle and standard equipment at time of weighing:	
Weighbridge certificate:	

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code S10: Concessional Livestock Loading - Vehicle Rating - Version 2.1

S10 Checklist—Concessional livestock loading – Vehicle rating (prime mover)

seem, so is to be added after the lime	of weighing). Also subtract the weight of fuel, AdBlue and water at the time of weigh
aded mass (wet mass) weight distribut	tion calculations. From mass imposed on the front and rear axle group(s) due to full f
liue and water tanks:	son carculations. From mass imposed on the front and real axis group(s) due to full r
nicle chassis no./VIN:	Date: Signed:

Modification Code S10: Concessional Livestock Loading - Vehicle Rating - Version 2.1

#### S10 Checklist—Concessional livestock loading – Vehicle rating (prime mover)

#### Part C - Imposed load (prime mover)

Part C - Imposed Ioad (prime mover)				
Calculated additional front and rear axle gro	oup(s) mass due to the imposed load	through t	he prime mover's fifth wheel	
<ul> <li>An imposed load of 15,000kg is to be appli trailer coupled to the prime mover (Check)</li> </ul>				loaded
<ul> <li>Calculate the additional mass on the front prime mover.</li> </ul>	and rear axle group(s) due to the imp	osed load	through the fifth wheel/turntabl	e of the
Note: A copy of weight distribution calculat	ions must be attached to this docum	ent.		
Additional mass on front axle group mass d	ue to imposed load (F4):			kş
Additional mass on rear axle group mass du	e to imposed load (R4):			kş
Part D - S10 Gross combined mass (G	CM) (prime mover)			
· ·	cwi (prime mover)			
Calculated S10 GCM				
<ul> <li>Calculate the intended S10 GCM of the vel</li> </ul>	hicle using the formula provided in the	e Appendi	t 1, Section (4), (b) of the Scheme	ė.
\$10 gross combination mass rating required	l:			kį
art E - Vehicle S10 laden mass (prim	ie mover)			
S10 Laden mass				
<ul> <li>Calculate the total mass on the front an mover (calculated above) and the impo-</li> </ul>				
Front axle group \$10 laden mass (F5) such ti	hat (F3+F4=F5):			kş
Rear axle group \$10 laden mass (RS) such th	nat (R3+R4=R5):			kş
Vehicle \$10 laden mass (R5 + F5):				kş
S10 Conditional mass requirement				
<ul> <li>Record the conditional mass requirement</li> </ul>	nts that apply to the vehicle as detaile	d in the S	cheme Natice.	
Maximum mass limit, front axle group:				kį
Maximum mass limit, laden mass:				ką
Modification	Check Yes, No as applicable	: (If <u>No</u> , do	not proceed with the rating)	res No
Are the maximum calculated 510 laden m	nasses less than or equal to the 510 St	atutory liv	estock loading limits?	
Prime mover manufacturer's ratings				
<ul> <li>Record information from the vehicle manu</li> </ul>	facturer's rating plate, affixed to the	cabin by ti	ne manufacturer.	
<ul> <li>Where the vehicle has been assessed/mod modification plate.</li> </ul>	dified/re-rated and approved in accord	dance with	VSB6, use the information from	the
Maximum front axle group rating:				kş
Front axle group tyre size:				
Front axle group tyre capacity:				kş
Maximum rear axle group rating:				kį
Rear axle group tyre size:				
Rear axle group tyre capacity:				kş
Gross Vehicle Mass (GVM) rating:				kį
Gross Combination Mass (GCM) rating:				kş
Modification	Check Yes, No as applicable: (If No, to	either de	not proceed with the rating)	Yes No
Are the S10 laden masses (calculated abo	ive) less than or equal to the vehicle's	manufact	urer's ratings?	
Livestock loading S10 plate				
Duplicate the below information on the liv	estock loading S10 plate (maroon in o	olour).		
Affix the plate to the cabin of the truck.				
<ul> <li>Ensure all other fields on the Livestock loa</li> </ul>	ding (S10) Plate ARE blanked out with	three (3).	or more. 'X' (For example: 'XXX')	
Date:				
Approved Vehicle Examiner/ Approved Pers	ton Accreditation Number			
Certificate Number:	on Accreditation Humber.			
Vehicle Identification Number (VIN) / Chass	ic Number:			
Vehicle laden S10 mass (from Part E):	ar received :			kş
\$10 Gross combination mass (from Part D):				ing kg
Vehicle chassis no./VIN:	Date:		Signed:	

Modification Code S1D: Concessional Livestock Loading - Vehicle Rating - Version 2.1

#### S10 Checklist—Concessional livestock loading – Vehicle rating (prime mover)

Front axle group S10 laden mass (from Part E):		kg
Rear axle group S10 laden mass (from Part E):		kg
S10 front tyre size/load rating (from Part A):	/	kg
S10 rear tyre size/load rating (from Part A):	/	kg

#### Part F - Vehicle details and declarations

#### **AVE authorisation**

Declaration by certifier (AVE)			
I am the Approved Person who completed all the mass calculations and declare that the information in this form is true and correct.			
Issued by:	Company (if applicable):	AVE no.:	
Signed:	Telephone:	Date:	

#### Owner/vehicle supplier authorisation

As the $\square$ owner / $\square$ supplier (select applicable) of the vehicle described in this form, I declare that the vehicle specifications and vehicle equipment detailed herein are representative of the vehicle as it will enter into service and that I have enlisted the services of the AVE mentioned above to complete the \$10 approval of this vehicle in this build state/configuration.		
Name: Company (if applicable):		
Address		
Signed:	Telephone:	Date:

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code S30: Concessional Livestock Loading - Vehicle Rating - Version 2.1

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# **S10 Checklist – Converter Dolly (example)**

