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**Purpose**

To ensure:

- (a) *class 1* and *class 2* buildings are energy and water efficient;
- (b) the *electricity* supplied to each *meterable premises* is able to be measured appropriately; and
- (c) *end of trip facilities* are provided in *major developments* located in *designated local government areas*.

**Commencement**

This version of Mandatory Part (MP) 4.1:

- (a) commences on **[DATE]**; and
- (b) replaces the version of MP 4.1 published on 1 November 2012.

**Application**

- (1) This part applies to the lawful carrying out of building work as indicated by ticks (✓) in the relevant columns in Table 1 below, subject to (2).
- (2) This part and the *relevant BCA provisions* do not apply to the lawful carrying out of building work to a class 1 building where:
  - (a) any of the following applies:
    - (i) a building certifier has, by written notice given to the owner, certified that the building has been affected by a flood or storm surge; or
    - (ii) the building is located in a *natural hazard management area (flood)*; or
    - (iii) a local government has, by written notice given to the owner or notice published on the local government’s website, declared that the building is likely to be affected by a future flood or storm surge; and
  - (b) a building certifier certifies the work is, or directly relates to, raising the building.

Note:

Reference should also be made to sections 36, 37, 61 and 81 of the *Building Act 1975*, which may affect the application of MP 4.1.

**Table 1 – Application of MP 4.1**

| Applications   | Performance Requirements |   |   |   |   |   |   |   |   |    |    |    |
|--|--------------------------|---|---|---|---|---|---|---|---|----|----|----|
|  | 1                        | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Construction of <i>new class 1</i> buildings.  | ✓                        |   | ✓ |   | ✓ | ✓ | ✓ | ✓ |   |    |    |    |
| <i>Renovation</i> of a <i>class 1</i> building.  | ✓                        |   | ✓ |   | ✓ |   |   |   |   |    |    |    |
| Construction of <i>new class 2</i> buildings.  |                          | ✓ |   | ✓ |   | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  |    |
| <i>Renovation</i> of a <i>sole-occupancy unit</i> in a <i>class 2</i> building.  |                          | ✓ |   | ✓ |   |   |   |   |   |    |    |    |
| Construction of a <i>new class 5</i> building.   |                          |   |   |   |   |   |   |   | ✓ | ✓  | ✓  |    |
| Construction of a <i>new major development</i> or a <i>major addition</i> to a <i>major development</i> located in a <i>designated local government area</i> . |                          |   |   |   |   |   |   |   |   |    |    | ✓  |

## **Variation of BCA**

For *class 1 and 10 buildings and structures* the following provisions of the BCA do not apply to a hot water system in Queensland:

- (a) Performance requirement 'P2.6.2, and
- (b) Deemed-to-satisfy clause 3.12.5.6.

## **Referral Agency**

Local government is the referral (concurrence) agency as per item 28 in Schedule 7 Table 1 of the *Sustainable Planning Regulation 2009* for building development applications to which *Performance Criteria P12* applies.

## **Compliance with the QDC**

Under section 14 of the *Building Act 1975*, compliance with this part can be achieved only by:

- (a) complying with the relevant *acceptable solution* for the *performance criterion*; or
- (b) formulating an *alternative solution* that complies with the *performance criteria* or is shown to be at least equal to the relevant criteria; or
- (c) a combination of (a) and (b).

## **Associated Requirements**

- *Body Corporate and Community Management Act 1997*
- *Building Act 1975*
- Building Code of Australia (BCA)
- Building Regulation 2006
- *Electricity Act 1994*
- Electricity Regulation 2006
- *Electrical Safety Act 2002*
- Electrical Safety Regulation 2002
- *Plumbing and Drainage Act 2002*
- Plumbing Code of Australia
- Queensland Plumbing and Wastewater Code
- Standard Plumbing and Drainage Regulation 2003
- *Sustainable Planning Act 2009*
- Sustainable Planning Regulation 2009
- *Water Efficiency Labelling and Standards Act 2005*
- *Water Supply (Safety and Reliability) Act 2008*

## Referenced Standards

| Standard number | Date | Title   |
|-----------------|------|---|
| AS 62053.21     | 2005 | Electricity metering equipment (AC)– Particular requirements Part 21: Static meters for active energy (classes 1 and 2) |
| AS 1284.1       | 2004 | Electricity metering – General purpose induction watt-hour meters   |
| AS 2890.3       | 1993 | Parking facilities Part 3: Bicycle parking facilities (including modifications as specified in Schedule 2)              |

## Definitions

Note:

Italicised words in the text of the part are as defined below.

