Summary of changes

Reasons for updating documents

The Design Standards for Department of Education Facilities documents have been updated to reflect feedback from various sources both internal and external to the Department of Education. The content of the revised Design Standards for Department of Education Facilities document, replaces content in the previous published documents. The introduction of new and amended requirements embedded within the new version of the documents is part of a continuous improvement process for the Design Standards.

Summary of changes

The revised *Design Standards* documents includes changes that may affect the responsibilities of service providers carrying out work on departmental facilities.

The table on the next page provides a summary of changes to the Design Standards documents.



Quensland Better services Great lifestyle

Version	Date	Summary of change
4.0	02/01/2024	Version 4 documents supersede the following documents:
		Part A: Education facilities design principles and generic functional brief Version 1.8 Part B: Master planning, architectural and landscaping design principles Version 9.0
		Part C: Technical specifications and standards Version 9.0
4.0	01/01/2024	Part A: Educational facilities design principles and generic functional brief
4.0	01/01/2024	Document rebranding only and hyperlink updates
4.0	02/01/2024	Part B: Master planning, architectural and landscaping design principles
		Document rebranding only and hyperlink updates
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 1: Introduction
		1.0 Introduction – Minor updating to terminology and feedback email address included.
		1.2 Design life expectancies – deleted ICT references (refer to DNIPS)1.4.1 Sustainability principles – deleted references to thermal mass and night pumping.
		1.4.2 Alternative ESD initiative – requirement for DoE approval added.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 2: Building fabric
		2.1 Roof – Clarified wording related to roof pitch, clarified use of roof safety systems.
		2.1.1 Guttering and Downpipes – Guttering overflow requirements amended. Reference to QLD Dev Code added for rainwater harvesting.
		2.1.2 Material Selection – Clarification of use of sandwich panels.
		2.1.22 Gutters and Downpipes – Re-instated requirement to protect downpipes and
		discharge into grates. Design requirements added.
		2.3.1 Floor insulation – clause deleted.
		2.4.5.1 Glazing – Deleted reference to double glazing and single glazing not permitted.
		2.5.1 External doors – Deleted latching requirement and mat well requirement.
		2.5.2 Automatically operated doors – deleted airlock requirement.
		deleted - NCC requirement.
		2.9.1 Balustrades and bleachers – Clause renamed to Fall Prevention Barriers. Added
		barrier references to align with NCC. Top rail sitting deterrent added. Deleted bleachers
		2.10.1 Toilets – Stainless steel option added.
		2.10.2 Urinals – Stainless steel option added.
		2.10.3 Hand wash basins – Stainless steel option added.
		2.10.5 Drinking troughs and fountains – wall mount option added. Bottle refill station added.
		2.10.11 Cleaners sink – option for floor mounting added.
		2.10.13 Floor waster gullies – Charging requirement added. Bucket trap requirement
		added to kitchens.
		2.12 Bird proofing – extent clarified.
		 2.5.1 External doors – Deleted latching requirement and mat well requirement. 2.5.2 Automatically operated doors – deleted airlock requirement. 2.5.3 Internal doors – Deleted contrasting colour requirement. NCC applies. 2.5.5 Roller Shutter doors – deleted width requirement. 2.5.7 Toilet Partitions – new clause added. 2.6 Door and window hardware – lever handles push/pull and safety decals reference deleted - NCC requirement. 2.7.1 Electronic access control systems – clause deleted as referenced in section 15. 2.8 Ceilings – Min height re-instated. Acoustic ceiling tile type reference added. 2.9 Stairs and ramps – Step dimensions re-instated. Handrail terminations and TGSI preference added for Blind/Visual persons. 2.9.1 Balustrades and bleachers – Clause renamed to Fall Prevention Barriers. Added barrier references to align with NCC. Top rail sitting deterrent added. Deleted bleachers references. 2.10 Sanitaryware – Hot water approval added. 2.10.1 Toilets – Stainless steel option added. 2.10.2 Urinals – Stainless steel option added. 2.10.3 Hand wash basins – Stainless steel option added. 2.10.11 Cleaners sink – option for floor mounting added. 2.10.13 Floor waster gullies – Charging requirement added. Bucket trap requirement added to kitchens. 2.10.14 Tap fittings and fixtures – anti vandal requirement to external taps added. 2.11 Joinery – compact laminate min size added.

