




















INDEX

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(0) ROOF PLUMBING

(Including above ground stormwater drainage)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

Does the installation comply with the minimum industry standards as established in
AS/NZS 3500 2003 Part 3 Stormwater drainage
AS/NZS 3500 2000 Part 5 Domestic installations,
SAA HB39 -1997 Installation Code for Metal Roofing and wall cladding (except
Appendices B, C & D)
SAA/SNZ HB114:1998 Guidelines for the design of eaves and box gutters
AS 1562.1-1992 Design and installation of sheet roof and wall cladding Part 1: Metal
AS 1562.3-2006 Design of installation of sheet and wall cladding Part 3
AS/NZS 4000.1- 1994 Pliable building membrane and underlays Part 1
AS/NZS 4000.2- 1994 Pliable building membrane and underlays Part 2
The performance requirements of Plumbing Code of Australia - 2004
The Relevant Manufacturer's Specifications
(For below ground stormwater drainage see drainage checklist)

▪ LEVEL 1

Are the roof materials and roof components compatible?
Do the roof sheet fixing centres comply with manufacturer's specification?
Has the roof covering and roof components the correct fixings?
Where required has fall protection been provided?
Do the roof gutters/roof penetrations have the correct support?
Is the discharge capacity adequate for the catchment?
Do the roof cover sheets have the required minimum pitch?
Are the roof penetrations weather-tight/fastened?
Does the roof plumbing system have the required overflow provision?

▪ LEVEL 2

Is the workmanship of an acceptable standard?
Is the insulation and sarking installed correctly?
Does the roof gutter(s) have the required gradient?
Have the required expansion provisions been provided?
Do the roof sheets have the required weather stops?
Have acceptable material jointing methods been used?
Have the correct laps in flashing materials been provided?

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Are the sump and rainhead sizes adequate?
Are the flashings weather tight/fastened?
Are the drainage provisions around penetrations adequate?
Does the roof penetration avoid ponding?
Have the minimum dimensions for flashings been provided?
Has all the debris/swarf from the roof installation been removed?



(1) SANITARY PLUMBING

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

Does the installation comply to the minimum industry standards as established by
AS/NZS 3500 2003 Part 2 Sanitary plumbing and drainage
Section 4 of AS/NZS 3500 2000 Part 5 Domestic installations
The performance requirements of Plumbing Code of Australia - 2004
The Relevant Manufacturer's Specifications

▪ LEVEL 1

Have approved materials and products been used?
Have the fixtures and appliances been installed correctly?
Does the size of all discharge pipes and stacks comply?
Is the venting of the installation adequate?
Does the gradient of the discharge pipes comply?
Have the minimum depth of fixture trap seals been retained?
Are all the flushing cisterns of a dual flush 6x3 maximum capacity?
Do the termination points of vent pipes comply?

▪ LEVEL 2

Where required has provision for expansion been met?
Does the installation have the correct pipework support?
Does the installation comply to the proximity of other services?
Do the design requirements for the sanitary plumbing system comply?
Does the maximum length of discharge pipe without ventilation comply?
Have the air testing requirements of the sanitary installation been met?
Does the sanitary plumbing installation for people with disabilities comply?
At sites utilizing greywater treatment, have discharge pipes greater than DN80 been identified?



(2) SEPTIC TANK INSTALLATION

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

Code of Practice – Septic Tanks (on site Domestic Waste Water Management) or the site permit conditions, any EPA requirements if applicable and the AS/NZS 3500 Part 2 - 2003.Sanitary plumbing and drainage Section 4 of AS/NZS 3500 Part 5 – 2000 Domestic installations AS/NZS 1546-1998 Part 1 On-site domestic wastewater treatment units The performance requirements of Plumbing Code of Australia - 2004 The Relevant Manufacturer's Specifications

▪ LEVEL 1

Have approved materials and products been used?
Where required has provision been made for a drain installed in unstable/water charged ground?
Does the bedding and bedding material comply?
Is the drain the correct size?
Does the gradient of the drain comply?
Does the system have the required ventilation upstream of the septic tank/treatment plant?
Does the installation have overflow provision via an overflow relief gully?
Does the backfill material comply?
Is the installation adequately protected from storm water infiltration?
Have any EPA and local Government requirements been met?
Have the permit conditions been met?
Does the installation comply with the Code of Practice?
Are all the discharges contained on site?
Do the absorption lines comply to the code or site conditions and permits?

