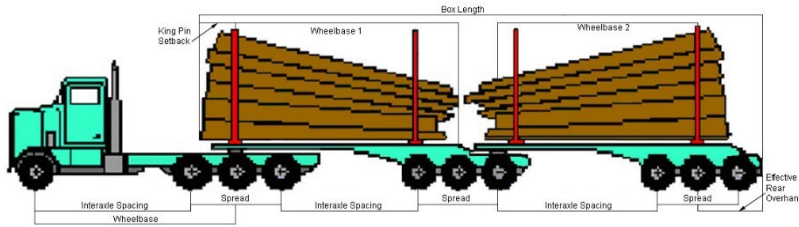


# Tridem Drive 10 Axle B-Train Regulation Summary

## Part 1 – Dimension Limits



### DIMENSION LIMIT

Overall Length	Maximum 26.0 metres
Overall Width	Maximum 2.6 metres
Overall Height	Maximum 4.15 metres
Box Length	Maximum 20.0 metres
<b>Tractor</b>	
Wheelbase	Minimum 6.6 metres / Maximum 6.8 metres
Tridem Axle Spread	Maximum 2.8 metres
<b>Tridem Axle Semi – Trailer (Front)</b>	
Length	Maximum 16.2 metres
King Pin Setback	Maximum 2.0 metres
Wheelbase 1	Minimum 6.25 metres / Maximum 12.5 metres
Tridem Axle Spread	Minimum 2.4 metres / Maximum 3.1 metres
Track Width	Minimum 2.5 metres / Maximum 2.6 metres
<b>Tridem Axle Semi – Trailer (Rear)</b>	
Length	Maximum 16.2 metres
King Pin Setback	Maximum 2.0 metres
Wheelbase 2	Minimum 6.25 metres / Maximum 12.5 metres
Tridem Axle Spread	Minimum 2.4 metres / Maximum 3.1 metres
Track Width	Minimum 2.5 metres / Maximum 2.6 metres
Effective Rear Overhang	Maximum 35% of trailer wheelbase
<b>Interaxle Spacings</b>	
Single Steer to Tridem Axle	Minimum 3.0 metres
Tridem Axle to Tridem Axle	Minimum 5.5 metres

## Definitions as per [Commercial Vehicle Dimension and Weight Regulation AR315/2002](#)

### Effective rear overhang

The longitudinal distance from the turn centre of the rear axle group of a commercial vehicle to the rearmost point of:

- (i) the vehicle, or
- (ii) the load on the vehicle,

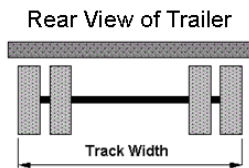
whichever is the greater distance

### Kingpin setback

The longitudinal distance from the centre of the kingpin to the front of the semi-trailer or the load, whichever is further forward, excluding any auxiliary equipment attached to the front of the semitrailer that is not designed for the transportation of goods.

### Track Width

The overall width of an axle measured from the outside of the outside tire located on one side of the vehicle to the outside of the outside tire located on that axle on the other side of the vehicle at any point above the lowest point of the rim



### Trailer Wheelbase

The longitudinal distance from the centre of the kingpin on a semi-trailer, the centre of the turntable on a full trailer or the centre of the hitch device on a pony trailer, to the trailer turn centre.

### Tridem axle group

An axle group, on a trailer, consisting of any 3 consecutive axles of a vehicle where the axles are evenly spaced over a distance of not less than 2.4 metres and not greater than 3.7 metres.

### Tridem drive axle group

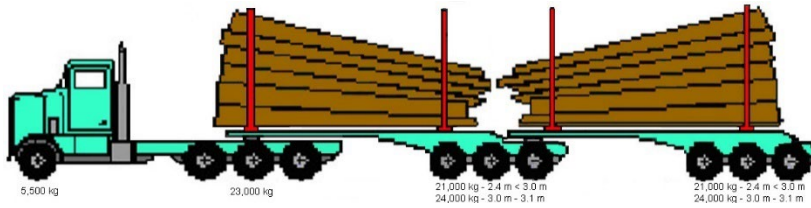
A driving axle group n axle group, on a truck or truck tractor, consisting of 3 driving axles:

- (i) equally spaced
- (ii) with a track width of between 2.5 metres and 2.6 metres,
- (iii) on a common suspension designed to equalize the weight between the axles,
- (iv) with a minimum of 12 tires, and,
- (v) with all tires of the same size and a minimum width of 255 millimetres, as determined by the manufacturer's width shown on the tire, but does not include a lift axle or a self steering axle

### Truck Tractor Wheelbase

The longitudinal distance from the centre of the steering axle or twin steer axle group located on a truck tractor to the turn centre.

