

# Plumbing Regulations

## Exposure Draft

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Victoria

## Plumbing Regulations

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#### PART 1—PRELIMINARY

##### Division 1—Introduction

### 1 Objectives

The main objectives of these Regulations are—

- (a) to define the meaning of plumbing work, and to specify classes of plumbing work and specialised plumbing work, for the purposes of Part 12A of the **Building Act 1993**;
- (b) to specify the qualifications and experience required for a person to be eligible to be registered or licensed to carry out plumbing work;
- (c) to incorporate the Plumbing Code of Australia and to prescribe other standards that relate to plumbing work; and
- (d) to specify fees for the purposes of Part 12A of the **Building Act 1993**.

## 2 Authorising provisions

These Regulations are made under sections 221ZZZV and 262 of the **Building Act 1993**.

## 3 Commencement

These Regulations come into operation on 24 November 2008.

## 4 Revocations

The Regulations listed in Schedule 1 are **revoked**.

## 5 Definitions

In these Regulations—

***apprenticeship*** means a training contract between a person and an employer entered into under Part 5.5 of the **Education and Training Reform Act 2006**;

***approved competency units*** means competency units that are approved by the Commission under regulation 42;

***AS 4234—1994*** means AS 4234—1994 Solar water heaters—Domestic and heat pump—Calculation of energy consumption, as issued, published or remade from time to time;

***AS/NZS 3500.2:2003*** means AS/NZS 3500.2:2003 Plumbing and drainage Part 2: Sanitary plumbing and drainage, as issued, published or remade from time to time;

***AS/NZS 3500.4:2003*** means AS/NZS 3500.4:2003 Plumbing and drainage Part 4: Heated Water Services, as issued, published or remade from time to time;

***Backflow Prevention work*** has the same meaning as set out in regulation 36;

***blackwater*** means wastewater from a toilet or urinal;

***caravan*** means a structure, other than a vessel, designed or adapted to be moved from place to place, intended for human habitation or use as a workplace including a self-propelled recreational vehicle or mobile home and any attached or adjoining annex or the like;

***Certificate II course*** means a Certificate II course accredited under Part 4.4 of the **Education and Training Reform Act 2006**;

***Certificate III course*** means a Certificate III course accredited under Part 4.4 of the **Education and Training Reform Act 2006**;

***Certificate IV course*** means a Certificate IV course accredited under Part 4.4 of the **Education and Training Reform Act 2006**;

***Commission*** means the Plumbing Industry Commission established under Part 12A of the Act;

***cooling tower*** means a device for lowering—

- (a) the temperature of recirculated water by bringing the water into contact with fan forced, or fan induced, atmospheric air; or
- (b) the temperature of water, a refrigerant or other fluid in a pipe or other container by bringing recirculated water and fan forced, or fan induced, atmospheric air into contact with the pipe or container;

***cooling tower drift eliminator*** is a device used to control water loss from a cooling tower through the exhaust air;

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***disconnect/reconnect licence*** means a licence issued under Part 3 of the **Electricity Safety Act 1998** to carry out the class of electrical work described in regulation 301(b) of the Electricity Safety (Installations) Regulations 1999<sup>1</sup>;

***drain*** means a pipe or conduit laid above or below the ground surface, including all associated fittings and equipment, for the conveyance of sewage, trade waste, greywater or stormwater;

***Drainage work*** has the meaning set out in regulation 15;

***drinking water*** means water that is intended, and is suitable, for human consumption, food preparation, utensil washing or oral hygiene;

***evaporative cooler*** means a non-refrigerated water filtered airflow ducted cooling system installed above and through a roof or outside and through a wall;

***Fire Protection work*** has the meaning set out in regulation 17;

***gas*** except in regulation 26, has the same meaning as it has under the **Gas Safety Act 1997**;

***gas company*** has the same meaning as it has under the **Gas Safety Act 1997**;

***gas isolating valve*** means a valve for the purpose of isolating part of a gas system from the remainder of the gas installation;

***gas storage container*** means a tank, cylinder or similar container from which gas is supplied;

***Gasfitting work*** has the meaning set out in regulation 20;

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***greywater*** means all household wastewater excluding blackwater;

***Irrigation (Non-agricultural) work*** has the meaning set out in regulation 25;

***Mechanical Services work*** has the meaning set out in regulation 26;

***PCA*** means the Plumbing Code of Australia;

***rainwater*** means water collected directly from roof run-off;

***rainwater tank*** means a tank or a number of connecting tanks designed to collect rainwater from roof catchments;

***Refrigerated Air-conditioning work*** has the meaning set out in regulation 28;

***refrigerated package appliance*** means a refrigerated air-conditioning appliance that does not require pipework to be installed for its operation;

***retention tank*** means any storage receptacle used for the storage and detainment of stormwater;

***Roofing (Stormwater) work*** has the meaning set out in regulation 30;

***Sanitary work*** has the meaning set out in regulation 32;

***sewage*** has the same meaning that it has under the **Water Act 1989** and includes any human excreta and any waterborne waste, whether untreated or partially treated, but does not include trade waste;

***specialised gasfitting work*** means any of the following classes of specialised plumbing work—

- (a) Type A Appliance Conversion work;
- (b) Type A Appliance Servicing work;
- (c) Type B Gasfitting work;
- (d) Type B Gasfitting Advanced work;

***split system*** means a refrigerated air-conditioning appliance with separate indoor and outdoor components that requires pipework to be installed for its operation in a building;

***subsoil drain*** means a trench filled with filter material or enhanced by using slotted pipes for the purpose of conveying subsoil water;

***surface water drainage system*** means any stormwater drains, retention tanks, pump installations and rising mains for the collection and conveyance of surface water, from paved and unpaved areas and discharges from downpipes, but does not include subsoil drains;

***the Act*** means the **Building Act 1993**;

***trade waste*** has the same meaning that it has under the **Water Act 1989**;

***trade waste agreement*** has the same meaning that it has under Part 9 of the **Water Act 1989**;

***Type A appliance*** has the same meaning as ***Type A appliance*** has in section 3(1) of the **Gas Safety Act 1997**;

***Type B appliance*** has the same meaning as ***Type B appliance*** has in section 3(1) of the **Gas Safety Act 1997**;

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***Type A Appliance Conversion work*** has the meaning set out in regulation 22;

***Type A Appliance Servicing work*** has the meaning set out in regulation 21;

***Type B Gasfitting Advanced work*** has the meaning set out in regulation 24;

***Type B Gasfitting work*** has the meaning set out in regulation 23;

***vessel*** means any houseboat, yacht or marine craft used for recreation and includes a vessel that is used—

- (a) for hire and reward; or
- (b) as a restaurant or for public entertainment;

***wastewater*** means spent or used water, including greywater and blackwater, which contains dissolved or suspended matter;

***Water Supply work*** has the meaning set out in regulation 34.

## **6 Interpretation**

- (1) If a provision of any document applied, adopted or incorporated by, or referred to in, these Regulations is inconsistent with any provision in these Regulations, the provision of these Regulations prevails.
  - (2) Subject to the Act and to these Regulations, words and expressions used in these Regulations have the same meaning as they have in the PCA.
  - (3) A reference to plumbing work in these Regulations, except in Part 12, includes a reference to specialised plumbing work unless a contrary intention expressly appears or the context otherwise requires.
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- (4) Any reference in a document incorporated by these Regulations to a requirement to comply with a direction, instruction, specification or requirement of a manufacturer when carrying out plumbing work is to be read as if the reference were to a requirement to comply with relevant best practice when carrying out that plumbing work.
- (5) In these Regulations—
- (a) a reference to the installation, replacement, repair or alteration of a thing; or
  - (b) a reference to any one or more of the activities referred to in paragraph (a) in relation to a thing—
- includes the extension, renewal, relocation, connection, disconnection or removal of the thing.
- (6) In these Regulations a reference to the commissioning of a thing, unless a contrary intention expressly appears or the context otherwise requires, includes the recommissioning or decommissioning of the thing.
- (7) In these Regulations a reference to the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of a thing includes any work that is incidental to, or associated with—
- (a) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of that thing; or
  - (b) any extended meaning of an activity described in paragraph (a) referred to in subregulation (5) or (6) in relation to that thing.
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## **Division 2—Plumbing Code of Australia**

### **7 Plumbing Code of Australia forms part of these Regulations**

Subject to regulation 8, the PCA is adopted by and forms part of these Regulations, as modified by these Regulations.

### **8 Provisions of the PCA not adopted**

The following Parts of the PCA are not adopted by, and do not form part of, these Regulations—

- (a) Part D2, to the extent that it relates to the following work—
  - (i) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of a subsoil drain;
  - (ii) the construction or replacement of stormwater pits, below-ground storage or retention tanks;
  - (iii) any design work that is incidental to or associated with that work; and
- (b) Parts F1 and F2.