**Acceptable solution** means a relevant building solution which is deemed to satisfy the relevant *performance criterion* for the purposes of section 14 (4) (a) (ii) of the *Building Act 1975*.

**Alteration** has the meaning given in the *Building Act 1975*.

**BCA** has the meaning given in the *Building Act 1975* unless a particular edition of the Building Code of Australia published by the Australian Building Codes Board, including any amendments published by the board for that year, is specified (for example *BCA 2009*).

**Bicycle** means a two-wheeled vehicle designed to be propelled by human power and with overall dimensions within those specified by AS 2890.3:1993.

**Bicycle parking and storage facility** means an area or structure used for parking, storage or securing of *bicycles*, which provides a level of security for the *bicycle* in accordance with the security classifications provided in AS 2890.3:1993 (including modifications as specified in Schedule 2).

**Change room** means a room where an *occupant* is able to change clothes in privacy, either individually or on a gender basis and that contains washbasins, mirrors, *showers* and *sanitary compartments*.

**Classes 1 to 10** has the meaning given in the *BCA*.

**Climate zone** has the meaning given in the *BCA*.

**Commercial office building** means a *class 5* building as classified under the *BCA*.

**Common area** means an area of *common property*.

**Common property** means the lot allocated to the body corporate for the *community titles scheme*.

**Community titles scheme** has the meaning given in section 10 of the *Body Corporate and Community Management Act 1997*.

**Customer** has the meaning given in the *Electricity Act 1994*.

**Designated local government area** means

- a) the area of the local governments identified in Schedule 1; or
- b) for local governments not identified in Schedule 1:
  - (i) the area identified in a local government planning scheme as a *designated local government area* for the purpose of this code; or
  - (ii) the area identified by a local government resolution as a *designated local government area* for the purpose of this code where notice of the resolution is published:
    - (A) in a newspaper that is circulating generally in the local government area; and
    - (B) on the local government's website.

**Domestic services** has the meaning given in the *BCA*.

**Electricity** includes electric current, electrical energy and the like, and any related physical qualities.

**Electricity meter** means a device that measures and records the production or consumption of *electricity*.

**Electricity sub-meter** means a device that measures and records the production or consumption of *electricity* that either:

- a) is a minimum accuracy *class 1* under AS62053.21:2005; or
- b) complies with AS1284.1:2004.

**Employee** has the meaning given in the *Industrial Relations Act 1999*.

**End of trip facility** means a facility within a building or on-site that is required to be constructed in compliance with P12(1) of this part.

**Energy efficient lighting** is lighting with a minimum output of 27 lumens per Watt and excludes a heat lamp used in a bathroom for the purposes of radiating heat.

**Entrance** means a main path into a building that is not for emergency use.

**Floor area** has the same meaning as given in the *BCA*.

**Full time equivalents for workforce numbers** include full time aggregates of part-time and casual *employee* hours.

**Hospital** means a *class 9a* building as classified under the *BCA*.

**Locker** means a compartment for storage that can be securely locked.

**Major addition** means any addition to an existing *major development* that results in additional *floor area* of at least 1000m<sup>2</sup>.

**Major development** means a:

- a) *commercial office building* with a *floor area* greater than 2000m<sup>2</sup>; or
- b) *shopping centre* with a *floor area* greater than 2000m<sup>2</sup>; or
- c) *tertiary educational facility* with a *floor area* greater than 2000m<sup>2</sup>; or
- d) *hospital* with a *floor area* greater than 2000m<sup>2</sup>; or

- e) development specified in a local government planning scheme as a major development for the purposes of QDC MP 4.1

Note:

Local governments may specify additional development to be *major development*.

**Meter label** means a label of white heat-resistant material with black lettering fixed by means of screws, rivets or glue that clearly identifies each *meterable premise*.