▪ LEVEL 2

Are the access and inspection covers accessible on the treatment tank?
Does the installation comply to the proximity of other services?
Are the distribution pits constructed in accordance with the code?
Does the on site treatment system comply with the site conditions?



(3) DRAINAGE (Below Ground Sewer)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 3500 -2003 Part 2 Sanitary plumbing and drainage
Section 4 of AS/NZS 3500 2000 Part 5 Domestic installations,
The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

- Has consent to connect been granted?
- Have approved materials and products been used?
- Where required has provision been made for a drain installed in unstable/water charged ground?
- Does the excavation comply to Worksafe requirements?
- Is surcharge protection provided (overflow relief gully or reflux valve)?
- Has provision for adequate ventilation of the drain been achieved?
- Is the drain connection to the Authorities sewer connection point correctly installed (boundary trap or boundary trap omitted)?
- Does the bedding and bedding material comply?
- Does the drain have the correct gradient?
- Did the drain pass the required pressure test?
- Are the greywater / blackwater drains separately connected to their discharge points?

▪ LEVEL 2

- Have the required concrete supports for drainage fittings been installed?
- Does the boundary trap/inspection shaft have the required approved cover?
- Are the access chambers of the approved size/materials?
- Does the installation comply to the proximity of other services?
- Does the infiltration protection comply (storm water, ground water)?
- Does any cut and seal comply?
- Does the drain have the minimum cover?
- Does the backfill material comply?
- Is the drain installed in an easement/public space compliant?
- Do the inspection provisions of the drain comply?
- At sites utilizing greywater treatment, have discharge pipes greater than DN80 been identified?
- Is the drain constructed in an approved size?
- Is the design of the drain to an acceptable standard?



(4) DRAINAGE (Below Ground Stormwater)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 3500 - 2003 Part 3 Stormwater drainage
Section 5 of AS/NZS 3500 - 2000 Part 5 Domestic installations,
The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?
Does the excavation comply to Worksafe requirements?
Is the discharge capacity adequate for the catchment?
Does the installation have the required gradient?
Is the backfill material adequate to ensure the drain is protected?
Does the drain have an overflow provision?
Where required is a reflux valve installed?
Does the installation of the drain for charged / displacement systems comply?

▪ LEVEL 2

Where required have inspection openings been installed?
If a retention system is installed has a surcharge outlet point been provided?
Have approved covers been provided on inspection risers?
Have the minimum cover requirements been met?
Does the bedding and bedding material comply?
Did the drain pass the required pressure test?
Is the drain installed in an easement / public space compliant?
Is the drain constructed in an approved size?
Is the design of the drain to an acceptable standard?



(5) COLD WATER PLUMBING

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 3500 - 2003 Part 1 Water services

Section 2 of AS/NZS 3500 2000 Part 5 Domestic installations,

AS/NZS 6400 – 2005 Water efficient products - Rating and labeling

The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?

Is the water supply system designed / installed to prevent contamination?

Are the cross-connection control and backflow protection provisions in accordance with the standards?

Has the installation passed the required hydrostatic test?

Has the installation been designed to deliver the water temperature less than 40⁰ Celsius?

Do storage tanks have overflow provisions that comply?

Where required do the water requirements for haemodialysis machines comply?

▪ LEVEL 2

Have the correct flow rates at outlets within a building been achieved?

Does the installation have the minimum internal diameter pipe size?

Has the static pressure at outlets within a building been maintained at or below 500 kPa?

Does the installation comply with the proximity of other services?

Do all the valves, cisterns, taps and pressure relief valves perform?

Where required does the installation have isolating valves?

Does the installation have the correct pipework support?

Does the installation have the correct depth of cover?

Where required does the installation have frost protection?

Where required does the irrigation and lawn watering systems comply?

Has the installation been disinfected and commissioned?



