**WA Performance Based Standards (PBS) Scheme**

Vehicle Specifications (Part B)

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# Instructions for the Assessor

1. Sections [1.1](#_Applicant_and_Vehicle), [1.2](#_Design_Owner_Details) and [1.3](#_Assessor_Details) must be completed.
2. For amendments or variations, the assessor must also complete section [2](#_Amendments_and_variations) and highlight all amendments or variations in yellow.
3. In sections [3-5](#_Towing_Vehicle_Inspection) the assessor must complete the relevant details in the Required Specification Column for each PBS vehicle.
4. If the PBS heavy vehicle is a combination, the relevant parts must be completed for each unit in the combination (e.g., Lead trailer, semi-trailer, dolly or dog trailer)
5. In section 4, the assessor may list interchangeable units together in the same table (e.g., if units 2 and 4 are interchangeable, units 2 and 4 may be listed together)
6. To be considered interchangeable, units must have identicalRequired Specifications & Dimensions.
7. The Vehicle Design Schematic must be inserted in section [6](#_Vehicle_design_Schematic).
8. When the vehicle is completely described, the Assessor must complete the Assessor Declaration in section 7 of the WA PBS Assessment Results (Part A) and submit both parts to [hvsnetworkaccess@mainroads.wa.gov.au](mailto:hvsnetworkaccess@mainroads.wa.gov.au)

# Application Details

## Applicant and Vehicle Design Details

|  |  |  |  |
| --- | --- | --- | --- |
| **Applicant** | | | |
| Name of company |  | Contact person |  |
| Postal address |  | | |
| Email |  | | |
| Phone |  | Mobile |  |
| **Vehicle Design Details** | | | |
| Vehicle Design Number |  | | |

## Design Owner Details (if different from applicant details)

|  |  |  |  |
| --- | --- | --- | --- |
| **Design Owner** | | | |
| Name of company |  | Contact person |  |
| Postal address |  | | |
| Email |  | | |
| Phone |  | Mobile |  |

## Assessor Details

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessor** | | | |
| Name of company |  | Contact person |  |
| Postal address |  | | |
| Email |  | | |
| Phone |  | Mobile |  |
| Assessor job number |  | | |

## Inspection Details *(For Main Roads office use only)*

|  |  |
| --- | --- |
| **Inspection Details** | |
| Main Roads Reference Number | MRWA |
| Inspection Location |  |
| Inspection Date |  |
| Name of person who completed Inspection |  |
| Certification Reference Number |  |

# Document Control

## Initial Document Details

|  |  |
| --- | --- |
| **Document Number** | For Main Roads Office Use Only |
| **Initial Issue Date** |  |

## Application Amendments and Variations

| **Amendment Description** | **Date** | **TRIM Reference (office use only)** |
| --- | --- | --- |
|  | Click or tap to enter a date. |  |
|  | Click or tap to enter a date. |  |
|  | Click or tap to enter a date. |  |
|  | Click or tap to enter a date. |  |

**Note:** All amendments/variations/corrections from the previous version should be marked on the form with yellow highlight for clarity.