		2.14 Timber – clause deleted.2.14 Way Finding and Signage – new clause added.
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4.0	02/01/2024	Part C: Technical specifications and standards
		Section 3: Building finishes 3.4 External timber finishes and decking – deletion of recycled timber.
		3.5 Walls and linings – requirement for 9 mm FC reinstated.
		3.6.1 Splashbacks – materials types amended.
		3.7.1 Carpets – carpet specification reinstated.
		3.7.2 Sheet Vinyl flooring – specification reinstated.
		3.7.4 Concrete floor sealers/epoxy floors – requirements for epoxy flooring added.
		3.7.8 Floor mats – clause deleted.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 4: Utilities and associated infrastructure
		4.6 Electricity – Maximum demand sizing amended.
		4.7 Telecommunications – conduit requirement clarified.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 5: Acoustic engineering
		Section 5 is subject to a further detailed review.
		References to Australian standard and AAAC document added.
		5.1.1. Building services – reference to surface vibration removed, lift location restriction removed.
		5.2.1 Corridors – clause deleted
		5.3.1 Open plan teaching and learning spaces – clause deleted.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 6: Civil engineering
		6.1.1 Designing for storm events – overland flow paths requirement added.
		6.3 Concrete – clause deleted.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 7: Electrical services
		7.2 Design and infrastructure capacities – spare space in table 9 amended.
		7.4 Distribution switchboards – surge protection amended, RCD protection amended, labelling requirement added.
		7.6 Underground pits and conduits – pits in trafficable areas to be heavy duty
		7.8 Power outlets – mounting height amended to match DNIPS, snap off covers removed.
		7.9.1 Power Emergency stop – E-Stop specification included.
		7.9.2 Permanently connected equipment – flush/surface mounting requirement removed.
		7.9.3 Earthing systems – requirement for equipotential bonding added
		7.10 Lighting systems – Colour temperature 3000K deleted, daylight control devices deleted, occupancy sensors deleted.
		7.10.1 Design – Table 10 deleted – refer to AS1680 for lighting levels.
		7.10.2 Natural daylight – clause deleted.
		7.10.4 Lighting controls – Automatic lighting controls removed.
		7.10.5 Emergency lighting – self-contained type added, central monitoring removed.
		7.11 Ceiling fans – clause relocated from section 13. Minimum size added.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 8: Fire systems
		Section 8 is subject to a further detailed review. 8.4 Fire hydrants – Requirement to only install as per NCC if fire station within 50 km.
		8.5 Fire hose reels – NCC exemption added, key locking clarified, security (reed
		switching) amended, labelling requirement amended.
		8.9 Fire detection systems – clause amended to refer to Security design requirements.
		8.10 Sound alert and intercom systems for emergency purposes – amended to align with
		NCC.

4.0	02/01/2024	Part C: Technical specifications and standards
		Section 9: Gas supply
		9.1 General – requirement to not install control panel within switchboards added.
		Connection to fire alarm system added.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 10: Hydraulic services
		10.1.5 - Taps, outlets and fixtures – waterflow velocity amended, Table 15 Plumbing
		fixtures re-instated from previous design standards as these fixtures are referenced in DoE room data sheets.
		10.2 Heated water – requirement for flushing procedure added.
		10.3 Sanitary plumbing and drainage – Dual pump requirement removed.
		10.3.1 Wastewater treatment systems – capacity requirements amended.
		10.3.2 Sanitary plumbing and drainage systems – requirement for exposed drainage
		pipework reinstated.
		10.3.3 Pipework and fittings – deleted air admittance vents.
		10.4 Trade waste plumbing and drainage – authority requirement added.
		10.4.1 Trade waste apparatus – flushing points and separator location added.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 11: Information and communication technology
		11.1 Terminology – Clause removed – refer to DNIPS.
		11.2 Structured cabling systems – Clause removed – refer to DNIPS.
		11.3 Pits and conduit systems – Clause removed – refer to DNIPS.
		11.4 Network centre – Clause removed – refer to DNIPS.
		11.5 Edge building cabinets – Clause removed – refer to DNIPS.
		11.6 Patch panels and leads – Clause removed – refer to DNIPS.
		11.7 Data outlets – Clause removed – refer to DNIPS.
		11.8 Wireless access points – Clause removed – refer to DNIPS.
		11.9 Telephone systems – Clause removed – refer to DNIPS.
		11.13 Hearing augmentation – integration with PA system removed.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 12: Landscape architecture
		12.1.1 Turfed areas – Mowing strip and edging requirement added.
		12.1.7 Plant selection – Restricted invasive plant list added.
		12.3.3 Fencing – Hard court fencing requirement amended. Mowing strip requirement added.
		12.4.4.4. Sandpits – hose cock requirement removed.
4.0	02/01/2024	
4.0	02/01/2024	Part C: Technical specifications and standards Section 13: Mechanical services
		Section 13 is subject to a further detailed review.
		Intro – reference to Plant selection framework removed.
		13.4 Heating – Gas heating removed.
		13.4.1 Passive heating of spaces – clause removed.
		13.5.1.1 Evaporative cooling – clause removed.
		13.6 Ceiling fans – clause moved to electrical services section.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 15: Security technology
		Note: The entirety of Section 15 has been amended and rewritten by DoE School Security.
		All clauses have been amended.
4.0	02/01/2024	Part C: Technical specifications and standards
		Section 16: Structural engineering
		16.8 Covered walkways – min. width requirement reinstated, max. height reinstated, min.
		height reinstated, prevention of swinging requirement reinstated, skateboard deterrent
		added.

4.0	02/01/2024	<i>Part C: Technical specifications and standards</i> Section 17: Vertical transportation Lift communication to PSG added. Pixel gateway cabling added, lift car minimum dimensions added, overland flow requirement added, vandal resistant requirement added, power loss requirement added, registration requirement added.
4.1	11/03/2024	 Part C: Technical specifications and standards Section 3: Building finishes 3.2 Structural Steel finishes – All exposed and external steel work to be hot dipped galvanized. 3.7.1 Carpets – Carpet tile table amended.
4.1	11/03/2024	 Part C: Technical specifications and standards Section 16: Structural engineering 16.8 Covered Walkways – minimum width and height amendments.