### **9 Modifications to PCA**

- (1) The PCA is to be read as if—
    - (a) a reference to "product" were a reference to "material or product";
    - (b) a reference to "plumbing or drainage installation" were a reference to "plumbing or drainage system";
    - (c) a reference to "plumbing and drainage installation" were a reference to "plumbing and drainage system";
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- (d) a reference to "Plumbing Solution" were a reference to "Plumbing or Drainage Solution";
  - (e) a reference to "plumbing installation" were a reference to "plumbing or drainage system".
- (2) The PCA is to be read as if in Clause A1.3, "the relevant document listed in Table A1.3 as that document is issued, published or remade from time to time" were substituted for "edition or issue, together with any amendment listed in Table A1.3".

**Note**

Additional modifications to the PCA are set out in Schedule 2.

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## **PART 2—PLUMBING WORK**

### **Division 1—Plumbing work regulated by Part 12A of the Act**

#### **10 Meaning of plumbing work**

- (1) For the purposes of section 221C of the Act the following plumbing work is plumbing work to which Part 12A of the Act applies—
    - (a) Backflow Prevention work;
    - (b) Drainage work;
    - (c) Fire Protection work;
    - (d) Gasfitting work;
    - (e) Irrigation (Non-agricultural) work;
    - (f) Mechanical Services work;
    - (g) Refrigerated Air-conditioning work;
    - (h) Roofing (Stormwater) work;
    - (i) Sanitary work;
    - (j) Type A Appliance Conversion work;
    - (k) Type A Appliance Servicing work;
    - (l) Type B Gasfitting work;
    - (m) Type B Gasfitting Advanced work; and
    - (n) Water Supply work.
  - (2) For the purpose of section 221C of the Act, the following work is not plumbing work to which Part 12A of the Act applies—
    - (a) any work carried out in relation to a supply or discharge reticulation system or a treatment plant or any equipment, appliance, fixture or system associated with that system or plant (other than any equipment,
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appliance, fixture or system used mainly for administrative or ablution purposes) owned by, or exclusively vested in—

- (i) a gas company; or
  - (ii) the holder of a water licence or a water and sewerage licence under the **Water Industry Act 1994**; or
  - (iii) an Authority that has a water district or a sewerage district under the **Water Act 1989**; or
  - (iv) a council when the work is for stormwater drainage system purposes;
- (b) the internal design, construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of any integral part of an on-site wastewater management system device or an on-site liquid trade waste management system device;
  - (c) the opening or closing of inspection opening caps and covers in sewage, stormwater and waste pipes;
  - (d) the clearing of blockages, or closed circuit television inspection of sewage, stormwater and waste pipes, using existing inspection openings or removable grates;
  - (e) the connection for water use of hoses from appliances such as dishwashers and washing machines to taps;
  - (f) the connection of hoses to taps for the purposes of activities that use water including cleaning or watering a garden;
  - (g) the connection of irrigation systems or devices to hose taps for the purposes of watering a garden or irrigation;
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- (h) the installation of a refrigerated package appliance;
- (i) design work where that design work is carried out by a person in their capacity as—
  - (i) a building practitioner; or
  - (ii) an architect; or
  - (iii) a draftsman; or
  - (iv) an engineer; or
  - (v) a landscape architect; or
  - (vi) a designer—unless the design work is incidental to, or associated with, plumbing work (that is not design work) that is or will be carried out by that person.

**11 Plumbing work that may be carried out by unlicensed or unregistered persons**

- (1) For the purposes of section 221D(2)(b) of the Act, the change over of a 3 star shower head in a dwelling is plumbing work that may be carried out by a person who is not a licensed or registered plumber.
- (2) For the purposes of section 221D(2)(b) of the Act, the repair or replacement of tap washers and other minor tap repairs in a dwelling is plumbing work that may be carried out by a person who is not a licensed or registered plumber.

**Note**

Under section 221D(2)(a) of the Act, a person is excepted from having to be licensed or registered as a plumber when repairing a tap in a dwelling that the person owns and occupies. The above regulation extends this exception to non-owners or non-occupiers of a dwelling.

(3) In this regulation—

**3 star shower head** means a shower head with a water efficiency rating of 3 stars determined in accordance with AS/NZS 6400-2005 Water efficient products—Rating and labelling as issued, published or remade from time to time;

**minor tap repairs** do not include the repair of any thermostatic mixing valve, tempering valve or backflow prevention device.

## **Division 2—Classes of plumbing work**

### **12 Classes of plumbing work other than specialised plumbing work**

For the purposes of the definition of **class of plumbing work** in section 221B(1) of the Act, the following classes of plumbing work are specified—

- (a) Drainage work;
- (b) Fire Protection work;
- (c) Gasfitting work;
- (d) Irrigation (Non-agricultural) work;
- (e) Mechanical Services work;
- (f) Roofing (Stormwater) work;
- (g) Sanitary work; and
- (h) Water Supply work.

### **13 Classes of specialised plumbing work**

For the purposes of the definition of **class of specialised plumbing work** in section 221B(1) of the Act, the following classes of specialised plumbing work are specified—

- (a) Backflow Prevention work;

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- (b) Refrigerated Air-conditioning work;
  - (c) Type A Appliance Conversion work;
  - (d) Type A Appliance Servicing work;
  - (e) Type B Gasfitting Advanced work; and
  - (f) Type B Gasfitting work.
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**PART 3—STANDARD OF PLUMBING WORK**

**14 Standard of plumbing work**

Any registered plumber, licensed plumber or other person authorised to carry out plumbing work under the Act must carry out plumbing work in a good and workmanlike manner.

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**PART 4—DRAINAGE**

**15 Drainage work defined**

- (1) Drainage work is—
- (a) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of any part of a below-ground sanitary drainage system or a below-ground stormwater drainage system from the above-ground sewage, stormwater or waste pipes to the connection with the disposal system; and
  - (b) any design work that is incidental to, or associated with, any work described in paragraph (a).
- (2) Drainage work does not include—
- (a) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of—
    - (i) a subsoil drain for the sole purpose of subsoil water collection; or
    - (ii) stormwater pits, channels that are grated or below-ground storage or retention tanks; or
  - (b) any design work that is incidental to, or associated with, the work described in paragraph (a).

## **16 Requirements for Drainage work**

In addition to the requirements of the PCA, Drainage work must comply with the requirements set out in Part 1 of Schedule 2.

### **Note**

The requirements set out in Part 1 of Schedule 2 include requirements for on-site liquid trade waste management systems.

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## **PART 5—FIRE PROTECTION**

### **17 Fire Protection work defined**

- (1) Fire Protection work is—
- (a) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of any part of a water service used for fire fighting, from the point of connection of the service to the water supply to any firefighting device or equipment forming part of that service, including the following equipment—
    - (i) a fire hydrant or hose reel;
    - (ii) a residential or domestic fire sprinkler system;
    - (iii) a commercial or industrial fire sprinkler system; and
    - (iv) a fire system pump set other than the commissioning of a fire system pump set; and
  - (b) any design work that is incidental to, or associated with, any work described in paragraph (a).
- (2) In this regulation *water service* includes a service that is connected to a reticulated water supply, a rainwater supply or any other water supply.

### **18 Requirements for Fire Protection work**

In addition to the requirements of the PCA, Fire Protection work must comply with the requirements set out in Part 2 of Schedule 2.

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## **PART 6—GASFITTING**

### **19 Terms used in this Part**

Words and expressions used in this Part that are not defined in these Regulations or the PCA have the same meaning that they have in the following standards—

- (a) AS 4575—2005 Gas appliances—Quality of servicing, as issued, published or remade from time to time;
- (b) AS 3814—2005 Industrial and commercial gas-fired appliances, as issued, published or remade from time to time;
- (c) AS 5601—2004 Gas installations, as issued, published or remade from time to time.

### **20 Gasfitting work defined**

- (1) Gasfitting work is the construction, installation, replacement, repair, alteration, maintenance, testing, commissioning or modification of any pipe, appliance, flue, fitting, apparatus, control or other item that is involved with the supply or use of gas and that is fitted downstream of the outlet of a customer billing meter or a consumer's gas storage container and includes—
  - (a) the construction, installation, replacement, repair, alteration, maintenance, testing, commissioning or modification of—
    - (i) any gas appliance in, or on, a caravan or a vessel; and
    - (ii) any roof sheeting and flashing that is necessary for the purpose of any work described in this regulation; and

- (b) any design work that is incidental to, or associated with, any work described in this subregulation.
- (2) Gasfitting work does not include—
- (a) any specialised gasfitting work; or
  - (b) any cleaning, painting or preparation work in relation to gas pipes or gas pipe joints that does not involve the connection, disconnection or alteration of those pipes or joints;
  - (c) the connection or disconnection of a gas storage container for the purpose of filling or refilling the container; or
  - (d) any work in relation to an item that is involved with the supply or use of gas that relates to the propulsion system, or any system that is powered by the propulsion system, of any motor vehicle or vessel.

