

PERMIT POLICY MANUAL

SUBJECT: Infrastructure Equipment (Special Mobile)

POLICY NUMBER: 4.21

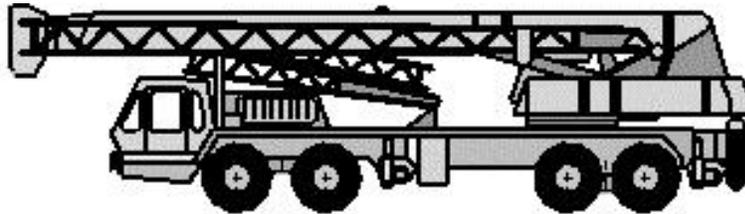
Intent: To permit the operation of a special mobile machine which may exceed the weights and dimensions prescribed in *Vehicle Weights and Dimensions on Classes of Highways Regulation 155/2018*.

Definition: A Infrastructure Equipment (formerly Special Mobile) is defined in the *Highway Traffic Act* as:

“infrastructure equipment” means a vehicle that is:

- (a) designed and used primarily for the purpose of constructing or repairing a highway, building or structure and operated on a highway only incidentally, or
- (b) operated on a highway for the purpose of grading, scraping, sweeping, cleaning, snow-clearing or otherwise maintaining the surface of a highway,

but excludes any vehicle designed primarily for the transport of passengers or cargo on a highway, even if an apparatus that may be used for the purpose of clause (a) or (b) is mounted on the vehicle



General Information:

- This policy applies to infrastructure equipment equipped with single tires on the steer axle (s) and dual tires on the drive axle (s). For infrastructure equipment units equipped with wide-based single tires (445 mm or greater), refer to policy, “Infrastructure Equipment – Wide Based Tires”.
- Infrastructure equipment (special mobile machines) are only permitted to tow boom dollies.

Maximum Dimensions:

Dimension (m)	Legal	Limit
Overall width	2.6	3.4
Overall length (includes boom dolly (s), front and rear projections.	12.5	25.0
Overall height	4.15	4.6
Front overhang	1.0	6.0
Rear effective overhang	4.0	5.0

Annual Permit Maximum:

Annual permits can be obtained for the following:

- Heavy steer axle units up to 9,100 kg for a single steer and up to 16,000 kg for a tandem steer;
- Gross vehicle weight of a single unit may not exceed 38,000 kg;

Maximum Weights:

The gross weights on steer axles cannot exceed the lesser of the following:

- 10 kg per mm width of tire;
- The manufacturer's rated capacity of the axle or of the tire;
- The gross axle or axle group weights indicated in the table below.

Axle	By permit	Legal		
		RTAC	A1	B1
Single steer	9,100 kg	7,300 kg		
Tandem steer	18,200 kg	13,600 kg	13,600 kg	11,000 kg

Maximum non-steer single axle weights – non-divisible loads

The gross weight on a non-steer single axle cannot exceed the lesser of the following:

- 10 kg per mm width of tire;
- The manufacturer's rated capacity of the axle or of the tire;
- The gross axle weights indicated in the table below.

Axle	By permit	Legal		
		RTAC	A1	B1
Single (Drive/Trailer Axles)	9,100 kg	9,100 kg	9,100 kg	8,200 kg

Maximum non-steer tandem and tridem axle weights – non-divisible loads

The gross weight on non-steer tandem and tridem axle groups cannot exceed the lesser of the following:

- 9 kg per mm width of tire;
- The manufacturer's rated capacity of the axle or of the tire;
- The gross axle group weights indicated in the table below.

Axle	By permit	Legal		
		RTAC	A1	B1
Tandem (Drive/Trailer Axles)	24,000 kg	17,000 kg	16,000 kg	14,500 kg
Tridem Drive Axles				
Axle spread $\geq 2.4\text{m}$ and $< 2.7\text{m}$	27,500 kg	21,000 kg	21,000 kg	20,000 kg
Axle spread $\geq 2.7\text{m}$ and $< 2.8\text{m}$	27,500 kg	22,000 kg	21,000 kg	20,000 kg
Tridem (Trailer Axles)				
Axle spread $\geq 2.4\text{m}$ and $< 3.0\text{m}$	27,500 kg	21,000 kg	21,000 kg	20,000 kg
Axle spread $\geq 3.0\text{m}$ and $< 3.6\text{m}$	27,500 kg	23,000 kg	23,000 kg	20,000 kg
Axle spread $\geq 3.6\text{m}$ and $< 3.7\text{m}$	27,500 kg	24,000 kg	23,000 kg	20,000 kg

Tandem steer axles exceeding 16,000 kg require engineering approval.

Tandem drive units exceeding 21,960 kg may be permitted subject to appropriate approvals.

All units exceeding 38,000 kg GVW require engineering approval.

During the Period of Spring Road Restrictions, the allowable axle (or axle group) weight on unrestricted highways is limited to the legal maximum axle weight for the road class as prescribed in MR 155/2018, Schedule D. Refer to Spring Road Restriction Steer Axle Exception Policy.

Conditions:

- Where equipment specifications are not explicitly addressed in this policy, it is deemed that the equipment must meet applicable federal or provincial safety standards.
- Weights and dimensions which are not specifically identified in this policy must comply with the applicable provincial Acts and Regulations.
- Vehicle must comply with all weight and/or other restrictions in place and must comply with all posted bridge weight restrictions.
- Infrastructure equipment (special mobiles) must comply with all lighting requirements as indicated in *The Vehicle Equipment, Safety and Inspection Regulation 31/2019* as well as those indicated below.
- The Gross Vehicle Weight (GVW) of an infrastructure equipment unit (special mobile machine) may not exceed the gross axle weight rating (GAWR).
- Infrastructure equipment (special mobiles) and combination of boom dollies may not exceed the GVW as prescribed in *Vehicle Weights and Dimensions on Classes of Highways Regulation 155/2018*.
- The GVW prescribed on a permit may not be exceeded with the addition of other features such as counter weights.

Rear Effective Overhang:

These standard conditions apply to rear effective overhangs even if the vehicle does not exceed legal length.

Exceeding (metres)		When	Highway	Conditions
1.0 (from the rear of the vehicle)	Day		All	Red flag required on the rear extremity from one-half hour after sunrise to one-half hour before sunset.
	Night		All	Red clearance light required on the rear extremity beginning one-half hour before sunset and ending one-half hour after sunrise.
6.5		Always	Provincial	Rear pilot required.
9.0	Day		Provincial	Front and rear pilot vehicle required.
	Night		Provincial	No travel allowed.

Front Projections:

These standard conditions apply to front projections even if the vehicle does not exceed legal length.

Exceeding (metres)	When	Highway	Conditions
1.0 (from front bumper or front wheels, if no bumper)	Night	All	Amber clearance light or reflector required on the sides of the front extremity beginning one-half hour before sunset and ending one-half hour after sunrise.
3.0 (from the king pin setback)	Always	Provincial All	Front pilot vehicle is required.
6.0 (from the turn centre of the steer axle)	Always	Provincial All	Front pilot vehicle is required.

(Reference: Vehicle Weights and Dimensions Standard 4.21, the Highway Traffic Act, H60 The Vehicle Equipment, Safety and Inspection Regulation 31/2019)

Date: June 12, 2019