# Towing Vehicle Inspection Details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Assessor to Complete** | | | | **Main Roads to Complete** | | |
| **Unit Type** | | | Choose an item. | **VIN** |  | |
| **Inspection Type** | Choose an item. | |
|  | **Category or Component** | **Parameter** | **Required Specification** | **As Built Specification** | | **List evidence provided to support as built specification** |
|  | Vehicle | Make |  |  | |  |
| Model |  |  | |  |
| Description  (e.g., Prime Mover/Rigid Truck - 8x4, 8x6, 10x6) |  |  | |  |
|  | Engine and Driveline | Make and model |  |  | |  |
| Engine Power: (The output at a specified engine RPM, e.g., 448kW@1800rpm) |  |  | |  |
| Engine Torque: (The output at a specified engine RPM, e.g., 2778Nm@1200rpm) |  |  | |  |
| Engine Emission Rating:  (e.g., Euro 5, or ADR 80/02 compliant) |  |  | |  |
| Clutch engagement torque in Nm. (For manual transmission only). |  |  | |  |
| Torque converter characteristics (For automatic transmission only). |  |  | |  |
|  | Gearbox | Make and model |  |  | |  |
| Gearbox ratio:  Include all gear ratios |  |  | |  |
|  | Differential | Make and model |  |  | |  |
| Final drive ratio  (e.g., 4.55:1) |  |  | |  |
| Tractive effort distribution/torque distribution. (e.g., 50:25:25 or 33:33:33) |  |  | |  |
|  | Suspension | Steer Axle Make and Model | Single steer (if applicable) |  | |  |
| Twin steer (if applicable) – non-load sharing |  | |  |
| Twin steer (if applicable) – load sharing |  | |  |
| Steer Axle group rating |  |  | |  |
| Drive Axle Type, Make & Model: (Leaf spring or airbag. If leaf spring, specify number, e.g., 3 leaf or 9 leaf) |  |  | |  |
| Drive Axle group rating |  |  | |  |
|  | Wheels and axles | Track width and dual tyre spacing | Steer Track: |  | |  |
| Drive Track: |  | |  |
| Dual tyre spacing: |  | |  |
|  | Tyres | Tyre requirements | Steer:   |  |  |  | | --- | --- | --- | | **Size** | **Load Index (min)** | **Generic Tyre Dataset used in Assessment** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  | |  |
| Drive:   |  |  |  | | --- | --- | --- | | **Size** | **Load Index (min)** | **Generic Tyre Dataset used in Assessment** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  | |  |
|  | Couplings | Make and Model |  |  | |  |
| Type (e.g. fifth wheel /ballrace/ Ringfeder) |  |  | |  |
| D-rating (Lowest rating for the assembly, e.g. lowest rating of fifth wheel or ballrace) |  |  | |  |
|  | Brakes | Brake Type:  (Axles fitted with disc brakes or drum brakes) |  |  | |  |
| Brake Controls:  (e.g. ABS or EBS) |  |  | |  |
| Trailer Brake Power Supply:  (The power output supplied to the trailer EBS system) |  |  | |  |
|  | Tare | Minimum tare mass (kg) (Including any accessories fitted) |  |  | |  |
|  | Mass | Gross Vehicle Mass (GVM) rating (kg) |  |  | |  |
| Gross Combination Mass (GCM) rating (Kg) |  |  | |  |
|  | Other | Additional or special requirements |  |  | |  |