### **21 Type A Appliance Servicing work**

Type A Appliance Servicing work is the internal cleaning, maintenance and adjusting of a Type A appliance to ensure the appliance continues to safely operate in accordance with the requirements of these Regulations.

### **22 Type A Appliance Conversion work**

Type A Appliance Conversion work is the adjusting or altering of a Type A appliance to operate on a different gas from—

- (a) the gas that the appliance was originally manufactured to use; or
  - (b) the gas that the appliance had been previously converted to use.
-

### **23 Type B Gasfitting work**

- (1) Type B Gasfitting work is the construction, installation, replacement, repair, maintenance, testing, commissioning or servicing of a Type B appliance including the gas supply componentry of the appliance between the gas isolating valve adjacent to the appliance and the flue spigot of the appliance.
- (2) In this regulation *Type B Appliance* means any of the following—
  - (a) water heaters, catering and space heating appliances with an input of greater than 500MJ/h;
  - (b) steam boilers;
  - (c) process furnaces and kilns with flame safeguards;
  - (d) process ovens and dryers.

### **24 Type B Gasfitting Advanced work**

- (1) Type B Gasfitting Advanced work is the construction, installation, replacement, repair, alteration, modification, maintenance, testing, commissioning or servicing of a Type B appliance including the gas supply componentry of the appliance between the gas isolating valve adjacent to the appliance and the flue spigot of the appliance and includes any design work that is incidental to, or associated with, that work.
  - (2) In this regulation *Type B appliance* means any of the following—
    - (a) process furnaces and kilns without flame safeguards;
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- (b) appliances associated with solvent processing and hazardous atmospheres; and
  - (c) high temperature process appliances.
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**PART 7—IRRIGATION (NON-AGRICULTURAL)**

**25 Irrigation (Non-agricultural) work defined**

- (1) Irrigation (Non-agricultural) work is the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of any part of an irrigation system on a property from the connection point to any water supply in the system to the last valve or control to any pressurised zone in the system and includes any design work that is incidental to, or associated with, any work described in this regulation.
- (2) Irrigation (Non-agricultural) work does not include the design, construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of an irrigation system used for the purposes of agriculture.
- (3) In this regulation *connection point* means—
  - (a) the outlet side of the meter assembly in the system; or
  - (b) if no meter assembly is installed on the property, the principal control valve nearest to the property boundary.

## **PART 8—MECHANICAL SERVICES**

### **26 Mechanical Services work defined**

- (1) Mechanical Services work is the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of a mechanical heating, cooling or ventilation system in a building, which is associated with the heating, cooling or ventilation of that building and includes—
    - (a) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of—
      - (i) any valve, regulator, register, pipe, duct, flue, tank, heating or cooling pipe or surface, boiler, burner, solid fuel heater, coil or other item that is used in the system; and
      - (ii) any single head split system; and
      - (iii) in relation to a cooling tower, any water pipe, valve, pump, or automated bleeding device or any other mechanical component that affects the cooling tower's cooling water flow rate or wastewater disposal; and
      - (iv) any fixed component used in a reticulation system for the supply or removal of medical gases from the gas source to a wall outlet; and
      - (v) roof sheeting and flashing that is necessary for the purpose of any work described in this subregulation; and
    - (b) any design work that is incidental to, or associated with, any work described in this subregulation.
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- (2) Mechanical Services work does not include—
- (a) Gasfitting work; or
  - (b) any work on a cooling tower drift eliminator;  
or
  - (c) any treatment of cooling water; or
  - (d) the connection or disconnection of a system referred to in subregulation (1) from a water supply other than disconnection of the system from a water supply at an isolating valve adjacent to a mechanical component of that system.
- (3) In this regulation—

***automated bleeding device*** means an automatic device used for the purposes of draining or bleeding or removing a fluid or gas;

***medical gases*** means any gas or mixture of gases or other substance or process used for hospital or medical use that is supplied to, removed from or conducted at, a hospital or other place where medical procedures are carried out, by way of a pipeline reticulation system and includes oxygen, helium, nitrous oxide, nitrogen, medical air, surgical tool gas, carbon dioxide and common mixtures of those gases as well as anaesthesia waste.

## **27 Requirements for Mechanical Services work**

In addition to the requirements of the PCA, Mechanical Services work must comply with Part 3 of Schedule 2.

**28 Refrigerated Air-conditioning work defined**

- (1) Refrigerated Air-conditioning work is the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of refrigeration or air-conditioning equipment, including—
  - (a) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of—
    - (i) flexible ductwork, associated with the heating and cooling of a building; and
    - (ii) roof sheeting and flashing that is necessary for the purpose of any work described in this subregulation; and
  - (b) any design work that is incidental to, or associated with, any work described in this subregulation.
- (2) Refrigerated Air-conditioning work does not include—
  - (a) the connection or disconnection of refrigeration or air conditioning equipment from a water supply other than the disconnection of that equipment from a water supply at an isolating valve adjacent to a mechanical component of that equipment; or
  - (b) the treatment of cooling water; or
  - (c) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of a single head split system.

**29 Requirements for Refrigerated Air-conditioning work**

In addition to the requirements of the PCA, Refrigerated Air-conditioning work must comply with Part 4 of Schedule 2.

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**PART 9—ROOFING (STORMWATER)**

**30 Roofing (Stormwater) work defined**

- (1) Roofing (Stormwater) work is the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of any roof covering or roof flashing and any part of a roof drainage system involved in the collection or disposal of stormwater, which connects to ground level and includes—
  - (a) the connection of any stormwater piping to—
    - (i) a below-ground stormwater drain; or
    - (ii) an on-site retention or storage tank; and
  - (b) any design work that is incidental to, or associated with, any work described in this subregulation.
- (2) Roofing (Stormwater) work does not include—
  - (a) any cleaning, painting or preparation work in relation to any item, device or equipment involved in the collection or disposal of stormwater other than the connection, disconnection or alteration of that item, device or equipment; or
  - (b) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of any roof covering consisting of non-metallic tiles, slate or flat membrane sheeting or any design work that is incidental to, or associated with, that work.

**31 Requirements for Roofing (Stormwater) work**

In addition to the requirements of the PCA, Roofing (Stormwater) work must comply with Part 5 of Schedule 2.

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**PART 10—SANITARY**

**32 Sanitary work defined**

- (1) Sanitary work is the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of any part of an above-ground sanitary plumbing system to connect sanitary fixtures and appliances to a disposal system or below-ground sanitary drainage system and includes—
  - (a) the design, construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of any roof sheeting and flashing that is necessary for the purpose of that work; and
  - (b) any design work that is incidental to, or associated with, any work described in this subregulation.
- (2) Sanitary work does not include—
  - (a) Water Supply work; or
  - (b) Drainage work.

**33 Requirements for Sanitary work**

In addition to the requirements of the PCA, Sanitary work must comply with Part 6 of Schedule 2.

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## **PART 11—WATER SUPPLY**

### **34 Water Supply work defined**

- (1) Water Supply work is—
- (a) the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of the following—
    - (i) any part of a hot or cold water service that is connected to a drinking water supply from the point of connection to the water supply to the points of discharge of the service;
    - (ii) any part of a non-drinking hot or cold water service or rainwater service, from the point of connection to the water supply to the points of discharge of the service;
    - (iii) any hot water service in or on a caravan or vessel; and
  - (b) any design work that is incidental to, or associated with, any work described in this regulation.
- (2) Water Supply work does not include work described in subregulation (1) carried out in connection with the supply of piped non-drinking water for agricultural purposes unless the water is supplied by a network utility operator or other water provider.

### **35 Requirements for Water Supply work**

In addition to the requirements of the PCA, Water Supply work must comply with Part 7 of Schedule 2.

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**36 Backflow prevention work defined**

Backflow Prevention work is the repair, alteration, maintenance, testing or commissioning of a backflow prevention device, which is capable of being tested and is listed in column 1 of Table 4.1 of AS/NZS 3500.1—2003 Plumbing and drainage Part 1—Water services, as issued, published or remade from time to time.

**37 Requirements of Backflow Prevention work**

In addition to any requirements of the PCA, Backflow Prevention work must comply with Part 8 of Schedule 2.