(6) HOT WATER PLUMBING

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 3500 – 2003 Part 4. Heated water services
Section 3 of AS/NZS 3500 2000 Part 5 Domestic installations
AS/NZS 6400 – 2005 Water efficient products - Rating and labeling
AS/NZS 4234 – 1994 Solar water heaters – domestic and heat pump
The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?
Have approved appliances and fixtures been installed correctly?
Are the cross-connection control and backflow protection provisions in accordance with the standards?
Does the minimum storage temperature of 60⁰ Celsius comply?
Does the maximum delivery temperature comply with the requirements of AS/NZS 3500 Parts 4 & Section 3 of Part 5, in relation to 45⁰ & 50⁰ Celsius?
Does the heated water service for people with disabilities comply?
Has the pipe work been insulated and/or heat traps provided for heat retention as required?
Does the temperature-pressure-relief (TPR) valve terminate in a safe manner?
Has the installation passed the required hydrostatic test?
Do water heaters with uncontrolled heat source comply?
Do any storage tanks connected have overflow and safe tray provisions that comply?
Do all the valves, cisterns, taps and temperature pressure relief valves perform?

▪ LEVEL 2

Have the correct flow rates at outlets within a building been achieved?
Does the installation have the minimum internal diameter pipe size?
Does the temperature-pressure-relief (TPR) valve termination point comply?
Has the static pressure at outlets within a building been maintained at or below the maximum 500 kPa?
Where a solar water heater is installed in a new class 1 building does the solar water heater have a label showing that the installation complies with the Plumbing Regulations 2008?
If reticulated gas is available does the solar water heater have gas boosting?
Does the installation comply with the proximity to other services?
Does the installation have isolating valves where required?

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Does the installation have the correct pipework support?
Does the installation have the correct depth of cover?
Does the installation have frost protection where required?
Has the installation been commissioned?



(7) MECHANICAL SERVICES (Including Duct Fixing)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

HB 276– 2004 Parts 1 to 4 and Parts 6 & 7 A Guide to Good Practice for Energy Efficient Installation of Residential Heating, Cooling and Air Conditioning Plant
Australian and New Zealand Refrigerant handling code of practice Part 1: Self-contained low charge systems (2007) and Part 2: Systems other than self-contained low charge systems (2007)
SAA HB39 – 1997 Installation code for Metal Roofing and wall cladding
AS/NZS 4254 – 2002 Ductwork for air – handling systems in buildings
AS/NZS 4508 – 1999 Thermal insulation of pipework, ductwork and equipment
AS/NZS 2918 – 2001 Domestic solid fuel burning appliances – Installation
AS/NZS 5601 – 2004 Gas installations.(for any gas component of the installation)
AS/NZS 5601 – 2004 Gas installations
AS/NZS 3500 Part 1 Water services
AS/NZS 3500 Part 2 Sanitary plumbing and drainage
Section 2 of AS/NZS 3500 - 2000 Part 5 Domestic installations,
The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?
Have the correct appliances been selected?
Are the cross-connection control and backflow protection provisions in accordance with the standards?
Have the required design and installation performances been met?
Are the flow requirements for air, gas and water adequate?
Are the ventilation requirements adequate?
Has the appliance/installation been commissioned?
Does the terminal point of flues, exhaust systems and air intakes comply?

▪ LEVEL 2

Are the duct and register locations correct?
Is the workmanship on the installation acceptable?
Are the overflow / condensate drains correctly discharged?
Are the hanger and support systems adequate?
Is the noise and vibration transmission acceptable?
Are the heat emitters / transmitters sized to the required installation specification?

Does the network utility operator require a water meter to be installed on the supply line to the cooling tower?



(7) MECHANICAL SERVICES

(Solid Fuel Heaters)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 2918 – 2001 Domestic solid fuel burning appliances – Installation
SAA HB39 -1997 Installation Code for Metal Roofing and wall cladding

▪ LEVEL 1

Has the solid fuel heater been installed in accordance with the manufacturer's installation instructions?

Have approved materials and products been used?

Have the flue joints been lapped and sealed correctly?

Does the heater and flue have the correct clearances from combustible materials?

Does the flue terminal comply?

Has the correct flue cowl been installed?

Are the roof / wall penetrations installed correctly?

Is the flue support system adequate?

▪ LEVEL 2

Is the workmanship on the installation acceptable?

Are the roof materials and flue components compatible?

Is there adequate access for servicing?

Has the installation been commissioned?



(7) MECHANICAL SERVICES (Medical Gases)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 2896– 1998 Medical gas systems – Installation and testing of non – flammable medical gas pipeline systems

AS/NZS 2473.3 – 2007 Valves for compressed gas cylinders Part 3 Outlet connections for medical gases (including pin – indexed yoke connections)

AS/NZS 2568 – 1991 Medical gases – purity compressed medical breathing air

AS/NZS 2902 – 2005 Medical gas systems – Low pressure flexible hose assemblies

▪ LEVEL 1

Have approved materials and products been used?

