

Regulation Limits for Motor Vehicles and Trailers

Heavy Vehicle Registration Assessment Scheme (HVRAS)

To be registered, a heavy vehicle must comply with regulation limits unless the vehicle is the subject of an exemption issued by the National Heavy Vehicle Regulator (NHVR).

For prescribed dimension requirements for heavy vehicles, click [here](#) to refer to the *Heavy Vehicle (Mass Dimension and Loading) National Regulation Schedule 6*.

Axle configuration

A heavy vehicle, other than an articulated bus, must have only:

- a) one axle group, or a single axle, towards the front of the vehicle; and
- b) one axle group, or a single axle, towards the rear of the vehicle.

A **single axle** means one axle, or two axles less than one meter apart.

An **axle group** means a tandem axle group, twin-steer axle group, tri-axle group or quad-axle group.

A **tandem axle group** means a group of at least two axles with the outermost axles at least one meter, but not more than two meters apart.

A **twin steer axle group** means a group of two axles with single tyres, fitted to a motor vehicle and connected to the same steering mechanism with the axles at least one meter, but not more than two meters apart.

A **tri-axle group** means a group of at least three axles with the outermost axles more than two meters, but not more than 3.2 meters apart.

A **quad-axle group** means a group of four axles, with the outermost axles more than 3.2 meters, but not more than 4.9 meters apart.

Relation between axles in axle group

The axles in an axle group, other than a twin-steer axle group, must relate to each other through a load-sharing suspension system.

Load-sharing suspension

Load-sharing suspensions are designed so that each axle in a group carries the same load irrespective of the relative movement of the wheels.

Load-sharing suspension means an axle group suspension system:

- (a) built to divide the load between the tyres on the group so no tyre carries a mass more than 10 per cent above the mass it would carry if the load were divided equally; and
- (b) with effective damping characteristics on all axles of the group.

Not all load-sharing suspension is road friendly.

Contact us

Phone	13 23 80 (ask for the HVRAS Administrator) 1300 696 487 (ask for the Heavy Vehicle Standards Team)
Email	hvras@tmr.qld.gov.au (preferred contact method) vehiclestandards@tmr.qld.gov.au (light vehicle preferred contact method) vehiclestandards@nhvr.gov.au (heavy vehicle preferred contact method)
Website	www.tmr.qld.gov.au/hvras www.tmr.qld.gov.au/vehiclestandards www.nhvr.gov.au/vehiclestandards
Post	HVRAS Administrator Department of Transport and Main Roads PO Box 673 Fortitude Valley Qld 4006