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**PART 12—QUALIFICATIONS AND EXPERIENCE  
REQUIREMENTS FOR LICENCE OR REGISTRATION**

**38 Qualifications and experience required for classes of  
plumbing work other than specialised plumbing  
work**

- (1) The qualifications and experience required for a person to be able to be registered under section 221O of the Act to carry out a class of plumbing work set out in Column 2 of the Table in Part 1 of Schedule 3 are the qualifications and experience set out in Column 3 of that Table corresponding to that class of plumbing work.
- (2) The qualifications and experience required for a person to be able to be licensed under section 221M of the Act to carry out a class of plumbing work set out in Column 2 of the Table in Part 1 of Schedule 3 are the qualifications and experience set out in Column 4 of the Table corresponding to that class of plumbing work.

**39 Qualifications and experience required for classes of  
specialised plumbing work**

- (1) The qualifications and experience required for a person to be able to be registered under section 221OA of the Act to carry out a class of specialised plumbing work set out in Column 2 of the Table in Part 2 of Schedule 3 are the qualifications and experience set out in Column 3 of that Table corresponding to that class of specialised plumbing work.
  - (2) The qualifications and experience required for a person to be able to be licensed under section 221N of the Act to carry out a class of specialised plumbing work set out in Column 2 of the Table in Part 2 of Schedule 3 are the qualifications and experience set out in Column 4
-

of that Table corresponding to that class of specialised plumbing work.

**40 Experience requirements**

Despite regulation 38, in the case of a person licensed or registered to carry out a particular class of plumbing work who applies to be licensed or registered to carry out another class of plumbing work, employment for not less than 1 year in work of that other class is sufficient for that person to meet the experience requirements to be licensed or registered to carry out that other class of plumbing work.

**41 Experience may be obtained over separate periods and with different employers**

For the purposes of this Part, the experience required for a person to be eligible to be registered or licensed as a plumber under the Act with respect to a class of plumbing work or specialised plumbing work may be obtained over more than one period and with more than one employer.

**42 Commission may approve competency units**

- (1) For the purposes of this Part, the Commission may from time to time approve one or more competency units to be contained in a Certificate II, Certificate III or Certificate IV course relating to a class of plumbing work or specialised plumbing work.
- (2) The Commission may from time to time amend the competency units approved under subregulation (1) with respect to a class of plumbing work or specialised plumbing work.

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Part 12—Qualifications and Experience Requirements for Licence or  
Registration

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- (3) The Commission must publish in the Government Gazette an up-to-date list of the competency units approved under this regulation with respect to a class of plumbing work or specialised plumbing work and the date that those units or amendments to those units come into effect.
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**PART 13—FEES AND OTHER AMOUNTS**

**43 Fees**

For the purposes of Part 12A of the Act, the fee for a matter set out in Column 2 of the Table in Schedule 4 is the amount set out in Column 3 of that Table corresponding to that matter.

**44 Value of plumbing work**

For the purposes of section 221ZH(1)(a) of the Act, the amount fixed is \$750.

**45 Price of compliance certificate form**

For the purposes of section 221ZN(5) of the Act, the maximum amount that may be charged for the sale of a compliance certificate form is \$31.00.

**46 Exemption from fees**

The Commission may wholly or partially exempt a person from having to pay a fee prescribed in this Part if, in its opinion, there are special circumstances.

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## PART 14—TRANSITIONAL PROVISIONS

### 47 Definitions

In this Part—

*commencement date* means the date that these Regulations come into operation;

*former class of plumbing work* means a class of plumbing work prescribed under the old Regulations.

*old Regulations* means the Plumbing Regulations 1998<sup>2</sup>;

### 48 Former classes of plumbing work taken to be classes and types of plumbing work under these Regulations

A former class of plumbing work that is set out in Column 2 of the Table in Schedule 5, is taken to be the class or classes of plumbing work, and, if applicable, the type or types of plumbing work falling within a class of plumbing work, prescribed under these Regulations set out in Column 3 of that Table corresponding to that former class of plumbing work.

### 49 Persons licensed or registered to carry out former class of plumbing work may continue to carry out that work

- (1) A person who immediately before the commencement date was licensed under section 221M or 221N of the Act to carry out a former class of plumbing work set out in Column 2 of the Table in Schedule 5—
  - (a) is taken to be licensed under section 221M or 221N of the Act (as the case requires) to carry out the class or classes of plumbing work prescribed under these Regulations set

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- out in Column 3 of the Table corresponding to that former class of plumbing work; and
- (b) if applicable, is taken to be licensed under section 221Q of the Act to carry out the type or types of plumbing work falling within a class of plumbing work prescribed under these Regulations set out in Column 3 of the Table corresponding to that former class of plumbing work.
- (2) A person who immediately before the commencement date was registered under section 221O or 221OA of the Act to carry out a former class of plumbing work set out in Column 2 of the Table in Schedule 5—
- (a) is taken to be registered under section 221O or 221OA of the Act (as the case requires) to carry out the class or classes of plumbing work prescribed under these Regulations set out in Column 3 of the Table corresponding to that former class of plumbing work; and
  - (b) if applicable, is taken to be registered under section 221R of the Act to carry out the type or types of plumbing work falling within a class of plumbing work prescribed under these Regulations set out in Column 3 of the Table corresponding to that former class of plumbing work.
- (3) A person who is taken to be licensed or registered to carry out a class or classes and, if applicable, a type or types of plumbing work under subregulation (1) or (2) is taken to be so licensed or registered until the date the person's licence or registration to carry out the former class of plumbing work would have expired had the old Regulations not been revoked.
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- (4) Subregulation (3) ceases to apply if a person's licence or registration is suspended or cancelled under the Act.
- (5) As soon as is practicable after the commencement date, the Registrar must—
  - (a) seek the return of each licence or certificate of registration issued under Part 12A of the Act to carry out each former class of plumbing work set out in Column 2 of the Table in Schedule 5; and
  - (b) issue a replacement licence or certificate of registration under the relevant section of Part 12A of the Act in respect of the class or classes of plumbing work, and if applicable, the type or types of plumbing work, set out in Column 3 of the Table in Schedule 5 corresponding to that former class of plumbing work set out in Column 2 of that Table.
- (6) No fee is payable for the issue of a replacement licence or certificate of registration under subregulation (5).

**50 Persons eligible to be licensed or registered to carry out former class of plumbing work still eligible**

- (1) A person who immediately before the commencement date was eligible to be licensed under section 221M or 221N of the Act to carry out a former class of plumbing work set out in Column 2 of the Table in Schedule 5 is taken to be eligible to be licensed under section 221M or 221N of the Act (as the case requires) to carry out the class or classes of plumbing work prescribed under these Regulations set out in Column 3 of the Table corresponding to that former class of plumbing work.
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- (2) A person who immediately before the commencement date was eligible to be registered under section 221O or 221OA of the Act to carry out a former class of plumbing work set out in Column 2 of the Table in Schedule 5 is taken to be eligible to be registered under section 221O or 221OA of the Act (as the case requires) to carry out the class or classes of plumbing work prescribed under these Regulations set out in Column 3 of the Table corresponding to that former class of plumbing work.

**51 Exemption from section 221D(1) of the Act for certain persons carrying out Fire Protection work**

A person, who immediately before the commencement date carried out any type of work described in regulation 17 that was not plumbing work under the old Regulations but is a type of Fire Protection work under these Regulations, is exempted from section 221D of the Act in relation to the carrying out of work of that type for the period ending one year after the commencement date.

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**SCHEDULES**

**SCHEDULE 1**

Regulation 4

**REVOCATIONS**

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<i>S.R. No.</i>	<i>Title</i>
148/1998	Plumbing Regulations 1998
16/1999	Plumbing (Amendment) Regulations 1999
15/2001	Plumbing (Cooling Towers) Regulations 2001
66/2001	Plumbing (Amendment) Regulations 2001
140/2003	Plumbing (Fees Amendment) Regulations 2003
79/2004	Plumbing (Water and Energy Savings) Regulations 2004
174/2004	Plumbing (Fees Amendment) Regulations 2004
57/2005	Plumbing (Fees Amendment) Regulations 2005
41/2006	Plumbing (Certification Marks) Regulations 2006
79/2006	Plumbing (Fees) Regulations 2006
154/2006	Plumbing (Shower Head) Regulations 2006
2/2007	Plumbing (Heat Pumps Amendment) Regulations 2007
85/2007	Plumbing (Fees) Regulations 2007

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## SCHEDULE 2

Regulations 16, 18, 27, 29,  
31, 33, 35 and 37

### REQUIREMENTS IN RELATION TO PLUMBING WORK

#### PART 1—REQUIREMENTS FOR DRAINAGE WORK

##### 1 Requirements for below ground sanitary drainage systems

- (1) If an inspection shaft or boundary trap riser in a below ground sanitary drainage system is located clear of a building and is not likely to be damaged by vehicular traffic, a light cover must be installed at surface level in accordance with clause 4.4.2.1 of AS/NZS 3500.2:2003.
- (2) Discharge pipes measuring DN50 or smaller must not be installed in a below ground sanitary drainage system, except for discharge pipes connected to floor waste gullies.
- (3) The PCA is modified to the extent that AS/NZS 3500.2:2003, as incorporated by the PCA, is to be read as if there were substituted for clauses 13.2.1, 13.2.2 and 13.3—

##### "13.2.1 Water Efficiency

Water testing of any sanitary drainage installation is only permitted at a property where that property is provided with non-drinking water by the network utility operator.

