

AMTRAK ENGINEERING PRACTICES Structures Department Standard Design Practices (SDP)	Section 3 – Minimum Building Technical Requirements	EP4000
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Specialties

I. Signage

A. General

1. See the Amtrak Signage Standards linked in Section 2.00

II. Telephone Specialties

A. Emergency call box

1. Where supported by Amtrak Police or by local emergency response authorities, provide an emergency call box near the main platform access point.
 - a. Equipment minimum requirement shall be Type 3R unless environmental conditions require Type 4X.

III. Toilet Compartments

A. General

1. Toilet compartment partitions and urinal screens shall be heavy duty construction, and wall, floor and ceiling mounted.

B. Toilet Compartment Materials

1. Stainless steel
 - a. Minimum 22 gauge, reinforcement to be 12 gauge minimum.
2. Solid surface
3. Solid color reinforced composite (SCRC).
 - a. Minimum ¾" thickness.
4. Plastic laminate partitions will not be accepted.
5. Head-rails should be tubular or channel stainless steel.
6. Wall brackets to be cast socket type.
7. Where required, pilaster shoes are to be stainless steel, minimum 3 inches high.

C. Finish

1. Stainless steel shall be a satin finish.

D. Accessories

1. Attachments are to have tamper-proof, extra heavy-duty stainless-steel brackets with stainless steel screws and bolts.
2. Hinges shall be gravity type pivot hinges or continuous hinges (in heavy use toilet rooms), adjustable for door close positioning, door strike and keeper with rubber bumper.

E. Installation

1. Partitions shall be mounted to both the structure above and the floor below in strict compliance with the written instructions of the manufacturer.
 - a. Verify that the structure has the capacity to support all components and associated loads. Provide supplemental structure, if required to support ceiling-hung compartment panels.

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b. Where partitions are to be mounted to stud walls or joist framed ceiling, provide support as per 06 10 00 Rough Carpentry.

F. Warranty

1. Manufacturer supplied 25-year warranty against breakage, corrosion, and defects in factory workmanship.

IV. Toilet Accessories

A. General

1. All toilet room accessories shall be mounted as per ADA requirements.
2. Provide ADA required clearances and floor space at all toilet room fixtures and accessories.
3. Accessible elements are to be designed and installed within the maximum and minimum range for compliance, rather than precisely at the limits of maximum or minimum range for compliance. This is required to account properly for construction tolerances. Current experience is that invocation of construction tolerances is not accepted by federal inspectors to waive strictest compliance with ADA requirements.

B. Materials

1. All toilet room accessories shall be commercial grade and theft and vandal resistant.
2. All toilet room accessories shall be stainless steel, satin finish.

C. Accessories Schedule

Provide the following accessories and coordinate specific accessories with the building manager for site specific requirements for each room as indicated:

1. Men's Toilet Room

- a. Grab bars
 - i. Provide number and sizes as required by ADA and accessibility codes.
 - ii. Provide type with finished trim to conceal/protect mounting hardware.
- b. Electric air hand dryer
 - i. Provide number as required by applicable codes.
- c. Paper towel dispensers
 - i. Paper towel dispensers are to be used to service all restrooms only where electric hand dryers are NOT installed or preferred.
 - ii. Roll-towel units.
 - iii. Provide number as required by applicable codes.
 - iv. Coordinate paper towel dispenser's selection with Amtrak's product provider's requirements.
- d. Trash Disposal Units
 - i. Recessed or semi recessed.
 - ii. Provide 1 below or adjacent to each paper towel dispenser.
 - iii. Provide 1 adjacent to the baby changing station (if provided).
- e. Toilet Tissue Roll Dispenser
 - i. Provide minimum 1 per water closet.

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- f. Heavy duty apparel hook
 - i. Mount at inside face of doors and/or toilet partition doors.
 - ii. Provide 1 per water closet / toilet partition.
- g. Folding Baby Changing Table (where applicable)
 - i. Mount away from toilet room door and path of travel.
 - ii. Where feasible, mount within the wheelchair accessible toilet compartment.
- h. Mirror
 - i. Individually framed for ease of replacement with safety backing protective film.
 - ii. Provide 1 per Lavatory.
- i. Soap Dispensers
 - i. Provide 1 per lavatory.

2. Women's/Unisex Toilet Room

- a. Provide the accessories listed above for Men's toilet rooms in addition to those listed below.
- b. Sanitary-Napkin Dispenser Unit
 - i. Surface mounted; provide one per toilet room.
- c. Sanitary-Napkin Disposal Unit:
 - i. 1 lockable unit per water closet at women's and unisex toilets

3. Janitor's Closet

- a. Friction-type mounting brackets for mops, brooms, etc. on wall over receptor with shelf above.

D. Installation

- 1. Install fixtures, accessories, and items in accordance with manufacturer's instructions.**
 - a. Where accessories are installed at stud walls, provide support as per 06 10 00 Rough Carpentry or as required by accessory manufacturer.
 - b. Install plumb, level securely & rigidly anchored to substrate.

V. Fire Extinguisher Cabinets

1. General

- a. Mechanical and storage rooms
 - i. Bracket mounted.

2. All other locations:

- a. Recessed or semi-recessed solid cabinet, unlocked, with window made of polycarbonate or other plastic glazing to verify the presence of fire extinguisher.
 - i. Recessed cabinets should have a trimmed edge for a clean appearance and finish.
 - ii. Semi-recessed cabinets should be used where overall wall thickness is a concern. Careful consideration should be used when specifying semi-recessed and surface-mounted cabinets for meeting requirements of ADA.

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- iii. Where required, provide Fire-Rated Cabinets: Listed and labeled to comply with requirements in ASTM E 814 for fire-resistance rating of walls where they are installed.

VI. Fire Extinguishers

A. General

1. Fire extinguisher classification, sizes, types, and number of units per square foot of area shall be based on occupancy hazard protection and placement of fire extinguishers shall follow requirements of NFPA 10.
2. Coordinate fire extinguishers with existing Amtrak practice and suppliers.

VII. Lockers

A. General

1. Lockers shall be for Amtrak personnel only.
2. Lockers shall be heavy duty, with ventilated doors.
3. Locker design, size, width, and depth should be dependent on the operation it will be serving.
 - a. Typically for stations and most facilities a full size high (72" height, 12" wide, and 18" deep) locker is needed. This is usually for Amtrak employees where uniforms and exterior type clothing are used and stored.
 - b. Half-size lockers should be used only in areas where equipment or personal possessions may need to be stored.

B. Materials

1. Lockers shall be constructed from 16 ga. steel with 14 ga. doors with flanges to give double thickness of metal at corners and edges.
 - a. Factory applied baked enamel finish in standard color.

C. Accessories

1. Hardware and anchoring system shall be commercial grade.

D. Installation

1. Where lockers are to be installed at a stud framed wall, provide support as per 06 10 00 Rough Carpentry