Has the gas system been installed correctly?

Where required does the installation have isolating valves?

Has the pipeline, junctions and termination points been identified / coloured as required?

Is the gas cylinder system and change over pipe connections in accordance with the standard?

▪ LEVEL 2

Is the workmanship performed to an acceptable standard?

Are all exposed pipelines protected from physical damage?

Is there adequate access for servicing?

Does the installation comply to the proximity to other services?

Are the pipelines correctly supported?

Have the required records / instructions and as - installed drawing been provided to the facility?

Has the installation been commissioned?



(8) BACKFLOW PREVENTION (Medium & High Risk Only)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 2845. 2 - 1996 Water supply – Backflow prevention devices Part 2: Air gaps and break tanks

AS/NZS 3500 – 2003 Part 1 Water services Section 4 and Appendix E, F & G
Section 2 of AS/NZS 3500 - 2000 Part 5 Domestic installations,

The performance requirements of Plumbing Code of Australia - 2004

▪ **LEVEL 1**

Have approved devices been installed?

Does the individual/zone/containment protection comply?

Does the device selection/installation comply?

Is the device accessible for servicing?

Has the device been commissioned by an approved practitioner?

▪ **LEVEL 2**

Does the device have the correct support?

Do any tundish and drain lines comply?

Does the installation have approved isolation valves/strainers?

Have the approved clearances for testing purposes been met?

Has the device been included in a commissioning, testing and maintenance program?



(90) RESIDENTIAL & DOMESTIC FIRE SPRINKLER SYSTEMS

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS 2118 – 1999 Automatic fire sprinkler systems, Part 4 - 1995 Residential, Part 5 – 2008 Domestic
AS/NZS 3500 – 2003 Part 1 Water services
The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?
Are the cross-connection control and backflow protection provisions in accordance with the standards?
Have the design specifications been checked and met?
Are the required minimum flow rates met?
Have the correct pipe sizes been used?
Have the water flow devices been tested?
Has any alarm system, where fitted, been tested?
Where required have all the commissioning checks of the pumps been activated?
Have the water levels in tanks been established?
Have all the approved identification markings been installed?
Has the installation been commissioned by an approved practitioner?

▪ LEVEL 2

Does the installation have the correct pipework support?
Does the installation have the correct depth of cover?
Where required does the installation have frost protection?



(91) GREY OR RECYCLED WATER (Non-Drinking Water)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 3500 Part 1.- 2003 Water services
Section 2 of AS/NZS 3500 2000 Part 5 Domestic installations,
AS/NZS 6400 – 2005 Water efficient products - Rating and labeling
AS/NZS 1319 – 1994 Safety signs for occupational environment
The performance requirements of Plumbing Code of Australia - 2004

▪ **LEVEL 1**

Have approved materials and products been used?
Has the installation been correctly identified as non – drinking water?
Is the non–drinking water only for an approved use?
Does the purple external hose tap incorporate a removable handle, non-standard inlet thread, and include a prohibition sign to AS 1319?
Does the installation comply with the proximity to other services?
Have any storage tanks that form part of the non-drinking water installation been clearly identified?
Are the cross-connection control and backflow protection provisions in accordance with the standards?

▪ **LEVEL 2**

Has the installation passed the required hydrostatic test?
Have the correct flow rates been achieved?
Does the installation have isolating valves where required?
Does the installation have the correct pipework support?
Does the installation have the correct depth of cover?
Does the installation have frost protection where required?
Has the static pressure at outlets been maintained at or below the maximum 500 kPa?
Have the correct commissioning procedures for both drinking water supply and the non-drinking water supply been carried out?



(92) NATURAL GAS TYPE A INSTALLATION



(93) LPG TYPE A INSTALLATION



(94) OTHER TYPES OF GASES

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS 5601 – 2004 Gas installations
AS 4575 – 2005 Gas appliances – Quality of servicing
AS 3814 – 2005 Industrial and commercial gas-fired appliances

▪ LEVEL 1

Have approved materials and products been used?
Have approved appliances been installed correctly?
Is the gas supply meter/cylinder location in accordance with the standard?
Is the appliance location in accordance with its specification?
Is the gasfitting line to all appliances sized correctly?
Is the new gasfitting line gas tight?
Is any existing gasfitting line within the allowable pressure drop?
Have the appliance fluing requirements been met?
Have the appliance ventilation requirements been met?
Have all the required clearances been met?
Where required is the oxygen depletion safety device fitted?
Does the LPG installation have the required over-pressure protection?