### **13.3 SANITARY DRAINAGE TESTING**

#### **13.3.1 Air testing**

At any property not provided with non-drinking water supplied by a network utility operator, an air test must be applied to every new below-ground drain and to any section of an existing below-ground drain that has been repaired or replaced.

The test must be applied by—

- (a) sealing all openings of the below-ground drain to be tested;
- (b) applying a pressure of 15 kPa to the drain and holding this pressure for 3 minutes to allow the air temperature to stabilise;
- (c) shutting off the air supply and measuring the period of time taken for the pressure in the pipe to drop from 15 kPa to 10 kPa.

The drain is considered to have passed the test if the time taken is greater than 90 seconds for pipes of a size not greater than DN 225.

#### **13.3.2 Water testing (properties supplied with non-drinking water)**

Where a water test is permitted at a property under Clause 13.2.1, the water test must be conducted in accordance with Clause 13.3.1."

## **2 Requirements for low risk on-site liquid trade waste management appliances**

- (1) A low risk liquid trade waste appliance must—
  - (a) be located as close as practicable to the fixtures that it serves and if of the portable type must be installed above ground; and
  - (b) be fitted with a cover which is able to withstand vehicular or pedestrian traffic or other loads likely to be imposed on it and is readily removable by one person; and
  - (c) be constructed of materials suitable for the nature of the wastes likely to be discharged through the appliance.
- (2) A low risk liquid trade waste appliance must—
  - (a) if fitted with an airtight cover, be provided with a DN32, DN50 or DN80 sized vent as nominated by the relevant network utility operator; and
  - (b) be provided with the following outlet ventilation—
    - (i) if installed outside a building, a DN100 sized riser off a disconnector gully in accordance with clause 4.6.2 of AS/NZS 3500.2:2003;
    - (ii) if not of the portable type and installed inside a building, a DN50 sized vent off a disconnector gully in accordance with clause 4.6.5 of AS/NZS 3500.2:2003; and

- (iii) if of the portable type installed inside a building, a DN50 sized vent off a DN80 sized trap riser in accordance with Clause 4.6.5 of AS/NZS 3500.2:2003.
- (3) If a low risk liquid trade waste appliance and outlet vent are interconnected, the interconnection must be in accordance with Clause 6.8.3 of AS/NZS 3500.2:2003.
- (4) The outlet from a low risk liquid trade waste appliance must—
  - (i) if of the portable type receiving a hydraulic loading of up to 5 fixture units, be a minimum size of DN50;
  - (ii) if of the portable type receiving a hydraulic loading of more than 5 fixture units, be a minimum size of DN80;
  - (iii) in any other case, be a minimum size of DN100; and
  - (iv) have a separate trap, of the same size as the outlet pipe, installed at its outlet.
- (5) In this clause—

***hydraulic loading*** means the rate of discharge imposed on a sanitary plumbing installation and is measured in fixture units;

***low risk liquid trade waste*** means water-borne discharges other than sewage that are classified by an Authority within the meaning of the **Water Act 1989** as being of low risk from causing harm to the environment and the assets of that Authority;

***low risk liquid trade waste appliance*** means an appliance that traps and partially treats low risk liquid trade waste and prevents it from entering the sewerage system.

**Note**

The relevant Authority under the **Water Act 1989** or the holder of a licence under the **Water Industry Act 1994** may specify conditions of connection to a sewer for low risk liquid trade waste to enter that sewer and may also require that the waste passes through a low risk liquid trade waste appliance of a type nominated by the Authority or holder of a licence before it enters the sewer.

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## **PART 2—REQUIREMENTS FOR FIRE PROTECTION WORK**

### **3 Requirements for Fire Protection work**

Fire Protection work must comply with the following standards—

- (a) AS/NZS 1530.3: 1999 Methods for fire tests on building materials, components and structures Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, as issued, published or remade from time to time;
  - (b) AS 4118.1.1—1996 Fire sprinkler systems Part 1.1: Components—Sprinklers and sprayers, as issued, published or remade from time to time;
  - (c) AS 2941—2002 Fixed fire protection installations—Pumpset systems, as issued, published or remade from time to time.
-

**PART 3—REQUIREMENTS FOR MECHANICAL SERVICES  
WORK**

**4 Mechanical Services work requirements**

Mechanical Services work must comply with the following standards—

- (a) AS/NZS 2918: 2001 Domestic solid fuel burning appliances—Installation, as issued, published or remade from time to time;
- (b) AS 2896—1998 Medical gas systems— Installation and testing of non-flammable medical gas pipeline systems, as issued, published or remade from time to time;
- (c) AS 2473.3—2007 Valves for compressed gas cylinders Part 3: Outlet connections for medical gases (including pin-indexed yoke connections), as issued, published or remade from time to time;
- (d) AS 2568—1991 Medical gases—Purity of compressed medical breathing air, as issued, published or remade from time to time;
- (e) AS 2902—2005 Medical gas systems—Low pressure flexible hose assemblies, as issued, published or remade from time to time.

**5 Residential heating, cooling and air-conditioning equipment requirements**

Residential heating, cooling and air-conditioning equipment must be installed in accordance with Parts 1 to 4 and Parts 6 and 7 of Handbook 276—2004 A Guide to Good Practice for Energy Efficient Installation of Residential Heating, Cooling and Air Conditioning Plant and Equipment published jointly in 2004 by the Commission and Standards Australia, as issued, published or remade from time to time.

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## 6 Condensate and bleed down drains requirements

- (1) Condensate drains and bleed down drains installed in heating, cooling and air-conditioning equipment (including evaporative coolers) other than cooling towers must discharge to any of the following—
  - (a) an evaporative tray if specified by the manufacturer;
  - (b) a sanitary drainage system by way of a tundish or self-sealing device, which complies with either Clause 4.6.7.8 or Clause 11.22 of AS/NZS 3500.2:2003;
  - (c) a surface water drainage system;
  - (d) an absorption pit, but only if a sanitary or surface water drainage system is not available and the discharge water will not cause damage to buildings or facilities by changing soil moisture conditions;
  - (e) a stormwater downpipe directly over the connection to the roof gutter; or
  - (f) directly to the stormwater downpipe below the connection to the roof gutter provided a means of overflow or reverse flow protection is incorporated.
- (2) Drains from a cooling tower must discharge to a sanitary drainage system in accordance with any applicable trade waste agreement.
- (3) In this clause—

***bleed down drain*** means a drain that collects fluid from a valve used for bleeding or purging;

*evaporative tray* means a tray used to gather excess moisture or condensation for the purpose of evaporation.