# Trailing Units InspectIon details

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Assessor to Complete** | | | | **Main Roads to Complete** | | |
| **Unit Type** | | | Choose an item. | **VIN** |  | |
| **Position of unit in the combination** | | |  | **Inspection Type** | Choose an item. | |
|  | **Category or Component** | **Parameter** | **Required Specification** | **As Built Specification** | | **List evidence provided to support as built specification** |
|  | Vehicle | Make |  |  | |  |
| Model |  |  | |  |
| Description (e.g. tandem dolly, tri axle semi-trailer or six axle dog trailer) |  |  | |  |
| Body type (e.g., side tipper, fuel tanker or skel trailer) |  |  | |  |
|  | Suspension | Dolly Axle Group Suspension Type, Make & Model (If applicable):  (Leaf spring or airbag. If leaf spring, specify number, e.g., 3 leaf or 9 leaf) |  |  | |  |
| Rear Axle Group Suspension Type, Make & Model (If applicable):  (Leaf spring or airbag. If leaf spring, specify number, e.g., 3 leaf or 9 leaf) |  |  | |  |
| Steerable axle suspension make and model  (If applicable) |  |  | |  |
| Steerable Axle Degree of Articulation  (If applicable): |  |  | |  |
|  | Wheels and axles | Track width and dual tyre spacing | Track width: |  | |  |
| Dual Tyre: |  | |  |
| Lift axle/s |  |  | |  |
|  | Tyres | Tyre requirements | |  |  |  | | --- | --- | --- | | **Size** | **Load Index (min)** | **Generic Tyre Dataset used in Assessment** | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  | |  |
|  | Couplings | Dolly Drawbar Coupling Type, Make & Model  (If applicable):  (e.g., Tow Eye or Gooseneck Kingpin) |  |  | |  |
| Dolly Drawbar Coupling D-Rating: |  |  | |  |
| Dolly to Semi-trailer Coupling Type, Make & Model (If applicable):  (e.g., fifth wheel or ballrace) |  |  | |  |
| Dolly to Semi-trailer Coupling D-Rating:  (Specify lowest rating for the assembly, e.g. lowest rating of fifth wheel and/or ballrace) |  |  | |  |
| Semi-trailer Kingpin Make & Model  (If applicable): |  |  | |  |
| Semi-trailer Kingpin D-Rating: |  |  | |  |
| Rear Coupling Type, Make & Model  (If applicable):  (e.g., fifth wheel / ballrace / Ringfeder fitted to rear of semi-trailer or dog trailer) |  |  | |  |
| Rear Coupling D-Rating: |  |  | |  |
|  | Brakes | Dolly Brake Type:  (If applicable)  (Axles fitted with disc brakes or drum brakes) |  |  | |  |
| Dolly Brake Controls:  (e.g., TEBS or LPV) |  |  | |  |
| Dolly TEBS CAN Bus Connection:  (Linking the TEBS and RSS on all semi-trailers) |  |  | |  |
| Semi-trailer or Dog Trailer Axle Group Brake Type  (If applicable):  (Axles fitted with disc brakes or drum brakes) |  |  | |  |
| Semi-trailer or Dog Trailer Axle Group Brake Controls:  (e.g., TEBS with RSS) |  |  | |  |
| Semi-trailer or Dog Trailer TEBS CAN Bus Connection:  (Linking the TEBS and RSS on all semi-trailers) |  |  | |  |
|  | Tare | Minimum tare mass (kg) (Including any accessories fitted) |  |  | |  |
|  | Mass | Aggregate Trailer Mass (ATM) rating (kg) |  |  | |  |
|  | Other | Additional or special requirements |  |  | |  |

# Combination Dimensions and compliance

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Assessor to Complete** | | | | **Main Roads to Complete** | |
|  | **Category or Component** | **Parameter** | **Required Specification** | **As Built Specification** | **List evidence provided to support as built specification** |
|  | Dimensions | Compliance with the dimensions in the drawing/s (specify drawing number/s) |  |  |  |

# Vehicle design Schematic Drawing

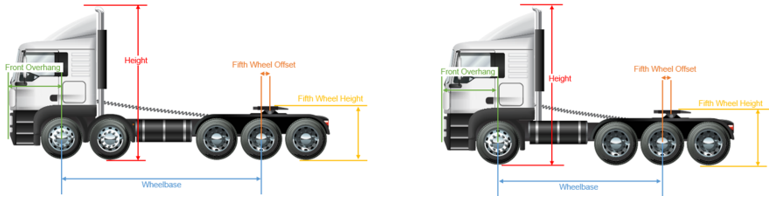
# Inspection Notes (For Main Roads office use only)

|  |  |
| --- | --- |
| **Associated Documents** | **Trim Reference** |
| Inspected Part B |  |
| Towing Vehicle Manufacturer Declaration(s) |  |
| Trailer Manufacturer Declaration(s) |  |
| Inspection Photos |  |
| Towing Vehicle Ratings Letter(s) |  |
| End of Line Brake Report(s) |  |
| Other (specify) |  |

