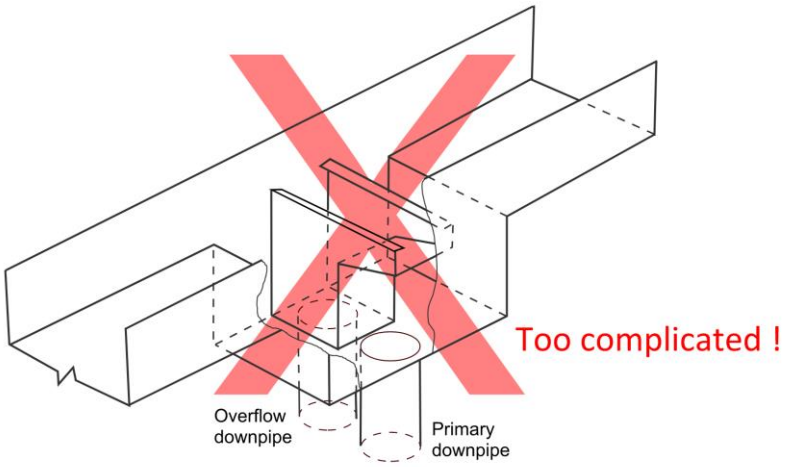
Dam Buster Sumps

Dam Buster Sumps provide a very attractive alternative to the complicated Deemed-to-Satisfy **Sump / High-Capacity Overflow** ('**HCO**') to AS/NZS 3500.3. The HCO is rarely (if ever) constructed properly and instead, the roof plumber simply installs a standing overflow pipe, which has not been designed hydraulically, and which is invariably inadequate and consequently non-compliant.

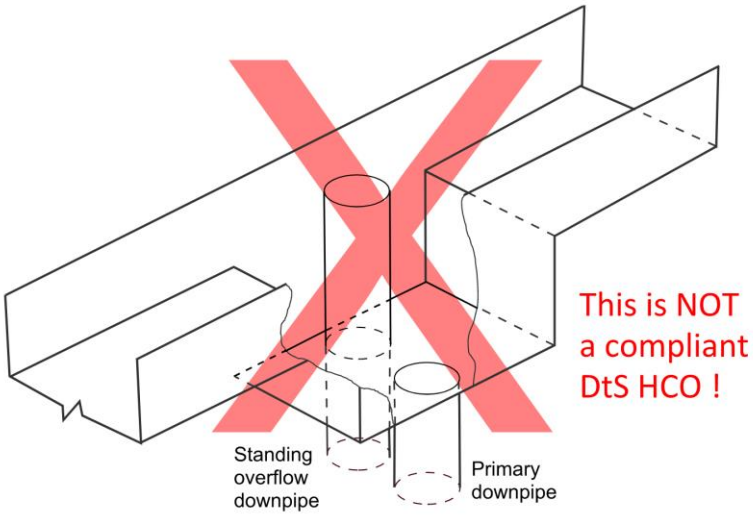
There are three types of **Dam Buster Sumps**, as below (refer also the image on the next sheet):

- The Dam Buster **Sump**, a very simple device, with flow in one direction only
  - The maximum design flow is 16 L/s.
- The Dam Buster **Continuous Sump**, which is simply a series of Dam Buster Sumps in a row, with flow occurring in one direction only.
  - The maximum design flow is 16 L/s per Sump.
- The Dam Buster **'Back-to-Back' Sump,** which is a pair of Dam Buster Sumps, installed back-to-back, thereby allowing flow in both directions. The outer walls of the overflow compartments cut down and flashed over, and the primary and overflow downpipes are joined below the sump. These downpipes should be designed by a hydraulic engineer.
  - The maximum design flow is 32 L/s per double Sump (16 L/s max. from both sides)

One of the main advantages of using **Dam Buster** products is that you can be much more confident that what is specified is actually built. Refer to the **Product Technical Statement** for details of these devices.

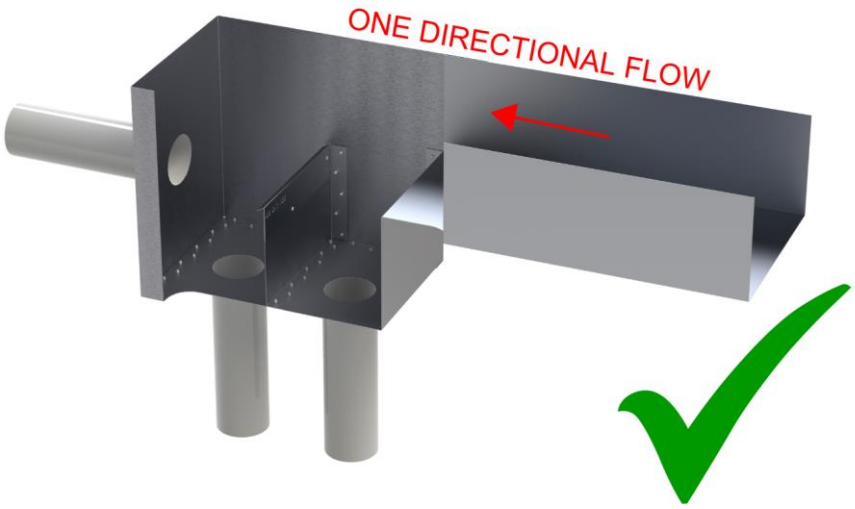


Sump / High Capacity Overflow Device to AS/NZS 3500.3

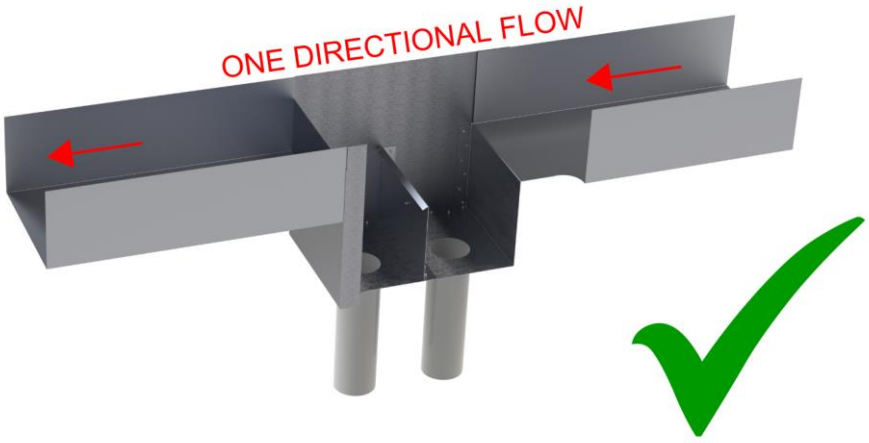


Sump with Standing Overflow Pipe is NOT a compliant DtS Sump / High Capacity Overflow device

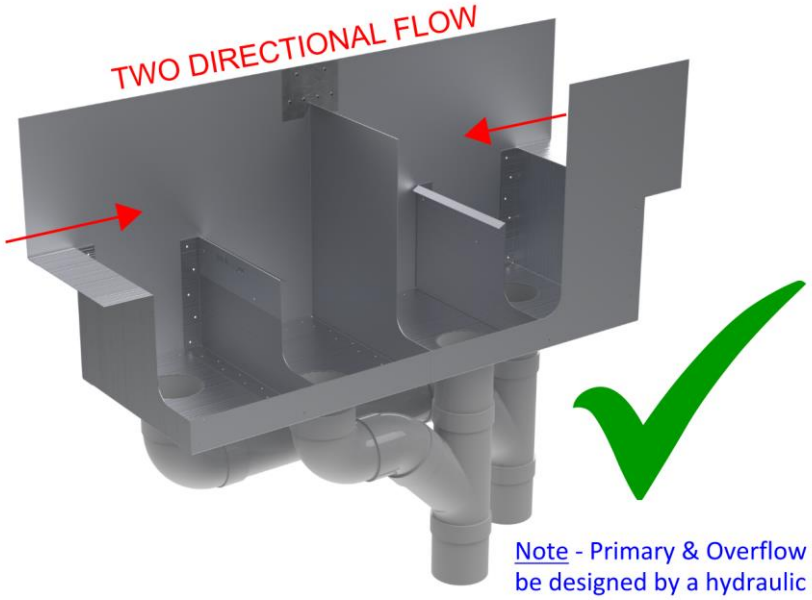
Dam Buster Sumps (cont.)



Dam Buster **Sump** - Up to 16 L/s



Dam Buster **Continuous Sump** - Up to 16 L/s



Note - Primary & Overflow pipes to be designed by a hydraulic engineer

Dam Buster **Back-to-Back Sump** - Up to 32 L/s

(16 L/s maximum from both sides)