Component specifications   Component specifica	Name:		Company/	/busine	PSS:						
Vehicle make:  Vehicle model:  Wehicle chassis no. (if applicable):  Vehicle chassis no. (if applicable):  Signed:  Telephone:  Date:  Vehicle design  Vehicle dimensions  Overall vehicle length:  mm  Dawbar length:  Wehicle rating Aggregate Trailer Mass (ATM) rating:  Kej  Component specifications (the following information should be based on the truck manufacturer's specifications)  Asles:  Make:  Model:  Size designation:  Load index:  Size designation:  Load index:  Coppling:  Make:  Model:  Size designation:  Make:  Model:  Size designation:  Coppling:  Make:  Model:  Size designation:  Size designation:  Coppling:  Make:  Model:  Size designation:  Make:  Model:  Size designation:  Size designation:  Size designation:  Size designation:  Size designation:  Size designation:  Make:  Model:  Size designation:  Size de	Address:						P	ost co	de:		
Vehicle make:  Vehicle make:  Vehicle model:  Vehicle chassis no. (if applicable):  Issued by (Approved Vehicle Examiner (AVE)):  Company (if applicable):  Vehicle design  Vehicle design  Vehicle design  Vehicle design  Vehicle length:  mm  Drawbar length:  Coreall vehicle length:  mm  Vehicle rating  Aggregate Trailer Mass (ATM) rating:  Kej  Component specifications (the following information should be based on the truck manufacturer's specifications)  Axles:  Make:  Model:  Load rating (with \$10    Size designation:  Load indox:  Capacity per tyre:  Assessment  Assessment  Check Yes, No, N/A as applicable:  Ves:  I is the distance from the centre of the drawbar coupling to the front axle line less than or equal to 5.0m?  I is the distance from the centre of the drawbar coupling to the front axle line less than or equal to 5.0m?  I is the distance from the centre of the drawbar coupling to the front axle line less than or equal to 5.0m?  I is the distance from the centre of the drawbar coupling to the front axle line less than or equal to 5.0m?  I is the distance fitted with a trained make group?  At Are all axles third with dual tyres?  I is the applicable tow coupling rating equal to or greater than:  I if the wheel rating 190 kN?  I turnstable rating 190 kN?  I turnstable rating 190 kN?  I turnstable rating 390 kN?											
Vehicle chassis no. (if applicable):    Signed:   Telephone:   Date:	Vehicle and modif	ier details									
Issued by (Approved Vehicle Examiner (AVE)):    Company (if applicable):	Vehicle make:		Vehicle model:			Month and	year of mar	nufact	ure:		
Vehicle design  Vehicle dimensions  Overall vehicle length:	VIN (if applicable):			V	rehicle chassis no. (	f applicable):					
Vehicle design  Vehicle dimensions  Overall vehicle length:											
Vehicle design  Vehicle dimensions  Overall vehicle length:	Issued by (Approved )	/ehicle Examiner (AV	E)): Comp	pany (ii	f applicable):			AVE	no.:		
Vehicle design  Vehicle dimensions  Overall vehicle length:    Drawbar length:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-,,-					-			
Vehicle design  Vehicle dimensions  Overall vehicle length:    mm	Slaned:		Teler	hone:				Date	p+		
Vehicle dimensions  Overall vehicle length:  Drawbar langth:  Drawbar of axles:  Axles:  Make:  Model:  Drawbar of axles:  Axle group  Axle group  Drawbar load index:  Drawbar of axles:  Axle group  Axle group  Drawbar length:  Drawbar of axles:  Axles:  Drawbar of axles:  Axle group  Axle group  Make:  Model:  Drawbar of axles:  Drawbar of axles:  Drawbar of axles:  Axle group  Axle group  Make:  Model:  Drawbar length:  Drawbar of axles:  Number			12.00					-			
Vehicle dimensions  Overall vehicle length:  Drawbar length:  Wehicle rating Aggregate Trailer Mass (ATM) rating:  Component specifications (the following information should be based on the truck manufacturer's specifications)  Axies:  Make:  Model:  Component specifications (the following information should be based on the truck manufacturer's specifications)  Axies group  Axies:  Size designation:  Load index:  Capacity per tyre:  Total axie group tyre capacity axis group  Coupling:  Make:  Model:  Capacity per tyre:  Total axie group tyre capacity when the coupling to the front axie line less than or equal to 5.0m?  Is the distance from the centre of the drawbar coupling to the front axie line less than or equal to 5.0m?  Is the distance from the centre of the drawbar coupling to the front axie line less than or equal to 5.0m?  Is the applicable tow coupling rating equal to or greater than:  In this wheel rating 190 kN?  It turntable rating 190 kN?  It tow eye rating 210kN?  Check Yes, No, N/A as applicable:  Check Yes, No, N/A as	Vahirla dasian							Ψ.			
Orawbar length:    Coaded tray length:   Coa											
Drawbar length:    Component specifications (the following information should be based on the truck manufacturer's specifications)   Axile group		:			Front overhang:						
Vehicle rating Aggregate Trailler Mass (ATM) rating:    Kg     Component specifications (the following information should be based on the truck manufacturer's specifications:     Axles:   Make:   Model:   Load rating (with \$10   Number of axles:     Axle group				mm	-						mn
Agregate Trailer Mass (ATM) rating:    Agregate Trailer Mass (ATM) rating:   Agregate Trailer Mass (ATM) rating:   Agregate Trailer Mass (ATM) rating:   Agree Trailer Mass (ATM) rating:   Agr	Drawbar length:				Loaded tray length	:					
Aggregate Trailer Mass (ATM) rating:    Kg   Component specifications (the following information should be based on the truck manufacturer's specifications)   Axles:   Make:   Model:   Load rating (with \$10   specified tyres):   kg				mm							mn
Component specifications (the following information should be based on the truck manufacturer's specifications)  Asiles:											
Component specifications (the following information should be based on the truck manufacturer's specifications:  Axies:	Aggregate Trailer Mas	is (ATM) rating:			s Trailer Mass(GTM	rating:					
