



Station Toilet Facilities – Train System

Engineering Standard

Rail Commissioner

AR-PW-PM-SPE-00129008 (D067)

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1. Introduction

The Department of Infrastructure and Transport owns the Adelaide Metropolitan Passenger Rail Network (AMPRN) currently operated and maintained under the Rail Accreditation of a third party. There are approximately 89 train stations serving the AMPRN.

2. Purpose

The purpose of this standard is to specify the requirements for the design of toilet facilities at railway stations on the AMPRN. This standard should be read in conjunction with the remainder of the DIT Station Standards for the Train System, as listed in DIT Master Specification Part RW-STS-D1 Stations.

3. Scope

This standard applies to all new toilet facilities at DIT stations on the AMPRN.

4. References

- AS 1428 Design for Access and Mobility
- AS/NZS 1680.0 Interior lighting – safe movement
- AS 2700 Colour Standards for General Purpose
- AS 4586 Slip Resistance Classification of New Pedestrian Surface Materials
- HB 197 An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials
- National Construction Code (NCC)
- *AR-PW-PM-SPE-00129003 – Station Platforms – Train System – D062*
- *AR-PW-PM-SPE- 00129006- Station Pedestrian Access – Train System – D065*
- *AR-PW-PM-SPE-00129010 – Stations Signage and Pavement Marking – Train System – D070*

Legislative Requirements

- *Disability Standards for Accessible Public Transport (DSAPT)*

5. Acronyms

ACRONYM	FULL NAME
AMPRN	Adelaide Metropolitan Passenger Rail Network
NCC	National Construction Code
DIT	Department for Infrastructure and Transport
DSAPT	Design Standards for Accessible Public Transport

6. Design Requirements

6.1. General

Enhanced Amenity Stations shall be designed to incorporate a toilet facility. Any existing toilet facilities shall be decommissioned and replaced by a new toilet facility. Standard Amenity Stations may have a toilet facility. The toilet facilities shall at minimum be a single person, self-cleaning toilet.

6.2. Toilet Facility Features

The toilet facility shall have the following features:

1. stainless steel outer cladding – 2.5mm thick, Grade 316, No. 4 finish with a vertical grain;
2. graffiti resistant walls;
3. concealed operating components;
4. electromagnetic locking;
5. self-locking door and a timer indicating to the customers when the allotted time is about to end;
6. electronic sensor operated;
7. minimum illumination level of 200 lux in accordance with AS 1428.2 Clause 19.1 Lighting;
8. moisture resistant non-slip R10 flooring in accordance with AS 4586 and HB 197;
9. smoke detection;
10. emergency lighting;
11. seat wash unit;
12. automatic self-flushing (no touch) stainless steel toilet pan;
13. automatic self-cleaning wash cycle including fully disinfected and blown dry after each use;
14. automated self-wash cycle;
15. electronic sensor operated stainless steel combined basin, soap dispenser and hand dryer;
16. stainless steel hand rails;
17. stainless steel toilet paper dispenser;
18. sharps disposal;
19. sanitary disposal;
20. stainless steel fold down baby change table;
21. touch free sensor switches;
22. movement sensor;
23. voice message facility;
24. compliant signage including Braille;
25. hearing impaired indicator light;
26. audio speaker system for emergency announcements; and
27. remote monitoring capability.

6.3. Placement and Orientation

The toilet facility shall be located in a position that:

1. is adjacent to, or as near to the primary platform access point and in close proximity to major activity zones;
2. minimizes opportunities for climbing;

3. limits circulation behind the unit;
4. is clearly visible from the main entry and exit points of the station platform;
5. is clearly visible to the majority of customers;
6. is not near thick or high vegetation which would provide concealment opportunities and impedes sight lines;
7. permits easy access for maintenance;
8. provides clear vision of the majority of surrounding station areas and car parks;
and
9. is in close proximity to any overpass structure access i.e. stairs/ramps and lift.

6.3.1. Door Orientation

The door of the toilet facility shall be orientated so as to face:

1. public areas such as access paths, platforms, car parks or suitable areas with high usage; and
2. away from residential properties.

For an integrated bus/rail platform, the toilet facility door shall not face onto the track but instead open facing the bus interchange.

6.3.2. Toilet Facility Location

The toilet facility shall not compromise the circulation space or 3 m clear zone from the front of the platform, in accordance with AR-PW-PM-SPE-00129003 Platforms.

The toilet facility shall not be located under an overpass or a staircase.

For an at-level marginal platform, the toilet facility shall be set at the back of the platform on a purpose built support deck to maximise circulation space on the platform.

Stations with integrated bus/rail platforms shall have the toilet facility centrally located on the platform between the tracks and the bus stops.

For island platforms, the toilet facility shall not be located on the platform, but shall be located within another part of the station precinct, adjacent the access path and clearly visible from the platform.

For a grade separated platform where it is not possible to locate the toilet facility as detailed above, the toilet facility may be located at the ground level along the access path, provided it is centrally located to other station amenities and is clearly visible with good passive surveillance opportunities.

6.4. Accessibility

The toilet facility shall be accessible for all customers and shall meet the requirements of Disability Standards for Accessible Public Transport (DSAPT), National Construction Code (NCC), AS 1428.1 and AS 1428.2.

6.5. Structural Considerations

Structural assessments shall be undertaken using manufacturers supplied product details to establish loading requirements when locating toilet facilities on platforms.

6.6. Utility Services

The toilet facility shall have connections to electricity, water, sewer and communications for remote monitoring.

6.7. Access to / from Toilet Facility

An access path shall be provided in accordance with AR-PW-PM-SPE-00129006 Pedestrian Access from the door of the toilet facility to the primary access path.

6.8. Proximity Lighting

Lighting in the immediate proximity of the toilet facility shall be sufficient to allow people to access the facility in complete safety, under all lighting conditions and have no dark patches.

Lighting along the access path to the toilet facility shall be provided in accordance with CS5-DOC-003511 - Public Transport Standard: Electrical Infrastructure Engineering – Design.

6.9. Signage

Signs shall be provided in accordance with AR-PW-PM-SPE-00129010 Signage and Pavement Marking.

6.10. Installation

The toilet facility including foundations shall be installed in accordance with the manufacturer's instructions.

6.11. Maintenance

Maintenance shall include, but is not limited to, checking, repairing and adjusting the following items as necessary:

1. door opens and closes in the normal manner and backs off when obstructed;
2. timed occupation – check three minute and ten minute settings;
3. roof mounted movement sensor function and setting;
4. PLC alarms – note any alarms and check relevant components for faults or damage;
5. auto washing and drying operation including wash test system, wash nozzles, rain bird, blowers, blower motors, solenoid valves and manifolds;
6. toilet flushing mechanism operation and settings;
7. lights and indicators;
8. speaker system – test all voice messages;
9. physical damage or deterioration to fittings or tiles;
10. hand wash station, sensors, control unit and solenoid valve;
11. PLC unit inputs and outputs;

12. plumbing leaks;
13. time clock and associated settings;
14. sanipad chute opening and closing smoothly; and
15. needle chute unrestricted.