

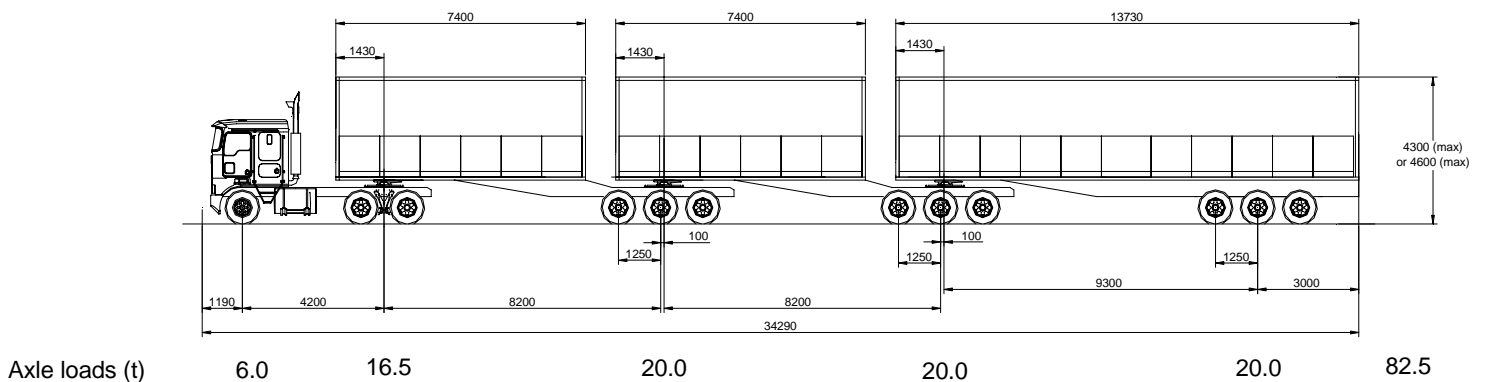


Blueprint B-triple specification sheet

This document provides specifications for a B-triple that is deemed to satisfy Level 3 Performance Based Standards requirements.

Unless otherwise specified in the conditions below, the vehicle combination must have the dimensions shown in Figure 1 (± 10 mm), and is limited to the axle loads shown in Figure 1.

Figure 1: Baseline B-triple dimensions and loads



Loading

- General Mass Limits (as per Figure 1).
- Loading type is general freight.
- Load may be mixed or constant density. If mixed density, heavy freight must be loaded on the bottom and light freight on top.
- Under an agreed Australian Transport Council reform, a steer axle load of 6.5 t is allowed for heavy vehicles featuring the latest safety equipment and Euro 4 engine technology.

Brakes

One of the following conditions must be satisfied:

- full brake compatibility and load proportioning on all axles and all component vehicles; or
- an acceptable form of ABS/EBS and automatic slack adjusters on all component vehicles; or
- an acceptable form of ABS/EBS and automatic slack adjusters on a prime mover and full brake compatibility and load proportioning on all trailer axles.

Tyres

- Must use either 11R22.5 or 295/80R22.5 tyres, at the manufacturer's recommended inflation pressures.

Trailers

- All trailer length dimensions must be as specified in Figure 1 (± 10 mm).
- The trailer width must not exceed 2.5 m.
- For a maximum overall height not more than 4.3 m, trailers must be fitted with suspensions having a total roll stiffness not less than 11,300 Nm/deg per axle.
- For a maximum overall height not more than 4.6 m, trailers must be fitted with suspensions having a total roll stiffness not less than 17,800 Nm/deg per axle.
- Tare mass of first and second trailers must be not less than 7 t each.
- Tare mass of third trailer must be not less than 8 t.

Prime mover

- Prime mover front overhang must not exceed 1.7 m.
- Prime mover width must not exceed 2.5 m.
- Prime mover wheelbase must be not more than 5.0 m and not less than 3.9 m.
- Drive group suspension total roll stiffness must be not less than 22,300 Nm/deg per axle.
- Equal share power divider must be fitted to distribute tractive force equally between the two drive axles.
- Peak engine power must be not less than 380 kW (510 hp).
- Peak engine torque must be not less than 1,406 Nm.
- Clutch engagement torque must be not less than 1,190 Nm.
- One of the following gearboxes and final drive ratio combinations must be fitted:

Gearbox	Minimum final drive ratio	Maximum final drive ratio
Eaton RTL 0918B	3.42	4.56
Mercedes Benz G330	4.10	4.56
SCANIA GRS905	3.07	4.56
Volvo ATxx12x	3.07	4.56