Axie group  Axie group  Tyres: Size designation: Load index: Capacity per tyre: Size designation: Load index: Coupling: Make: Model: Coupling: Make: Model: Coupling: Make: Model: Coupling: Make: Model:  D-value: Hifth wheel Coupling eye  Assessment  Check Yes, No, N/A as applicable: Size the overall width of the vehicle within the Australian Design Rule definition for maximum vehicle width [for example 2.5m]? Size the pull axies fitted with a tandem axie group?  Are all axies fitted with dual tyres? Size the applicable tow coupling rating equal to or greater than:  Infifth wheel rating 190 kN?  It turntable rating 190 kN?  It turntable rating 190 kN?  Total axie group tyre capacity and selection for maximum vehicle width [for example 2.5m]?  Advanced braking systems  Check Yes, No, N/A as applicable:  Check Ye											kį
Axle group   kg    Axle group   Capacity per tyre:   Total axle group tyre capacity when the capacity when the capacity when the capacity per tyre capacity when the capacity					ed on the truck ma	-	- 1				
Axle group  Tyres: Size designation: Load index: Capacity per tyre: Total axle group tyre capacitons axle group  Axle group  Make: Model: D-value:  Fifth wheel  Towing eye   Assessment  Assessment  Assessment  Check Yes, No, N/A as applicable: Yes No	Axies:	Make:	Midd	ser:			1510	iumbe	er or	axies	
Axle group	Axle group						kg				
Coupling: Make: Model: D-value:  Fifth wheel Towing eye  Assessment  Assessment  Check Yes, No, N/A as applicable: Yes No	Tyres:	Size designati	ion: Load	d index	: Capacity per	tyre:	Total axle	group	tyre	capa	city:
Assessment  Assessment  Assessment  Check Yes, No, N/A as applicable: Yes No	Axle group					kg					k
Assessment  Assessment  Check Yes, No, N/A as applicable: Yes No N  1 is the distance from the centre of the drawbar coupling to the front axie line less than or equal to 5.0m?      2 is the overall width of the vehicle within the Australian Design Rule definition for maximum vehicle width (for example 2.5m)?      3 is the trailer fitted with a tandem axie group?      4 Are all axies fitted with dual tyres?      5 is the applicable tow coupling rating equal to or greater than:  • fifth wheel rating 190 kN?      • turntable rating 190 kN?      • tow eye rating 210kN?      Advanced braking systems  Check Yes, No, N/A as applicable: Yes No N	Coupling:	Make:	Mod	iel:				D-v	alue		
Assessment  Assessment  Check Yes, No, N/A as applicable: Yes No											kt
Assessment Check Yes, No, N/A as applicable: Yes No 1  1 Is the distance from the centre of the drawbar coupling to the front axie line less than or equal to 5.0m?  2 Is the overall width of the vehicle within the Australian Design Rule definition for maximum vehicle width (for example 2.5m)?  3 Is the trailer fitted with a tandem axie group?  4 Are all axies fitted with dual tyres?  5 Is the applicable tow coupling rating equal to or greater than:  • fifth wheel rating 190 kN?  • turntable rating 190 kN?  • tow eye rating 210kN?  Advanced braking systems  Check Yes, No, N/A as applicable: Yes No 19	Towing eye							_			kt
1 is the distance from the centre of the drawbar coupling to the front axie line less than or equal to 5.0m?     2 is the overall width of the vehicle within the Australian Design Rule definition for maximum vehicle width (for example 2.5m)?     3 is the trailer filted with a tandem axie group?     4 Are all axies fitted with dual tyres?     5 is the applicable tow coupling rating equal to or greater than:	Assessment										
Is the overall width of the vehicle within the Australian Design Rule definition for maximum vehicle width (for example 2.5m)?  Is the trailer fitted with a tandem axle group?  Are all axles fitted with dual tyres?  Is the applicable tow coupling rating equal to or greater than:  If if the wheel rating 190 kN?  It turntable rating 190 kN?  It tow eye rating 210kN?  Advanced braking systems  Check Yes, No, N/A as applicable: Yes No N	Assessment				С	heck Yes, No, N//	A as applica	ble:	Yes	Nα	N/A
example 2.5m)?  3 Is the trailer fitted with a tandem axle group?  4 Are all axles fitted with dual tyres?  5 Is the applicable tow coupling rating equal to or greater than:  • fifth wheel rating 190 kN?  • turntable rating 190 kN?  • tow eye rating 210kN?  • tow eye rating 210kN?  Advanced braking systems  Check Yes, No, N/A as applicable: Yes No N			, .								
3 is the trailer fitted with a tandem axle group? 4 Are all axles fitted with dual tyres? 5 is the applicable tow coupling rating equal to or greater than: • fifth wheel rating 190 kN? • turntable rating 190 kN? • tow eye rating 210kN? • tow eye rating 210kN?  Advanced braking systems  Check Yes, No, N/A as applicable: Yes No N		of the vehicle within	the Australian Des	sign Ru	le definition for ma:	dmum vehicle wi	dth (for				
4 Are all axides fitted with dual tyres?  5 Is the applicable tow coupling rating equal to or greater than:  • Ifith wheel rating 190 kN?  • turntable rating 190 kN?  • tow eye rating 210kN?  Advanced braking systems  Check Yes, No, N/A as applicable: Yes No N		with a transfer outs and	7					-	_	_	_
S is the applicable tow coupling rating equal to or greater than:  If if the wheel rating 190 kN?  Iturnitable rating 190 kN?  Iturnitable rating 190 kN?  Iturnitable rating 190 kN?  Iturnitable rating 100 kN?  Otherwise rating 210kN?  Advanced braking systems  Check Yes, No, N/A as applicable: Yes No N			roupr					-			
fifth wheel rating 190 kN?     turntable rating 190 kN?     tow eye rating 210kN?     tow eye rating 210kN?  Advanced braking systems  Check Yes, No, N/A as applicable: Yes No N			al to or greater th	an:				-	ш	П	
turnstable rating 190 kN? tow eye rating 210kN?  Advanced braking systems  Check Yes, No, N/A as applicable: Yes No ?			an to or greater un						П	П	
• tow eye rating 210kN?   Advanced braking systems  Check Yes, No, N/A as applicable: Yes No ?											
Advanced braking systems  Check Yes, No, N/A as applicable: Yes No?		-									
Braking systems Check Yes, No, N/A as applicable: Yes No ?											
1 is the advanced braking system (where fitted) up affected or re-certified after the unbicle modification?		-									N/A
2 is the advanced braking system (where interly diffrances of re-certified after the venicle indulination)	Braking systems				Ch	eck Yes, No, N/A	as applicab	le:	Yes	No	N/A
Vehicle chassis no./VIN: Date: Signed:	1 Is the advanced br			or re-c		hicle modification		le:	Yes	No	N/

