

# Audit

## 6: Hot Water Plumbing

### Performance and Compliance Check

#### Level 1 and Level 2 Faults

##### LEVEL 1

- Are the materials used fit for their intended purpose and where required appropriately authorised?
- 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 60 Celsius comply?
- Does the maximum delivery temperature comply with the requirements?
- 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 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?
- Does the installation have the minimum internal diameter pipe size?

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- 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?
- 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?
- Where penetrating concrete has the pipe work been protected?
- Does the hot water tapware have the required indicators?
- Has the pipe work been labelled correctly?
- Where required, has a modification application been submitted and approved?
- Has the installation been commissioned?
- Have the manufacturer's installation instructions been adhered to?
- Has the class of plumbing been indicated on the compliance certificate?
- Where relevant, has documentation for a performance solution been provided?

### REFERENCES

Does the installation comply with the minimum industry standards:

- AS/NZS 3500.4: Plumbing and drainage Part 4: Heated water services
- AS/NZS 3500.5: Plumbing and drainage Part 5: Housing installations - Section 3
- AS 1428.1: Design for access and mobility - General requirements for access - New building work
- AS 1428.2: Design for access and mobility - Enhanced and additional requirements - Buildings and Facilities.
- AS/NZS 4234: Heated water systems –Calculation of energy consumption
- The requirements of Part B2 of the Plumbing Code of Australia (PCA)
- The Plumbing Regulations 2008
- The relevant manufacturer's Installation Instructions

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### NOTES

The standards and audit items listed on this checklist are intended as a guide only and are not an exhaustive list.

Other standards may be applicable to the installation and should be referenced as required, additionally Audit items may alter dependent on actual work conducted and final installation.

Practitioners are advised to check that they are using the most current edition of the prescribed standards at the time of installation.