

SPECIFICATIONS FOR RAPID TRANSIT CARS

SECTION 2

GENERAL DIMENSIONS

2.01 General

(a) The general dimensions as listed below will obtain with the understanding that the Builder will furnish general outline drawings, having all necessary dimensions, so that clearances may be checked by the Railroad before construction is started.

2.02 Dimensions and Design Considerations

(a) Dimensions of a single car unit are as follows:

Length over Coupling Faces	51' 3"
Length over Anti-Climbers at center line	51' 0"
Width over Side Posts	8' 7 $\frac{1}{2}$ "
Width over Thresholds	8' 10 $\frac{1}{2}$ "
Width at Laves	8' 7"
Height - Rail to top of Floor, New wheels, $\frac{1}{4}$ " settlement of springs	3' 9 3/8"
Height - Rail to Top of Floor, Worn wheels, 22,800 lb. passenger load	3' 6 3/8"
Height - Rail to Top of Roof New Wheels, $\frac{1}{4}$ " settlement of springs	11' 8 $\frac{1}{2}$ "
Height - Rail to Center Line of Coupler New Wheels, $\frac{1}{4}$ " settlement of springs	2' 4 $\frac{1}{2}$ "
Height - Rail to Top of Anti-Climber New Wheels, $\frac{1}{4}$ " settlement of springs	3' 8"
Height of door opening over floor	Minimum 6' 4"

Distance - Center to Center of Tracks

33' 0"

(b) Cars must be designed to negotiate curves in accordance with followings:

Shortest lateral radius at center line of track	90'
Maximum super elevation	4"
Radius of shortest reverse curve at center line of track	299.22'
Tangent between reverse curves	8.67'
Radius of shortest vertical curve	900'
Track Gauge	4' 8 $\frac{1}{2}$ "
Wheel Gauge	4' 7 $\frac{11}{16}$ "
Heights of Guard Rail above Running Rail - Max.	1"

(c) Clearances to fixed objects must be in accordance with Railroad Drawing No. 3181, Sheet F-61, and Drawing No. 2398-BU 13.

(d) Cars shall afford ample clearance with reference to equipment and right-of-way when operated at maximum scheduled speed, maximum operating conditions, train length and wear limits.

2.03 Weights

(a) Equipment shall be so arranged that the weight on each end of the car shall be approximately equal, insofar as practicable.

(b) With respect to two-car units, the equipment shall be arranged, insofar as practicable, so that the weight of each car of the unit shall be approximately equal.

(c) Builder shall furnish data relative to weight of the principal component parts or assemblies; total car weight and weight per axle.