S10 Checklist—Concession	nal livestock loading – Vel	hicle rating (Dolly)			
Part B - Trailer mass Unladen dry mass					
Unladen dry trailer mass					
Unladen mass is taken directly from the we	ighbridge certificate.				
	den mass for a dolly as no fluid tanks can be t	fitted): kg			
Additional Information	·				
Weighbridge certificate:					
Make     Model     Year of manufacture     Front and Rear axle manufacturers	ations. This information is to include, but not	be limited to, the following:			
<ul> <li>Front and Rear axle specification.</li> </ul>					
Copy of the manufacturer's specifications:					
Vehicle chassis no./VIN:	Date:	Signed:			

Modification Code S3D: Concessional Livestock Loading - Vehicle Rating - Version 2.0

#### S10 Checklist—Concessional livestock loading – Vehicle rating (Dolly)

#### Part C - Vehicle S10 laden mass (Dolly)

Vehicle S10 mass (Dolly)	Vehicle S10 mass (Dolly)					
<ul> <li>Calculate the vehicle S10 I</li> </ul>	aden mass by adding the u	nladen dry tr	ailer mass and t	the 15,000kg simulate	d mass.	
Vehicle S10 laden mass:						kg
Manufacturer's mass rating	Manufacturer's mass ratings					
<ul> <li>Insert the following values</li> </ul>	Insert the following values:					
Axle group rating:						kg
Aggregate trailer mass (ATN	f) rating:					kg
Axle group tyre rating:	Axie group tyre rating: Size designation: Load index: Speed index: Capacity per tyre: Total axie group tyre capaci			tyre capacity:		
Modification	Modification Check Yes, No as applicable: (If No, do not proceed with the rating) Yes No					Yes No
1 Is the vehicle S10 laden mass less than or equal to the values recorded above in the manufacturer's mass ratings?						

#### Part E - Vehicle details and declarations

#### AVE authorisation

Declaration by certifier (AVE)					
I am the Approved Person who completed all the mass calculations and declare that the information in this form is true and correct.					
Issued by:	Company (if applicable):	AVE no.:			
Signed:	Telephone:	Date:			

#### Owner/supplier authorisation

As the \( \sum \) Owner \( / \sum \) Supplier (select applicable) of the vehicle described in this form, I declare that the vehicle specifications and vehicle equipment detailed herein are representative of the vehicle as it will enter into service and that I have enlisted the services of the AVE mentioned above to complete the \$10 approval of this vehicle in this build state/configuration.				
Name:	Company (if applicable):			
Address				
Signed:	Telephone:	Date:		

	Vehicle chassis no./VIN:	Date:	Signed:	
1	Bit of Contract Code (40), Consequence of Exercised Exercised State of Code (40), Consequence of Exercised State of Code (40), Code			

# **S10** Checklist – Dog Trailer (example)

Part A - Vehicle ow	ner 5 or supplier							
Name:		Com	pany/b	usiness:				
Address:								Postcode:
Vehicle and modifie	er details							
Vehicle make:		Vehicle mo	del:			Month and	d year of r	manufacture:
VIN (if applicable):				Vel	nicle chassis no.	(if applicable):		
Issued by (Approved Ve	ehicle Examiner (AV	/E)):	Comp	anv (if a	pplicable):			AVE no.:
Signed:			Telepi	hone:				Date:
Vehicle dimensions Overall vehicle length:		Wheelbase:				Loaded deck	length:	
	mm					mm		m
Front overhang:				_	verhang:			
			min	n				m
Drawbar length:	mm							
Vehicle rating								
Aggregate Trailer Mass	(ATM) rating:			iross Tra	iler Mass (GTM	) rating:		
Component specification	as ithe fallowing le	oformation ch	kg	barad a	a tha cablela a		a differentia a	ant.
Axies	Make:	nomiation si	Mode		m the venicle ii	Load rating (with specified tyres):		Number of axles:
Front axle group							kg	
Rear axle group							kg	
	Size designati	ion:	Load i	ndex:	Capacity per	tyre:	Total axi	e group tyre capacity
Tyres								
Tyres Front Axle Group						kg		
Front Axle Group						kg kg		
Front Axle Group Rear axle group Coupling	Make:		Mode	l:				D-value:
-			Mode	l:				

#### Assessment

As	sessment Check Yes, No, N/A as applicable:	Yes	Nα	N/A
1	is the overall deck length of the vehicle less than or equal to 12.5m?			
2	is the distance from the centre of the drawbar coupling to the front axie line less than or equal to 5.0m?			
3	is the overall width of the vehicle within the Australian Design Rule definition for maximum vehicle width (for example, 2.5m)?			
4	is the overall height less than or equal to:			
	<ul> <li>4.3m single deck crate?</li> </ul>			
	4.6m multiple deck crate?			
5	Is the trailer fitted with a triaxle rear axle group?			
6	is the trailer fitted with a tandem axle front axle group?			

Vehicle chassis no./VIN:	Date:	Signed:			
Modification Code S10: Concessional Livestock Loading - Vehicle Rating - Version 2.1 2 of 7					

#### S10 Checklist—Concessional livestock loading – Vehicle rating (Dog trailers)

As	ssessment Check Yes, No, N/A as applicable:	Yes	Nα	N/A
7	Are all axles fitted with dual tyres?			
8	8 Is the king pin rating equal to or greater than the following:			
	<ul> <li>dog trailers with a rear coupling 162kN?</li> </ul>			
	<ul> <li>dog trailers without a rear coupling 135kN?</li> </ul>			
9	is the fifth wheel rating equal to or greater than the following:			
	<ul> <li>dog trailers with a rear coupling 162k?</li> </ul>			
	<ul> <li>dog trailers without a rear coupling 135kN?</li> </ul>			
10	10 is the tow eye rating equal to or greater than the following:			
	<ul> <li>dog trailers with a rear coupling 162kN?</li> </ul>			
	dog trailers without a rear coupling 135kN?			
11	11 is the rear tow coupling rating equal to or greater than 162kN?			

