

US Access Board Rail Vehicle Access Advisory Committee Recommendations

Presented
To
PRIIA Next Generation Equipment Committee
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Overview

- RVAAC Background
- Review of proposed guidance for improved accessibility on intercity rail vehicles
 - Boarding and Alighting
 - On-board Circulation
 - Communication
 - Rooms and Spaces
- Summary

RVAAC Background

- US Access Board established the Rail Vehicle Access Advisory Committee in 2013
 - Develop consensus recommendations for the Board’s use in updating sections of the ADA guidelines that cover vehicles of fixed guide-way systems, including rapid, light, commuter, intercity, and high speed rail.
 - Four Subcommittees
 - Boarding and Alighting
 - On-Board Circulation and Seating
 - Communications
 - Rooms and Spaces

Boarding and Alighting

	RVAAC	PRIIA Single/Bi-level
<u>Gap Requirements</u>	Carborne lift, ramp or bridgeplate is required if either or both conditions apply: (i) the horizontal gap between the boarding platform and the vehicle floor <u>exceeds 2 inches</u> (ii) the vertical difference between the boarding platform height and the vehicle floor <u>exceeds plus or minus 5/8 inches.</u>	Bridgeplate with design load of 800 pounds
Carborne Lift Design Load	800 pounds minimum.	800 pounds minimum
Carborne Lift Platform	32 inches x 54 inches • measured up to 40 inches above platform surface	30 inches x 54 inches

On-Board Circulation and Seating

	RVAAC	PRIIA Single/Bi-level
Doorway Width Exterior	32 inches (min)	32 inches (min)
Doorway Width Between Cars	32 inches (min)	32 inches (min)
Route to Mobility Aid Seating Location, Clear Width	32 inches (min)	32 inches (min)
Vestibule Width	44 inches (min)	44 inches (min)
Accessible Space	32 inches x 54 inches/ 32 inches x 59 inches	32 inches x 59 inches
# Accessible Space	2	Single-level: 2/ Bi-level: 1

On-Board Circulation and Seating

	RVAAC	PRIIA Single/Bi-level
Maneuverability at accessible space	60 inches maneuvering circle	32 inches x 59 inches
Service Animal Space (inches)	14Wx38Lx16H	adjacent to accessible seat and can be under a double seat or other location but out of passage ways; References requirements in Canada 38"Lx14"x16"H
# Service Animal Space	2	Single-level: 2/Bi-level: 0
Emergency Evacuation	None	On-board emergency evacuation chairs for passenger who are using wheeled mobility devices

Communications

Whenever feasible, visual, tactile, induction loop, described video, electronic software, and other universally accessible means should be used

	RVAAC	PRIIA Single/Bi-level
Tactile & Visual Signs	<ul style="list-style-type: none">• Designations Signs for spaces (include exit sign) (e)• Non-emergency operational signs (including exit signs) (d)• Emergency informational signs	Informational signs shall be accessible in accordance with ANSI 117
Visual	<ul style="list-style-type: none">• Directional signs (including exit signs)• Non-emergency informational signs (b)• Emergency Operational Signs (1)• Caution and Safety signs (includes icons and logos)• Menus and directories (g)	

Communications

	RVAAC	PRIIA Single/Bi-level
Variable Message Sign/Audible	Stop Identification Signs (includes train designation, route, and final destination) (a)	Stop Info: current and next stop, transfers, schedules and emergency information in audio and visual formats
Call Button	None	<ul style="list-style-type: none">• Mushroom style• located forward of accessible seating location reachable by persons who remain in their mobility device or transfer into the accessible seat• should not require lifting of levers or covers to activate it.

Communications

RVAAC Notes

- (a) 1. All cars must provide variable message signs in two locations so that at least one sign is readable from every part of the car. The variable message signs must provide equal information as what is provided aurally.
 2. Where cars provide route map tracking signs in two locations so that at least one sign is audible and visible from every part of the car.
- (b), (c) Meet the size requirement for visual characters where practicable.
- (d) Where instructions for door latch/locks are provided they shall be both visual and tactile and be located _____. Where a pictogram is provided for these instructions a tactile description shall be provided directly adjacent to it.
- (e) The International Symbol of Access (ISA) shall be provided at required wheelchair spaces and priority seating and be located _____.
- (g) At least one menu or directory shall comply.

