

AUDIT

98: Solar Installation

Checklist

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?
- Do the solar radiant collector(s) have the correct orientation and inclination?
- Have the solar radiant collector(s) and container been secured appropriately?
- 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 2018*?
- 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, in a visible location and with access to maintenance?
- 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 standards?
- Has a temperature control device been installed where an uncontrolled heat source is servicing fixtures?
- Does the heated water service for people with disabilities comply?
- Has the pipe work been appropriately insulated?
- Has the installation passed required test and commissioning?
- Do storage tanks connected have overflow and safe tray provisions that comply?
- Do all 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 maintain adequate clearances from 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?
- Does the gas booster system meet the required minimum clearances?
- Does the gas boosting system have the correct pipe sizing?
- Where required, has a modification application been submitted and approved?
- 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 / Heated water services
- AS/NZS 3500.5: Plumbing and drainage / Housing installations - Section 3
- AS/NZS 4234: Solar water heaters – domestic and heat pump - Calculation of energy consumption
- AS/NZS 5601.1: parts 1 & 2 – Gas Installations
- *Plumbing Regulations 2018*
- The requirements of Part B2 of The Plumbing Code of Australia (PCA)
- The relevant manufacturer's installation instructions

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 the actual work conducted and the final installation.

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