#### Advanced braking systems

B	aking systems Check Yes, No, N/A as applicable:	Yes	No	N/A
1	Is the advanced braking system (where fitted) un-affected or re-certified after the vehicle modification?			

Part B - Unladen mass	
Weigh vehicle	
<ul> <li>Weigh vehicle at a registered public weighbridge and record q</li> </ul>	quantities of fuel, AdBlue and water at the time of weighing.
<ul> <li>Ensure vehicle is weighed without driver.</li> </ul>	
<ul> <li>Attach a copy of the weighbridge ticket in the space provided</li> </ul>	at the end of Part B.
Weighbridge ticketed mass:	Kg
Fuel:	L
AdBlue:	L
Water:	L
Standard equipment	
<ul> <li>List all standard equipment fitted to the vehicle at the time of gates, effluent tanks, etc. and OH&amp;S equipment must be inclu</li> </ul>	f weighing (e.g. spare wheel/tyre(s), toolbox(s)). The stock crate/body, uded.
<ul> <li>It is recommended that detailed photographs of the vehicle (t weighing.</li> </ul>	that capture all the standard equipment fitted) are taken at the time of
<ul> <li>Attach all photos in the space provided at the end of Part B.</li> </ul>	
Standard equipment list:	

Vehicle chassis no./VIN:	Date:	Signed:
Modification Code S3D: Concessional Livestock Loading - Ve	2 of 7	

#### S10 Checklist—Concessional livestock loading – Vehicle rating (Dog trailers)

#### Additional equipment

#### Plan of additional equipment

- Draw a plan of the chassis layout showing the position of all the additional equipment that has been, or is planned to be, fitted after the time of weighing.
- It is recommended that detailed photographs of the vehicle (that capture all the standard equipment fitted) are taken at the time of weighing.
- Attach all photos in the space provided at the end of Part B.

#### Chassis layout of additional equipment:

#### Calculated dry mass with standard and additional equipment

- . Subtract any mass imposed on the steer and rear axle group(s) due to fuel, AdBlue and water.
- . Calculate the mass on the steer and rear axle group(s) due to any additional equipment fitted after the time of weighing.
- · A copy of weight distribution calculations must be attached to the end of Part B.

Front axle group unladen dry mass (F2):	kg
Rear axle group unladen dry mass (R2):	kg
Trailer's unladen dry mass with standard equipment and additional equipment	kg
(F2+R2):	

#### Trailer unladen mass

#### Calculate the unladen or wet mass (with fuel/AdBlue/water added to dry mass of the steer and rear axie groups(s))

- Calculate the mass of fuel/AdBlue/water in each tank (taking into account the ullage factor) by multiplying the nominal volume of each tank by the density of fluid.
- . A copy of weight distribution calculations must be attached to the end of Part B.

Front axle group unladen mass (F3):	kg
Rear axle group unladen mass (R3):	kg
Trailer's unladen mass with filled fluid reservoirs (less ullage), standard	kg
equipment and additional equipment (F3+R3):	

#### Additional information

# Photos of standard equipment:

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code S10: Concessional Livestock Loading - Vehicle Rating - Version 2.1

<b>S10</b>	Check	dist_	-Concessio	nal livestock	loading -	- Ve <u>h</u>	icle ratin	g (Dog	trailers)
Weigh	bridge ce	rtificate:							
NA - I - I	a disamber	*ii	Jakiana fanan anana l	mposed on the forwa	-44		due to final Add	Non- and our	
weign	it distribu	tion calcu	ilations from mass i	mposed on the forwa	rd and rear axie	group(s)	due to tuel, Adi	siue and wat	er:
Photo	graphs of	the vehic	se at the time of we	ighing capturing all ti	ne standard equi	pment fit	rted:		
			lations of the mass	on the forward and r	ear axle group(s	) due to a	ny additional e	quipment fitt	ed after the
time o	of weighin	g:							
Vehic	le chassis	no./VIN-		Date:			Signed:		
J. STITLE		y winds							

## S10 Checklist—Concessional livestock loading – Vehicle rating (Dog trailers)

<ul> <li>Draw a plan of the stock body/crate deck : locations.</li> </ul>	areas on the vehicle that are available for the carriage of livestock including th	e vehicle axi	de
	r axle line and the distance between the centre of each livestock carrying area	and the rea	ar
One plan is required for each stock deck.			
The state of the s			
alculate imposed (\$10) loads on forward a	nd rear axle groups		
A copy of weight distribution calculations	must be attached to the end of Part C.	g to simulation	te
A copy of weight distribution calculations		g to simulat	te
A copy of weight distribution calculations Where a converter dolly is part of the dog loading from a laden semitrailer.	must be attached to the end of Part C.	g to simulat	
A copy of weight distribution calculations  Where a converter dolly is part of the dog loading from a laden semitrailer.  Total Livestock area (all decks):	must be attached to the end of Part C.	g to simulate	n
loading from a laden semitrailer. Fotal Livestock area (all decks): Front axle group S10 laden mass (F5):	must be attached to the end of Part C.	g to simulate	n
A copy of weight distribution calculations Where a converter dolly is part of the dog loading from a laden semitrailer.  Total Livestock area (all decks): Front axle group \$10 laden mass (F5): Rear axle group \$10 laden mass (R5):	must be attached to the end of Part C.	g to simulate	i
A copy of weight distribution calculations Where a converter dolly is part of the dog loading from a laden semitrailer.  Fotal Livestock area (all decks):  Front axle group \$10 laden mass (F5):  Rear axle group \$10 laden mass (R5):  Vehicle \$10 laden mass (F5+R5):	must be attached to the end of Part C. trailer, apply 15,000kg vertically through the centre of the fifth wheel coupling		n
A copy of weight distribution calculations Where a converter dolly is part of the dog loading from a laden semitrailer.  Total Livestock area (all decks):  Front axle group \$10 laden mass (F5): Rear axle group \$10 laden mass (R5):  Jehicle \$10 laden mass (F5+R5):  Wodification	must be attached to the end of Part C.  trailer, apply 15,000kg vertically through the centre of the fifth wheel coupling  Check Yes, No as applicable: (If No, do not proceed with the rating)	Yes No	
A copy of weight distribution calculations: Where a converter dolly is part of the dog loading from a laden semitrailer.  rotal Livestock area (all decks): Front axle group \$10 laden mass (F5): tear axle group \$10 laden mass (R5): rehicle \$10 laden mass (F5+R5): Woldfication	must be attached to the end of Part C. trailer, apply 15,000kg vertically through the centre of the fifth wheel coupling		
A copy of weight distribution calculations Where a converter dolly is part of the dog loading from a laden semitrailer.  Total Livestock area (all decks):  Front axle group \$10 laden mass (F5): Rear axle group \$10 laden mass (R5):  Jehicle \$10 laden mass (F5+R5):  Wodification	must be attached to the end of Part C.  trailer, apply 15,000kg vertically through the centre of the fifth wheel coupling  Check Yes, No as applicable: (If No, do not proceed with the rating)	Yes No	