# as built measurements (for Main roads office use only)

## Prime Mover:

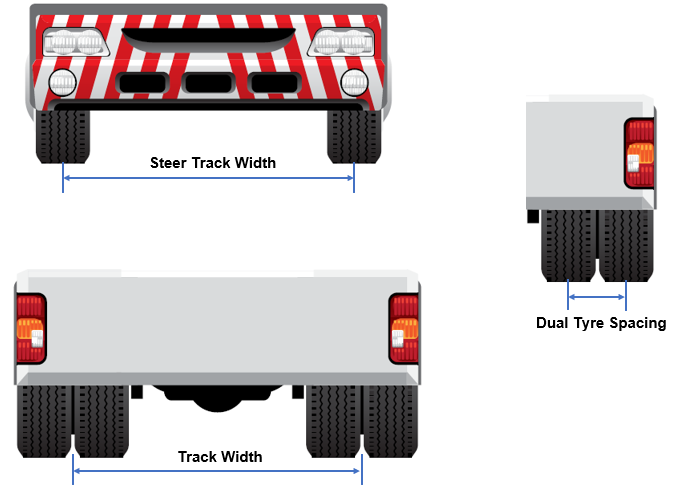
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Front Overhang** | **Wheelbase** | **Fifth Wheel Offset** | **Fifth Wheel Height** | **Height** |
| **Required** |  |  |  |  |  |
| **Actual** |  |  |  |  |  |



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Axle 1-2** | **Axle 2-3** | **Axle 3-4** | **Axle 4-5** |
| **Required** |  |  |  |  |
| **Actual** |  |  |  |  |

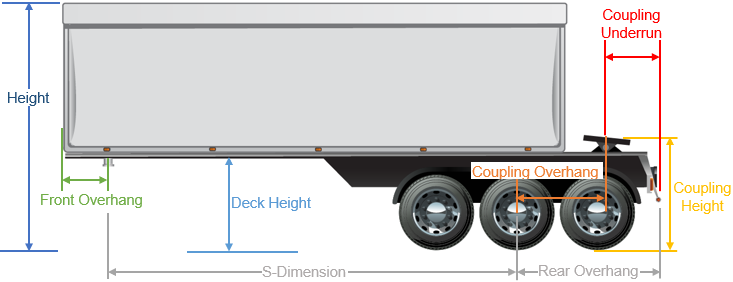


|  |  |  |  |
| --- | --- | --- | --- |
|  | **Steer Track Width** | **Dual Tyre Spacing** | **Track Width** |
| **Required** |  |  |  |
| **Actual** |  |  |  |

