

# AUDIT

## 7.1: Mechanical Services (Including Duct Fixing)

### 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?
- ☐ 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 registers and duct 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?
- ☐ Is the duct work rated correctly for the application?
- ☐ Has the correct R-value for ductwork been used?
- ☐ Are all the connections to the registers and the appliance adequate?
- ☐ Have access provisions to the appliance been provided?
- ☐ 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:

- HB 276: Parts 1 - 4, 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 and Part 2: Systems other than self-contained low charge systems
- SA HB39: Installation code for Metal Roofing and wall cladding
- AS/NZS 4254: Ductwork for air – handling systems in buildings
- AS/NZS 4508: Thermal resistance of insulation for ductwork used in building air - conditioning
- AS/NZS 2918: Domestic solid fuel burning appliances – Installation
- AS/NZS 5601: Gas installations.(for any gas component of the installation)
- AS/NZS 3500.1: Plumbing and drainage Part 1: Water services
- AS/NZS 3500.2: Plumbing and drainage Part 2: Sanitary plumbing and drainage
- AS/NZS 3500.5: Plumbing and drainage Part 5: Housing installations - Section 2
- The requirements of Part E1 of the Plumbing Code of Australia (PCA)
- The *Plumbing Regulations 2018*
- The relevant manufacturer's installation instructions
- AS4575

## 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.