▪ LEVEL 2

Does the installation comply to the minimum industry standards as established by AS 5601 and the relevant manufacturers specifications?
Have the appliance disconnection requirements been met?
Where required have consumer safety labels been installed?
Is the gasfitting line correctly supported?
Is the gasfitting line installed in an approved location?
Is the appliance regulator in an accessible location?
Does the below ground gas fitting line have the required cover?
Has the installation/appliance been commissioned?



(92, 93 & 94) TYPE A NATURAL GAS & LPG (Appliance Servicing work)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS 4575 – 2005 Gas appliances – Quality of servicing
AS 5601 – 2004 Gas installations

▪ LEVEL 1

Have approved materials and products been used?
Following servicing is the installation of the appliance safe?
Has the installation / appliance been installed correctly?
If applicable is the new consumer piping gas tight?
If applicable is the existing consumer piping within the allowable pressure drop?
Have the appliance fluing requirements been met?
Have the appliance ventilation requirements been met?
Have all the required clearances and specific appliance installation requirements been met?
Has the appliance been serviced to manufacturer's specifications / materials?
Has the installation been commissioned?



(92, 93 & 94) TYPE A NATURAL GAS & LPG (Appliance Conversion work)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS 4575 – 2005 Gas appliances – Quality of servicing
AS 5601 – 2004 Gas installations

▪ LEVEL 1

Have approved materials and products been used?
Following conversion does the installation of the appliance comply?
Has the appliance been converted to manufacturer's specifications?
Is the appliance suitable for conversion?
Is the consumer piping to all appliances sized correctly?
Have the appliance fluing requirements been met?
Have the appliance ventilation requirements been met?
Have all the required clearances and specific appliance installation requirements been met?
Where required is the appliance regulator in an accessible location?
Has the installation been commissioned?



(95) FIRE PROTECTION

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

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 4118.1.1 – 1996 Fire sprinkler systems Part 1.1: Components – Sprinklers and sprayers
AS 2941 – 2008 Fixed fire protection installations – Pump set systems
AS 2118 – 1999 Automatic fire sprinkler systems Part 1 - 1995 General requirements, Part 4 - 1995 Residential, Part 5 – 2008 Domestic, Part 6 - 1995 Combined sprinklers and hydrants, Part 9 - 1995 Piping support and installation
AS 2419 – 1994 Fire hydrant installations Part 1 1994 System design, installation and commissioning, Part 2 Fire hydrant valves
AS 2441 – 1998 Installation of fire hose reels
AS/NZS 3500 – 2003 Part 1 Water services
The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?
Are the cross-connection control and backflow protection provisions in accordance with the standards?
Have the design / installation specifications been checked and met?
Are the required minimum flow rates met?
Has any alarm system, where fitted, been tested?
Where required have all the testing and commissioning checks been activated?
Have the water levels in tanks been established?
Have all the approved identification markings been installed?
Has the installation been commissioned by an approved practitioner?

▪ LEVEL 2

Does the installation have the correct pipework support?
Does the installation have the correct depth of cover?
Where required does the installation have frost protection?
Are the sprinklers clear of obstructions?
Do the storage tanks comply?



(95) FIRE PROTECTION (Fire Hydrant / Hose Reels)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS 2419 – 1994 Fire hydrant installations Part 1 1994 System design, installation and commissioning, Part 2 Fire hydrant valves
AS 2441 – 1998 Installation of fire hose reels
AS/NZS 3500 – 2003 Part 1 Water services
The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?
Are the cross-connection control and backflow protection provisions in accordance with the standards?
Have the design / installation specifications been checked and met?
Are the required minimum flow rates met?
Have all the testing and commissioning checks been activated?
Where required have the water levels in tanks been established?
Have all the approved identification markings been installed?

▪ LEVEL 2

Does the installation have the correct pipework support?
Does the installation have the correct depth of cover?
Where required does the installation have frost protection?
Do the storage tanks comply?



