

# QUEENSLAND DEVELOPMENT CODE

## MP 4.1 – SUSTAINABLE BUILDINGS

### Commencement

In this version of Mandatory Part (MP) 4.1:

- Criteria A1, A2 and A4 to A6 commence on 1 March 2009; and
- Criterion A3 commences on 1 July 2009

This version of MP 4.1 replaces the version of MP 4.1 published on 16 November 2007

**Air-conditioner** means any single-phase or three-phase *air-conditioner* of the vapour compression type up to a cooling capacity of 65kW.

**Climate zone** has the meaning given in the Building Code of Australia.

**Construction** means building work for a new class 1 or class 2 building.

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

**Energy Efficiency Ratio (EER)** means the tested average energy efficiency ratio for cooling as specified in 'AS/NZS 3823.2: 2005 Performance of electrical appliances – air-conditioners and heat pumps – energy labelling and minimum energy performance standard (MEPS) requirements'.

**Other renovation** means any alteration or addition to an existing class 1 building or the sole occupancy unit of a class 2 building which requires a building development approval and a plumbing application.

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

- (i) is directly accessible from, and attached to, a living area of the class 1 building such as a lounge, kitchen, dining and family rooms; and
- (ii) has a minimum floor area of 12.0 square metres and a minimum dimension in all directions of 2.5 metres; and
- (iii) is fully covered by a impervious roof; and
- (iv) has two or more sides open or capable of being readily opened

**Performance criteria** means the outcome that must be achieved for an element of a building.

**Plumbing application** means the compliance assessment processes, compliance permit or compliance certificate, under sections 78 and 79 of the *Plumbing and Drainage Act 2002* for ensuring that plumbing, drainage and on-site sewerage systems complies with the *Plumbing and Drainage Act 2002* and *Standard Plumbing and Drainage Regulation 2003*.

**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 or additions.

**Sole-occupancy unit** means a room or other part of a building occupied by one or joint owners, lessee, tenant or other occupiers to the exclusion of any other owner, lessee, tenant or other occupier and includes a dwelling

**Total R-Value** has the meaning given in the Building Code of Australia.

**Verification method** means a method of determining compliance with the stated value in section V2.6.2.1 and the definition in V2.6, Volume 2 of the Building Code of Australia 2008 using a thermal calculation method that complies with the Australian Building Codes Board Protocol for House Energy Rating Software 2006.1.

**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.

### Referenced standards

AS/NZS 3500.1:2003 Plumbing and Drainage – Part 1: Water Services

AS/NZS 3823.2:2005 Performance of electrical appliances – Air conditioners and heat pumps – Energy labelling and MEPS

AS/NZS 6400:2005 Water Efficient Products – Rating and Labelling

AS 1172.1:2005 Water closets (WC)-Part 1:Pans

AS 1172.2:1999 Water closet (WC) pans of 6/3L capacity or proven equivalent-Part 2: Cistern

AS/NZS 3823.2:2005 Performance of electrical appliances – air conditioners and heat pumps – Energy labelling and minimum energy performance standard (MEPS) requirements

AS/NZS 3718:2005 Water supply- Tap ware

## ENERGY EFFICIENCY

(please tick)	Yes / No	Yes / No
A1	Builder	ACA
A class 1 building and an enclosed class 10a building attached to a class 1 building complies with:		
(a) part 3.12 of the Building Code of Australia and any Queensland variations do not apply; <b>or</b>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
(b) verification using a reference building in accordance with V2.6.2 and the definition of V2.6 of the Building Code of Australia; <b>or</b>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
(c) a <i>verification method</i> indicating achievement of an energy equivalent rating of not less than 5-stars; <b>or</b>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
(d) in <i>climate zones</i> 1 or 2, where the building includes an <i>outdoor living area</i> , a <i>verification method</i> indicating achievement of an energy rating of not less than:		
(i) 4.5-stars where the <i>outdoor living area</i> roof covering achieves a <i>Total R-Value</i> of 1.5 for downward heat flow; <b>or</b>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
(ii) 4-stars provided that the <i>outdoor living area</i> has at least one permanently fixed ceiling fan with a speed controller and a blade rotation diameter of not less than 900 mm and the roof covering achieves a <i>Total R-Value</i> of 1.5 for downward heat flow.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<b>Note: Acceptable solutions A1(a), (b) and (c) will not apply after the introduction of the Building Code of Australia 2009 which commences on 1 May 2009.</b>		
<b>Comments:</b>		

## ENERGY EFFICIENT FIXTURES

(please tick)	Yes / No	Yes / No
A2	Builder	ACA
Class 1 and class 2 buildings have <i>energy efficient lighting</i> for a minimum of 80 percent of total fixed internal lighting.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<b>A3</b>		
In class 1 and class 2 buildings, hard-wired <i>air-conditioners</i> installed have an <i>EER</i> of at least 2.9. (Only applies after 1 <sup>st</sup> July 2009)	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<b>Comments:</b>		

## WATER CONSERVATION

(please tick)	Yes / No	Yes / No
A4	Builder	ACA
In class 1 and class 2 buildings, in areas serviced by a water service provider, all shower roses have a minimum 3-star Water Efficiency Labelling and Standards rating. <b>Note: Water Efficiency Labelling and Standards (WELS) – references the Australian Government's labelling standards scheme for water efficient products.</b>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<b>A5</b>		
In class 1 and class 2 buildings, in areas serviced by a water service provider, all toilets cisterns:		
(a) have a dual flush function and have a minimum 4-star Water Efficiency Labelling and Standards rating; <b>and</b>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
(b) are compatible with the size of the toilet bowl to allow for proper functioning of the toilet.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<b>A6</b>		
In class 1 and class 2 buildings, in areas serviced by a <i>water service provider</i> , tap ware has a minimum 3-star Water Efficiency Labelling and Standards rating for taps serving:		
(a) laundry tubs; <b>and</b> (b) kitchen sinks; <b>and</b> (c) basins.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<b>Comments:</b>		