

Summary of Amendments to Design Standards

Date: 15 November 2016

Outlined below is a summary of amendments for Design Standards Version 14 to Version 15.

1 Re: Section 1.05.04: Works to Over 50% of Building and Outside of Project Site

Old Clause:

Where proposed work comprises less than 50 percent of a floor level in a building, upgrading work shall generally be confined to the area of the works. Works to outside of the project area shall be as required by the *Certifier*.

New Clause:

Works to more than 50% of a building by volume over a three year period generally require the whole building to be upgraded (Building Regulations 2006). The LTU Project Manager is to check that the proposed Project Works do not trigger an upgrade outside the Project area.

2 Acoustics

2.1 Re: Section 5.06.04: Office Requirements to Class 2

Clause deals with not taking office walls to concrete soffit.

Proposal provides a more appropriate design procedure to allow more flexibility. Requirements are the same.

Old

Unless there are special reasons, to be approved as described in Section 1.04.05; Administration of Design Standards, and in writing by the *Project Manager*, acoustic requirements for Class 2 cellular offices shall be met without taking walls to the soffit of the slab above in order to preserve flexibility for future fit out works. Refer to Section 9.05; Walls for Class 2 offices, for acceptable wall construction.

New

Acoustic *requirements for* Class 2 cellular offices shall be met where possible without taking walls to the soffit of the slab above in order to preserve flexibility for future fit out works. Refer to Section 9.05; Walls, for Class 2 offices, for acceptable wall construction.

2.2 Re: Section 5.06.05: Room Privacy Classes for Room types

The Privacy Classes to be recast to better accommodate:

- The more frequent use of collaborative teaching spaces, and teaching spaces that are becoming increasingly multi-functional.
- The increase in general meeting rooms, particularly serving open office areas.
- The increase in number of offices with glazing to a corridor or open area.

The changes better suit the current room uses of the University whilst maintaining a good performance.

Old

CLASS 1: Senior Management, Deans, Heads of Schools, Teaching Areas, Seminar Rooms, Meeting Rooms and Conference Rooms, Libraries.

CLASS 2: Academic Offices, Common Rooms.

CLASS 3: General and Professional Offices, Amenity Areas.

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New

CLASS 1: Senior Management, High profile Teaching Areas (eg lecture theatres with AV), Meeting Rooms requiring good acoustic privacy or separation, Conference Rooms, Libraries.

CLASS 2: Academic Offices, Common Rooms, Flat floor teaching areas including collaborative type teaching areas, general meeting rooms and laboratories.

CLASS 3: General and Professional Offices, Amenity Areas.

2.3 Re: Section 5.06.08: Minimum Weighted Sound Reduction Values

Class 2 offices rating to corridors with doors is reduced from Dw 35 dBA to Dw 30 dBA to accommodate an economic construction whilst maintaining an acceptable sound reduction by the wall.

3 RE 6.03 - ESD CERTIFICATION

As the requirements under the existing clause are out of date, a revised clause is proposed as follows.

Old

A - Objective

To own and occupy buildings that demonstrate high environmental performance.

B - Functional Statements

New buildings are to achieve certification under an appropriate rating tool for that building type.

C - Performance Requirements

New buildings are to achieve Five Star Green Star certification under the Green Building Council of Australia Education (Design) building rating tool. Ratings systems other than Green Star may only be used when approved by the Executive Director I&O.

New

A - Objective

To own and occupy buildings that demonstrate high environmental performance.

B - Functional Statements

New buildings are reviewed on a case-by-case basis to determine if certification under an appropriate building rating tool is applicable.

C - Performance Requirements

All new buildings are reviewed on a case-by-case basis by the Executive Director I&O to determine if certification under a Green Building Council of Australia's (GBCA) building rating tool (or similar accreditation tool) is applicable. When applicable, new buildings will achieve a minimum 5-Star Green Star certification under the GBCA's 'Design + As-Built' rating tool (or similar agreed accreditation).

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4 Waste and Recycling Bins System Guidelines

Various sections are shown below updated to accommodate the new *Waste and Recycling Bins Systems Guidelines*. These will be incorporated into the Design Standards as a reference.

4.1 Altered Section 7.02 .03.07 Toilets

Old

In general, waste paper bins are to be provided. They are to be free standing, and 50L capacity.

New

Where used, waste paper bins are to be sized and in accordance with the *University Waste and Recycling Bin Systems Guide*.