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**PART 4—REQUIREMENTS FOR REFRIGERATED AIR-  
CONDITIONING WORK**

**7 Requirements for Refrigerated Air-conditioning  
work**

Refrigerated Air-conditioning work must comply with the following—

- (a) AS/NZS 1677.1: 1998 Refrigerating systems Part 1: Refrigerant classification, as issued, published or remade from time to time;
- (b) AS/NZS 1677.2: 1998 Refrigerating systems Part 2: Safety requirements for fixed applications, as issued, published or remade from time to time;
- (c) Handbook 40.1—2001 The Australian Refrigeration and Air-conditioning Code of Good Practice Part 1: Reduction of Emissions of Fluorocarbon Refrigerants in Commercial and Industrial Refrigeration and Air-conditioning Applications published in 2001 by the Australian Fluorocarbon Council, as issued, published or remade from time to time;
- (d) Handbook 40.2—2001 The Australian Refrigeration and Air-conditioning Code of Good Practice Part 2: Reduction of Emissions of Fluorocarbon in Residential Air-conditioning Applications published in 2001 by the Australian Fluorocarbon Council, as issued, published or remade from time to time;

- (e) Handbook 40.3—2001 The Australian Refrigeration and Air-conditioning Code of Good Practice Part 3: Reduction of Emissions of Fluorocarbon in Domestic Refrigeration Applications published in 2001 by the Australian Fluorocarbon Council, as issued, published or remade from time to time.
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**PART 5—REQUIREMENTS FOR ROOFING  
(STORMWATER) WORK**

**8 Requirements for Roofing (Stormwater) work**

Roofing (Stormwater) work must comply with the following—

- (a) Handbook 39—1997 Installation code for metal roof and wall cladding published in 1997 by Standards Australia as issued, published or remade from time to time (except for Appendices B, C and D);
  - (b) AS 1562.1—1992 Design and installation of sheet roof and wall cladding Part 1: Metal, as issued, published or remade from time to time;
  - (c) AS 1562.3—2006 Design and installation of sheet roof and wall cladding Part 3: Plastic, as issued, published or remade from time to time;
  - (d) AS/NZS 4200.1: 1994 Pliable building membranes and underlays Part 1: Materials, as issued, published or remade from time to time;
  - (e) AS/NZS 4200.2: 1994 Pliable building membranes and underlays Part 2: Installation requirements as issued, published or remade from time to time; and
  - (f) SAA/SNZ Handbook 114: 1998 Guidelines for the design of eaves and box gutters published jointly in 1998 by Standards Australia and Standards New Zealand as issued, published or remade from time to time.
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## **PART 6—REQUIREMENTS FOR SANITARY WORK**

### **9 Requirements for Sanitary work**

The PCA is modified to the extent that AS/NZS 3500.2:2003, as incorporated by the PCA, is to be read as if there were substituted for clause 13.2(a)—

- "(a) When tested, the respective sections of any soil pipe, waste pipe, vent pipe or above-ground drain must be free of leaks when subjected to an air test to 15 kPa for a minimum period of 3 minutes."
-

**PART 7—REQUIREMENTS FOR WATER SUPPLY WORK**

**10 Definitions**

In this Part—

*automatic or manual interchange device* means a device that by way of manual or automatic means can alternate between varying water sources;

*Class 1 building* has the same meaning as it has in the building regulations;

*solar pre-heater* means a solar water heater without a booster heating unit.

**11 Drinking water**

Drinking water that is not intentionally heated must be delivered at a temperature of less than 40 degrees Celsius.

**12 Requirement of hose tap in men's public toilets**

A hose tap must be provided in men's public toilets adjacent to the urinals.

**13 Water meter must be installed in water supply to cooling tower**

If required by the relevant network utility operator, a water meter must be installed in the water supply system supplying water to a cooling tower.

**14 Requirements where rainwater used for sanitary flushing**

- (1) If a reticulated water supply from a network utility operator is connected, or proposed to be connected to a building where a rainwater tank is installed for the purpose of sanitary flushing, an automatic or manual interchange device that allows alternate use of water from the rainwater

tank or the reticulated water supply must be installed to ensure that there is a continual supply of water for sanitary flushing.

- (2) A rainwater tank installed in a new Class 1 building in order to comply with the requirements of the building regulations must—
- (a) be installed in such a way that it receives the rainfall from a minimum catchment area of 50 square metres; and
  - (b) have a minimum capacity of 2000 litres; and
  - (c) be connected to all toilets in the building for the purpose of sanitary flushing in accordance with subregulation (1).

**Note**

The 5 star requirements as set out in the Victorian variation to the energy provisions of the Building Code of Australia provide that in the case of a new Class 1 building, either a rainwater tank connected to all sanitary flushing systems, or a solar water heater system is to be installed in accordance with the Plumbing Regulations.

**15 Requirements relating to solar water heaters**

- (1) A solar water heater installed in a new Class 1 building in order to comply with the requirements of the building regulations must comply with the following requirements—
- (a) the solar water heater must perform to a standard under which the energy savings, relative to a conventional water heater, are 60% or more when calculated in accordance with AS 4234—1994; and

- (b) except in the case of a heat pump water heater, the solar water heater must have a legible label in the following form and containing the relevant information in that table permanently attached to the heater's water heater storage container—

"This solar water heater installation complies with the Plumbing Regulations 2008 (Victoria) when installed with the following collectors

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<i>No. of bedrooms in building</i>	<i>1-2</i>	<i>3 or more</i>
Number of collectors installed in building		
Manufacturing number of each collector installed in building		

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"

- (c) if a reticulated gas supply from a gas company is available for connection to the building the solar water heater—
- (i) must be a gas boosted solar water heater if it incorporates booster heating and is not a heat pump water heater; and
  - (ii) if it is a heat pump water heater, no part of the heater that is capable of heating water must be capable of being connected to the mains electricity supply for that part of the heater to operate.

**Note**

The 5 star requirements as set out in the Victorian variation to the energy provisions of the Building Code of Australia provide that in the case of a new Class 1 building, either a rainwater tank connected to all sanitary flushing systems, or

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a solar water heater system is to be installed in accordance with the Plumbing Regulations.

- (2) The solar radiant collectors contained in a solar water heater installed in a building must—
  - (a) be oriented to face between 50 degrees east and 70 degrees west of magnetic north; and
  - (b) have an inclination of 30 degrees plus or minus 20 degrees to the horizontal.
- (3) The PCA is modified to the extent that AS 4234—1994, as incorporated by AS/NZS 3500.4 (as incorporated by the PCA), is to be read as if—
  - (a) there were substituted for clause 1.4.11—

**"1.4.11 Solar water heater**—a system for heating water consisting of—

    - (a) a solar collector and a container which may be integral, close coupled or remote, and which heats water by means of radiant energy from the sun and may include—
      - (i) a single container solar water heater with electric or gas boosting; or
      - (ii) 2 or more solar pre-heat containers connected to each other and to an electric booster or a gas booster; or
      - (iii) a solar pre-heater coupled with a conventional storage water heater; or

- (iv) any other solar powered heater configuration that incorporates a heater referred to in subparagraph (i) and a component referred to in subparagraph (ii); or
- (b) a heat pump water heater.";
- (b) in clause 1.4.13, "an evaporator" was **substituted** for "a flat plate evaporator"; and
- (c) there were inserted after clause 3.1.2

**"3.1A LOAD AND ENVIRONMENTAL CONDITIONS FOR EVALUATING HEATERS IN CLASS 1 BUILDINGS**

Despite clause 3.1, the following load and environmental conditions must be adopted when using the modified TRNSYS simulation model to evaluate the annual task performance of a solar water heater installed in a Class 1 building—

- (a) all simulation inputs must be in accordance with the zone 4 climate zone set out in Tables A4, A5 and A6 in Appendix A;
  - (b) if the building has less than 3 bedrooms, the peak daily thermal energy load must be 25.2 megajoules per day;
  - (c) if the building has 3 or more bedrooms, the peak daily thermal energy load must be 42 megajoules per day;
  - (d) any reference to a requirement to comply with a direction, instruction, specification, requirement or recommendation of a manufacturer in relation to a matter were a reference to
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a requirement or recommendation (as the case may be) to comply with the relevant best practice in relation to the matter."

## **16 Requirement regarding non-drinking water service**

The PCA is modified to the extent that AS/NZS 3500.1: 2003, as incorporated by the PCA, is to be read as if there were substituted for clause 9.5.2—

### **"9.5.2 Non-drinking water service—Hose tap outlets**

The hose tap outlet must—

- (a) be clearly marked with a prohibition sign in accordance with the requirements of AS 1319; and
- (b) have a non-standard inlet connecting thread and a standard hose connection outlet; and
- (c) be of a type that has a removable handle; and
- (d) be coloured purple."

## **17 Requirements for heated water services**

The PCA is modified to the extent that AS/NZS 3500.4: 2003, as incorporated by the PCA, is to be read as if—

- (a) there were inserted at the end of clause 1.9.2—

"In this Clause new **"hot water installation"** means either a new hot water reticulation heater and a new hot water reticulation system or a new hot water reticulation system.";

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(b) there were inserted after clause 4.3.2.4—

**"4.3.2.4A *Hot water service***

The provisions of Clause 5.3.8 of AS/NZS 3500.1 apply to hot water reticulation."

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**PART 8—REQUIREMENTS FOR BACKFLOW PREVENTION  
WORK**

**18 Requirement for Backflow Prevention work**

Backflow Prevention work must comply with AS 2845.2—1996 Water supply—Backflow prevention devices Part 2: Air gaps and break tanks, as issued, published or remade from time to time.