**Meterable premises** means:

- a) the *sole occupancy unit* of a *class 2* or *class 5* building that is or will be connected to a supply of *electricity*, except where a *sole occupancy unit* of a *class 2* or *class 5* building has or will have an *electricity meter* as a *customer* of a *retail entity* or *special approval holder*; or
- b) each *storey* of a *class 5* building that is or will be connected to a supply of *electricity* where more than one *sole occupancy unit* for that *storey* has not been identified at the time of the building's development approval for building work, except where a *storey* of a *class 5* building has or will have an *electricity meter* as a *customer* of a *retail entity* or *special approval holder*.

**Natural hazard management area (flood)** means an area designated as a natural hazard management area (flood) by a local government under the *Building Regulation 2006*, section 13.

**New** means *new* building work and does not include *renovations* to existing buildings.

**Occupants** means the number of persons accommodated in the building, as calculated in accordance with *BCA Volume One Table D1.13 (Area per person)* and for the purposes of calculating *occupants* in Schedule 3, '*hospital*' means 'patient care areas', '*shopping centre*' means 'shop', '*tertiary education facility*' means 'school' and '*commercial office building*' means 'office'.

**Outdoor living area** means a space that:

- a) is directly accessible from, and attached to, a living area of the building such as a lounge, kitchen, dining and family rooms; and
- b) has a minimum *floor area* of 12.0m<sup>2</sup> and a minimum dimension in all directions of 2.5 metres; and
- c) is fully covered by an impervious roof; and
- d) has:
  - (i) for *class 1* buildings - two or more sides open or capable of being readily opened, not including the connection between the internal living area and the *outdoor living area*; or
  - (ii) for *class 2* buildings - at least one side open or capable of being readily opened, not including the connection between the internal living area and the *outdoor living area*.

**Performance requirement** has the meaning given in the *Building Act 1975*.

**Relevant BCA provisions** means section 3.12 in Volume Two of the *BCA*.

**Renovation** means any *alteration* or addition to an existing *class 1* building or the *sole occupancy unit* of a *class 2* building requiring building development approval.

**Retail entity** has the meaning given in the *Electricity Act 1994*.

**Sanitary compartment** has the meaning given in the *BCA*.

**Shopping centre** means premises comprising two or more individual tenancies that is comprised primarily of shops and which function as an integrated complex.

**Shower** means a separate and lockable compartment equipped with a showerhead.

**Special approval holder** has the meaning given in the *Electricity Act 1994*.

**Software rating** means an energy rating under the Nationwide House Energy Rating Scheme using a calculation method that complies with the Australian Building Codes Board Protocol for Houses Energy Rating Software.

**Sole occupancy unit** has the meaning given in the *BCA*.

**Standard** means the edition of Australian Standard AS 62053.21, AS 1284.1 and AS 2890.3 referenced by this part.

**Storey** has the meaning given in the *BCA*.

**Tertiary educational facility** means a *class 9b* building that is in a university, college or similar establishment and does not include a primary or secondary school.

**Total R-Value** has the meaning given in the *BCA*.

**Unisex design** is suitable for any gender.

**Water service** is defined by the *Water Supply (Safety and Reliability) Act 2008*.

**Water service provider** for premises, means the person registered under the *Water Supply (Safety and Reliability) Act 2008*, chapter 2, part 3, as the *water service provider* for retail *water services* for the premises.

**Workforce numbers** means the number of day time *employees* that are *full time equivalents*.

## PERFORMANCE REQUIREMENTS

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## Energy Efficiency – class 1 buildings

- P1** The thermal performance of a *class 1* building and an enclosed *class 10a* building attached to a *class 1* building must comply with *performance requirement P2.6.1* of the *BCA 2010* (Volume 2).
- A1** (1) A *class 1* building, including an enclosed *class 10a* building attached to a *class 1* building, complies with:
- (a) parts 3.12.1, 3.12.2, 3.12.3, and 3.12.4 of the *BCA 2010* (Volume 2) except, for buildings in *climate zones 1* and *2*, disregard 3.12.1.5(a)(i) and (iii); or
  - (b) verification using a reference building in accordance with V2.6.2.2 of the *BCA 2010* (Volume 2); or
  - (c) a *software rating* of not less than 6 stars; or
  - (d) in *climate zones 1, 2* and *5*, a combination of a *software rating* of not less than 4.5 stars and a nominal credit obtained under (2) to reach a total of 6 stars; or
  - (e) in *climate zone 3*, a combination of a *software rating* of not less than 5 stars and a nominal credit obtained under (2) to reach a total of 6 stars; or
  - (f) part 3.12 of the *BCA 2009* (Volume 2), where a nominal credit of not less than 1 star is obtained under (2).
- (2) For the purposes of (1)(d)-(f) the following nominal credits apply:
- (a) 0.5 star where a building includes an *outdoor living area*, the roof covering of which achieves a *Total R-Value* of at least 1.5 for downward heat flow;
  - (b) 1 star where a building includes an *outdoor living area* the roof covering of which achieves a *Total R-Value* of at least 1.5 for downward heat flow and the