Communications

RVAAC Notes

- VMS announcements must be made available audibly and via assistive listening (induction loop) technology throughout the train
- VMS audible versions, stop announcements, and other audible announcements should be pre-recorded, high quality messages. Human announcements should be kept to a minimum. This is especially important with station stop announcements.
- Emergency notification announcements must be made available via back-up power
- Service animal relief area information should be made available wherever the ISA is placed.
- Visual emergency alerts (flashing fire alarms, etc.) in all parts of the rail cars recommended NFPA 72 requirements

Rooms and Spaces - Restroom

	RVAAC	PRIIA Single-Level
Turning Circle w/in restroom	60 inches	
Clear Floor Space	32 inches x 54 inches	Single-level: 35 inches x 60 inches clear space adjacent to toilet
Door	Powered	<ul style="list-style-type: none">• Powered• 32 inches clear opening for doors located on the end of the restroom• 39 inches for doors located on the side

Rooms and Spaces - Restroom

	RVAAC	PRIIA Single-Level
Grab Bars	Side and behind water closet; Foldable permitted	<ul style="list-style-type: none">• In addition to requirements of 49 CFR 38.123(a)(3)• provided on both sides of toilet• can be foldable• design load of 300 pounds each
Controls	Proximity sensor for faucet controls and soap dispenser	<ul style="list-style-type: none">• Automatic touchless controls for sink and toilet.• Regulated warm water temperature;• Sink reachable from toilet;• Toilet paper dispenser should be located between 7 and 9 inches from the front of the toilet and outlet should be between 15 and 36 inches from floor• Two Emergency call button in restroom

Rooms and Spaces – Dining Car

	RVAAC	PRIIA Single/Bi-level
Table Space	Space for 2 wheelchairs with transfer for 2	2 accessible space with footprint of 32" x 59"; at least 1 transfer seat
Table Top	34 inches (max)	34 inches (max)
Clearance under table	29 inches (min)	30 inches (max)
Clearance back seating position to table edge	17 inches (min)	
Width	32 inches	

Rooms and Spaces– Café/Lounge Car

	RVAAC	PRIIA Single/Bi-level
Table Space	Space for 2 wheelchairs with transfer for 2	<ul style="list-style-type: none"> • Single-level: 2 accessible seating area with foot print of 32" x 59" • At least one transfer space • Bi-level: 1 accessible space 32" x59"
Table Top	32 inches (max)	Single-level: 34 inches (max)
Clearance under table	29 inches (min)	Single-level: 30 inches (max)

- Bi-level lounge cars shall comply on the lower level.
- Bi-level lounge cars shall have direct access to station platforms on the lower level. Where vertical access is provided, accessible seating spaces shall also be provided on the upper level.
- Where a bi-level dining car is provided, an accessible bi-level lounge car shall be directly coupled to it.

Rooms and Spaces– Café/Lounge Car

	RVAAC	PRIIA Single/ Bi-level
Clearance between seat and table edge	17 inches (min)	
Accessible restroom		
Self-Serve	Meet Architectural Barriers Act/American with Disabilities Act (ABA/ADA) Guidelines for cafeteria	
Vending Machines	Meet ABA/ADA Guidelines for controls and operating mechanism	



Rooms and Spaces – Vertical Access on Bi-level Cars

RVAAC Notes

New intercity **bi-level** passenger trains have some means of transferring passengers using mobility aids, or who otherwise cannot negotiate stairs, between the levels.

- any bi-level car, with or without food service (except dining cars) that has non-revenue seating available to all passengers
- open platform observation areas that are accessible to passengers
- full service dining with a lower level kitchen that is not designed for passenger use are not required to have built-in vertical access.

Summary

- RVAAC is progress towards enhanced requirements for accessibility on rail vehicles
- Full RVAAC meeting will be held February 26-27, 2015 and April 23-24, 2015
 - US Access Board, 10th Fl Conference Room
1331 F Street, NW, Washington DC.
- Recommendations will be finalized and presented to US Access Board (tentatively schedule for July 2015)

Questions?

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Info on RVAAC can be found at

<http://www.access-board.gov/guidelines-and-standards/transportation/vehicles/rail-vehicles-access-advisory-committee>

and

<http://www.regulations.gov/#!docketDetail;D=ATBCB-2013-0006>