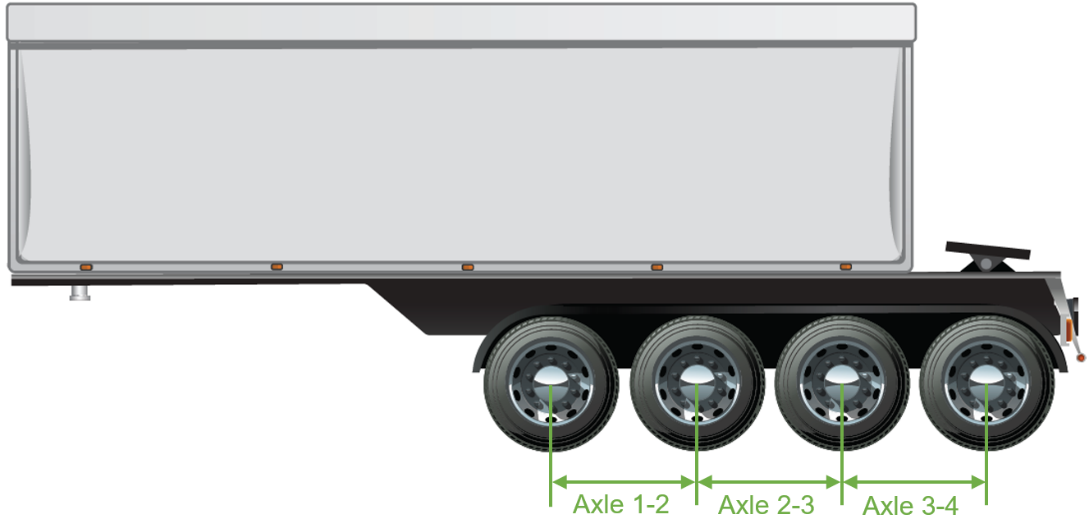


## Semi-trailer

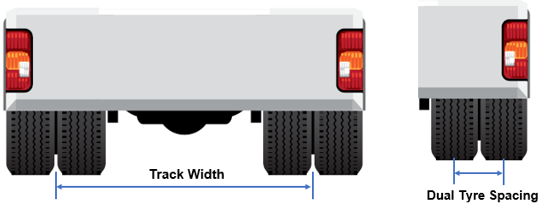
|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Front Overhang** | **S-Dimension** | **Rear Overhang** | **Coupling Overhang** | **Coupling Underrun** | **Coupling Height** | **Deck Height** | **Height** |
| **Required** |  |  |  |  |  |  |  |  |
| **Actual** |  |  |  |  |  |  |  |  |



|  |  |  |  |
| --- | --- | --- | --- |
|  | **Axle 1-2** | **Axle 2-3** | **Axle 3-4** |
| **Required** |  |  |  |
| **Actual** |  |  |  |

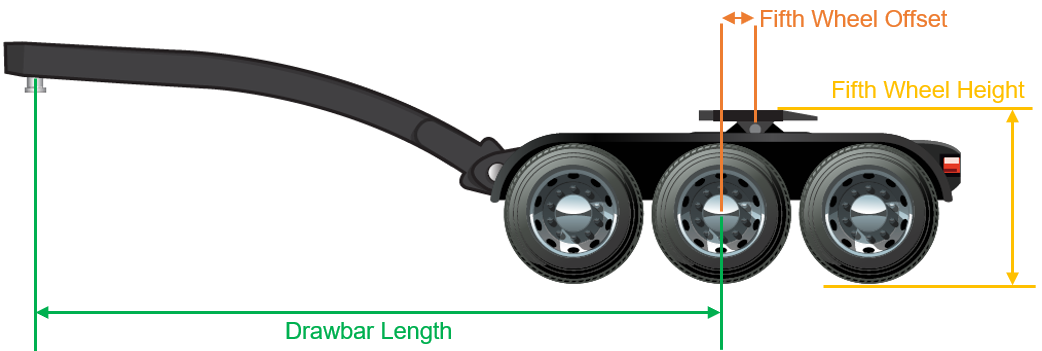


|  |  |  |
| --- | --- | --- |
|  | **Dual Tyre Spacing** | **Track Width** |
| **Required** |  |  |
| **Actual** |  |  |

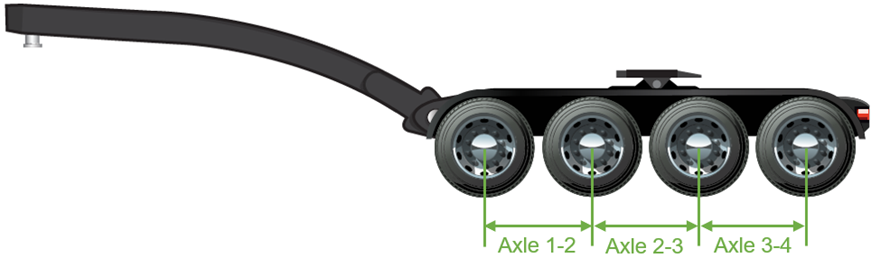


## Converter Dolly

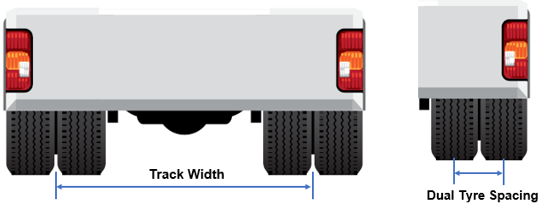
|  |  |  |  |
| --- | --- | --- | --- |
|  | **Drawbar Length** | **Fifth Wheel Offset** | **Fifth Wheel Height** |
| **Required** |  |  |  |
| **Actual** |  |  |  |



|  |  |  |  |
| --- | --- | --- | --- |
|  | **Axle 1-2** | **Axle 2-3** | **Axle 3-4** |
| **Required** |  |  |  |
| **Actual** |  |  |  |

