

*****Draft*****

Proposed Alterations to 2010 AALS Standards Code

Carriages

The essence of the change is to:

1. Remove the provision for carrying public passengers on 3.5" gauge.
2. Change the carriage dimensions to be general and typical, and consistent.
3. Ensure design goals required for safety are included but without prejudicing any specific design.

Proposed Changes

Delete the following:

6.3 89mm (3½") Gauge Straddle Type Public Passenger Carriages

6.3.1 Carriages utilised for carrying public passengers on 89mm (3½") gauge railways shall:

6.3.1.1 Seat no more than three adults including driver.

6.3.1.2 Be fitted with full length side guards between seat and foot boards to prevent passenger contact with track and running equipment.

6.3.2 Carriages utilised for carrying public passengers on 89mm (3½") gauge railways should not exceed 1220mm (4'-0") in length.

Insert in Lieu:

6.3 Common Requirements for Public Passenger Carriages

6.3.1 Carriages utilised for carrying public passengers shall:

6.3.1.1 Be of the bogie type

6.3.1.2 Incorporate end boards to prevent passengers riding across two cars, or slipping endways off the car;

6.3.1.3 Incorporate full length footboards on straddle type cars.

6.3.1.4 Have full length guards provided to prevent passenger contact with track or running equipment.

6.3.1.5 Have a place for persons at the ends of the car to hold on.

6.3.1.6 Incorporate a suspension arrangement that ensures the vertical forces act within the wheel gauge.

6.3.1.7 Be a minimum of 127mm (5 inch) gauge

6.3.1.8 Consider the potential for overturning given the gauge, mass and width of the vehicle.

6.3.1.9 Be consistent with the track structure (including loading) and structure gauge of the railway.

6.3.1.10 If upturned edges are to be provided on running boards, consider whether the increase in footboard width to comfortably accept a foot and the design does not increase any overturning or other hazard. Upturned edges shall not exceed 100mm high..

6.3.1.11 Incorporate buffers or other protection to prevent carriages potentially jamming hands if derailed,

6.3.1.12 Have no places where hands / arms /legs can be trapped.

The following paragraphs 6.4 and 6.5 be deleted:

6.4 127mm (5") Gauge Straddle Type Public Passenger Carriages

6.4.1 Carriages utilised for carrying public passengers on 127mm (5") gauge railways shall:

6.4.1.1 Have foot boards 100 -115mm (4" - 4½") wide and the full length of the carriage.

6.4.1.2 Have end boards 100mm (4") high minimum, to ensure that passengers place their feet on the carriage on which they ride.

6.4.1.3 Have full length side guards provided between seat and foot boards to prevent passenger contact with track and running equipment.

6.4.2 Carriages utilised for carrying public passengers on 127mm (5") gauge railways should:

6.4.2.1 Be 1520-1830mm (5' - 6') long, bogie type.

6.4.2.2 Seat no more than five adults.

6.4.2.3 Have seat boards 250 - 300mm (10" - 12") wide.

6.4.2.4 Have Hand rails 100 - 150mm (4" - 6") high should be provided at each end of the carriage.

6.4.2.5 Have seats (on ground level rolling stock) 180 -250mm (7" - 10") above the foot boards.

6.5 187mm (7¼") Gauge Straddle Type Public Passenger Carriages

6.5.1 Carriages utilised for carrying public passengers on 184mm (7¼") gauge railways shall:

6.5.1.1 Have enclosed sides and/or floor to prevent passenger contact with track and running equipment.

6.5.2 Carriages utilised for carrying public passengers on 184mm (7¼") gauge railways should:

6.5.2.1 Be 2440-3660mm (8' - 12') long bogie type to seat 7 to 11 Adults.

6.5.2.2 Have seat boards 200 - 250mm (8" - 10") wide and approx 200mm (8") above foot boards.

6.5.2.3 Have foot boards 100 - 115mm (4" - 4½") wide which extend the full length of the carriage

6.5.2.4 Have end boards to ensure feet are placed on the carriage on which the passenger rides.

6.5.2.5 Have hand holds on both end boards approx 50mm (2") above seat board.

Insert new sections 6.4 and 6.5 as follows:

6.4 127mm (5") Gauge Straddle Type Public Passenger Carriages

6.4.1 Straddle type carriages utilised for carrying public passengers on 127mm (5") gauge railways

typically have the following characteristics :

- 6.4.1.1 Length 1520-1830mm (5' - 6') long,
- 6.4.1.2 Seat boards 250-300mm (10"-12") wide
- 6.4.1.3. Seat Height 180-250mm (7"-10") above footboards (ground level rolling stock)
- 6.4.1.4 Foot boards 100 -115mm (4" - 4½") wide Seat 5 adults maximum
- 6.4.1.5 . End boards 100mm (4") high minimum above the seat
- 6.4.1.6 . Hand holds approximately 50-150mm (2"-6") above the seat

6.5 184mm (7¼") Gauge Public Passenger Carriages

6.5.1 Carriages utilised for carrying public passengers on 184mm (7¼") gauge railways typically have the following characteristics :

- 6.5.1.1 Length 1830mm-2500mm (6'-8') long bogie type to seat 4 to 7 Adults.
- 6.5.1.2 Seat boards 250 - 300mm (10" - 12")
- 6.5.1.3 Seat Height 250-300mm (10"-12") above foot boards.
- 6.5.1.4 Foot board width 100 - 150mm (4" - 6")
- 6.5.1.5 End Boards 100mm (4") high above the seat
- 6.5.1.6 Hand holds approx 50mm -150mm (2"-6") above the seat
- 6.5.1.7 May be of the straddle or sit in type.

Draft for comment.
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