## Part 2 – Weight Limits



### WEIGHT LIMITS

Steering Axle	Maximum 7,300 kg <b>Steering Axle must have a minimum weight of 27% of the drive axle weight at all times</b>
Tridem Drive Axle – Dual tires	Maximum 23,000 kg Carrier must have a valid tridem drive permit otherwise weight is limited to 17,000 kg
<b>Tridem Trailer Axle – Dual tires</b>	
Dual tires with axle spread from 2.4 m to less than 3.0 m	Maximum 21,000 kg
Dual tires with axle spread from 3.0 m to 3.1 metres	Maximum 24,000 kg
<b>Gross Vehicle Weight Limits</b>	63,500 kg subject to minimum interaxle spacing.

A 10 axle b-train logging truck is a regulated vehicle. Gross Vehicle Weight (GVW) cannot exceed 63,500 kg.

An annual equipment exemption permit (ANEX) may be available to allow a 10 axle b-train to maximize regulated axle weights and exceed 63,500 kg GVW.

Log trucks must operate with a monthly licensing (MOLICLOG) permit for the increased weight the ANEX allows, to be valid. The permitted weight on the monthly licensing permit is set at 78,300 kg.

Prior to issuance of these permits, a carrier must undergo a safety review and be approved by Alberta Transportation and Economic Corridors. Contact the Central Permit Office at 1 800 662-7138 or [central.permits@gov.ab.ca](mailto:central.permits@gov.ab.ca) for further information.

The application form is available at [Permit Application Form for the Operation of Quad Axle Semi-Trailer OR 9/10 Axle B-Train \(alberta.ca\)](#)

A copy of the attached permit conditions to allow the operation of these vehicles at weights exceeding 63,500 kg is available at the following link: [10 Axle B-Train – Winter Weight \(alberta.ca\)](#)

A copy of the attached conditions for this annual exemption permit is available for viewing at [10 Axle Equipment Exemption Permit Conditions | Alberta.ca](#)

To qualify for weights exceeding 65,000 kg, all trailers used in a 10 Axle B-Train configuration require a minimum track width of 2.9 metres and a minimum bunk width of 3.05 metres.

Trailers built prior to October 1, 2013, may exceed 65,000 kg using a minimum track width of 2.74 metres.

**Note:** All axle weights are subject to minimum tire size. (Chart below)

Maximum steering axle weight as per [Commercial Dimension and Weight Regulation AR 315/2002](#)

- 9(1)** Subject to section 62 of the Act and section 12(1) of this Regulation, no person shall operate a commercial vehicle on a highway when
- (a) the gross weight on a tire exceeds the smallest of the following:
    - (i) 3,650 kilograms;
    - (ii) the capacity determined by multiplying the cross section dimension of the tire in millimetres, as determined by the manufacturer's width shown on the tire, by 10 kilograms;
  - (b) the gross weight on
    - (i) a steering axle exceeds
      - (A) in the case of a truck tractor, 5,500 kilograms;
      - (B) in the case of a truck, bus, picker truck, bed, truck or winch truck, 7,300 kilograms.

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**STEERING AXLE TIRE WEIGHT CHART FOR TRUCKS**

ALLOWABLE STEERING AXLE WEIGHTS		ALLOWABLE STEERING AXLE WEIGHTS		PICKER STEERING WEIGHTS WITH ANNUAL PERMIT		
Tire Size	Single Steer	Tire Size	Single Steer	Tire Size	Tire Size	Single Steer
(inches)	Maximum Weight (kg)	(mm)	Maximum Weight (kg)	(inches)	(mm)	Maximum Weight (kg)
210	5, 100	285	5, 700			
211	5, 600	305	6, 100			
212	6, 100	315	6, 300			
213	6, 600	335	6, 700			
214	7, 100	365	7, 300			
215	7, 300	385	7, 300	215	385	7,700
216	7, 300	425	7, 300	216	425	8,500
218	7, 300	445	7, 300	218	445	9,100