## PERFORMANCE REQUIREMENTS

## ACCEPTABLE SOLUTIONS

## Energy Efficiency – class 2 buildings

- P2** The thermal performance of *sole occupancy units* in class 2 buildings complies with performance requirement JP1 of the BCA 2009 (Volume 1).
- A2** (1) The thermal performance of *sole occupancy units* in class 2 buildings complies with JV1 of the BCA 2009 (Volume 1) except that:
- (a) for JV1(a)(i) each *sole occupancy unit* has a *software rating* of not less than 4 stars; and
  - (b) for JV1(a)(ii) the average *software rating* of all *sole occupancy units* is not less than 5 star; and
  - (c) the deemed to satisfy provisions of Section J of the BCA 2009 (Volume 1) have no effect for *sole occupancy units*.
- (2) For the purposes of calculating the average *software rating* under A2(1)(b) of all *sole occupancy units* of a class 2 building in climate zones 1 or 2 the following credits apply towards the *software rating* for each *sole occupancy unit*:
- (a) 0.5 star where a *sole occupancy unit* includes an *outdoor living area*, the roof covering of which achieves a *Total R-Value* of 1.5 for downward heat flow; or
  - (b) 1 star where a *sole occupancy unit* includes an *outdoor living area* that has at least one permanently fixed ceiling fan with a speed controller and a blade rotation diameter of not less than 900mm and the roof covering achieves a *Total R-Value* of 1.5 for downward heat flow.

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- (3) To achieve a credit under **A2** (2)(b) an *air-conditioner* that services any room directly adjacent to an *outdoor living area* must automatically shut down when an external door that provides access to the *outdoor living area* is open for more than 1 minute.

### Energy Efficient Domestic Services

- |           |  |           |  |
|-----------|--|-----------|--|
| <b>P3</b> | For <i>class 1</i> buildings and an enclosed <i>class 10a</i> building attached to a <i>class 1</i> building, artificial lighting complies with <i>performance requirement P2.6.2(a)</i> of <i>BCA 2010</i> (Volume 2) | <b>A3</b> | <i>Class 1</i> buildings, including a verandah, balcony or an enclosed <i>class 10a</i> building attached to a <i>class 1</i> building, have:<br>(a) artificial lighting that complies with Part 3.12.5.5 of <i>BCA 2010</i> (Volume 2); or<br>(b) <i>energy efficient lighting</i> for a minimum of 80 per cent of total fixed artificial lighting. |
| <b>P4</b> | In <i>sole occupancy units</i> of <i>class 2</i> buildings fixed artificial lighting must be energy efficient.   | <b>A4</b> | <i>Sole occupancy units</i> of <i>class 2</i> buildings, including a verandah, balcony or an enclosed <i>class 10a</i> building attached to a <i>class 2</i> building, have <i>energy efficient lighting</i> for a minimum of 80 per cent of total fixed artificial lighting.  |
| <b>P5</b> | For <i>class 1</i> and <i>10</i> buildings hot water is supplied by a hot water system.  | <b>A5</b> | A water heater in a hot water supply system can be an electrical resistance heater or any other type of heater.  |

### Water Conservation

- |           |   |           |  |
|-----------|---|-----------|--|
| <b>P6</b> | In <i>class 1</i> and <i>class 2</i> buildings, in areas serviced by a <i>water service provider</i> , shower roses must facilitate the efficient use of water. | <b>A6</b> | In <i>class 1</i> and <i>class 2</i> buildings, in areas serviced by a <i>water service provider</i> , all shower roses have a minimum 3-star Water Efficiency Labelling and Standards rating. |
|-----------|---|-----------|--|

**Note:**

Water Efficiency Labelling and Standards (WELS) – references the Australian Government’s labelling and standards scheme for water efficient products.

