### Trailer and modifier details (as applicable)

|  |  |  |
| --- | --- | --- |
| Vehicle make: | Vehicle model: | Month and year of manufacture: |
|  |  |  |
| VIN (if applicable): | Vehicle chassis no. (if applicable): | Vehicle modifier (company name): |
|  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Wheelbase: | Forward radius: | Rear overhang: | Tow coupling overhang: | Drawbar length: |
|  | mm |  | mm |  | mm |  | mm |  | mm |
| Point of articulation to rear overhang line: | **Modified ATM:** | **Modified GTM:** | **Tare mass:** |
|  | mm |  | kg |  | kg |  | kg |

### Trailer component details

|  |
| --- |
| Component details: |
| Component | Make/model | Compliance mark approval (SARN) | Load rating  |
| Control system |  |  |  |
| Braked axles |  |  | kg |
| Front suspension |  |  | kg |
| Rear suspension |  |  | kg |
| Tyre size |  |  | kg |
| Axle group: front  | Axle number 1 | Axle number 2 | Axle number 3 | Axle group load |
| Brake chamber size |  |  |  | kg |
| Slack adjuster length |  |  |  |
| Axle group: rear  | Axle number 1 | Axle number 2 | Axle number 3 | Axle number 4 | Axle group load |
| Brake chamber size |  |  |  |  | kg |
| Slack adjuster length |  |  |  |  |
| Chassis construction |  |
|  |  |
|  |  |
| Tow couplings | Make | Model | D-rating |
| Front tow coupling / fifth wheel |  |  | kN |
| Rear tow coupling / fifth wheel |  |  | kN |
| Brake timing test (if applicable): | Application time: | Release time: |
| Rear brake chamber | ms | ms |
| Rear coupling to test cylinder | ms | ms |
| Calculated braking performance: |
| Calculated ERC deceleration performance relative to Australian Design Rule (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  |  |  |  |  |  |
| Parking grade percent at modified ATM | Emergency skid limit | Certified suspension skid limit |
|  | % |  |  |
| All trailers: | Dog trailer: |
| Axle fade rating required (tonnes) | Front friction utilisation | Rear friction utilisation |
|  |  | at |  | ERC |  |

### Trailer component details

|  |  |  |  |
| --- | --- | --- | --- |
| **If you answer NO to any question below, the modification is not acceptable.** Check Yes, No, N/A as applicable: | Yes | No | N/A |
| 1 | Have all calculations or manufacturer’s specifications required to establish the modified ATM been retained for future audit?  | [ ]  | [ ]  |  |
| 2 | Has the chassis construction been assessed (by calculations) to be adequate for the modified axle group loads and ATM? | [ ]  | [ ]  |  |
| 3 | Are the requirements of ADR 38/.. met including for ERC, emergency skid limits, friction utilisation and axle fade rating ? | [ ]  | [ ]  |  |
| **4** | Does the parking brake ability exceed 18% gradient at the modified ATM? | [ ]  | [ ]  |  |
| **5** | Are the brake application and release times (if applicable) within the permitted limits? | [ ]  | [ ]  |  |
| 6 | Has the tyre placard, if fitted, been updated where necessary to record the correct tyre and rim sizes, axle configurations, axle loads and inflation pressures for the modified vehicle? | [ ]  | [ ]  | [ ]  |
| **7** | Are tyres and rims fitted in accordance with the tyre placard? | [ ]  | [ ]  | [ ]  |
| 8 | Do the fifth wheel and fifth wheel mounting meet the requirements of ADR 62/.. and ADR 63/…? | [ ]  | [ ]  | [ ]  |
| **9** | Do the tow coupling, tow coupling mounting and drawbar (if applicable) meet the requirements of ADR 62/.. and ADR 63/…? | [ ]  | [ ]  | [ ]  |
| **10** | Does the trailer comply with all applicable ADR requirements at the revised road train rating? | [ ]  | [ ]  |  |
| 11 | Are the trailer dimensions within the permitted maximum limits? | [ ]  | [ ]  |  |
| **12** | Are road train signs fitted in accordance with Section 9 ‘Dimension and signage requirement’of Modification Code S9? | [ ]  | [ ]  |  |

### Advanced braking systems

|  |  |  |  |
| --- | --- | --- | --- |
| **Braking 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? | [ ]  | [ ]  | [ ]  |

### Modification details

|  |  |  |  |
| --- | --- | --- | --- |
| **Modification criteria** Check Yes or No as applicable: | Yes | No |  |
| 1 | Has the modification been performed in accordance with the manufacturer’s guidelines? | [ ]  | [ ]  |  |

### Compliance

|  |  |  |  |
| --- | --- | --- | --- |
| **Modification** Check Yes or No as applicable: | Yes | No |  |
| 1 | Does this modification meet all the requirements of the manufacturer’s guidelines / Modification Code S7? | [ ]  | [ ]  |  |
| 2 | Is the quality of the work to an accepted industry standard? | [ ]  | [ ]  |  |
| 3 | Does the vehicle continue to comply with ADRs and heavy vehicle standards regulations affected by the modification? | [ ]  | [ ]  |  |

### Authorisation

|  |
| --- |
| **Other than modification criteria, if the answer to any relevant question is NO the modification is not acceptable.** |
| **Comments:** |  |
| Examined by: | Company (if applicable): | AVE no.: |
|  |  |  |
| Signed: | Modification certificate no.: | Modification plate no.: | Date: |
|  |  |  |  |