Vehicle chassis no./VIN:	Date:	Signed:
Modification Code S3D: Concessional Livestock Loading - Ve	hide Rating - Version 2.1	5 of 7

# \$10 Checklist—Concessional livestock loading – Vehicle rating (Dog trailers) Additional Information Weight distribution calculations:

	Vehicle chassis no./VIN:	Date:	Signed:
ſ			
٦	Indiffration Code SSD: Concessional Elegatoris Loading - Ur	Aleta Batina - Marsins 3 f.	6.67

#### S10 Checklist—Concessional livestock loading – Vehicle rating (Dog trailers)

#### Part D - Vehicle details and declarations

#### **AVE authorisation**

Declaration by certifier (AVE)								
I am the Approved Person who completed all the mass calculations and declare that the information in this form is true and corr								
Issued by:	Company (if applicable):	AVE no.:						
Signed:	Telephone:	Date:						

#### Owner/supplier authorisation

	e vehicle described in this form, I declare that the vehicle s of the vehicle as it will enter into service and that I have en al of this vehicle in this build state/configuration.							
Name:	ome: Company (if applicable):							
Address								
Signed:	Telephone:	Date:						

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code S3D: Concessional Livestock Loading - Vehicle Rating - Version 2.1

## **S10** Checklist – Semitrailer including B-double and B-triple (example)

S10 Checklist—Concessional livestock loading – Vehicle rating (Semitrailer including B-double and B-triple trailer)

Name:		Con	npany/bus	iness:							
Address:								Post	code:		
Vehicle and modifier de	staile										_
Vehicle make:		Vehicle mo	odal.			Secusio .		ar of manuf			
venicie make:		venicie mo	idel:			Month a	ina ye	ar or manus	acture		
VIN (if applicable):				Vehicle	chassis no. (if a	policable					
						,,,					
Issued by (Approved Vehicle	Examiner (AV)	eil-	Company	(if applica	able):		_	-	VE no.	,	
interest of table over temen	communication (Action	-//-	company	tu abbaci	aurej.				ve mo.	•	
Signed:			Telephor	10"					ate:		
anguneo.			rerepiror					_	rate.		
Vehicle design											
Vehicle dimensions											
Overall vehicle length:				Distance fr	om Kingpin to	ROH Line:					
			mm								mr
Stock crate length:			g pin to fro	nt corner		Rear o	verha	ng:			
		mm			n	ım					mı
Vehicle rating Aggregate Trailer Mass (ATN	f) entines			Gener Ten	iler Mass (GTN	#1 cations					
Aggregate trailer mass (ATA	nj rating:		kj		mer was tarn	nj raung:					k
Component specifications (t	he following int	formation s			he trailer manu	ıfacturer's	specif	ications)			
Axies:	Make:			Model:				rating (with	\$10 sp	ecifie	d
Rear axle group											k
Tyres	Size designation	on		Load index	Capacity per	tyre		Total axle g	roup ty	re ca	pacit
Rear axle group							kg				k
Coupling	Make			Model					D-valu	e	
King pin											ki
Rear tow coupling (if fitted)											ki
Fifth wheel (for B-Double & B-Triple lead trailers only)											kl
Assessment											
Assessment					Chec	k Yes. No	N/A a	s applicable	: Yes	Νa	N/A
1 is the total internal deck le	ngth no more t	han 12.5m?	,		21164						
2 Is the overall width of the example, 2.5m)?	~			ule definit	ion for maximu	m vehicle	width	(for			
3 is the overall height of the	vehicle less tha	n or equal t	to:								
<ul> <li>4.3m for single d</li> </ul>	eck crate; or										
4.6m for multiple	e deck crates?										
4 is the vehicle fitted with a	triaxle group?										
5 Are all axles fitted with dua	al tyres?										
6 Are the load ratings, for fit	ted couplings, e	qual to or g	greater tha	n the follo	wing?						
Vehicle chassis no./VIN:		Date:				Signed:					