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- P7** In *class 1* and *class 2* buildings, in areas serviced by a *water service provider*, toilet cisterns and bowls must facilitate the efficient use of water.
- P8** In *class 1* and *class 2* buildings, in areas serviced by a *water service provider*, tap ware must facilitate the efficient use of water.

- A7** In *class 1* and *class 2* buildings, in areas serviced by a *water service provider*, all toilet cisterns:
- (a) have a dual flush function and have a minimum 4-star Water Efficiency Labelling and Standards rating; and
  - (b) are compatible with the size of the toilet bowl to allow for proper functioning of the toilet.
- A8** In *class 1* and *class 2* buildings, in areas serviced by a *water service provider*, tap ware with a minimum 3-star Water Efficiency Labelling and Standards rating serves:
- (a) laundry tubs; and
  - (b) kitchen sinks; and
  - (c) basins.

**Electricity Sub-metering**

- P9** The *electricity* supplied to each *meterable premises* is able to be measured.
- P10** An *electricity meter* must be located so it is easy and safe to read and maintain at any reasonable time.
- P11** The *electricity meter* for each *meterable premises* must be labelled to indicate which *meterable premises* it is associated with.

- A9** Each *meterable premises* has an *electricity sub-meter* installed which measures only the *electricity* supplied to that *meterable premises*.
- A10** The *electricity sub-meter* is:
- (a) installed in a *common area*; and
  - (b) free of hindrance or obstruction to a person authorised to read and/or maintain the *electricity sub-meter*.
- A11** A *meter label* identifying which *meterable premises* it is associated with is affixed or located adjacent to the *electricity sub-meter* for each *meterable premises*.

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**End of Trip Facilities**

- P12** (1) *End of trip facilities* are provided for *employees* or *occupants*, in the building or on-site within a reasonable walking distance, and include:
- (a) adequate *bicycle parking and storage facilities*; and

- A12** (1) *Bicycle parking and storage facilities* are:
- (a) easily accessible and provided in the building, or on-site within 100 metres of an *entrance* to the building, in accordance with:
    - (i) five percent (5%) of the number of *employees*, based

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- (b) adequate provision for securing belongings; and
  - (c) *change rooms* that include adequate *showers*, *sanitary compartments*, wash basins and mirrors.
- (2) Notwithstanding (1) there is no requirement to provide *end of trip facilities* if it would be unreasonable to provide these facilities having regard to:
- (a) the projected population growth and forward planning for road upgrading and development of cycle paths; or
  - (b) whether it would be practical to commute to and from the building on a *bicycle*, having regard to the likely commute distances and nature of the terrain; or
  - (c) the condition of the road and the nature and amount of traffic potentially affecting the safety of commuters.

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- on *workforce numbers*; or
  - (ii) the *occupant* ratios in Schedule 3 (rounded up to the nearest whole number); and
  - (b) designed and constructed in compliance with AS 2890.3:1993 (including modifications as specified in Schedule 2).
- (2) *Lockers* are:
- (a) provided in the building, or on-site within 100 metres of an *entrance* to the building, on a 1.6:1 ratio for every *bicycle* parking space; and
  - (b) co-located or located within 50 metres of *change rooms* required by A12(3) of this part; and
  - (c) provided with minimum dimensions of 900mm (height) x 300mm (width) x 450mm (depth).
- (3) *Change rooms*:
- (a) are provided in the building, or on-site within 100 metres of an *entrance* to the building and comply with Schedule 4, Table A, Column B; and
    - i) are fitted with a lockable door or otherwise screened from public view; and
    - ii) are located within 100 metres of *bicycle parking and storage facilities* required by A12(1) of this part if the *bicycle parking and storage facilities* and *change rooms* are not located in the building.
- (4) *Change rooms* provide:
- (a) *showers* that:
    - (i) are located within *change rooms* and meet Schedule 4, Table A, Column C; and
    - (ii) have a minimum 3-star Water Efficiency Labelling and Standards (WELS) rating

