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## Designing a domestic plumbing system - Build 169(2018)

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### Abbreviation

Designing a domestic plumbing system

### Valid from

01/12/2018

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### Information provider

BRANZ Limited

### Information type

BUILD article

### Format

HTML, PDF, Hard copy

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### Description

Considering the key requirements of a plumbing system early in a house design can lead to a smoother consenting and building experience, fewer call-backs and happier clients.

When BRANZ arranged inspections of 200 new houses under construction, some of the most common problems involved plumbing. In over a third of the houses, there were framing cut-outs to accommodate pipes that were larger than permitted in NZS 3604:2011 *Timber-framed buildings*.

Cladding penetrations for pipes that were not properly sealed to the wall underlay – a potential weathertightness risk – were also among the top 10 defects.

### Scope

This article includes:

- Plan well to avoid problems
- Basic requirements
- Design and planning pointers
- Think about the water supply layout
- Gradients and floor joist depth
- Floor waste gully traps
- Drainage, sanitary plumbing and venting a 2-storey house
- Include maintenance access
- Plan the work sequence

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