# S10 Checklist—Concessional livestock loading – Vehicle rating (Semitrailer including B-double and B-triple trailer)

:		Check Yes, No, N/A as applic	cable: Yes	No	N//
	Rear pin tow coupling	210kN			
	B-double lead trailer fifth wheel coupl	ling 135kN			
	B-triple lead trailer fifth wheel couplir	ng 162kN			
	B-triple second trailer fifth wheel coup	pling 135kN?			
dvanced	braking systems				
raking syst	tems	Check Yes, No, N/A as applica	able: Yes	No	N/
Is the ad	vanced braking system (where fitted)	un-affected or re-certified after the vehicle modification?			
art B - Ur	nladen mass				
Weigh vehic	cle				
• Weigh ve	hicle at a registered public weighbridg	e and record quantities of fuel, AdBlue and water at the time of w	veighing.		
Ensure ve	hicle is weighed without driver.				
<ul> <li>Attach a c</li> </ul>	copy of the weighbridge ticket in the s	pace provided at the end of Part B.			
Weighbridg	e ticketed mass:				К
Fuel:					
AdBlue:					
Water:					
Standard eq	quipment				
	indard equipment fitted to the trailer : luent tanks, etc and OH&S equipment	at the time of weighing (e.g. spare wheel/tyre(s), toolbox(s)etc. The must be included.	he stock crat	te/bo	dy,
• It is recon	nmended that detailed photographs a	re taken of the vehicle at the time of weighing that capture all the	standard e	quipn	nen!
fitted.					
Attach all	photos in the space provided at the e	nd of Part B.			
Standard ed	quipment list				
-					
uddition=	l equinment				
	l equipment				
Plan of add		te: Signed:			

# S10 Checklist—Concessional livestock loading – Vehicle rating (Semitrailer including B-double and B-triple trailer)

- Draw a plan of the chassis layout showing the position of all the additional equipment that has been, or is planned to be, fitted to the trailer after the time of weighing.
- It is recommended that detailed photographs are taken of the vehicle at the time of weighing that capture all the standard equipment fitted.
- Attach all photos in the space provided at the end of Part B.

			equipm	

#### Calculated dry mass with standard and additional equipment

- Subtract any mass imposed on the kingpin and rear axle group(s) due to fuel, AdBlue and water.
- Calculate the mass on the kingpin and rear axle group(s) due to any additional equipment fitted after the time of weighing.
- · A copy of weight distribution calculations must be attached to the end of Part B.

Kingpin unladen dry mass (F2)	k
Rear axle group unladen dry mass (R2)	lk)
Trailer's unladen dry mass with standard equipment and additional equipment	
(F2+R2)	k

Vehicle chassis no./VIN:	Date:	Signed:		
Madification Code 640: Concentrated Landour Visitida Refera - Vention 3 4				

# S10 Checklist—Concessional livestock loading – Vehicle rating (Semitrailer including B-double and B-triple trailer)

#### Trailer unladen mass

# Calculate the unladen or wet mass (with fuel/AdBlue/water added to dry mass of the steer and rear axie groups(s)) Calculate the mass of fuel/AdBlue/water in each tank (taking into account ullage factor) by multiplying the nominal volume of each tank by the density of fluid. A copy of weight distribution calculations must be attached to the end of Part B. Kingpin unladen mass (KP3) Rear axie unladen mass (R3) i Trailer's unladen mass with filled fluid reservoirs (less ullage), standard equipment and additional equipment (KP3+R3)

#### Additional Information

Photos of standard equipment		
Weighbridge certificate		
vergroringe terminate		
Vehicle chassis no./VIN:	Date:	Signed:

Vehicle chassis no./VIN:	Date:	Signed:
8. And Wheelers Code, 6.97; Conservational Elements I and law 3.0;	delate Marker - Marriage 9 4	14

Modification Code S3D: Concessional Livestock Loading - Vehicle Rating - Version 2.1

# S10 Checklist—Concessional livestock loading – Vehicle rating (Semitrailer including B-double and B-triple trailer)

Weight distribution calculations from mass imposed on the steer and rear axle group(s) due to fuel, AdBlue and water
Photographs of the vehicle at the time of weighing capturing all the standard equipment fitted
Weight distribution calculations of the mass on the steer and rear axle group(s) due to any additional equipment fitted after the time
of weighing

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code S3D: Concessional Livestock Loading - Vehicle Rating - Version 2.1

S10 Checklist—Concessional livestock loading – Vehicle rating (Semitrailer including B-double and B-triple trailer)

#### Part C - S10 laden mass (Semitrailer)

Deck area(s) on trailer	
<ul> <li>Draw a plan of the stock body/crate deck are locations.</li> </ul>	eas on the vehicle that is available for the carriage of livestock including the vehicle axle
Mark in the position of the rear axle line and	the distance between the centre of each livestock carrying area and the rear axle.
<ul> <li>One plan is required for each stock deck.</li> </ul>	
Drawing of deck(s)	

ľ	<ul> <li>Apply 15,000kg vertically through the centre of the fifth wheel coupling to simulate loading from a laden semitrailer (if trailer is fitted with a fifth wheel coupling i.e. lead b-double &amp; b-triple trailer and b-triple middle trailer)</li> </ul>			
I	Total Livestock area (all Decks)	m <sup>2</sup>		
I	Kingpin S10 laden mass (F5)	kg		
I	Rear axle group S10 laden mass (RS)	kg		
Vehicle S10 laden mass (F5+R5)				

Vehicle chassis no./VIN:	Date:	Signed:

Modification Code S10: Concessional Livestock Loading - Vehicle Rating - Version 2.1

A copy of weight distribution calculations must be attached to the end of Part C

Calculate S10 laden mass

5 at 7

S10 Checklist—	-Concessional livest	ock loading –	Vehicle rating	(Semitrailer
including B-do	uble and B-triple tra	niler)		