4.2 Altered Section 7.02 .04.01 Toilets-Hand Dryers

Old

Where used, dryers shall be selected to be as quiet and energy efficient as possible. Paper towel dispensers are to be provided in disabled accessible toilets, sick and baby change rooms and other areas where of particular use including low use areas. For (Bundoora) campus paper towel roll dispensers are to be used. For regional campuses, wide interleaf system is to be used.

New

Auto electric dryers are to be as quiet and energy efficient as possible and installed in all toilets, sick rooms and baby change rooms. Paper towel dispensers are to be provided in sick rooms and baby change rooms only.

Where paper towel dispensers are used, at Bundoora campus, paper towel roll dispensers are to be used. Where used at regional campuses, the wide interleaf system is to be used. Refer to the *University Waste and Recycling Bin Systems Guide* for waste and recycling receptacles for waste paper.

4.3 Altered Section - Kitchen and Kitchenettes (7.05.03.01 (g):

Old

A kitchen and kitchenette shall be provided with the following:
Waste and recycling.

New

Waste and recycling bins are to be provided within all kitchens and kitchenettes in accordance with the *University Waste and Recycling Bin Systems Guide*.

4.4 Altered Section - 11.01.04.05: Loose Furniture, General

Old

Internal waste and recycling bins shall be plastic, two piece with 70L capacity

New

Waste and recycling bins are to be in accordance with the *University Waste and Recycling Bin Systems Guide*.

4.5 Altered Section – 13.09.02.04: Hard Landscaping

Old

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External bins shall be two-piece (general waste and recycling), with 120L capacity to LTU requirements

New

External bins are to be in accordance with the University *Waste and Recycling Bin Systems Guide*.

5 Altered section – 7.01 TEACHING ROOMS

The section has been updated as follows:

- The heading is now proposed to be “Teaching and Learning Spaces”.
- As part of the project to update the Teaching and Learning Space Policy, Procedure and Guideline documents, relevant sections of the Guidelines document (which is no longer to be used) have been incorporated into this section.
- An Informal Learning Space section has been added.
- A general update and reordering of sections has been undertaken.
- A clause on Electronic Room Booking has been added.

References throughout the Standards will be adjusted to reflect these changes.

Refer attachments for existing and proposed sections.

6 New Clause: 7.02.02.12 GENDER NEUTRAL TOILETS

New University requirements for Gender Neutral Toilets and related signage is specified.

7 Altered Section – 7.02.03.09: SOAP DISPENSERS

Words added to require refillable soap dispensers (as opposed to cartridge type).

8 Altered Clause: 7.08.03.07 - Meeting Rooms

Existing:

Refer to Section 19; **Audio Visual**. Where requested, either an electronic booking screen or a transparent holder for an A4 booking sheet shall be provided adjacent to the door of a meeting room.

New

Electronic booking panels will be provided adjacent to the door of meeting rooms.

Power and data cables shall be provided and concealed where possible.

Liaise with ICT for panel specification and installation.

9 Re: 9.05.05 TYPICAL CELLULAR OFFICE WALL CONSTRUCTION

Minor adjustments to co-ordinate with 5.06 (Acoustics). Section is essentially the same.

10 Re: 10.01 INTERIOR FINISHES

A general clause is included at the start of Interior Finishes regarding floor finishes.

10.1 New Clause - 10.01.03 Floor Finishes general

01 Floor finishes are to be selected according to the density and frequency of traffic. The following are to be considered when selecting floor finishes.

- Creative solutions with graphic expression within floor coverings is encouraged where appropriate (eg public areas).
- To achieve a good standard of comfort suitable to the use of the space.
- To have a high degree of life and interest, and to sit well with the overall finishes and colour scheme.

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- To wear well. High traffic areas (such as main corridors through buildings) are to have a resilient flooring instead of carpet.
- To have a retention of appearance over anticipated life cycle.
- To reduce stains and soiling being seen and to be easily cleaned.
- To be safe.
- To be designed to reduce foot noise where pertinent.
- Electrostatic resistance (anti static) where required (eg comms rooms and some labs)
- To meet the relevant codes.

10.2 New Clause – 10.02.11 Carpet

Carpet is to avoid heavily textured finishes where there is large pile height variation, to avoid uneven wear and allow ease of cleaning.