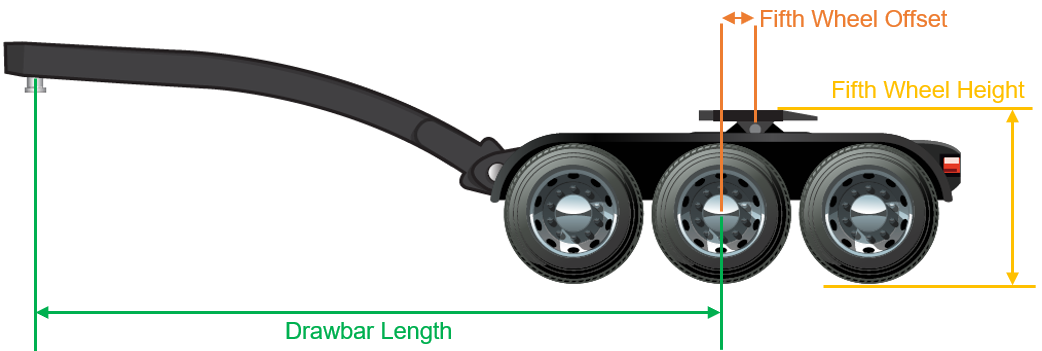


|  |  |  |
| --- | --- | --- |
|  | **Dual Tyre Spacing** | **Track Width** |
| **Required** |  |  |
| **Actual** |  |  |

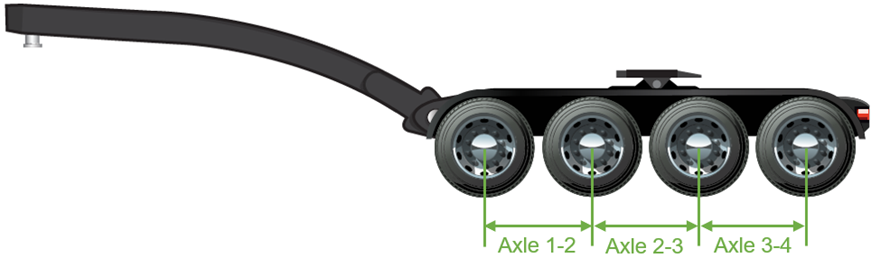


## Dog Trailer

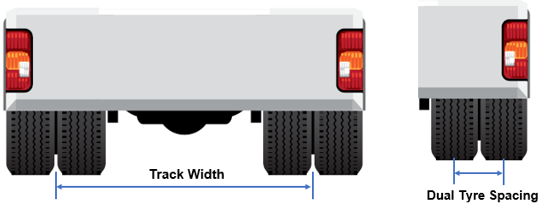
|  |  |  |  |
| --- | --- | --- | --- |
|  | **Drawbar Length** | **Fifth Wheel Offset** | **Fifth Wheel Height** |
| **Required** |  |  |  |
| **Actual** |  |  |  |



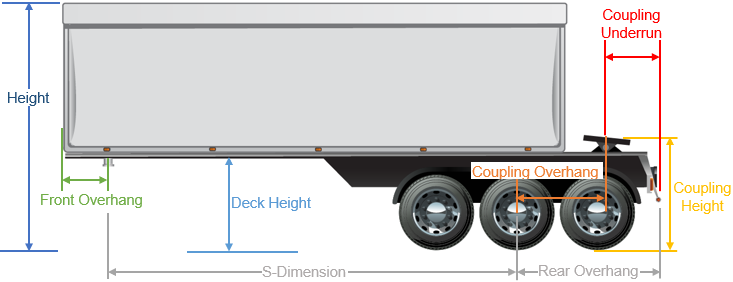
|  |  |  |  |
| --- | --- | --- | --- |
|  | **Axle 1-2** | **Axle 2-3** | **Axle 3-4** |
| **Required** |  |  |  |
| **Actual** |  |  |  |