Modification	Check Yes, no as applicable: (If Mo, do not proceed with the rating)	Yes No
	ss than or equal to the values recorded above in the manufacturer's mass ratings?	
2 Is the maximum kingpin load less tha		
dditional Information		
Weight distribution calculations		
art D - Vehicle details and decla	rations	
	arations	
	arations	
VE Authorisation	arations	
VE Authorisation Declaration by certifier (AVE) am the Approved Person who comple	erations ted all the mass calculations and declare that the information in this form is true	and correct.
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AVE Authorisation  Declaration by certifier (AVE)  I am the Approved Person who completes used by:  Signed:  Dwner/supplier Authorisation  As the   Owner   Supplier (select agreement detailed herein are rethe AVE mentioned above to complete	ted all the mass calculations and declare that the information in this form is true  Company (if applicable):  AVI  Telephone:  Dat  pplicable) of the vehicle described in this form, I declare that the vehicle specificare representative of the vehicle as it will enter into service and that I have enlisted the S10 approval of this vehicle in this build state/configuration.	E no.: te: ations and
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AVE Authorisation  Declaration by certifier (AVE) am the Approved Person who completes  Signed:  Dwner/supplier Authorisation  As theOwner/ Supplier (select approved by the complete select approved by the complete	ted all the mass calculations and declare that the information in this form is true  Company (if applicable):  AVI  Telephone:  Dat  pplicable) of the vehicle described in this form, I declare that the vehicle specificare representative of the vehicle as it will enter into service and that I have enlisted the S10 approval of this vehicle in this build state/configuration.	E no.: te: ations and
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AVE Authorisation  Declaration by certifier (AVE) am the Approved Person who completessued by:  Signed:  Dwner/supplier Authorisation  As theOwner /Supplier (select approved by the complete select approved by the com	ted all the mass calculations and declare that the information in this form is true  Company (if applicable):  AVI  Telephone:  Dat  pplicable) of the vehicle described in this form, I declare that the vehicle specificare representative of the vehicle as it will enter into service and that I have enlisted the S10 approval of this vehicle in this build state/configuration.	E no.: te: ations and the services of
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Issued by:  Signed:  Owner/supplier Authorisation  As the   Owner /  Supplier (select agreement detailed herein are re	ted all the mass calculations and declare that the information in this form is true  Company (if applicable):  AVI  Telephone:  Dat  pplicable) of the vehicle described in this form, I declare that the vehicle specifics representative of the vehicle as it will enter into service and that I have enlisted to the \$10 approval of this vehicle in this build state/configuration.  Company (if applicable):	E no.: te: ations and the services of
AVE Authorisation  Declaration by certifier (AVE)  I am the Approved Person who completissued by:  Signed:  Dwner/supplier Authorisation  As theOwner / Supplier (select approved by the complete of the AVE mentioned above to complete Name:  Address	ted all the mass calculations and declare that the information in this form is true  Company (if applicable):  AVI  Telephone:  Dat  pplicable) of the vehicle described in this form, I declare that the vehicle specifics representative of the vehicle as it will enter into service and that I have enlisted to the \$10 approval of this vehicle in this build state/configuration.  Company (if applicable):	E no.: te: ations and the services of
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Declaration by certifier (AVE)  I am the Approved Person who completissued by:  Signed:  Dwner/supplier Authorisation  As the   Owner /   Supplier (select agreehicle equipment detailed herein are riche AVE mentioned above to complete Name:  Address  Signed:	ted all the mass calculations and declare that the information in this form is true  Company (if applicable):  Telephone:  Dat  pplicable) of the vehicle described in this form, I declare that the vehicle specifics representative of the vehicle as it will enter into service and that I have enlisted the \$10 approval of this vehicle in this build state/configuration.  Company (if applicable):  Telephone:  Dat	E no.: te: ations and the services of
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# Appendix 1 — Glossary

#### **General terms**

Volume

General terms		
Additional equipment	Any equipment that has been, or is planned to be, fitted to the truck after the time of weighing. Items could include, but are not limited to, bullbar, sleeper cab air conditioning, spare wheel/tyre(s)toolbox(s), refrigerator(s), etc.	
Fluid tank	A tank used to store a fluid. This may include (but not be exclusively restricted to) auxiliary fuel, AdBlue tanks, water and/or effluent tanks that are fitted to the truck and/or trailer.	
Front axle group/Kin pin S10 Laden Mass	The total simulated mass as calculated according to the Livestock Loading (S10) code on:  the front steer axle group of a truck, or the front axle group of a dog trailer, or	
	<ul> <li>the axle group of a doly, or</li> <li>the kingpin of a semitrailer.</li> </ul>	
Length	Length is to be calculated to the nearest 5 mm.	
Mass	Mass is to be calculated to the nearest kilogram.	
Rear axle group S10 laden mass	The total simulated mass as calculated according to the Livestock Loading (S10) code on:  the rear axle group of a truck, or the rear axle group of a dog trailer, or the axle group of a semitrailer.	
Standard equipment	Includes bullbar, sleeper cab air conditioning, spare wheel/tyre(s) toolbox(s), etc. The stock crate/body, gates, effluent tanks, etc. and OH&S equipment etc.	
Stock crate length	The overall internal length of the livestock trailer/body.	
Ullage	The air space in the top of a tank to allow for liquid expansion. Nominal tank capacity = Rated, or actual, tank capacity + ullage.	
Unladen dry mass	The mass of the empty vehicle (truck/trailer) when all standard equipment, plus all the additional equipment used in normal operation is fitted and all fluid tanks are empty (fuel, AdBlue, water, effluent). For a semitrailer, this is the UTM (unladen trailer mass) plus the mass at the kingpin.	
Vehicle S10 laden mass	The total simulated mass as calculated according to the Livestock Loading (S10) code. For a semitrailer this will be kingpin S10 Mass + rear axle S10 Mass.	

Volume is to be calculated to the nearest litre.

#### Truck terms

# Steer axle group rating

- The truck manufacturer's original load rating for the front axle group system, or
- Rating certified under VSB6.

In their absence, the minimum rating of any component that makes up the steer axle group and includes, the entire steering system, axle beam, knuckles, hubs, bearings and the suspension.

# Unladen (wet) mass

The mass of the truck in running order unoccupied and unladen with all fluid reservoirs filled to nominal capacity including fuel, AdBlue and water, and with all equipment used in normal operation fitted.

**Note**: Unladen wet mass is equivalent to the unladen mass detailed in the *Heavy Vehicle National Law - Queensland Class 3 Livestock Loading Exemption Notice.* 

#### **Trailer terms**

# Trailer unladen mass

The mass of the trailer in running order and unladen, with all fluid reservoirs filled to nominal capacity including auxiliary fuel, AdBlue and water tanks. All equipment used in normal operation fitted. The unladen trailer mass includes mass at the kingpin plus mass at axle group.

**Note**: Trailer unladen mass is equivalent to the unladen mass detailed in the *Heavy Vehicle National Law - Queensland Class 3 Livestock Loading Exemption Notice*.