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**SCHEDULE 3**

Regulations 38, 39

**QUALIFICATIONS AND EXPERIENCE REQUIREMENTS  
FOR LICENCE OR REGISTRATION**

**PART 1—QUALIFICATIONS AND EXPERIENCE REQUIRED  
IN RESPECT OF CLASSES OF PLUMBING WORK**

<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>	<i>Column 4</i>
	<i>Class of plumbing work</i>	<i>Qualifications and experience required for registration under section 221O to carry out a class of plumbing work</i>	<i>Qualifications and experience required for licence under section 221M to carry out a class of plumbing work</i>
1	Drainage work	The following qualifications are required—  (a) successful completion of a Certificate III course relating to plumbing work (except in the case of Drainage work or Irrigation (Non-agricultural) work where a Certificate II course is sufficient) that includes the approved competency units for that class of plumbing work; and	Successful completion of the Commission's examination of licence competencies for that class of plumbing work.
2	Fire Protection work		
3	Gasfitting work		
4	Irrigation (Non-agricultural) work		<b>Note</b> Section 221M(1)(a) of the Act requires a person to be eligible for registration with respect to a class of plumbing work in order to be licensed to carry out that class of plumbing work.
5	Mechanical Services work		
6	Roofing (Stormwater) work		
7	Sanitary work		
8	Water Supply work		

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>	<i>Column 4</i>
	<i>Class of plumbing work</i>	<i>Qualifications and experience required for registration under section 221O to carry out a class of plumbing work</i>	<i>Qualifications and experience required for licence under section 221M to carry out a class of plumbing work</i>
		<p>(b) successful completion of the Commission's examination of competencies for that class of plumbing work.</p> <p>Either of the following types of experience are required—</p> <p>(a) completion of an apprenticeship under the supervision of a plumber qualified to carry out work of that class of plumbing work; or</p> <p>(b) employment for 4 years in that class of plumbing work except in the case of Drainage work or Irrigation (Non-agricultural) work where 2 years is sufficient.</p>	

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**PART 2—QUALIFICATIONS AND EXPERIENCE REQUIRED  
IN RESPECT OF CLASSES OF SPECIALISED PLUMBING  
WORK**

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>	<i>Column 4</i>
	<i>Class of plumbing work</i>	<i>Qualifications and experience required for registration under section 221O to carry out a class of plumbing work</i>	<i>Qualifications and experience required for licence under section 221M to carry out a class of plumbing work</i>
1	Backflow Prevention work	The following qualifications are required— (a) the holding of a registration to carry out Water Supply work; and (b) successful completion of the Commission's examination of competencies for Backflow Prevention work	The following qualifications are required— (a) the holding of a licence to carry out Water Supply work; and (b) successful completion of the Commission's examination of competencies for Backflow Prevention work
2	Refrigerated Air-Conditioning work	The following qualifications are required— (a) the holding of a registration to carry out Mechanical Services work; and (b) the holding of a disconnect/reconnect licence; and	The following qualifications are required— (a) the holding of a licence to carry out Mechanical Services work; and (b) the holding of a disconnect/reconnect licence; and

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>	<i>Column 4</i>
	<i>Class of plumbing work</i>	<i>Qualifications and experience required for registration under section 221O to carry out a class of plumbing work</i>	<i>Qualifications and experience required for licence under section 221M to carry out a class of plumbing work</i>
		<p>(c) either of the following—</p> <p>(i) successful completion of a Certificate III course that includes the approved competency units for Refrigerated Air-Conditioning work; or</p> <p>(ii) successful completion of the Commission's examination of competencies for Refrigerated Air-Conditioning work.</p> <p>Either of the following types of experience are required—</p> <p>(a) completion of a refrigeration apprenticeship; or</p> <p>(b) employment for 4 years in Refrigerated Air-Conditioning work.</p>	<p>(c) either of the following—</p> <p>(i) successful completion of a Certificate III course that includes the approved competency units for Refrigerated Air-Conditioning work; or</p> <p>(ii) successful completion of the Commission's examination of competencies for Refrigerated Air-Conditioning work.</p> <p>Either of the following types of experience are required—</p> <p>(a) completion of a refrigeration apprenticeship; or</p> <p>(b) employment for 4 years in Refrigerated Air-Conditioning work.</p>

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>	<i>Column 4</i>
	<i>Class of plumbing work</i>	<i>Qualifications and experience required for registration under section 221O to carry out a class of plumbing work</i>	<i>Qualifications and experience required for licence under section 221M to carry out a class of plumbing work</i>
3	Type A Appliance Conversion work	<p>The following qualifications are required—</p> <p>(a) the holding of a registration to carry out Gasfitting work; and</p> <p>(b) successful completion of the Commission's examination of competencies for Type A Appliance Conversion work.</p>	<p>The following qualifications are required—</p> <p>(a) the holding of a licence to carry out Gasfitting work; and</p> <p>(b) successful completion of the Commission's examination of competencies for Type A Appliance Conversion work.</p>
4	Type A Appliance Servicing work	<p>The following qualifications are required—</p> <p>(a) the holding of a registration to carry out Gasfitting work; and</p> <p>(b) successful completion of the Commission's examination of competencies for Type A Appliance Servicing work.</p>	<p>The following qualifications are required—</p> <p>(a) the holding of a licence to carry out Gasfitting work; and</p> <p>(b) successful completion of the Commission's examination of competencies for Type A Appliance Servicing work.</p>

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>	<i>Column 4</i>
	<i>Class of plumbing work</i>	<i>Qualifications and experience required for registration under section 221O to carry out a class of plumbing work</i>	<i>Qualifications and experience required for licence under section 221M to carry out a class of plumbing work</i>
5	Type B Gasfitting work	<p>The following qualifications are required—</p> <ul style="list-style-type: none"> <li>(a) the holding of a registration to carry out Gasfitting work; and</li> <li>(b) the holding of a disconnect/reconnect licence; and</li> <li>(c) successful completion of the Commission's examination of competencies for Type B Gasfitting work.</li> </ul> <p>The experience required is employment for 2 years in Type B Gasfitting work.</p>	<p>The following qualifications are required—</p> <ul style="list-style-type: none"> <li>(a) the holding of a licence to carry out Gasfitting work; and</li> <li>(b) the holding of registration to carry out Type B Gasfitting work; and</li> <li>(c) the holding of a disconnect/reconnect licence; and</li> <li>(d) successful completion of the Commission's examination of competencies for Type B Gasfitting work.</li> </ul>
6	Type B Gasfitting Advanced work	<p>The following qualifications are required—</p> <ul style="list-style-type: none"> <li>(a) the holding of a registration to carry out Type B Gasfitting work; and</li> <li>(b) successful completion of the Commission's examination of competencies for Type B Gasfitting Advanced work.</li> </ul>	<p>The following qualifications are required—</p> <ul style="list-style-type: none"> <li>(a) the holding of a licence to carry out Type B Gasfitting work; and</li> <li>(b) successful completion of the Commission's examination of licence competencies for Type B Gasfitting Advanced work.</li> </ul>

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**SCHEDULE 4**

Regulation 43

**FEES**

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>
	<i>Matter</i>	<i>Fee</i>
1	For an application under section 221M, 221N, 221O, 221OA, 221P, 221Q or 221R of the Act	\$45.00
2	For a licence under section 221M or 221Q of the Act or a renewal of that licence (if not endorsed) under section 221ZB of the Act	\$250.00
3	For registration under section 221O or 221R of the Act or a renewal of that registration (if not endorsed) under section 221ZB of the Act	\$282.00
4	For an endorsement under section 221N or 221OA of the Act	\$25.00
5	For a renewal of an endorsed licence or registration under section 221ZB of the Act	\$250.00 plus \$25.00 for each endorsement on the licence or registration
6	For provisional registration under section 221P of the Act or a renewal of provisional registration under section 221ZB of the Act	\$94.00
7	For a temporary licence under section 221W of the Act	\$62.00
8	For temporary registration under section 221W of the Act	\$25.00
9	For a late renewal under section 221ZE of the Act	\$62.00
10	For a duplicate licence or certificate of registration under section 221Y of the Act	\$25.00

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>
	<i>Matter</i>	<i>Fee</i>
11	For an application to modify the plumbing regulations under section 221ZZO of the Act	\$94.00
12	For an application for a practical examination conducted by, or on behalf of, the Commission	\$137.00
13	For an application for a theory examination conducted by, or on behalf of, the Commission	\$50.00