(95) FIRE PROTECTION

(Commercial / Industrial Fire Sprinkler Systems)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

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 4118.1.1 – 1996 Fire sprinkler systems Part 1.1: Components – Sprinklers and sprayers

AS 2941 – 2002 Fixed fire protection installations – Pump set systems

AS 2118 – 1999 Automatic fire sprinkler systems Part 1 - 1995 General requirements, Part 6 - 1995 Combined sprinklers and hydrants, Part 9 - 1995 Piping support and installation

AS 2441 – 1998 Installation of fire hose reels

AS/NZS 3500 – 2003 Part 1 Water services

The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?

Are the cross-connection control and backflow protection provisions in accordance with the standards?

Have the design / installation specifications been checked and met?

Are the required minimum flow rates met?

Have all the testing and commissioning checks been activated?

Have the water levels in tanks been established?

Have all the approved identification markings been installed?

▪ LEVEL 2

Are all the sprinklers compatible?

Is the positioning of sprinklers correct?

Does the installation have the correct pipework support?

Does the installation have the correct depth of cover?

Where required does the installation have frost protection?

Are the sprinklers clear of obstructions?

Do the storage tanks comply?



(95) FIRE PROTECTION (Fire System Pump Set)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS 2941 – 2008 Fixed fire protection installations – Pump set systems
AS/NZS 3500 – 2003 Part 1 Water services

▪ LEVEL 1

Have approved materials and products been used?

Are the cross-connection control and backflow protection provisions in accordance with the standards?

Have the design / installation specifications been checked and met?

Are the required minimum flow and pressure rates met?

Have all the approved identification markings been installed?



(96) IRRIGATION (Non – Agricultural) (Applies only to pressurised zones)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 3500 Part 1.- 2003 Water services

AS/NZS 2845 – 2:1996 Air gaps and break tanks

The performance requirements of Plumbing Code of Australia - 2004.

▪ LEVEL 1

Have approved materials and products been used?

Are the cross-connection control and backflow protection provisions in accordance with the standards?

Where required has the installation been correctly identified as non – drinking water?

Where required has the installation been correctly identified as rainwater?

Has the installation passed the required hydrostatic test?

▪ LEVEL 2

Does the installation have the required flow rates?

Does the installation comply to the proximity to other services?

Do all the valves perform?

Where required does the installation have isolating valves?

Does the installation have the correct pipework support?

Does the installation have the correct depth of cover?

Where required does the installation have frost protection?

Are the non-drinking water sprinkler heads coloured purple?



(97) REFRIGERATION AIR-CONDITIONING (Refrigeration)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 1677 - 1998 Refrigerating systems Parts 1 & 2

Australian and New Zealand Refrigerant handling code of practice Part 1: Self-contained low charge systems (2007) and Part 2: Systems other than self-contained low charge systems (2007)

HB 276– 2004 Parts 1 to 4 and Parts 6 & 7 A Guide to Good Practice for Energy Efficient Installation of Residential Heating, Cooling and Air Conditioning Plant

AS 4041 - 1998 Pressure Piping.

▪ LEVEL 1

Is the appliance correctly sized for the application?

Is the pipe gauge compatible with the refrigerant?

Have the correct labeling requirements for refrigerants and lubricants been met?

Is the outdoor unit located to achieve adequate ventilation?

Is the condensate drain(s) correctly discharged and terminated?

Are roof penetrations flashed correctly using approved materials?

Is adequate roof drainage provided around the roof penetration?

Are roofing/building penetrations finished and weathered correctly?

Are the mechanical jointed fittings accessible?

Has the installation been commissioned?

▪ LEVEL 2

Does the pipework installation comply?

Is the pipework insulated with approved material?

Is the pipework installed to protect against vibration transmission? specifications?

Are the air filters of an approved type?

Are there any visible oil leaks?

Do the control valves have protective caps?

Are the unit and control valves located to facilitate access for servicing?

Is the workmanship on the installation acceptable?

Is the insulation protected from weathering?

Are the condensate drains correctly supported?



(97) REFRIGERATION AIR-CONDITIONING (Split System Air Conditioning)

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 1677 - 1998 Refrigerating systems Parts 1 & 2

Australian and New Zealand Refrigerant handling code of practice Part 1: Self-contained low charge systems (2007) and Part 2: Systems other than self-contained low charge systems (2007)

HB 276– 2004 Parts 1 to 4 and Parts 6 & 7 A Guide to Good Practice for Energy Efficient Installation of Residential Heating, Cooling and Air Conditioning Plant

AS 4041 - 1998 Pressure Piping.

