SIEMENS

S70 Streetcar

Rail Systems

The interior of this S70 streetcar has been designed to maximize passenger space, incorporating a predominately knee-to-back seating arrangement. Each S70 Streetcar is equipped with eight (8) wide opening sliding plug doors all located in the low floor area, with four (4) to each side of the vehicle. The door spacing has been optimized to allow for greater passenger flow entering and exiting the vehicle, which ultimately decreases the station dwell times.

In addition to the maximized passenger space and wide doorways the vehicle is also equipped with four designated wheelchair spaces allowing for priority seating to disabled passengers and hydraulic height control system to permit level boarding and exiting of the vehicle.

To maximize passenger comfort each vehicle is equipped with two roof-mounted HVAC units per LRV.

Siemens is gearing up to bring streetcars to a city near you. Siemens' first U.S. built S70 streetcar is based on the service proven 70% low floor light rail vehicle platform. With a focus on being environmentally friendly, easy boarding and stimulating the economy, the streetcar is the key to increasing urban mobility in your city.

A steel carbody construction; fully bi-directional; double articulated; 70% low floor vehicle, ideal for street-level operation and built in the USA. Each six-axle S70 Streetcar is equipped with two power trucks (one under each end) and a non-powered center truck.

Performance and Capacity

Maximum operational speed	35 mph	56 km/h
Service acceleration and deceleration	3.0 mphps	1.34 m/s²
Emergency braking rate	4.8 mphps	2.25 m/s²
Passenger capacity	60 seats	
	Approx. 195 total passengers @ 6 p/m²	
	4 wheelchair spaces	
Maximum operational gradient	7%	
Motor power rating	174 hp x 4	130 kW x 4
Catenary supply voltage	750 Vdc	

The S70 Streetcar utilizes a passenger information system consisting of operator and automated announcements, passenger-operator intercoms and interior and exterior electronic destination signs, as well as interior and exterior surveillance system for increased passenger safety.

The S70 Streetcar is electrically powered from an overhead wire system (catenary) and operates at speeds up to 35 mph. Carrying upwards of 194 passengers in each vehicle and the ability to operate in multiple vehicle consists up to four (4). The S70 Streetcar has the capability of removing in excess of 770 automobiles off the road in turn helping cities decrease their CO_2 emissions.

The United Nations, in a study on World Urbanization, has stated that the population living in urban areas is projected to increase 2.9 billion by 2050. Our unique environmental portfolio makes Siemens the perfect partner for your cities' sustainable urban development.

United Nations Department of Economic and Social Affairs/Population Division vii World Urbanization Prospects: The 2009 Revision

Vehicle Dimensions and Weight

Length over anticlimbers:	79.1 ft	24110 mm
Width:	8.7 ft	2654 mm
Height with pantograph (locked down):	12.6 ft	3840 mm
Maximum pantograph height:	up to 23 ft	7000 mm
Vehicle empty weight:	96,500 lbs (AW0)	43700 kg
Floor height above TOR:	3.2 ft	985 mm
Low floor section above TOR:	1.2 ft	356 mm
Minimum turning radius (standard):	82 ft	25 m
Minimum turning radius (option):	59 ft	18 m
Vertical curve, crest:	1150 ft	350 m
Vertical curve, sag:	820 ft	250 m
Track gauge:	4.7 ft	1435 mm
Wheel base:	6.2 ft (power trucks)	1900 mm (power trucks)
	5.9 ft (center truck)	1800 mm (center truck)

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