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**SCHEDULE 5**

Regulations 48, 49 and 50

**TRANSITIONAL**

**CLASSES AND TYPES OF PLUMBING WORK**

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>
<i>Item number</i>	<i>Class of plumbing work prescribed under the old Regulations</i>	<i>Class or classes of plumbing work, or types of a class of plumbing work, prescribed under these Regulations</i>
1	Plumbing (Backflow Prevention) work	Backflow Prevention work
2	Plumbing (Draining) work	Drainage work
3	Plumbing (Gasfitting) work	Gasfitting work and Type A Appliance Servicing work
4	Plumbing (Mechanical Services) work	Mechanical Services work and Refrigerated Air-conditioning work
5	Plumbing (Residential and Domestic Fire Sprinkler Systems) work	Fire Protection work relating only to a residential or domestic fire sprinkler system
6	Plumbing (Roofing (Stormwater)) work	Roofing (Stormwater) work
7	Plumbing (Sanitary) work	Sanitary work
8	Plumbing (Type A Gas Appliance Conversion) work	Type A Appliance Conversion work
9	Plumbing (Type B Gasfitting) work	Type B Gasfitting work and Type B Gasfitting advanced work

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>
<i>Item number</i>	<i>Class of plumbing work prescribed under the old Regulations</i>	<i>Class or classes of plumbing work, or types of a class of plumbing work, prescribed under these Regulations</i>
10	Plumbing (Water Supply) work	Water Supply work and Irrigation (Non-agricultural) work and Fire Protection work relating only to a fire hydrant, hose reel or a residential or domestic fire sprinkler system in a residential building of more than 4 storeys

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**ENDNOTES**

<sup>1</sup> Reg. 5: S.R. No. 49/1999. Reprint No. 1 as at 26 September 2007.  
Reprinted to S.R. No. 58/2004.

<sup>2</sup> Reg. 47: S.R. No. 148/1998, revoked by regulation 4 (Schedule 1).

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**Table of Applied, Adopted or Incorporated Matter Required by the  
Subordinate Legislation Regulations 2004**

Note that the following table of applied, adopted or incorporated matter is included in accordance with the requirements of regulation 5 of the Subordinate Legislation Regulations 2004.

<b>Statutory Rule Provision</b>	<b>Title of applied, adopted or incorporated document</b>	<b>Matter in applied, adopted or incorporated document</b>
Regulation 7	<b>Plumbing Code of Australia</b>	Whole document except where noted in Regulation 8
Regulation 11	<b>AS/NZS 6400—2005</b> Water efficient products— Rating and labelling, as issued, published or remade from time to time	Whole document
Regulation 19	<b>AS 4575—2005</b> Gas appliances—Quality of servicing, as issued, published or remade from time to time	Whole document
Regulation 19	<b>AS 3814-2005</b> Industrial and commercial gas-fired appliances as issued, published or remade from time to time	Whole document

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<b>Statutory Rule Provision</b>	<b>Title of applied, adopted or incorporated document</b>	<b>Matter in applied, adopted or incorporated document</b>
Regulation 19	<b>AS 5601 -2004</b> Gas Installations as issued, published or remade from time to time	Whole document
Regulation 36 and Part 7 of Schedule 2	<b>AS/NZS 3500.1:2003</b> Plumbing and drainage Part 1: Water services, as issued, published or remade from time to time	Whole document
Part 1 of Schedule 2 Part 3 of Schedule 2 Part 6 of Schedule 2	<b>AS/NZS 3500.2:2003</b> Plumbing and drainage Part 2: Sanitary plumbing and drainage, as issued, published or remade from time to time	Whole document
Part 2 of Schedule 2	<b>AS/NZS 1530.3:1999</b> Methods for fire tests on building materials, components and structures – Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release issued, published or remade from time to time	Whole document
Part 2 of Schedule 2	<b>AS 4118.1.1-1996</b> Fire sprinkler systems – Part 1.1: Components - Sprinklers and sprayers issued, published or remade from time to time	Whole document

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<b>Statutory Rule Provision</b>	<b>Title of applied, adopted or incorporated document</b>	<b>Matter in applied, adopted or incorporated document</b>
Part 2 of Schedule 2	<b>AS 2941-2002</b> Fixed fire protection installations - Pumpset systems, as issued, published or remade from time to time	Whole document
Part 3 of Schedule 2	<b>AS/NZS 2918:2001</b> Domestic solid fuel burning appliances - Installation, as issued, published or remade from time to time	Whole document
Part 3 of Schedule 2	<b>AS 2896 – 1998</b> Medical gas systems – Installation and testing of non-flammable medical gas pipeline systems as issued, published or remade from time to time	Whole document
Part 3 of Schedule 2	<b>AS 2473.3 – 2007</b> Valves for compressed gas cylinders Part 3: Outlet connections for medical gases (including pin-indexed yoke connections) as issued, published or remade from time to time	Whole document
Part 3 of Schedule 2	<b>AS 2568 – 1991</b> Medical gases – Purity of compressed medical breathing air as issued, published or remade from time to time	Whole document

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<b>Statutory Rule Provision</b>	<b>Title of applied, adopted or incorporated document</b>	<b>Matter in applied, adopted or incorporated document</b>
Part 3 of Schedule 2	<b>AS 2902 – 2005</b> Medical gas systems – Low pressure flexible hose assemblies as issued, published or remade from time to time	Whole document
Part 3 of Schedule 2	<b>Handbook 276-2004</b> A Guide to Good Practice for Energy Efficient Installation of Residential Heating, Cooling & Air Conditioning Plant & Equipment as issued, published or remade from time to time	Parts 1 to 4 and Parts 6 and 7
Part 4 of Schedule 2	<b>AS/NZS 1677.1: 1998</b> Refrigerating Systems Part 1: Refrigerant Classification as issued, published or remade from time to time	Whole document
Part 4 of Schedule 2	<b>AS/NZS 1677.2: 1998</b> Refrigerating Systems Part 2: Safety requirements for fixed applications as issued, published or remade from time to time	Whole document
Part 4 of Schedule 2	<b>Handbook 40.1—2001</b> The Australian Refrigeration and Air-conditioning Code of Good Practice Part 1: Reduction of Emissions of Fluorocarbon Refrigerants in Commercial and Industrial Refrigeration and Air-conditioning Applications as issued, published or remade from time to time	Whole document

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<b>Statutory Rule Provision</b>	<b>Title of applied, adopted or incorporated document</b>	<b>Matter in applied, adopted or incorporated document</b>
Part 4 of Schedule 2	<p><b>Handbook 40.2—2001</b> The Australian Refrigeration and Air-conditioning Code of Good Practice Part 2: Reduction of Emissions of Fluorocarbon in Residential Air-conditioning Applications as issued, published or remade from time to time</p>	Whole document
Part 4 of Schedule 2	<p><b>Handbook 40.3—2001</b> The Australian Refrigeration and Air-conditioning Code of Good Practice Part 3: Reduction of Emissions of Fluorocarbon in Domestic Refrigeration Applications as issued, published or remade from time to time</p>	Whole document
Part 5 of Schedule 2	<p><b>Handbook 39—1997</b> Installation code for metal roof and wall cladding as issued, published or remade from time to time</p>	Whole document except Appendices B, C and D
Part 5 of Schedule 2	<p><b>AS 1562.1—1992</b> Design and installation of sheet roof and wall cladding Part 1: Metal as issued, published or remade from time to time</p>	Whole document
Part 5 of Schedule 2	<p><b>AS 1562.3—2006</b> Design and installation of sheet roof and wall cladding Part 3: Plastic as issued, published or remade from time to time</p>	Whole document

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<b>Statutory Rule Provision</b>	<b>Title of applied, adopted or incorporated document</b>	<b>Matter in applied, adopted or incorporated document</b>
Part 5 of Schedule 2	<b>AS/NZS 4200.1: 1994</b> Pliable building membranes and underlays Part 1: Materials as issued, published or remade from time to time	Whole document
Part 5 of Schedule 2	<b>AS/NZS 4200.2: 1994</b> Pliable building membranes and underlays Part 2: Installation requirements as issued, published or remade from time to time	Whole document
Part 5 of Schedule 2	<b>SAA/SNZ Handbook 114: 1998</b> Guidelines for the design of eaves and box gutters as issued, published or remade from time to time	Whole document
Part 7 of Schedule 2	<b>AS 4234-1994</b> Solar water heaters – domestic and heat pump – Calculation of energy consumption as issued, published or remade from time to time	Whole document
Part 7 of Schedule 2	<b>AS 3500.4:2003</b> Plumbing and Drainage Part 4: Heated water services as issued, published or remade from time to time	Whole document
Clause 16 of Part 7 of Schedule 2	<b>AS/NZS 3500.1:2003</b> which incorporates <b>AS 1319 – 1994</b> Safety signs for the Occupational environment as issued, published or remade from time to time	Whole document

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<b>Statutory Rule Provision</b>	<b>Title of applied, adopted or incorporated document</b>	<b>Matter in applied, adopted or incorporated document</b>
Part 8 of Schedule 2	<b>AS 2845-2:1996</b> Air gaps and break tanks	Whole document