

Technical Solution Sheet 5.02

5: Cold Water Plumbing

Water Supply for Dental Consoles

AIM

The aim of this technical solution is to clarify the requirements for connecting cold water supply at dental surgeries.

PLUMBING REGULATION S 2008

The *Plumbing Code of Australia (PCA)* is adopted by and forms part of the *Plumbing Regulations 2008*. Part B1 of the PCA specifies the objectives and performance requirements related to the installation of cold water services. [AS/NZS 3500.1: Plumbing and drainage Part 1: Water services](#), is a “deemed to satisfy” document listed in Part B1 of the PCA and contains a section on “Cross connection control and backflow prevention”.

TECHNICAL REQUIREMENTS

Dental surgeries normally do not have any special facilities or apparatus that is connected to the drinking water supply.

[AS/NZS 3500.1](#) Appendices E and F:

- Are provided for information and guidance
- Provide hazard ratings for different forms of cross connection

Individual protection is usually via the air gaps (see Figure 1).

For zone protection a dental console in Australia is classified as a low hazard.

- This requires a non testable back flow prevention device.
- The recommended device is a Dual Check Valve with Atmospheric Port (DCAP).

For containment protection, the requirements for a dental surgery may be specified by the relevant Water Authority.

FIGURE 1 - TYPICAL DENTAL CONSOLE WATER SUPPLY

