



ATLANTA, GEORGIA

S70 Streetcar

For the first time since 1949, Atlanta revitalized their streetcar project with a 2.62 mile system running along the streets of the downtown area. Atlanta's streetcar system marks the inauguration of Siemens Mobility's first U.S. built S70 Streetcar based on the service proven 70% low-floor light rail vehicle platform. With a fleet of four vehicles, these streetcars are complementary elements of the City's Connect Atlanta Plan to increase urban mobility, sustainable development and livability of the city of Atlanta.

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

The interior of this streetcar has been designed to maximize passenger space, incorporating wide doorways and a predominately knee-to-back seating arrangement.

Each S70 Streetcar is equipped with eight wide opening sliding plug doors all located in the low-floor area, with four to each side of the vehicle. 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.

The door spacing has been optimized to allow for greater passenger flow entering and exiting the vehicle, which ultimately decreases the station dwell times.

Performance and Capacity

Maximum operational speed	35 mph	56 km/h
Service acceleration and deceleration	3.0 mph/s	1.34 m/s ²
Emergency braking rate	5.0 mph/s	2.24 m/s ²
Passenger capacity	60 seats 150 Passengers @ AW2 235 Passengers @ AW4 4 wheelchair spaces	
Maximum operational gradient	7%	
Motor power rating	174 hp x 4	130 kW x 4
Catenary supply voltage	750 Vdc	

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

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

Each streetcar is electrically powered from an overhead catenary system (OCS) and for Atlanta operates at speeds up to 35 mph while carrying up to 195 passengers in each vehicle. These streetcars remove automobiles off the road, in turn helping cities decrease their CO2 emissions.



Vehicle Dimensions and Weight

Length over anticlimbers	79.1 ft	24110 mm
Width	8.7 ft	2650 mm
Height with pantograph (locked down)	12.6 ft	3840 mm
Maximum pantograph height (up to)	23 ft	7010 mm
Vehicle empty weight	96,500 lbs	43700 kg
High-floor section above TOR	2.2 ft (with 1 step plus slight ramp)	670 mm
Low-floor section above TOR	1.2 ft (threshold)	356 mm (threshold)
Minimum turning radius (standard)	82 ft	25 m
Minimum turning radius (option)	59 ft	18 m
Vertical curve, crest	820 ft	250 m
Vertical curve, sag	1,150 ft	350 m
Track gauge	4.7 ft	1435 mm
Wheel base (power trucks)	6.2 ft	1900 mm
(center truck)	5.9 ft	1800 mm



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