

Cu

Zn

Al

Fe

smart rain™ Rainwater Systems

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smart rain™ rainwater heads and sumps

Architectural Metalformers provides a comprehensive range of rainwater heads.

All **smart rain™** rainwater heads must comply with the E2/AS1 Acceptable Solution Building Code.

From a simple box to the highly ornate Churchill design, most can also be further customised to meet your requirements.

We produce **smart rain™** rainwater heads in copper, zinc, aluminium and Colorcote™ Zinalume™.

Please consult with Copper Roofing Architectural Metalformers as early as possible in the design process, regarding your **smart rain™** rainwater head design and compliance.

The following components must be considered in the overall design.

- > Materials that are commonly used are: copper, zinc, aluminium and pre-painted steel.
- > Some designs are only available in copper or zinc, (designs that require soldering due to curved corners).
- > Quantity is determined by catchment area of roof and size of downpipes.
- > The scupper or wall outlet provided by the builder should be a minimum of 200mm x 75mm.
- > The width of the rainwater head should be 100mm minimum wider than this outlet, 50mm minimum on each side.
- > The height of the rainwater head should allow for correct position of overflow slot and capacity.
- > The depth of the rainwater head should allow for dropper position (wall standoff distance) and scupper depth.
- > Dropper size and position. Factors like wall cladding, position of risers, and downpipe size are due to capacity, thus influencing dropper details.
- > Bead detail around top edge of rainwater head. Options are a): safe edge only b): square bead c): round bead.



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- > Lids are an optional extra to cover the top of the rainwater head. Lids should be fitted so they are removable. Generally they have a 10mm edge around the three visible sides and often fitted to rainwater heads on deck areas.
- > Overflow slot baffles can be fitted to hide the scupper. In copper and zinc, these can be soldered so rivets are not required. Prepainted material can not be soldered so baffle either has to be bonded with adhesive or rivets.

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overflow slots

All rainwater heads should have overflow slots that match the capacity of the downpipe. The position of the slot should have the bottom edge to a minimum of 25mm below the wall outlet.

65mm diameter Downpipe has a capacity of 3220mm. The minimum size overflow slot to match this is approx 30mm x 110mm.

80mm diameter Downpipe has a capacity of 5025mm. The minimum size overflow slot to match this is approx 30mm x 170mm.

100mm diameter Downpipe has a capacity of 7860mm. The minimum size overflow slot to match this is approx 40mm x 200mm.



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smart rain™ a selection of rainwater heads in copper