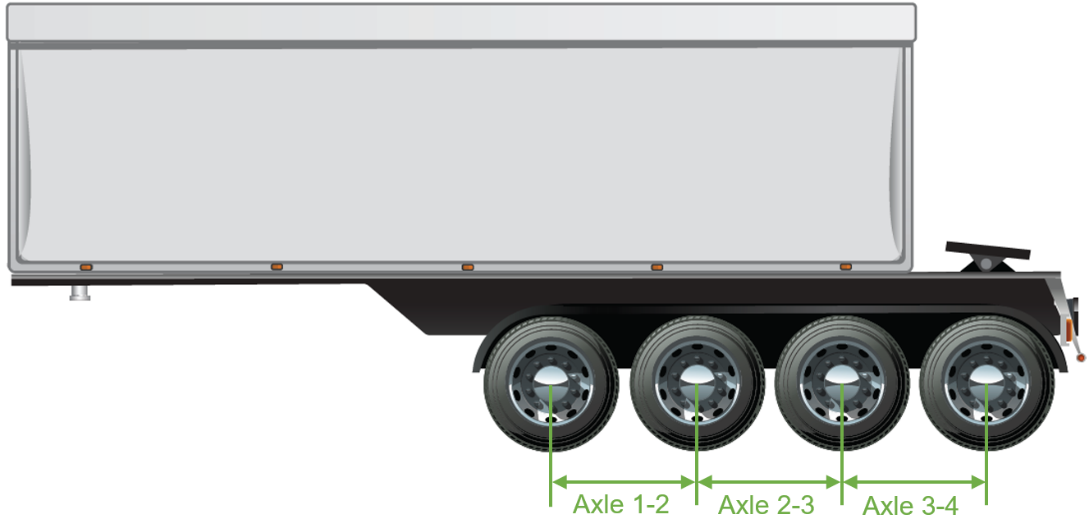
|  |  |  |
| --- | --- | --- |
|  | **Dual Tyre Spacing** | **Track Width** |
| **Required** |  |  |
| **Actual** |  |  |



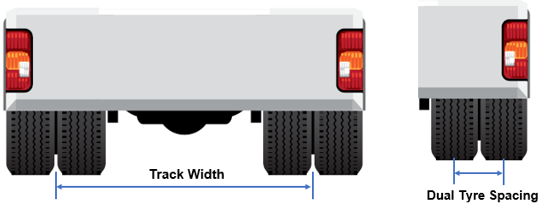
|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Front Overhang** | **S-Dimension** | **Rear Overhang** | **Coupling Overhang** | **Coupling Underrun** | **Coupling Height** | **Deck Height** | **Height** |
| **Required** |  |  |  |  |  |  |  |  |
| **Actual** |  |  |  |  |  |  |  |  |



|  |  |  |  |
| --- | --- | --- | --- |
|  | **Axle 1-2** | **Axle 2-3** | **Axle 3-4** |
| **Required** |  |  |  |
| **Actual** |  |  |  |



|  |  |  |
| --- | --- | --- |
|  | **Dual Tyre Spacing** | **Track Width** |
| **Required** |  |  |
| **Actual** |  |  |



## Combination:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Cab to Kin Pin** | **Inner 1-2** | **Inner 2-3** | **Inner 3-4** | **Inner 4-5** | **Inner 5-6** | **Inner 6-7** | **Inner 7-8** | **Overall Length** |
| **Required** |  |  |  |  |  |  |  |  |  |
| **Actual** |  |  |  |  |  |  |  |  |  |
|  |  | **Outer 1-2** | **Outer 2-3** | **Outer 3-4** | **Outer 4-5** | **Outer 5-6** | **Outer 6-7** | **Outer 7-8** |  |
| **Required** |  |  |  |  |  |  |  |  |  |
| **Actual** |  |  |  |  |  |  |  |  |  |