11 New Clause – 11.01.05.09 ADJUSTABLE HEIGHT WORK STATIONS

Provision for work stations adjustable from sitting to standing heights can be considered according to the needs of the particular project. Manual or mechanical means of adjustment may be considered. Note the screen height needs to remain at the same height in an area, when adjustable height work surfaces are used. Adequate power facilities will need to be provided for mechanical adjustment. Provision of electrical cables need to be carefully managed to accommodate the work surface movement. Requirements of Cl 11.01.04 still apply (ICT, Power and Phone Requirements).

12 New Clause – 9.06.02 CEILINGS

02 Ceiling systems are to be designed for the performance features required in their particular locations. These will include acoustic performance within the space as well as acoustic separation of spaces, specialist lab and research requirements, and appearance.

Where possible, teaching spaces, offices, labs and circulation areas shall have modular, drop in panel ceiling systems utilising a suspended metal grid.

03 All ceiling systems are to allow easy access to all in-ceiling services, to provide safe and secure fixing of components and to allow easy and safe handling of components when accessing the ceiling space.

13 LOOSE FURNITURE

Name of section to be altered to **FURNITURE**.

13.1 Altered Section – 11.01.09.4 (a): TEACHING CHAIRS

Amended to include:

- b) To have minimum of medium height back. Generally speaking a medium height back chair supports below the shoulder blades with emphasis on the lumbar region. Small back chairs finish near the lumbar region.
- c) Preference for chairs to collaborative spaces is to have 5-star swivel bases, although chairs with four legs with castors are acceptable (eg if nesting is a requirement).

13.2 Altered Section – 11.01.11.4 (e): TABLES

New Clause:

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Ensure worktop surfaces are compatible with computer mice being used, in particular for Macs (avoid very light colours).

14 Altered Section – DOOR HARDWARE, LOCKS AND KEYING

14.1 New clause - 11.04.03.07 General

Doors to have lever handles. Backsets to door handles is to be a minimum of 50 mm. This is from the centre of the spindle of the handle to the face of the door stop. Note that this might require a wider stile to the door at the handle.

14.2 Altered clause - 11.04.04.04 ACCESS SYSTEMS

Reference to “Cardax” compatible systems is changed to “Gallagher” compatible systems.

14.3 Altered clause – 11.04.04.05 ELECTRONIC AND MAGNETIC DEVICES

Old:

05 Access controlled doors must have one of the following devices fitted:

- (a) Electric Strikes: PADDE ES2000
- (b) Electric Mortice Locks: Lockwood Synergy Series
- (c) Magnetic Locks: FSH FEM 5700 DM, FSH FEM 5700 M, FSH MEM 2100 – Slim-line Mag Lock, Padde EML10/EML11/EML12, or Padde EM5000G.

New

Refer to the University [Security Services Brief](#) for details of electric strikes, electric mortice locks and Magnetic locks.

15 11.04.04.08 External and Internal Fire Hose/Reel Cabinet Construction.

Old:

All external and internal fire hose/reel cabinets shall be fitted with D handles and roller catches only with 90 degrees hold-open arms and chains.

New

All external and internal fire hose/reel cabinet construction to be in accordance with Australian Standard AS 2441 (most recent edition/amendment).

16 New section: 11.06 Drinking Fountains - Internal

Previously the requirements for internal fountains were covered in a section combined with External drinking fountains. This new section for Internal drinking fountains provides a separate section that is more easily found within the structure of the Standards.

Clause:

- a) Internal drink fountains are to be built in and refrigerated. Provide one drink fountain per floor, located adjacent to common areas in major refits or new buildings.
- b) Working and serviceable parts are to be fully accessible for all maintenance. Units fitted within a wall to have an access panel providing adequate access.
- c) Drinking fountains are to have power, cold water and sewer connections.
- d) Refer also Section 12.02: Drink Fountains (External).

17 Section 13.07 - Landscape Planting Guide

The incorporation of the Landscaping Planting Guide into the Design Standards.

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02 Indigenous species shall be preferred for most applications.

New

02 Indigenous species to be utilised unless approved otherwise by I&O Design Manager. Refer to the *LTU Landscape Planting Guide* for recommendations for species.

18 Section 13.07 - Tree Protection

Section altered to incorporate the use of the *LTU Vegetation Removal Investigation Process*.

19 Metering of Plant

Sections 15.03.09: BMCS, Reporting and Alarms, Section 16.04: Electrical, Metering, and Section 21.02: Water Metering have been amended to include integration with the new cloud hosted energy monitoring system from AZZO.

20 Section 20 - Fire Detection and Alarm Systems

An update of the following sections has been undertaken:

- Fire detection System
- Occupant Warning Systems.

The following section has been added: Independent Certification