▪ **LEVEL 1**

- Is the appliance correctly sized for the application?
- Is the pipe gauge compatible with the refrigerant?
- Has the correct fixing method been used for the indoor unit?
- Is the condensate drain(s) correctly discharged and terminated?
- Is the outdoor unit mounted and supported correctly?
- Is the refrigeration pipework correctly supported?
- Are the mechanical jointed fittings accessible?
- Is the refrigeration pipework insulated with approved material?
- Has the refrigeration pipework been leak tested in an approved manner?
- Has the unit been commissioned?
- Are roof penetrations flashed correctly using approved materials?
- Is adequate roof drainage provided around the roof penetration?
- Are building penetrations finished and weathered correctly?

▪ **LEVEL 2**

- Are there any visible oil leaks?
- Do the control valves have protective caps?
- Is the workmanship on the installation acceptable?
- Is the indoor unit installed in the correct position?
- Is the indoor unit installed level?
- Is the outdoor unit positioned correctly?
- Is the unit located to facilitate access for servicing?
- Is the insulation protected from weathering?

Are the condensate drains correctly supported?



(98) SOLAR INSTALLATION

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 3500 Part 4 Heated water services
Section 3 of AS/NZS 3500 2000 Part 5 Domestic installations,
AS/NZS 6400 – 2005 Water efficient products - Rating and labeling
AS/NZS 4234 – 1994 Solar water heaters – domestic and heat pump
The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?
Do the solar radiant collector(s) have the correct orientation and inclination?
Have the solar radiant collector(s) and container been correctly supported?
Where a solar water heater is installed in a new class 1 building does the solar water heater have a label showing that the installation complies with the Plumbing Regulations 2008?
If reticulated gas is available does the solar water heater have gas boosting?
Does the temperature-pressure-relief (TPR) valve terminate in a safe manner?
Are the cross-connection control and backflow protection provisions in accordance with the standards?
Does the minimum storage temperature of 60⁰ Celsius comply?
Does the maximum delivery temperature comply with the requirements of AS/NZS 3500 Parts 4 & Section 3 of Part 5, in relation to 45⁰ & 50⁰ Celsius?
Does the heated water service for people with disabilities comply?
Has the pipe work been insulated and/or heat traps provided for heat retention as required?
Has the installation passed the required test and commissioning?
Do any containers connected have overflow and safe tray provisions that comply?
Do all the valves, cisterns, taps and temperature pressure relief valves perform?

▪ LEVEL 2

Have the correct flow rates at outlets within a building been achieved?
Does the installation comply with the proximity to other services?
Have approved appliances been installed correctly?
Does the installation have valves where required?
Does the installation have the correct pipework support?
Does the installation have protection against freezing where required?



(99) RAINWATER TANK INSTALLATION

PERFORMANCE AND COMPLIANCE CHECK LEVEL 1 & LEVEL 2 FAULTS

References

AS/NZS 3500 Part 1 - 2003 Water services
Section 6 of AS/NZS 3500 2008 Part 5 Housing installations
AS/NZS 6400 – 2005 Water efficient products - Rating and labeling
The performance requirements of Plumbing Code of Australia - 2004

▪ LEVEL 1

Have approved materials and products been used?
Has the installation been correctly identified as rainwater?
Are the cross-connection control and backflow protection provisions in accordance with the standards?
Is the distribution of the rainwater only for an approved use?
Where a rainwater tank is installed in a new class 1 building does the tank have a minimum capacity of 2000 ltrs which is served by a minimum roof catchment of 50 square metres and is connected to all toilets?
If reticulated water supply is connected to the building has an automatic or manual inter change device been installed to ensure continuous supply for sanitary flushing?
Has the installation passed the required hydrostatic test?

▪ LEVEL 2

Where drinking water is used as top-up, has a visible means to detect water wastage been fitted to the overflow pipe?
Have the correct flow rates been achieved?
Has the static pressure at outlets within a building been maintained at or below the maximum 500 kPa?
Does the installation comply with the proximity to other services?
Do all the valves, cisterns and taps perform?
Where required does the installation have isolating valves?
Does the installation have the correct pipework support?
Does the installation have the correct depth of cover?
Where required does the installation have frost protection?
Has the rainwater tank overflow been installed to AS/NZS 3500?