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- shower* head; and
- (iii) dispense both hot and cold water; and
- (b) *sanitary compartments* that:
- (i) are located within *change rooms*, and meet Schedule 4, Table A, Column D; and
- (ii) are constructed in compliance with F2.3 (e) and F2.5 of *BCA* (Volume 1); and
- (c) wash basins that are located within *change rooms* and meet Schedule 4, Table A, Column E; and
- (d) a mirror located above wash basins; and
- (e) a hook and bench seating located within each *shower* compartment; and
- (f) a socket-outlet located adjacent to each wash basin.
- (5) Where *change room* requirements are predominantly located in a carpark or on a basement floor that is not regularly used by *occupants* or *employees*, they may not be counted towards the requirements of the *BCA*, Volume 1 Part F2.
- (6) Notwithstanding ((1), (2), (3) & (4)), a local government planning scheme may require additional *bicycle parking and storage facilities*, *locker facilities*, *change rooms*, *showers*, *sanitary compartments*, wash basins and mirrors.

## Note:

1. For A12(1) (a) – the *occupant* ratios may be used where *employees* based on *workforce numbers* cannot be determined accurately.

2. For A12(6) – refer to the Department's website for a list of local governments that have existing *end of trip facility* requirements in their planning schemes. It is recommended that in all cases confirmation be obtained from the relevant local government as to whether it has any relevant *end of trip facility* requirements in its planning scheme.

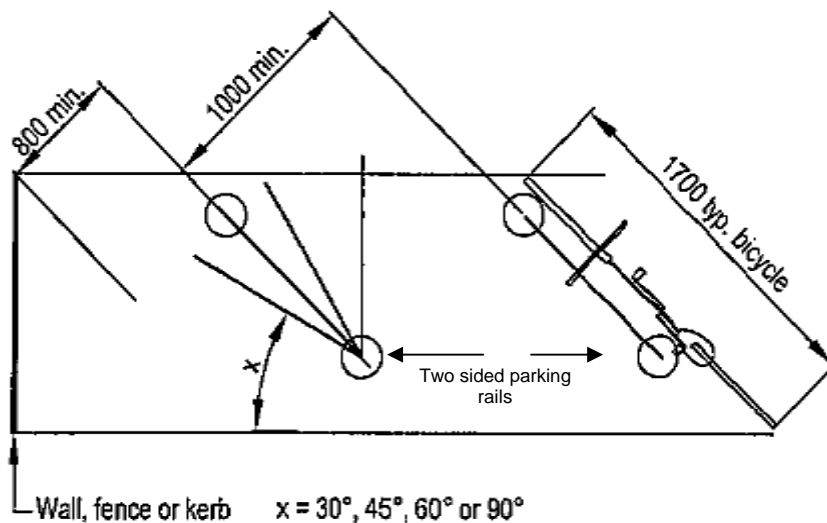
**Schedule 1**

| <b><i>Designated Local Government</i></b> |
|---|
| Brisbane City Council                     |
| Bundaberg Regional Council                |
| Cairns Regional Council                   |
| Central Highlands Regional Council        |
| Fraser Coast Regional Council             |
| Gladstone Regional Council                |
| Gold Coast Regional Council               |
| Gympie Regional Council                   |
| Ipswich City Council                      |
| Logan City Council                        |
| Mackay Regional Council                   |
| Moreton Bay Regional Council              |
| Mount Isa City Council                    |
| Redland City Council                      |
| Rockhampton Regional Council              |
| Southern Downs Regional Council           |
| Sunshine Coast Regional Council           |
| Toowoomba Regional Council                |
| Townsville City Council                   |
| Western Downs Regional Council            |

Schedule 2

| Standard clauses affected | Standard modifications  |
|---------------------------|---|
| <b>AS 2890.3:1993</b>     |   |
| 2.2.4                     | In addition to 2.2.4:<br><br>Vertical storage can also comprise alternative <i>bicycle</i> storage area requirements that are available within the marketplace (e.g. wall mounted rails and racks, pods).                         |
| 2.2.6                     | In addition to 2.2.6:<br><br>Open plan storage layouts can also comprise alternative <i>bicycle</i> storage area requirements that are available within the marketplace (e.g. double parker/double storey parking systems, pods). |
| Figure 2.1                | Figure 1 also applies in addition to Figure 2.1.  |

