

Guide to using pipe sizing spreadsheet by Peter Wenning

To be read in conjunction with:

- *Pipe sizing tabulation sheet (Microsoft Excel spreadsheet)*
- *Pipe sizing guide figures (pdf file)*
- *"Selection and sizing of copper tubes for water piping systems" by Barrie Smith (pdf file)*
- *AS/NZS 3500*

Australian Standards

- Cold water: AS/NZS 3500.1 specifies minimum flow rates, probable flow rates and probable demand for normal domestic situations but NOT commercial situations. The 5 m head minimum pressure requirement at the specified flow rates is unacceptable in the real world as many appliances will not function at such a low pressure.
- Hot/tempered water supply: AS/NZS 3500.4 provides guidance on some typical flow rates for calculation purposes only.

Selecting an appropriate pipe sizing method

There are numerous software packages that provide rapid pipe sizing solutions, and technical books, but some of these don't include all of the factors that contribute to professional pipe sizing. For example, cold water is more viscous than hot, therefore there is a greater pressure drop through a pipe with cold water. While some design engineers do not consider temperature when sizing pipes, it is an important factor, and there is in fact a 16% difference between sizing for 15°C and 60°C.

A good learning resource is '*Selection and sizing of copper tubes for water piping systems*'. This book was written by Barrie Smith, formerly a senior educator at TAFE NSW, and it has been used by designers around Australia for more than 20 years.

The Barrie Smith book uses *metres head* as a pressure statement. This is important for water system designers that need to merge information relating to elevation and pressure as follows:

- Water authorities issue pressure and flow reports providing the minimum and maximum pressures expressed in metres head
- Building heights and floor levels are measured in metres
- Ground levels are measured in metres in relation to AHD (Australian Height Datum)
- Lengths of piping are measured in metres

There have been many innovations, with the introduction of plastic water piping and water conservation measures, but the book remains current and is an excellent learning resource that can be adapted and used for current teaching practice. To that end, I developed a Microsoft Excel spreadsheet, and the following procedure for applying data in the book.

Pipe Sizing Study Guide

Marco Cascella



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