

The Siemens logo, consisting of the word "SIEMENS" in a bold, blue, sans-serif font.

Ingenuity for life

A photograph of a Siemens Muni LRV4 High-Floor Light Rail Vehicle. The vehicle is white with a prominent red stripe running along its side. It has large windows and a modern, aerodynamic design. The number "2002B" is visible on the side and front. The vehicle is parked on a light rail track with overhead power lines and a station platform in the background.

Muni LRV4 High-Floor Light Rail Vehicle

San Francisco, California

Connecting San Francisco's unique neighborhoods, Siemens' latest technology in high-floor vehicles make travel easy, reliable and accessible. With the capability to accommodate high and low boarding and operate in multiple vehicle consists, the Muni LRV4 is there to help connect the great places throughout San Francisco. This vehicle is a hybrid creation, combining the best elements from both of our successful high-floor and low-floor light rail platforms – which have over 1,300 units currently in operation performing at high reliability. With an environmentally-friendly focus, the vehicles have utilized a strong lightweight design to ensure low energy consumption and minimum operating costs.

A steel carbody construction, fully bi-directional, double articulated, low-floor vehicle, ideal for street-level operation and built in North America. Each six-axle light rail vehicle is equipped with two power trucks (one under each end) and a non-powered center truck.

To provide operators a safe and comfortable work environment the

operators cab features large side windows. The Muni LRV4 features a wrap-around console for improved ergonomics and an operator's seat positioned on the vehicle's centerline for increased visibility. A full-width polycarbonate transparent cab provides

over 300° of visibility for the operator and enhanced safety and protection for the pedestrians and cyclists.

This vehicle is especially energy-efficient. The light-weight drive system recuperates braking energy, and the electro dynamic

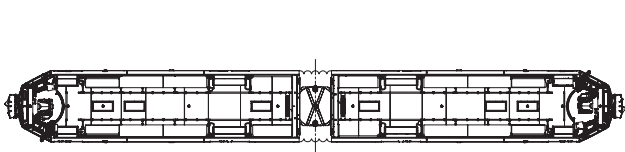
Performance and Capacity

Maximum operational speed	50 mph	80.5 km/h
Maximum allowable speed	55 mph	88.5 km/h
Service acceleration	3.0 mph/s	1.34 m/s ²
Service deceleration	3.5 mph/s	1.56 m/s ²
Emergency braking rate	5.0 mph/s	2.24 m/s ²
Passenger capacity	60 seats Approx. 193 total passengers @ 6 p/m ² 4 wheelchair spaces	
Maximum operational gradient	10%	
Motor power rating	174 hp x 4	130 kW x 4
Catenary supply voltage	600 Vdc	

braking to zero-speed reduces brake pad usage and life cycle cost. The LED lighting system uses up to 40 percent less electricity than standard incandescent and fluorescent lighting. And the smart HVAC controls save energy and reduce operating costs.

The Muni LRV4 utilizes an advanced passenger information system consisting of operator and automated announcements, passenger-operator intercoms, electronic destination signs; and a surveillance system for increased passenger safety.

Each LRV is electrically powered from an overhead catenary system (OCS) and for San Francisco operates at speeds up to 50 mph, carrying close to 192 passengers in each vehicle with the ability to operate in multiple vehicle consists (up to four). These light rail vehicles remove automobiles off the road in turn helping cities decrease their CO2 emissions.



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Vehicle Dimensions and Weight

Length over coupler	75 ft	22860 mm
Width	104.32 in	2650 mm
Height with pantograph (locked down)	11 ft 6 in	3505 mm
Maximum pantograph height	up to 19 ft	5791 mm
Vehicle empty weight	76000 lbs (AW0)	34473 kg
Entrance height	34 in	864 mm
Minimum turning radius	42 ft 7 in	13 m
Vertical curve, crest	310 ft	94.5 m
Vertical curve, sag	460 ft	140.2 m
Track gauge	4.7 ft	1435 mm
Wheel base	6.2 ft (power trucks)	1900 mm (power trucks)
	6.2 ft (center truck)	1900 mm (center truck)