HEAVY VEHICLE MODIFICATIONS

Checklist for Modification Code S11

RATING OF TRAILERS FOR USE IN ROAD TRAIN

1.0 Trailer particulars

Vehicle Make / Model: _____ Reg. No: _____

Chassis No. or VIN: _____ Year of Mfr: _____

Wheelbase: _____ mm Overhang: _____ mm

Forward radius: _____ mm Tow coupling overhang: _____ mm (if applicable)

Drawbar length: _____ mm Centre of mass height: _____ mm (if applicable)

Load deck length: _____ mm Tare mass: _____ kg

1.1 Componentry details

Component	Make / model	Compliance Mark Approval	Load rating
Control system:			
Braked axles:			kg
Front suspension			kg
Rear suspension:			kg
T yre size:			kg

Axle group: **Front**

Axle number	**1**	**2**	**3**
Brake chamber size:			
Slack adjuster length:			

Axle group load: _____ kg

Axle group:	**Rear**			
Axle number	**1**	**2**	**3**	**4**
Brake chamber size:				
Slack adjuster length:				

Axle group load: kg

Chassis construction:

Front Tow coupling/Fifth wheel:

Make/model: D-rating: kg

Rear Tow coupling/Fifth wheel:

Make/model: D-rating: kg

1.2 **Brake timing tests (if applicable):**

Application time: Rear brake chamber ms Rear coupling to test cylinder ms

Release time: Rear brake chamber ms Rear coupling to test cylinder ms

1.3 **Calculated braking performance**

Calculated ERC deceleration performance relative to ADR 38/.. upper and lower boundaries at different control signal strengths.

Control signal 'E'	0.2	0.4	0.6	0.8	1.0
Control signal ,kPa	130	260	390	520	650
Calculated ERC					
Upper limit	.140	.305	.470	.635	.800
Lower limit	.029	.158	.286	.394	.482

Parking grade percent at modified ATM: %

Emergency skid limit: Certified suspension skid limit:

Dog trailer:

Front friction utilization:		at:		ERC
Rear friction utilization:				
Axle fade rating required:		tonnes		

(Y=Yes, N= No or N/A=Not Applicable)

2.0 General

2.1 Have all calculations required to establish the modified ATM been retained for future audit? ☐

3.0 Chassis

3.1 Has the chassis construction been calculated to be adequate for the modified axle group loads and ATM? ☐

4.0 Brake system

4.1 Are the requirements of ADR 38/... met for ERC, emergency skid limits, friction utilisation and axle fade rating? ☐

4.2 Does the parking ability exceed 18% gradient at the modified ATM? ☐

4.3 Are the brake application and release times (if applicable) within the permitted limits? ☐

5.0 Tyres and Rims

5.1 Does the tyre placard if fitted record the correct tyre and rim sizes, axle configurations, axle loads and inflation pressures for the modified vehicle? ☐

5.2 Are tyres and rims fitted in accordance with the tyre placard? ☐

6.0 Fifth Wheel/Tow Coupling

6.1 Do the fifth wheel and fifth wheel mounting meet the requirements of ADR 63/...? ☐

6.2 Do the tow coupling, tow coupling mounting and drawbar (if applicable) meet the requirements of ADR 63/...? ☐

7.0 Dimensions

7.1 Are the trailer dimensions within the permitted maximum limits? ☐

8.0 Lighting and signs

8.1 Do all lamps conform in specification and location to ADR 13/.. requirements? ☐

8.2 Are road train signs fitted in accordance with Section 9.0 of Appendix S11? ☐

9.0 Workmanship

9.1 Is the quality of workmanship to a satisfactory standard? ☐

NOTE: If the answer to any relevant question is "NO", the modification is not acceptable.

Trailer Modified By: ☐

Certificate approved by: ☐

HEAVY VEHICLE MODIFICATIONS

Company (if applicable):	
Modification Plate No issued:	
Certificate number issued:	
Signed when printed:	
Certifying Officer No:	Date: