

Dear Customer,

I am writing to you to provide a list of information regarding roof designs and what is now required to achieve compliance with some of the most common items. While the majority of designs achieve compliance, there are some simple items that are overlooked during the design and construction phase.

Please find following a list of common items that require consideration for future installations:

- Box Gutter sizing – Minimum 300mm width x Minimum 100mm depth (High End)
- Box Gutters must discharge to a rainhead or sump only.
- Box Gutters must not have a change of direction towards the outlet.  
\*(Design box gutters with high points at corners/ Use sumps at low points to overcome)
- Box Gutters must not reduce in width towards the outlet.
- Box gutter falls – Minimum 1:200 (Recommend 1:100 as a minimum to allow for variations)
- Sump sizes – Minimum 400mm long x 100mm deep for sumps with side overflows.  
Minimum 600mm long x 150mm deep for sumps with high-capacity overflows.
- Side Overflow size – Minimum 75H x 200W chute (Round overflows not permitted)
- High-Capacity Overflow size – Same diameter as the downpipe that serves the sump.  
\*The overflow pipe must discharge to the atmosphere only. It must not be connected to the stormwater system.
- Rainheads must be fitted with the top of the front face 25mm below the sole of the box gutter.  
\*The front face of the rainhead must be open above. No overflow slots permitted.
- Valley Irons (Standard) must not be used on roof pitches lower than 12.5 degrees.
- Valley irons (standard) must not catch more than 20m<sup>2</sup> roof area.
- Downpipe quantities – Quad Gutter = maximum 37m<sup>2</sup> roof area per downpipe  
Half round gutter = maximum 42m<sup>2</sup> roof area per downpipe  
Square Gutter = maximum 62m<sup>2</sup> roof area per downpipe  
\*When calculating lower roof areas, it must include any additional top roof area that discharges on to that lower roof.
- Down pipe sizing - Minimum downpipe size for eaves gutter is 100mm x 50mm.  
Minimum downpipe size for rainhead or sump is 90mm round.  
\*Adopt 100x75mm downpipes if a rectangle profile is preferred.
- Downpipe spreaders – The maximum upper roof catchment area a spreader can discharge onto a lower roof is 15m<sup>2</sup> \*Consider extending the spreader directly into the lower eaves gutter/ box gutter.  
Spreaders must not discharge on to a lower roof flashing.  
Spreaders must not discharge into a lower valley.

Please share the above information with your team including Draftsmen, Estimator, Construction Supervisor, Truss & Wall Manufacturer/ Carpenter, Plumber, Drainage Plumber etc...

To assist your business in understanding the requirements to achieve compliance, our team is available for advice with current and future projects.

Please do not hesitate to contact our office 9735 9926 should you wish to discuss the above or arrange a meeting for guidance.

Kind Regards,

Rohan Fisher