Figure 1



## Schedule 3

| <b>(A)</b><br><b>Building Type</b> | <b>(B)</b><br><b>Bicycle Spaces</b> | <b>(C)</b><br><b>Security Classification</b><br><b>(refer AS 2890.3, Table 3.1)</b> |
|------------------------------------|-------------------------------------|---|
| <i>Commercial office building</i>  | 1 per 30 <i>occupants</i>           | 2   |
| <i>Shopping centre</i>             | 1 per 500 <i>occupants</i>          | 2   |
| <i>Tertiary education facility</i> | 1 per 375 <i>occupants</i>          | 2   |
| <i>Hospital</i>                    | 1 per 100 <i>occupants</i>          | 2   |



Schedule 4

Table A

| (A)<br>Change room requirements based on <i>bicycle</i> parking spaces | User Group      | (B)<br>Change room provisions                | (C)<br>Number of <i>showers</i> required  | (D)<br>Number of <i>sanitary compartments</i> required  | (E)<br>Number of wash basins required  |
|--|-----------------|--|---|---|--|
| 1 – 5  | Female and Male | 1 <i>change room</i> of <i>unisex design</i> | 1   | 1 closet pan  | 1  |
| 6–19   | Female          | 1  | 1   | 1 closet pan  | 1  |
|  | Male            | 1  | 1   | 1 closet pan  | 1  |
| 20 or more   | Female          | 1  | 2, plus 1 additional <i>shower</i> for every 20 <i>bicycle</i> parking spaces provided thereafter*. | 2 closet pans, plus 1 additional <i>sanitary compartment</i> for every 60 <i>bicycle</i> parking spaces provided thereafter*.   | 1, plus 1 additional wash basin for every 60 <i>bicycle</i> parking spaces provided thereafter*. |
|  | Male            | 1  | 2, plus 1 additional <i>shower</i> for every 20 <i>bicycle</i> parking spaces provided thereafter*. | 1 urinal and 1 closet pan, plus 1 additional <i>sanitary compartment</i> at the rate of 1 closet pan or 1 urinal for every 60 <i>bicycle</i> parking spaces provided thereafter*. | 1, plus 1 additional wash basin for every 60 <i>bicycle</i> parking spaces provided thereafter*. |

\*Refer Table B for example of workings.

Table B

|   | User Group | 20–39<br><i>bicycle</i><br>parking<br>spaces | 40–59<br><i>bicycle</i><br>parking<br>spaces | 60–79<br><i>bicycle</i><br>parking<br>spaces | 80–99<br><i>bicycle</i><br>parking<br>spaces | 100–119<br><i>bicycle</i><br>parking<br>spaces |
|---|------------|--|--|--|--|--|
| Number of <i>showers</i> required               | Female     | 2  | 3  | 4  | 5  | 6  |
|   | Male       | 2  | 3  | 4  | 5  | 6  |
| Number of <i>sanitary compartments</i> required | Female     | 2  | 2  | 2  | 3  | 3  |
|   | Male       | 2  | 2  | 2  | 3  | 3  |
| Number of wash basins required                  | Female     | 1  | 1  | 1  | 2  | 2  |
|   | Male       | 1  | 1  | 1  | 2  | 2  |

**Version history**

| <b>Version</b> | <b>Commencement date</b> | <b>Publication date</b> |
|----------------|--------------------------|-------------------------|
| 1.11           | 1 November 2012          | 10 September 2012       |
| 1.10           | 6 August 2012            | 10 July 2012            |
| 1.9            | 8 July 2011              | 27 June 2011            |
| 1.8            | 26 November 2010         | 12 November 2010        |
| 1.7            | 1 September 2010         | 30 July 2010            |
| 1.6            | 1 May 2010               | 13 April 2010           |
| 1.5            | 1 March 2010             | 4 February 2010         |
| 1.4            | 1 January 2010           | 27 November 2009        |
| 1.3            | 26 June 2009             | 24 June 2009            |
| 1.2            | 1 March 2009             | 3 February 2009         |
| 1.1            | 1 January 2008           | 16 November 2007        |
| 1.0            | 1 March 2006             | 1 March 2006            |